

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

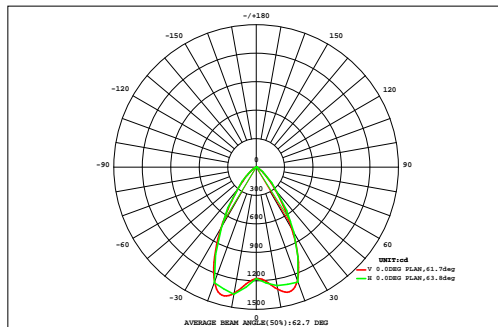
Maximum Intensity (Luminaire orientation as tested.)		923.4 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I _{max} At 50% of I _{max} At 90% of I _{max}	96.0V x 93.4H 58.8V x 58.2H 32.7V x 35.5H
Beam Flux	Total To 10% of I _{max} To 50% of I _{max} To 90% of I _{max}	999.6 lumens per klm. 937.7 lumens per klm. 660.8 lumens per klm. 282.5 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:33.1DEG
Operators:QC1
Test Date:2022-10-17

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:55%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.2663A P:36.46W PF:0.6200 Lamp Flux:1521.16x1 lm		
NAME: 8.01.016.0005 60°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20220100023
MFR.: TPK	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:41.72lm/W	
MODEL	LWW-PZT-W38A-L12-DMX	Imax(cd)	1405
NOMINAL POWER(W)	36	AVAILABILITY(%)	93.9
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	1428
NOMINAL FLUX(lm)	1521.16	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1521
TEST VOLTAGE(V)	221.2	θ @50%(H,V)	58,59DEG

AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
72	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.08	0.12	0.12	0.10	0.05	0.03	0.01	0.01	0.00	0.00	0.00	0.59	0.00
64	0.00	0.00	0.00	0.05	0.17	0.32	0.49	0.64	0.73	0.75	0.68	0.54	0.37	0.20	0.06	0.00	0.00	0.00	5.01	0.00
56	0.00	0.00	0.06	0.22	0.50	0.89	1.34	1.76	2.02	2.05	1.84	1.45	1.00	0.59	0.28	0.09	0.00	0.00	14.1	0.09
48	0.00	0.02	0.16	0.49	1.05	1.86	2.86	3.81	4.44	4.52	4.02	3.12	2.10	1.22	0.60	0.23	0.04	0.00	30.5	21.6
40	0.00	0.07	0.34	0.92	1.97	3.58	5.64	7.66	8.99	9.12	8.00	6.02	3.88	2.14	1.02	0.39	0.09	0.00	59.8	54.5
32	0.00	0.14	0.54	1.46	3.26	6.25	10.3	14.2	16.7	16.9	14.7	10.8	6.66	3.50	1.61	0.61	0.16	0.01	108	104
24	0.01	0.19	0.73	2.05	4.80	9.70	16.3	22.0	24.7	24.8	22.4	17.1	10.4	5.21	2.27	0.84	0.23	0.02	164	160
	0.02	0.22	0.85	2.43	5.89	12.3	20.3	25.2	25.7	25.4	25.1	21.4	13.8	6.87	2.90	1.06	0.30	0.04	190	187
	0.02	0.25	0.94	2.70	6.64	14.0	22.7	26.6	24.8	24.0	25.6	23.4	15.6	7.73	3.22	1.17	0.33	0.04	200	197
	0.03	0.28	1.01	2.84	6.95	14.5	23.0	26.2	24.3	23.9	25.6	23.0	15.0	7.32	3.05	1.10	0.31	0.04	198	195
	0.02	0.24	0.87	2.45	5.85	12.2	20.5	26.1	27.0	26.8	25.8	21.0	13.1	6.50	2.75	1.01	0.29	0.04	193	189
	0.01	0.18	0.67	1.81	4.16	8.45	14.8	21.1	24.7	24.8	21.7	16.1	9.77	4.96	2.18	0.82	0.24	0.03	156	153
-24	0.00	0.12	0.47	1.26	2.82	5.50	9.33	13.5	16.5	16.8	14.6	10.6	6.47	3.40	1.58	0.61	0.18	0.02	104	99.5
-32	0.00	0.07	0.31	0.82	1.76	3.24	5.14	7.25	8.76	8.95	7.73	5.71	3.61	2.00	0.98	0.39	0.10	0.00	56.8	51.2
-40	0.00	0.02	0.17	0.49	0.98	1.70	2.52	3.33	3.80	3.77	3.33	2.59	1.73	1.01	0.50	0.19	0.03	0.00	26.2	15.7
-48	0.00	0.00	0.05	0.20	0.44	0.76	1.05	1.33	1.53	1.55	1.39	1.12	0.80	0.50	0.25	0.08	0.01	0.00	11.1	0.43
-56	0.00	0.00	0.00	0.04	0.15	0.29	0.41	0.54	0.63	0.65	0.58	0.46	0.32	0.18	0.07	0.02	0.00	0.00	4.35	0.00
-64	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.08	0.11	0.12	0.10	0.08	0.05	0.03	0.01	0.00	0.00	0.00	0.73	0.00
-72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)	16	24	32	40	48	56	64	72			
Φ t	0.13	1.79	7.18	20.2	47.4	95.6	157	201	216	215	203	165	105	53.4	23.3	8.59	2.32	0.24	1521	---
Φ a	0.00	0.00	0.03	11.5	40.9	89.7	151	196	210	210	198	159	99.3	47.1	15.4	0.30	0.00	0.00	---	1428

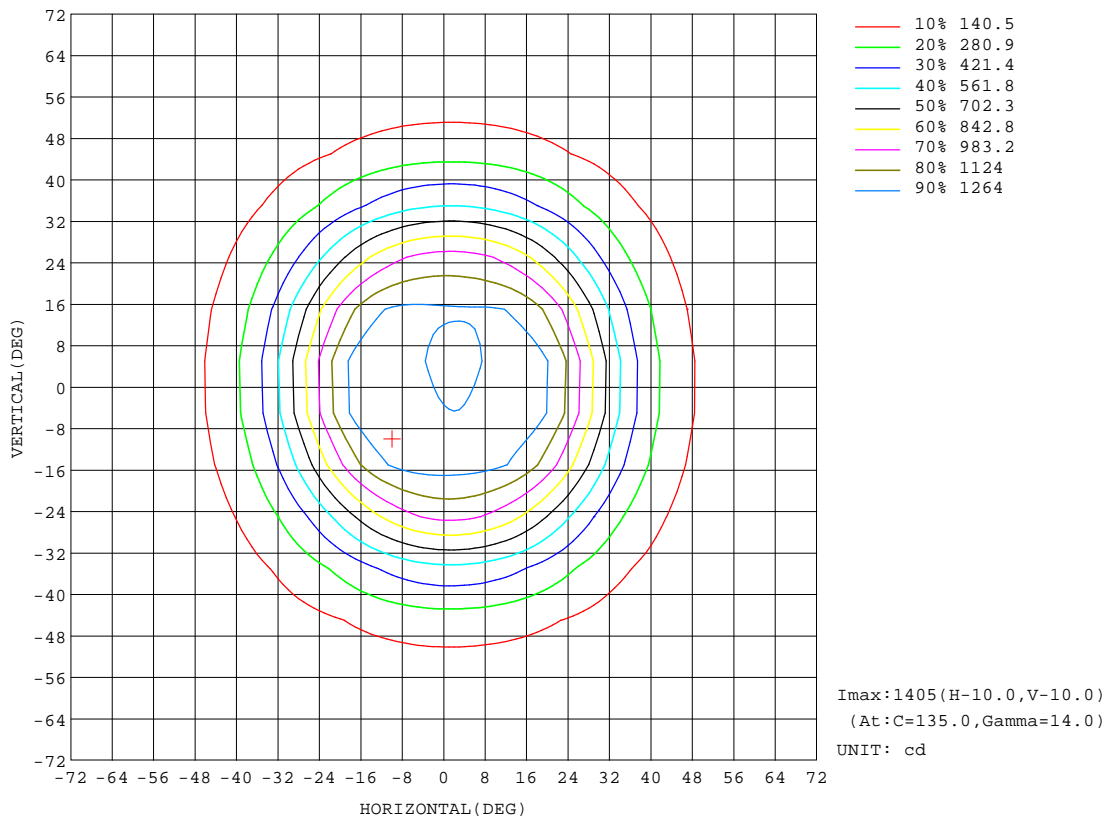
one-half-peak spread: U:18.9,D:40.2 , L:19.0,R:19.5 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:33.1DEG
Operators:QC1
Test Date:2022-10-17

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:55%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.8V I:0.2663A P:36.46W PF:0.6200 Lamp Flux:1521.16x1 lm		
NAME: 8.01.016.0005 60°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2022010023
MFR.: TPK	SUR.:	PROTECTION ANGLE:

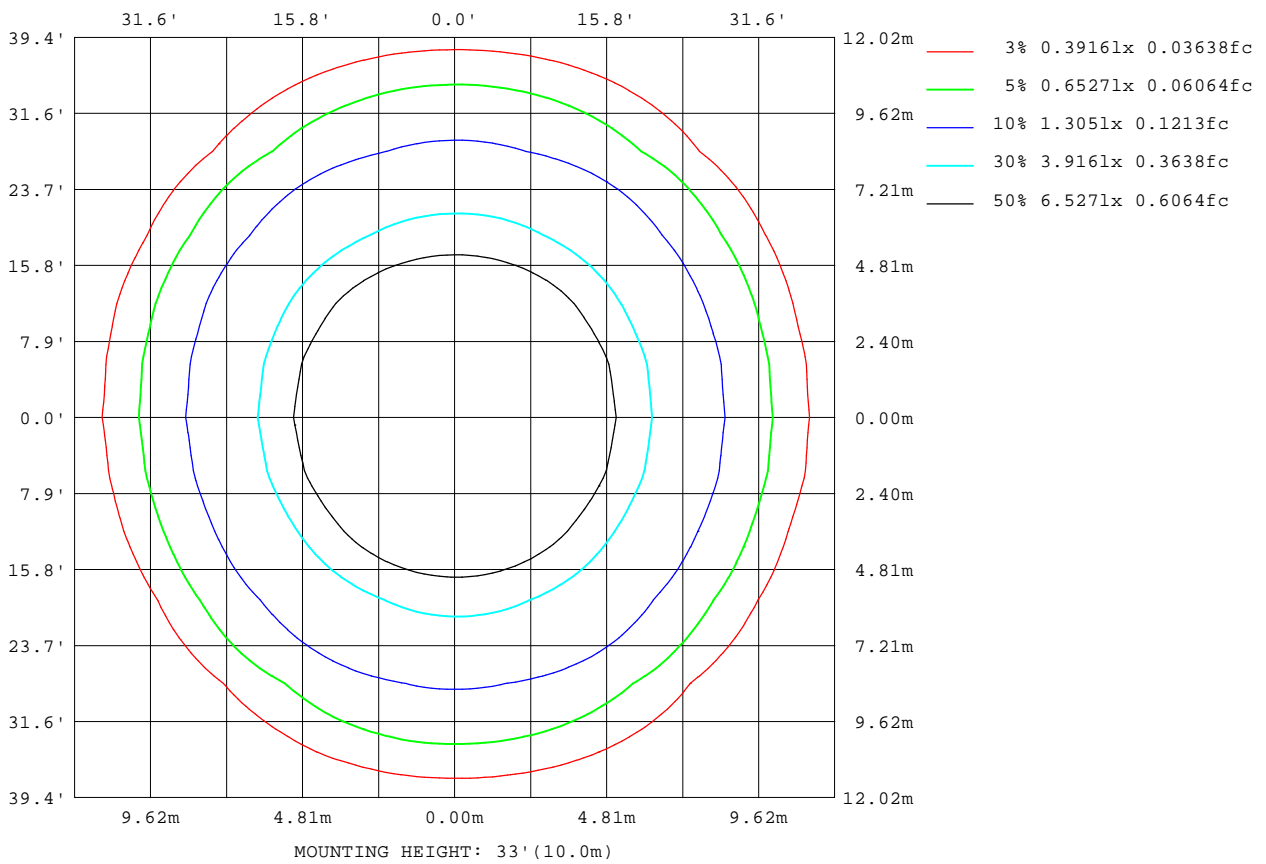


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V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:55%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.8V I:0.2663A P:36.46W PF:0.6200 Lamp Flux:1521.16x1 lm		
NAME: 8.01.016.0005 60°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20220100023
MFR.: TPK	SUR.:	PROTECTION ANGLE:



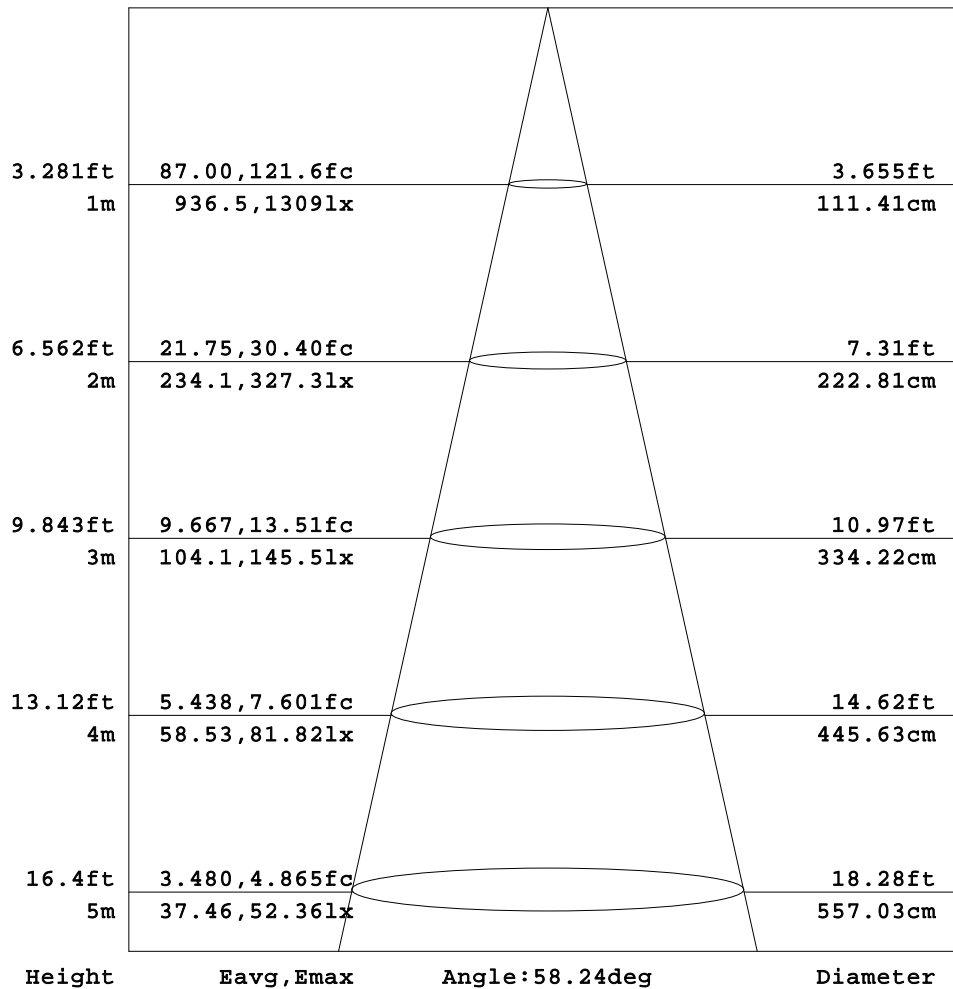
H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:33.1DEG
 Operators:QC1
 Test Date:2022-10-17

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:55%
 Test Distance:8.300m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.8V I:0.2663A P:36.46W PF:0.6200 Lamp Flux:1521.16x1 lm		
NAME: 8.01.016.0005 60°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20220100023
MFR.: TPK	SUR.:	PROTECTION ANGLE:

Flux out:941.8 lm

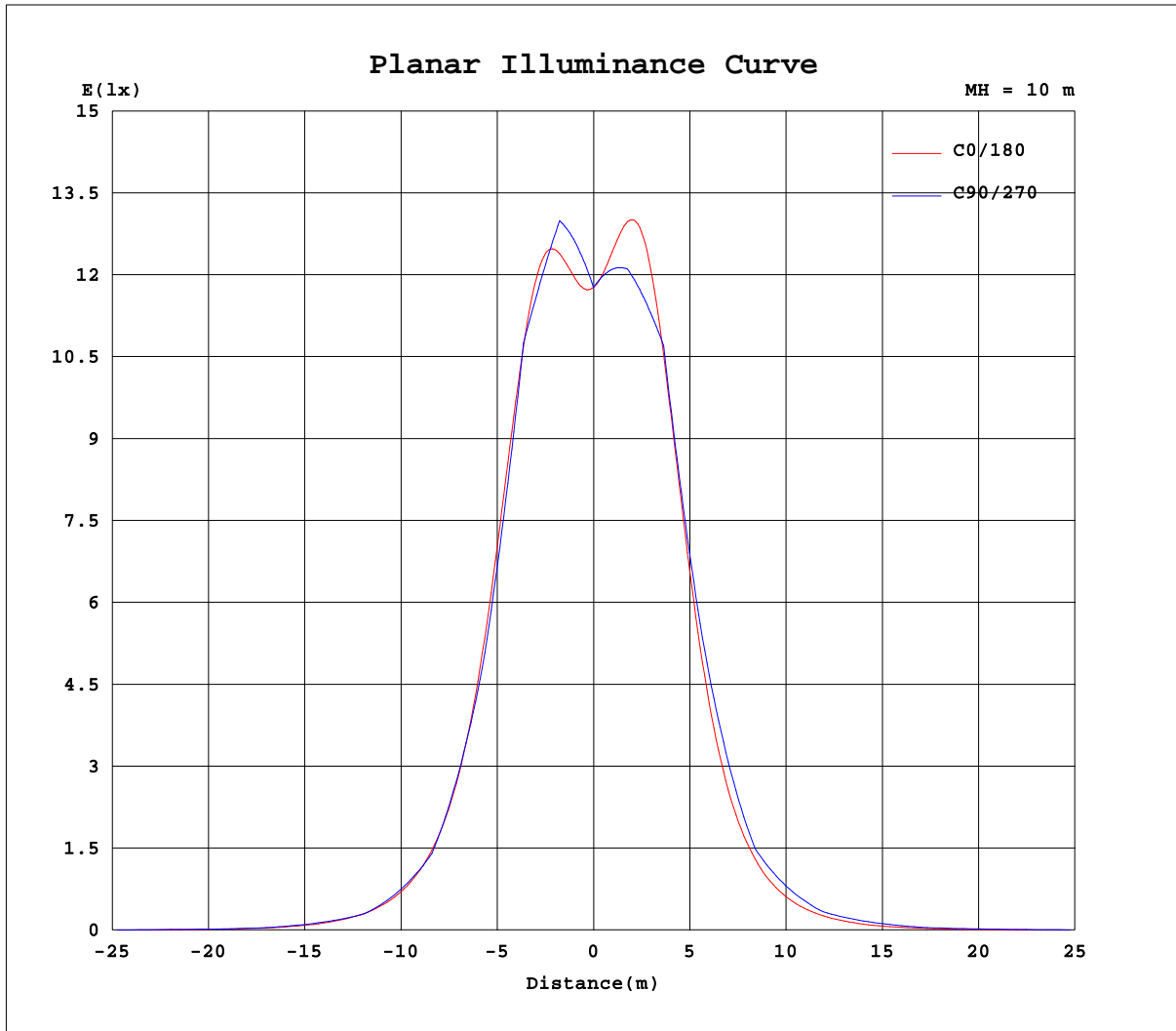


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:33.1DEG
Operators:QC1
Test Date:2022-10-17

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:55%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:33.1DEG
Operators:QC1
Test Date:2022-10-17

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:55%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.2663A P:36.46W PF:0.6200 Lamp Flux:1521.16x1 lm		
NAME: 8.01.016.0005 60°LWW-PZT-W38A-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20220100023
MFR.: TPK	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.73	1.09
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	1.86	2.17
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	3.11	5.21	7.61	9.74	11.3	13.3	15.2	17.1	17.8
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	7.09	11.3	16.2	20.2	23.5	27.3	30.2	32.9	33.5
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	4.31	8.68	15.7	23.5	32.7	41.8	49.2	58.3	64.9	70.7	72.7
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.16	10.0	17.8	27.3	39.2	53.0	66.3	78.5	91.8	102	110	112
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.74	5.86	15.6	27.4	42.2	60.7	84.6	110	136	165	188	206	212
-40	0.00	0.00	0.00	0.00	0.00	0.00	3.18	13.0	25.4	42.4	63.7	91.0	126	164	205	248	282	306	313
-35	0.00	0.00	0.00	0.00	0.00	0.29	5.67	16.9	32.1	54.2	84.7	126	180	243	314	388	455	503	526
-30	0.00	0.00	0.00	0.00	0.00	1.83	12.1	25.9	46.4	76.9	120	181	257	348	452	558	650	715	741
-25	0.00	0.00	0.00	0.00	0.00	2.41	13.2	29.0	53.6	90.7	144	221	326	458	612	765	892	978	1017
-20	0.00	0.00	0.00	0.00	0.00	6.35	19.6	40.2	73.2	123	195	300	443	628	835	1029	1176	1265	1296
-15	0.00	0.00	0.00	0.00	0.00	5.36	18.7	39.9	74.7	129	211	332	504	724	960	1159	1277	1321	1328
-10	0.00	0.00	0.00	0.00	0.01	8.90	24.7	50.9	94.1	163	268	424	645	915	1174	1351	1405	1383	1359
-5	0.00	0.00	0.00	0.00	0.00	7.22	22.3	47.3	89.2	156	260	417	642	921	1187	1358	1385	1324	1271
0	0.00	0.00	0.00	0.00	0.07	10.6	27.8	57.4	106	183	306	489	745	1041	1289	1398	1349	1238	1176
5	0.00	0.00	0.00	0.00	0.00	7.01	22.2	47.7	90.6	159	266	428	657	938	1201	1357	1366	1287	1225
10	0.00	0.00	0.00	0.00	0.00	8.50	24.6	52.1	97.6	171	282	447	678	950	1198	1342	1358	1304	1267
15	0.00	0.00	0.00	0.00	0.00	5.03	18.7	41.2	78.7	138	227	361	546	776	1011	1191	1278	1291	1280
20	0.00	0.00	0.00	0.00	0.00	6.16	20.0	42.5	79.1	135	217	339	501	699	909	1090	1211	1274	1291
25	0.00	0.00	0.00	0.00	0.00	2.20	13.4	30.5	58.1	100	161	250	367	513	674	824	939	1010	1039
30	0.00	0.00	0.00	0.00	0.00	1.73	12.4	27.5	51.2	86.1	135	202	288	390	502	611	703	764	789
35	0.00	0.00	0.00	0.00	0.00	0.20	6.46	18.1	35.1	60.1	94.8	142	200	270	348	424	490	537	559
40	0.00	0.00	0.00	0.00	0.00	0.00	4.63	14.3	27.5	46.3	71.3	103	140	181	225	265	301	324	332
45	0.00	0.00	0.00	0.00	0.00	0.00	1.46	7.04	16.5	29.4	46.3	67.6	92.8	121	151	180	204	222	229
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.12	9.98	18.5	29.3	42.1	57.1	73.3	89.6	104	116	124	127
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	4.26	9.06	16.6	25.2	34.9	45.5	56.3	66.2	74.4	80.2	82.8
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.42	7.15	11.9	16.9	22.0	27.1	31.7	35.3	37.7	38.7
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	3.10	5.48	7.93	10.5	13.1	15.9	18.5	20.2	21.1
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	2.45	3.27	3.59
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	1.11	1.57	1.79
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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DIM.:	SPEC.:	SERIAL No.:20220100023
MFR.: TPK	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	1.01	0.75	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	1.94	1.35	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	17.6	16.5	14.7	12.5	10.4	8.20	5.98	3.85	1.82	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	32.9	31.0	28.1	24.2	19.9	15.5	11.1	6.88	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	72.0	68.5	62.5	54.8	45.9	36.9	28.0	20.0	12.6	6.53	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	110	104	94.2	81.8	68.2	54.6	41.6	30.1	19.6	11.5	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	210	199	180	155	127	98.6	73.5	52.9	35.2	21.5	11.4	3.58	0.00	0.00	0.00	0.00	0.00	0.00
-40	306	287	256	217	175	132	96.5	68.1	44.6	26.9	14.6	5.52	0.00	0.00	0.00	0.00	0.00	0.00
-35	520	487	432	362	287	214	154	107	70.7	43.5	24.5	11.6	2.45	0.00	0.00	0.00	0.00	0.00
-30	724	668	581	477	369	268	190	130	84.5	51.3	28.4	13.4	2.99	0.00	0.00	0.00	0.00	0.00
-25	1004	943	838	697	541	394	273	183	117	71.1	40.0	20.0	7.15	0.00	0.00	0.00	0.00	0.00
-20	1267	1183	1043	856	652	465	316	206	128	76.3	42.0	20.6	7.08	0.00	0.00	0.00	0.00	0.00
-15	1320	1291	1213	1057	840	610	414	268	166	99.3	55.5	27.9	11.3	0.58	0.00	0.00	0.00	0.00
-10	1365	1379	1333	1178	934	669	446	283	173	102	55.8	27.3	10.4	0.06	0.00	0.00	0.00	0.00
-5	1278	1332	1355	1260	1042	766	515	328	201	118	65.7	32.8	13.6	1.31	0.00	0.00	0.00	0.00
0	1211	1307	1360	1272	1043	753	498	313	190	110	59.7	28.9	11.1	0.19	0.00	0.00	0.00	0.00
5	1235	1303	1345	1267	1057	779	523	332	203	119	65.6	32.4	13.2	1.06	0.00	0.00	0.00	0.00
10	1280	1327	1320	1198	964	694	461	291	176	102	55.4	26.5	9.54	0.00	0.00	0.00	0.00	0.00
15	1276	1272	1226	1093	883	644	436	281	173	102	56.2	27.6	10.5	0.33	0.00	0.00	0.00	0.00
20	1271	1210	1094	915	705	503	340	220	136	79.9	43.2	20.4	6.35	0.00	0.00	0.00	0.00	0.00
25	1028	979	886	748	587	429	297	197	125	75.1	41.6	20.2	6.66	0.00	0.00	0.00	0.00	0.00
30	773	718	629	519	404	298	209	141	90.9	54.6	29.7	13.6	2.62	0.00	0.00	0.00	0.00	0.00
35	554	521	464	391	311	235	168	116	76.4	46.7	25.9	11.8	2.30	0.00	0.00	0.00	0.00	0.00
40	326	305	272	231	187	143	105	73.7	48.5	29.3	15.6	5.42	0.00	0.00	0.00	0.00	0.00	0.00
45	227	215	194	168	138	108	80.4	57.1	38.0	23.0	11.7	3.61	0.00	0.00	0.00	0.00	0.00	0.00
50	125	118	107	92.4	76.6	60.5	45.4	32.1	20.9	11.6	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	82.2	78.3	71.6	62.7	52.6	42.1	31.5	22.0	13.6	6.65	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	38.4	36.5	33.3	29.2	24.4	19.3	13.6	8.32	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	21.0	20.0	18.1	15.5	12.7	10.2	7.39	4.68	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	3.46	2.90	1.91	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	1.76	1.52	1.07	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:33.1DEG
Operators:QC1
Test Date:2022-10-17

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:55%
Test Distance:8.300m [K=1.0000]
Remarks: