

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P285770

Luminaire Tested: **PRV-XL-C75-D-UNV-T2-BZ-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 2/13/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-C75-D-UNV-T2-BZ-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24181 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

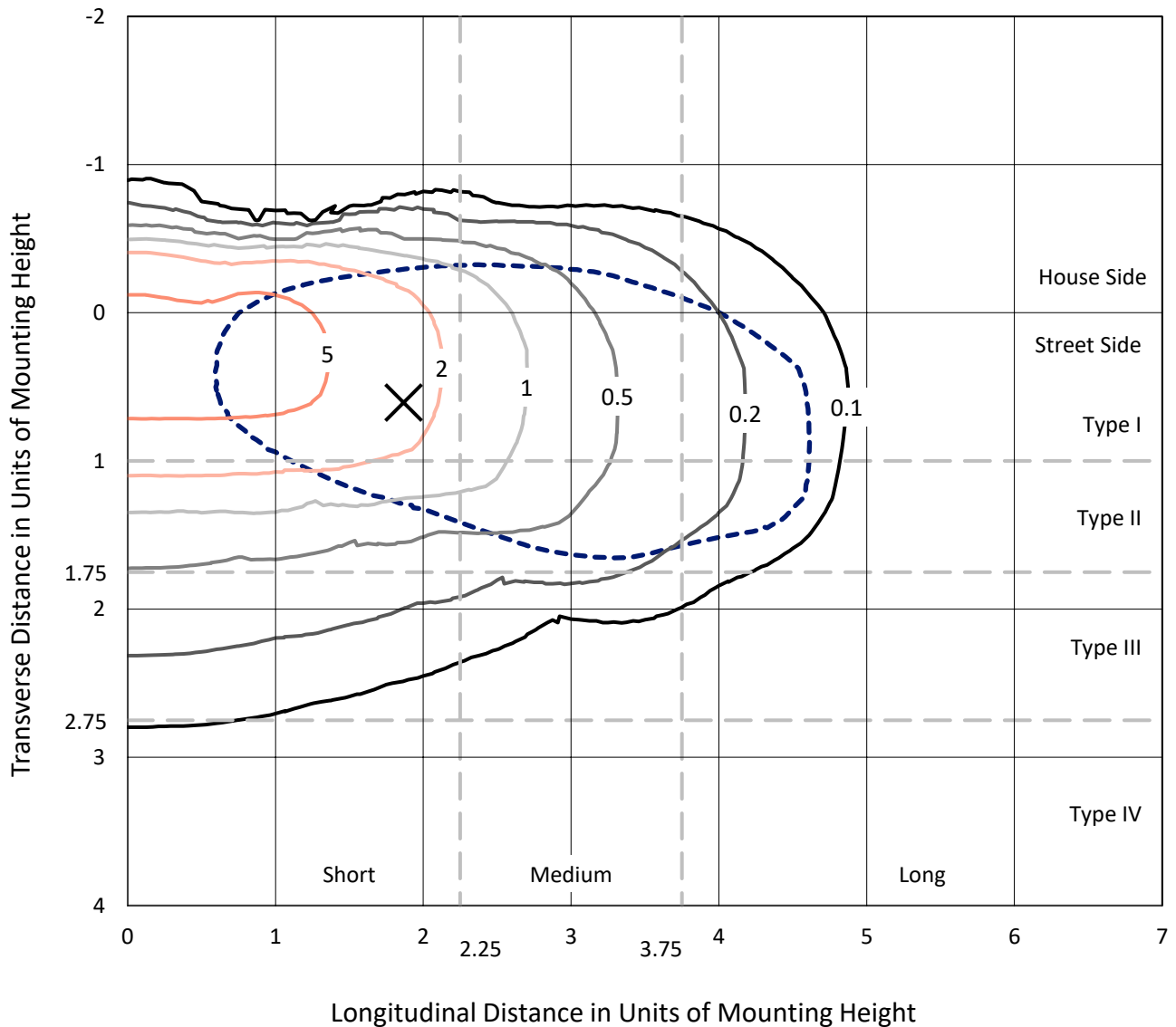
Input Watts (W): 176  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P285770  
 CATALOG NUMBER: PRV-XL-C75-D-UNV-T2-BZ-HSS

### Iso-Footcandle Lines of Horizontal Illumination

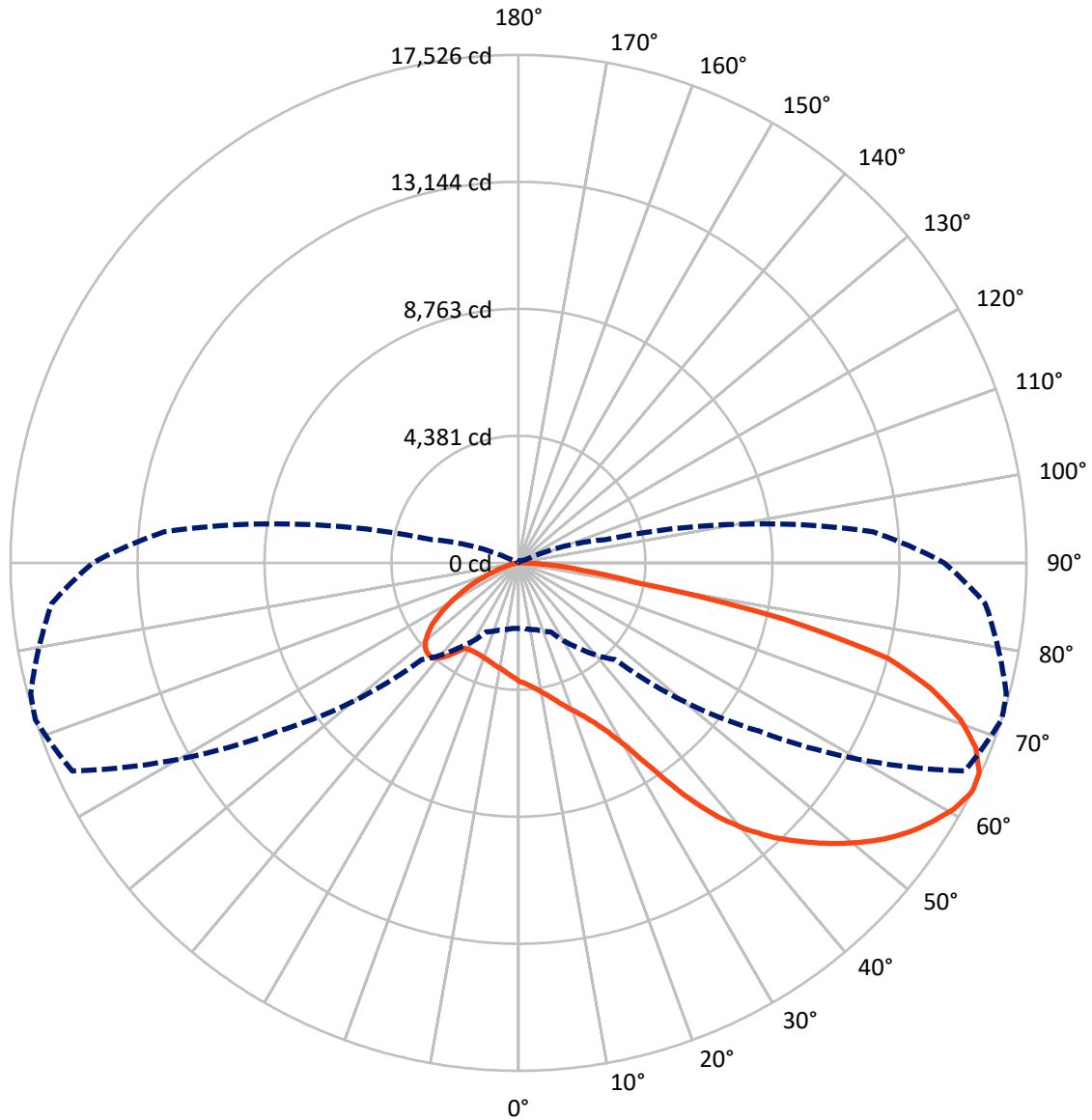
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P285770  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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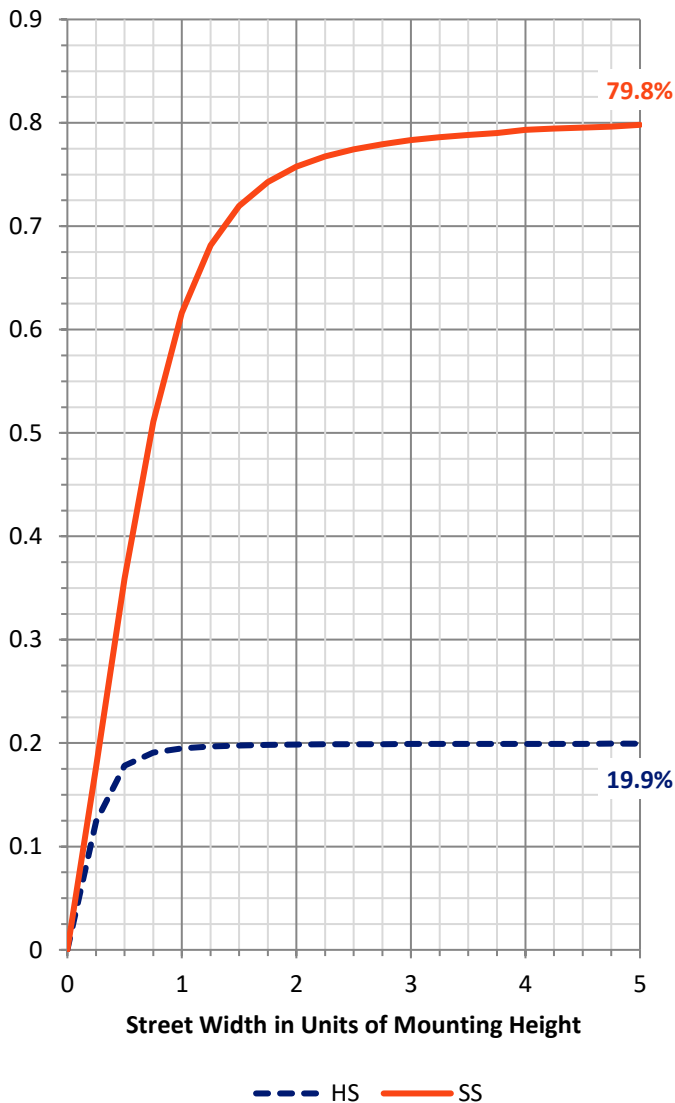
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4878.4	0.0	4878.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	19302.6	0.0	19302.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	24181.0	0.0	24181.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.8	1.6
10°-20°	1185.0	4.9
20°-30°	1999.5	8.3
30°-40°	3060.2	12.7
40°-50°	4263.2	17.6
50°-60°	4941.1	20.4
60°-70°	4844.1	20.0
70°-80°	3024.3	12.5
80°-90°	472.7	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24181.0	100.0
0°-180°	24181.0	100.0



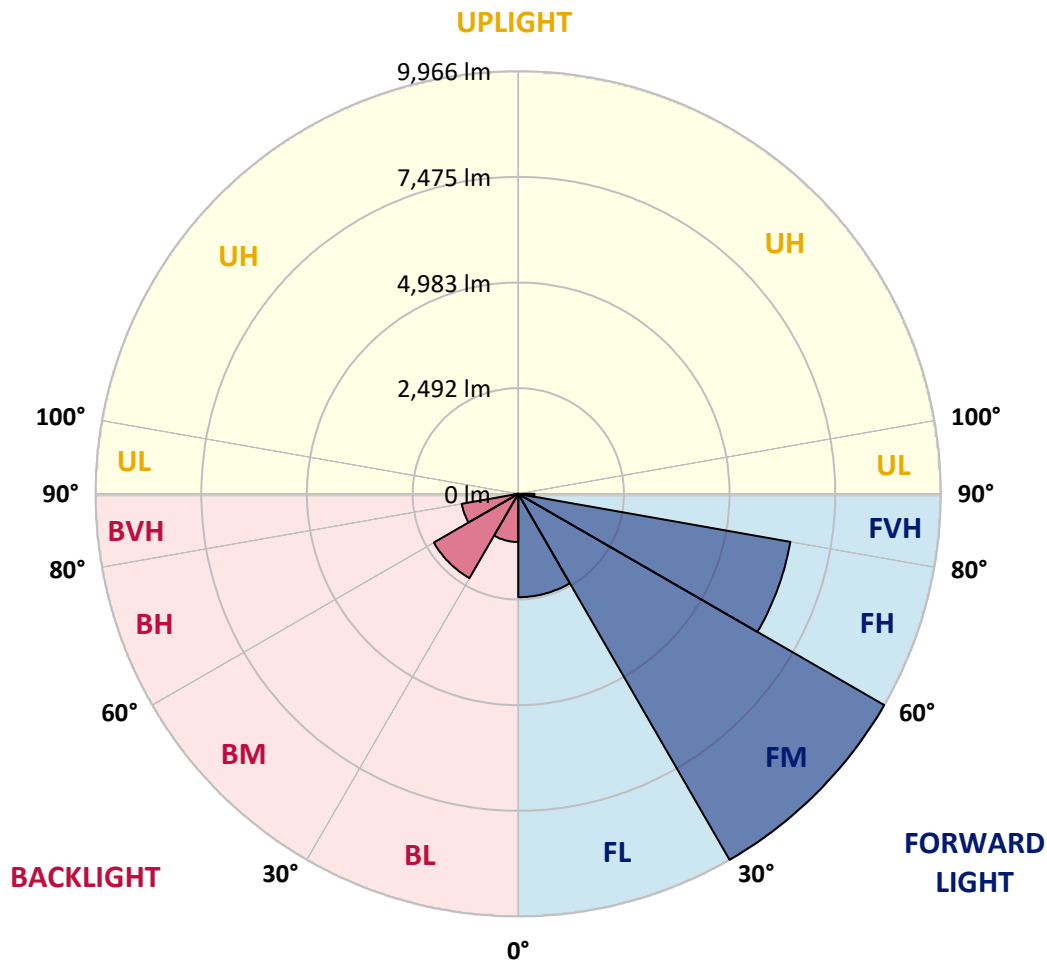
REPORT NUMBER: P285770  
 CATALOG NUMBER: PRV-XL-C75-D-UNV-T2-BZ-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2438.1	10.1			
FM (30°-60°)	9966.3	41.2			
FH (60°-80°)	6516.0	26.9			G3/7500
FVH (80°-90°)	382.1	1.6			G3/500
BL (0°-30°)	1137.3	4.7	B3/2500		
BM (30°-60°)	2298.2	9.5	B2/2500		
BH (60°-80°)	1352.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	90.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P285770

CATALOG NUMBER: PRV-XL-C75-D-UNV-T2-BZ-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4093	4093	4093	4093	4093	4093	4093	4093	4093	4093	4093
2.5°	4447	4435	4422	4406	4393	4353	4317	4248	4163	4159	4090
5°	4750	4731	4716	4688	4657	4586	4503	4387	4266	4247	4125
7.5°	5003	4983	4966	4930	4895	4808	4701	4545	4395	4357	4174
10°	5224	5204	5196	5157	5132	5037	4904	4735	4547	4489	4248
12.5°	5457	5436	5422	5381	5351	5250	5132	4943	4730	4668	4354
15°	5687	5668	5636	5614	5579	5474	5363	5166	4954	4876	4496
17.5°	5899	5883	5859	5840	5811	5702	5581	5414	5197	5101	4659
20°	6055	6056	6046	6036	6046	5957	5859	5673	5450	5338	4828
22.5°	6189	6197	6210	6225	6289	6245	6127	5976	5737	5605	5045
25°	6255	6261	6319	6417	6561	6560	6450	6341	6114	5977	5347
27.5°	6294	6302	6383	6580	6834	6873	6828	6780	6622	6485	5746
30°	6292	6303	6428	6675	7049	7247	7251	7428	7353	7259	6419
32.5°	6142	6146	6320	6684	7211	7579	7744	8208	8440	8457	7662
35°	5786	5837	6097	6603	7328	7904	8331	9205	9821	9850	8910
37.5°	5530	5561	5857	6458	7382	8243	9005	10402	11076	11005	9943
40°	5250	5288	5592	6264	7348	8534	9692	11551	12091	11980	10823
42.5°	4940	4972	5258	5977	7240	8744	10355	12544	12959	12823	11623
45°	4635	4656	4927	5590	7032	8872	10960	13438	13729	13614	12360
47.5°	4248	4273	4605	5221	6651	8868	11484	14233	14476	14348	13017
50°	3276	3292	4025	4886	6159	8692	11933	14953	15182	15036	13667
52.5°	2968	2981	3208	4469	5622	8327	12228	15617	15824	15668	14280
55°	2821	2830	2940	3637	5151	7701	12358	16232	16389	16187	14778
57.5°	2613	2631	2797	3115	4690	6740	12172	16729	16847	16649	15263
60°	2455	2466	2606	2858	4133	5665	11508	17065	17257	17078	15719
62.5°	2301	2305	2422	2667	3649	4862	10375	17044	17509	17398	16117
63°	2268	2272	2391	2632	3578	4729	10127	16993	17526	17425	16170
65°	2128	2134	2250	2472	3270	4308	9029	16679	17469	17466	16241
67.5°	1919	1930	2029	2219	2850	3776	7336	16344	17011	17047	15844
70°	1666	1674	1786	1946	2398	3206	5618	15273	16169	16069	14924
72.5°	1398	1412	1519	1643	1989	2645	4068	13446	14905	14979	13381
75°	1220	1228	1320	1408	1652	2105	2721	9655	13179	13198	11543
77.5°	1012	1022	1117	1200	1340	1585	1877	5018	9371	9903	8963
80°	558	648	805	866	970	963	1194	2652	4147	5185	5920
82.5°	94	121	325	424	462	406	580	1460	2312	2653	3186
85°	40	58	170	186	116	113	229	764	1323	1524	1642
87.5°	5	9	44	58	27	37	46	239	461	530	599
90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P285770

CATALOG NUMBER: PRV-XL-C75-D-UNV-T2-BZ-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4093	4093	4093	4093	4093	4093	4093	4093	4093	4093	4093
2.5°	4057	4034	3981	3940	3910	3869	3825	3793	3759	3744	3750
5°	4063	4012	3899	3810	3711	3638	3543	3495	3443	3417	3416
7.5°	4079	3999	3821	3681	3540	3426	3302	3217	3171	3137	3133
10°	4119	4005	3762	3572	3390	3237	3086	2976	2913	2878	2883
12.5°	4191	4027	3720	3483	3249	3067	2874	2745	2668	2625	2637
15°	4290	4075	3677	3373	3098	2884	2678	2532	2446	2409	2421
17.5°	4401	4145	3647	3250	2939	2697	2506	2363	2219	2190	2190
20°	4525	4223	3642	3133	2782	2519	2299	2179	1970	1899	1884
22.5°	4689	4333	3636	3026	2615	2335	2065	1876	1605	1483	1471
25°	4915	4485	3646	2938	2463	2128	1743	1440	1212	1059	1051
27.5°	5218	4688	3678	2856	2311	1873	1350	1027	851	714	673
30°	5791	5009	3734	2783	2134	1531	960	695	569	474	453
32.5°	6886	5815	3811	2702	1916	1128	641	464	362	307	319
35°	7978	6820	4178	2583	1629	751	428	296	228	226	239
37.5°	8962	7709	4674	2450	1245	505	257	197	191	208	234
40°	9778	8431	5093	2264	855	309	168	179	170	177	174
42.5°	10536	9081	5433	2053	504	178	146	166	153	147	135
45°	11218	9694	5604	1721	294	142	133	157	148	137	119
47.5°	11839	10232	5716	1267	169	124	124	141	139	126	116
50°	12483	10758	5705	778	143	114	118	118	125	98	89
52.5°	13052	11231	5477	441	132	108	107	96	102	76	71
55°	13514	11599	5094	291	125	107	94	83	78	55	57
57.5°	13968	11949	4508	230	130	103	86	71	61	43	41
60°	14406	12228	3887	207	137	103	71	60	41	33	29
62.5°	14671	12289	3200	187	141	96	64	49	30	22	20
63°	14690	12271	3078	184	142	96	64	47	29	20	18
65°	14661	12044	2602	174	145	92	61	38	23	14	12
67.5°	14176	11285	1929	163	139	91	56	31	18	9	7
70°	12989	10107	1289	145	134	89	66	26	15	5	4
72.5°	11331	8836	863	119	117	73	40	22	11	2	0
75°	9577	7111	534	91	95	62	32	19	9	0	0
77.5°	7455	5253	380	58	67	53	27	16	7	0	0
80°	5086	3560	275	32	35	35	22	12	4	0	0
82.5°	2950	1995	140	16	15	18	10	6	1	0	0
85°	1439	884	24	9	8	8	4	0	0	0	0
87.5°	488	229	3	4	3	1	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)