

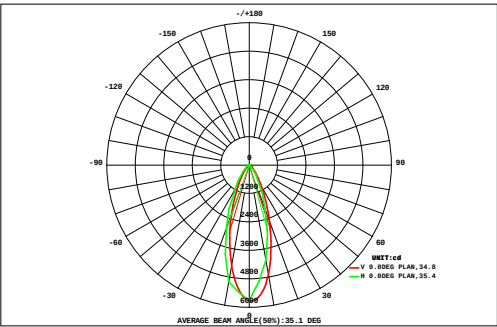
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		2023.6 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	71.1V x 70.6H
	At 50% of Imax	35.4V x 34.8H
	At 90% of Imax	12.3V x 13.1H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	837.3 lumens per klm.
	To 50% of Imax	413.1 lumens per klm.
	To 90% of Imax	58.3 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.4V I:0.6370A P:50.56W PF:0.6593 Freq:49.99Hz Lamp Flux:2828x1 lm		
NAME: SP-PZT-R170-12P-RDM-1	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025080051
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:55.94lm/W	
MODEL:SP-PZT-R170-12P-RDM-1		Imax(cd)	5723
NOMINAL POWER(W)	50	AVAILABILITY(%)	83.9
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	2373
NOMINAL FLUX(lm)	2828	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2828
TEST VOLTAGE(V)	120	θ @50%(H,V)	35,35DEG

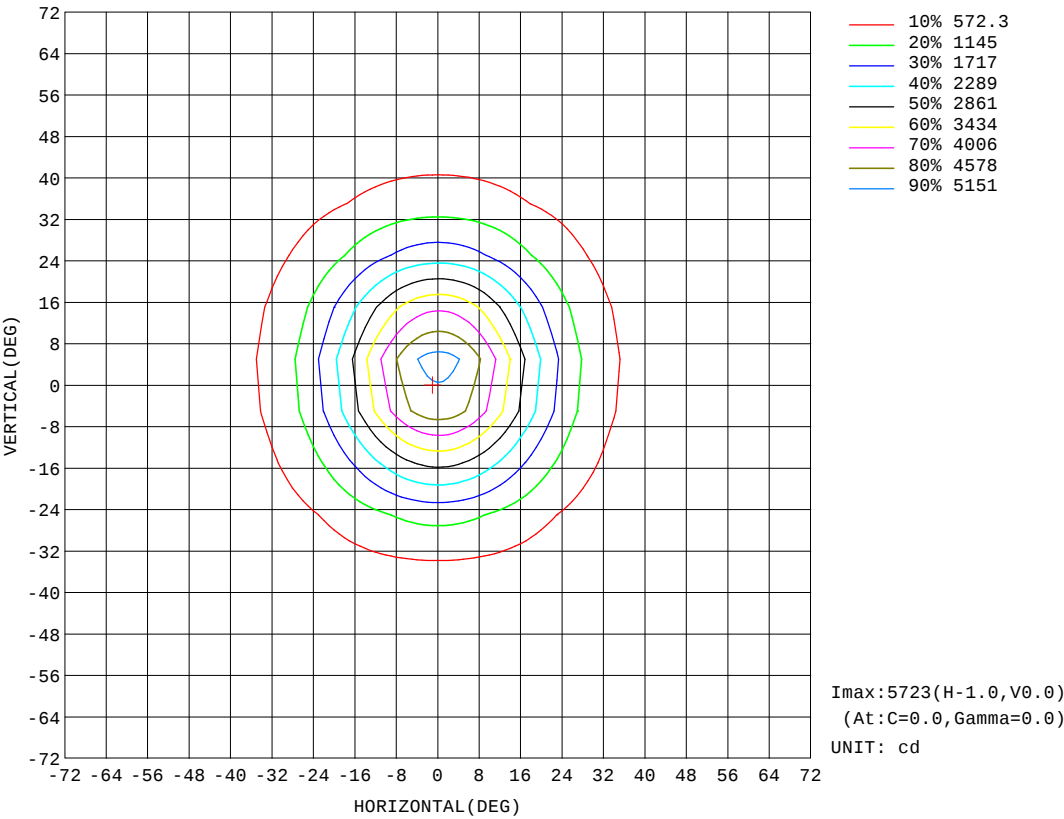
AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a
VERTICAL (DEG)	72	0.00	0.01	0.09	0.30	0.57	0.83	1.07	1.23	1.31	1.29	1.18	0.99	0.73	0.47	0.23	0.04	0.00	0.00	10.4	0.00
	64	0.00	0.11	0.34	0.69	1.08	1.48	1.83	2.08	2.21	2.19	2.03	1.74	1.37	0.97	0.59	0.28	0.05	0.00	19.0	0.00
	56	0.03	0.22	0.57	1.05	1.63	2.26	2.89	3.40	3.69	3.67	3.35	2.80	2.16	1.53	0.97	0.51	0.18	0.01	30.9	0.00
	48	0.06	0.35	0.81	1.46	2.33	3.45	4.78	6.04	6.83	6.81	5.99	4.70	3.36	2.23	1.37	0.74	0.31	0.04	51.7	0.00
	40	0.13	0.49	1.07	1.97	3.39	5.53	8.44	11.5	13.5	13.4	11.2	8.11	5.25	3.12	1.77	0.93	0.40	0.08	90.2	34.1
	32	0.17	0.58	1.28	2.54	4.90	8.95	14.9	21.8	26.7	26.3	21.0	14.1	8.31	4.41	2.27	1.13	0.49	0.12	160	129
	24	0.20	0.65	1.45	3.12	6.77	13.8	25.7	41.3	52.9	52.1	39.4	24.0	12.7	6.19	2.85	1.31	0.57	0.15	285	261
		0.20	0.67	1.53	3.50	8.08	17.8	36.6	62.8	84.1	83.9	61.9	35.8	17.5	7.87	3.35	1.45	0.62	0.17	428	406
		0.20	0.68	1.58	3.71	8.89	20.5	43.5	76.6	104	104	75.6	42.7	20.0	8.57	3.51	1.48	0.62	0.17	516	496
		0.21	0.67	1.58	3.73	9.02	20.9	43.9	76.4	102	98.9	70.8	39.4	18.1	7.69	3.16	1.34	0.55	0.14	498	478
		0.17	0.59	1.35	3.10	7.07	15.7	31.8	53.0	69.3	68.1	50.6	29.5	14.3	6.35	2.71	1.21	0.49	0.12	355	333
	-24	0.12	0.48	1.08	2.23	4.80	9.65	17.7	28.1	36.2	36.4	28.3	17.6	9.50	4.59	2.14	1.00	0.40	0.09	200	173
-32	0.06	0.35	0.83	1.60	3.08	5.67	9.47	13.9	17.1	17.1	13.9	9.35	5.47	2.95	1.55	0.76	0.31	0.05	103	63.0	
-40	0.02	0.21	0.58	1.10	1.87	3.02	4.40	5.66	6.35	6.20	5.37	4.10	2.69	1.69	1.00	0.51	0.17	0.01	44.9	0.00	
-48	0.00	0.08	0.32	0.67	1.10	1.55	2.01	2.34	2.47	2.43	2.17	1.76	1.35	0.93	0.55	0.25	0.04	0.00	20.0	0.00	
-56	0.00	0.00	0.06	0.21	0.42	0.67	0.92	1.11	1.18	1.14	1.02	0.85	0.65	0.44	0.21	0.04	0.01	0.00	8.93	0.00	
-64	0.00	0.00	0.01	0.02	0.06	0.14	0.22	0.29	0.33	0.34	0.31	0.23	0.13	0.07	0.04	0.01	0.00	0.00	2.20	0.00	
-72	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.04	0.05	0.05	0.05	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.29	0.00	
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)					16	24	32	40	48	56	64	72
Φ t	1.56	6.12	14.5	31.0	65.1	132	250	408	530	524	394	238	124	60.1	28.3	13.0	5.22	1.14	2825	---	
Φ a	0.00	0.00	0.00	0.00	15.9	95.6	220	377	501	494	365	208	87.2	10.2	0.00	0.00	0.00	0.00	---	2373	

one-half-peak spread: U:15.8,D:19.9 , L:17.4,R:17.7 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2025-08-06
 V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.6370A P:50.56W PF:0.6593 Freq:49.99Hz Lamp Flux:2828x1 lm		
NAME: SP-PZT-R170-12P-RDM-1	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025080051
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

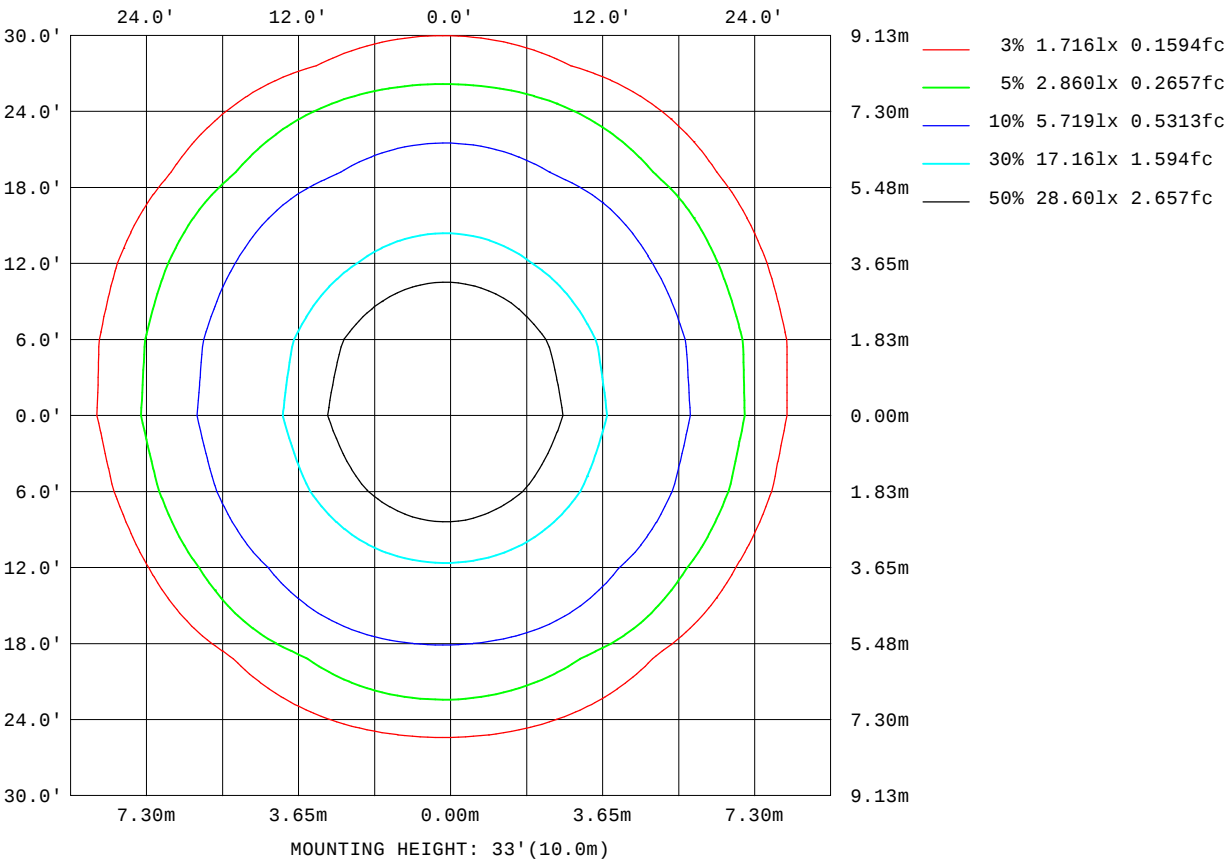


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Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

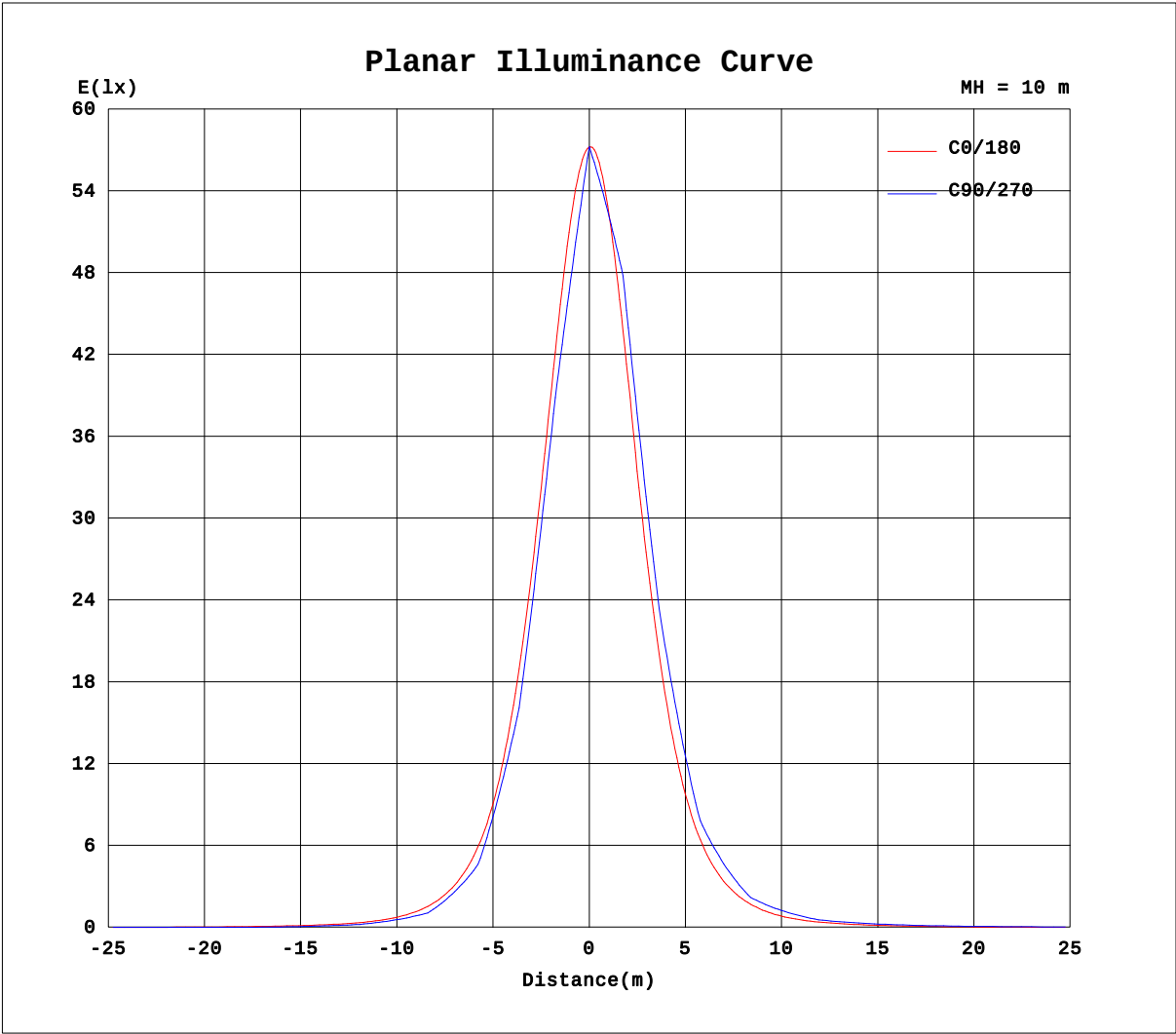
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Test Date:2025-08-06

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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve

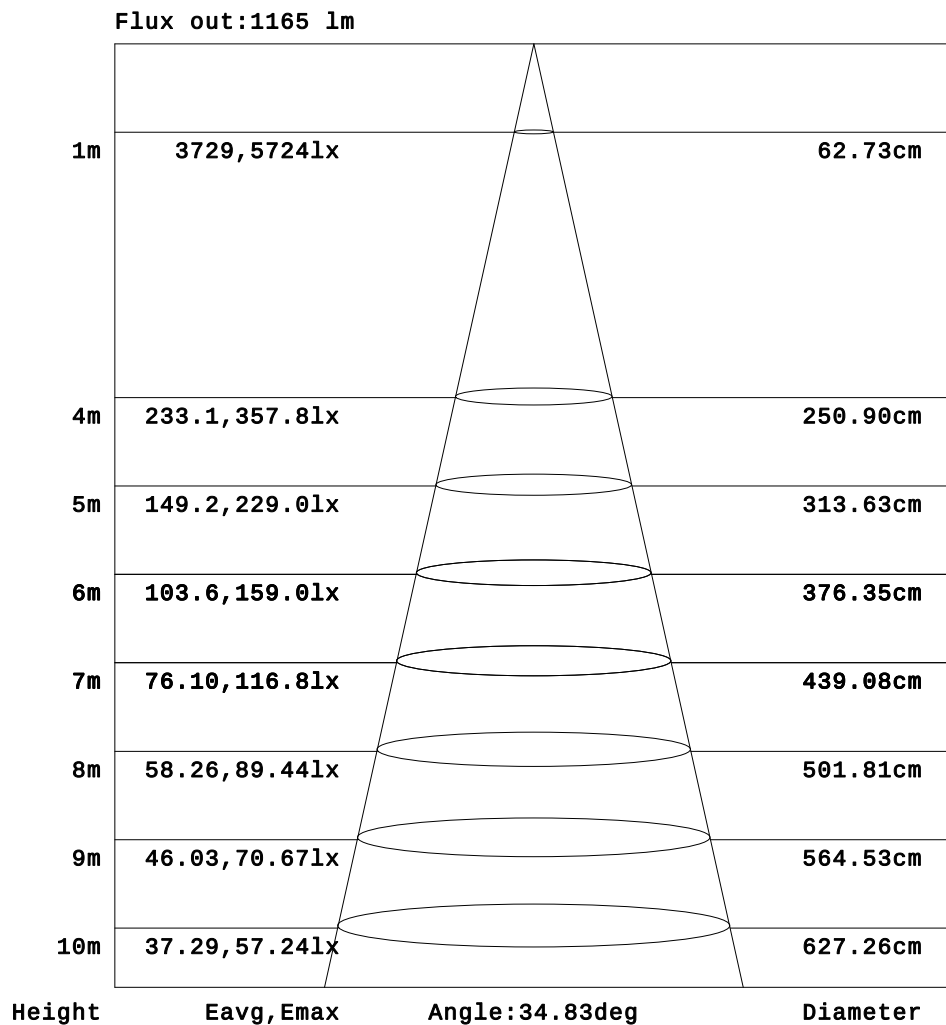


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-08-06

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
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Remarks:

AAI Figure

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NAME: SP-PZT-R170-12P-RDM-1	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025080051
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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:28.0DEG
Operators:QC1
Test Date:2025-08-06

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.6370A P:50.56W PF:0.6593 Freq:49.99Hz Lamp Flux:2828x1 lm																	
NAME: SP-PZT-R170-12P-RDM-1									TYPE:LED						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:2025080051		
MFR.: TPK OPTOELECTRONIC TECH CO., LTD									SUR.:						Shielding Angle:		

Table--1

UNIT: cd

H(°) \ V(°)	-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	0.00	0.00	0.00
-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	0.00	0.00	0.00
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	2.92	4.19	5.38	6.49	7.35	7.92	8.19
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	3.52	6.36	8.87	11.2	13.4	15.0	16.0	16.4
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.96	5.57	9.49	13.9	20.1	26.5	32.7	38.8	44.2	48.2	50.6	50.8
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.29	12.6	20.7	29.7	39.4	49.1	59.0	68.8	76.8	82.8	85.5	85.0
-45	0.00	0.00	0.00	0.00	0.00	0.18	5.70	14.5	25.8	38.3	51.8	66.6	82.5	99.8	118	136	150	159	162
-40	0.00	0.00	0.00	0.00	0.00	1.81	14.0	28.0	43.8	61.1	79.6	99.9	123	148	175	201	221	235	239
-35	0.00	0.00	0.00	0.00	0.00	6.21	21.0	37.6	55.9	76.9	102	137	180	234	296	361	420	461	475
-30	0.00	0.00	0.00	0.00	0.52	15.6	34.3	54.2	76.0	102	137	189	258	344	442	546	638	698	711
-25	0.00	0.00	0.00	0.00	2.68	18.8	38.6	60.2	85.3	119	170	248	358	504	690	903	1112	1267	1327
-20	0.00	0.00	0.00	0.00	9.14	29.6	51.1	75.6	106	152	229	347	509	734	1019	1348	1659	1879	1939
-15	0.00	0.00	0.00	0.00	8.58	29.3	52.0	77.9	112	167	257	396	611	924	1361	1885	2416	2835	3004
-10	0.00	0.00	0.00	0.01	16.1	37.8	62.6	92.2	136	211	331	520	822	1269	1904	2640	3367	3904	4063
-5	0.00	0.00	0.00	0.00	14.0	36.0	61.3	91.4	135	209	333	531	849	1336	2043	2911	3851	4594	4894
0	0.00	0.00	0.00	0.76	20.4	43.8	70.8	105	158	246	400	647	1041	1650	2510	3554	4679	5486	5711
5	0.00	0.00	0.00	0.01	16.2	39.1	65.6	97.9	145	223	358	572	913	1438	2207	3158	4200	5024	5361
10	0.00	0.00	0.00	1.04	20.6	44.5	71.8	106	157	244	386	610	961	1493	2258	3172	4102	4787	4993
15	0.00	0.00	0.00	0.01	15.7	38.3	64.4	95.3	139	208	320	497	763	1157	1717	2400	3115	3678	3908
20	0.00	0.00	0.00	0.71	19.2	42.3	68.1	99.1	143	208	315	473	700	1016	1433	1918	2389	2722	2811
25	0.00	0.00	0.00	0.00	12.6	33.8	57.8	85.1	121	172	248	362	521	737	1017	1343	1668	1915	2010
30	0.00	0.00	0.00	0.01	14.0	34.8	57.5	83.5	116	161	222	307	420	560	725	902	1063	1174	1203
35	0.00	0.00	0.00	0.00	7.31	26.0	46.8	69.5	97.2	131	176	234	310	404	515	632	739	818	848
40	0.00	0.00	0.00	0.00	7.70	25.4	44.6	65.5	90.2	118	151	189	236	290	351	407	454	484	491
45	0.00	0.00	0.00	0.00	2.21	15.7	32.8	50.7	71.5	94.4	120	148	180	216	256	293	324	345	353
50	0.00	0.00	0.00	0.00	0.15	12.7	28.0	43.7	61.7	80.6	99.5	119	139	158	176	192	205	212	214
55	0.00	0.00	0.00	0.00	0.00	4.91	16.9	30.2	44.9	60.9	76.7	92.1	108	122	136	148	157	162	164
60	0.00	0.00	0.00	0.00	0.00	0.68	11.2	22.3	34.3	47.6	60.1	71.8	82.8	92.6	101	107	111	114	114
65	0.00	0.00	0.00	0.00	0.00	0.00	4.49	10.3	19.4	29.6	39.9	49.6	58.6	66.7	73.7	79.1	83.0	85.2	85.7
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	8.39	15.8	23.8	31.2	37.9	43.9	49.1	53.1	55.7	57.1	57.1
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	3.50	7.13	11.1	14.9	18.3	22.1	25.9	28.9	31.1	32.2	32.3
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	1.94	4.07	5.83	6.99	7.47	7.36
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

H(β) Range:-90 - 90DEG
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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	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
-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	0.00	0.00
-65	8.21	7.92	7.01	5.46	3.54	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	16.4	15.6	13.5	10.2	6.24	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	49.7	46.9	42.8	37.4	31.4	25.2	19.6	15.1	10.0	4.79	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	82.0	76.7	70.0	62.4	54.0	46.0	37.4	28.3	18.0	7.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	158	148	133	115	96.4	80.2	64.8	50.4	37.0	24.4	12.9	5.36	0.00	0.00	0.00	0.00	0.00	0.00
-40	232	213	188	159	132	108	86.0	67.1	50.9	36.4	22.6	7.76	0.00	0.00	0.00	0.00	0.00	0.00
-35	460	418	359	293	228	173	131	99.0	73.7	52.9	35.6	19.6	6.34	0.00	0.00	0.00	0.00	0.00
-30	674	600	504	400	300	219	162	120	87.5	62.0	42.0	25.5	9.24	0.00	0.00	0.00	0.00	0.00
-25	1270	1116	906	689	501	352	243	167	117	81.8	55.8	35.2	17.5	2.44	0.00	0.00	0.00	0.00
-20	1817	1553	1220	897	636	436	290	192	131	89.9	60.6	37.5	18.7	1.51	0.00	0.00	0.00	0.00
-15	2851	2448	1919	1388	946	622	401	254	166	112	75.6	48.4	26.5	7.94	0.00	0.00	0.00	0.00
-10	3753	3141	2398	1683	1106	705	443	275	175	117	78.6	49.7	26.5	7.56	0.00	0.00	0.00	0.00
-5	4620	3901	2987	2100	1376	866	539	332	207	134	89.9	58.7	33.4	12.2	0.00	0.00	0.00	0.00
0	5255	4309	3205	2198	1401	872	536	329	203	130	87.4	56.7	31.0	9.66	0.00	0.00	0.00	0.00
5	5064	4259	3232	2262	1479	933	583	360	223	143	95.4	63.4	37.1	14.1	0.00	0.00	0.00	0.00
10	4617	3797	2853	1980	1297	828	522	325	204	133	88.9	58.9	33.2	10.6	0.00	0.00	0.00	0.00
15	3709	3158	2437	1748	1184	778	505	323	207	137	92.1	61.8	36.6	13.5	0.00	0.00	0.00	0.00
20	2627	2228	1734	1264	883	601	402	264	177	120	81.3	54.1	30.3	8.38	0.00	0.00	0.00	0.00
25	1923	1681	1356	1027	745	525	362	246	170	118	81.6	54.9	32.1	10.5	0.00	0.00	0.00	0.00
30	1144	1013	843	668	509	376	268	191	139	100	69.7	46.2	25.0	4.88	0.00	0.00	0.00	0.00
35	821	744	637	519	408	312	232	171	128	94.2	66.1	44.1	24.2	5.16	0.00	0.00	0.00	0.00
40	474	436	384	325	267	214	169	131	102	76.0	52.9	33.7	15.7	0.15	0.00	0.00	0.00	0.00
45	345	323	291	254	215	177	144	115	90.2	68.0	47.6	30.1	13.7	0.89	0.00	0.00	0.00	0.00
50	209	199	184	167	147	127	107	87.7	69.6	51.5	35.1	19.6	5.15	0.00	0.00	0.00	0.00	0.00
55	162	155	146	133	119	104	88.0	72.2	57.1	41.9	27.6	14.4	4.07	0.00	0.00	0.00	0.00	0.00
60	112	108	102	94.4	85.2	74.4	62.6	50.5	38.5	26.4	14.8	4.05	0.00	0.00	0.00	0.00	0.00	0.00
65	84.5	81.4	76.9	71.0	63.6	55.0	45.7	36.2	26.6	16.8	8.56	3.09	0.00	0.00	0.00	0.00	0.00	0.00
70	55.8	53.2	49.6	44.8	38.8	31.9	24.9	18.0	10.8	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	31.5	29.8	27.2	23.9	20.0	16.7	13.2	9.68	6.12	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	6.68	5.48	3.63	1.41	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:28.0DEG
Operators:QC1
Test Date:2025-08-06

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: