

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: McGRAW-EDISON

Report Number: 767567

Luminaire Tested: **TRD-175-MH-XX-2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 767567
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TRD-175-MH-XX-2F
Description: Architectural Decorative Post Top - TYPE II DISTRIBUTION
Light Source: 175W MH CL ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 8612.4 lumens
Efficiency: 61.5%
Efficacy: 49.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B3 - U3 - G3

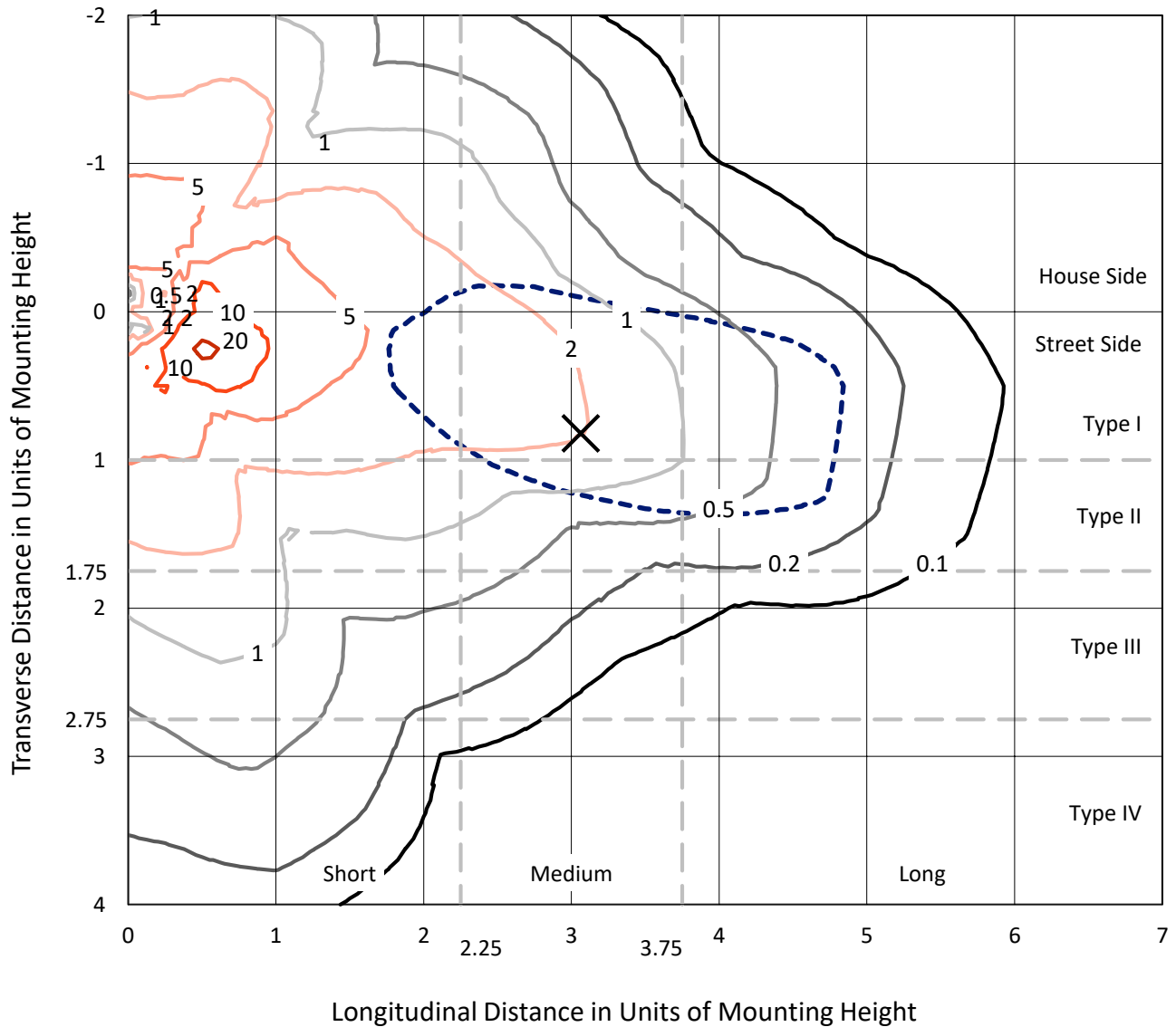
Input Watts (W): 175
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

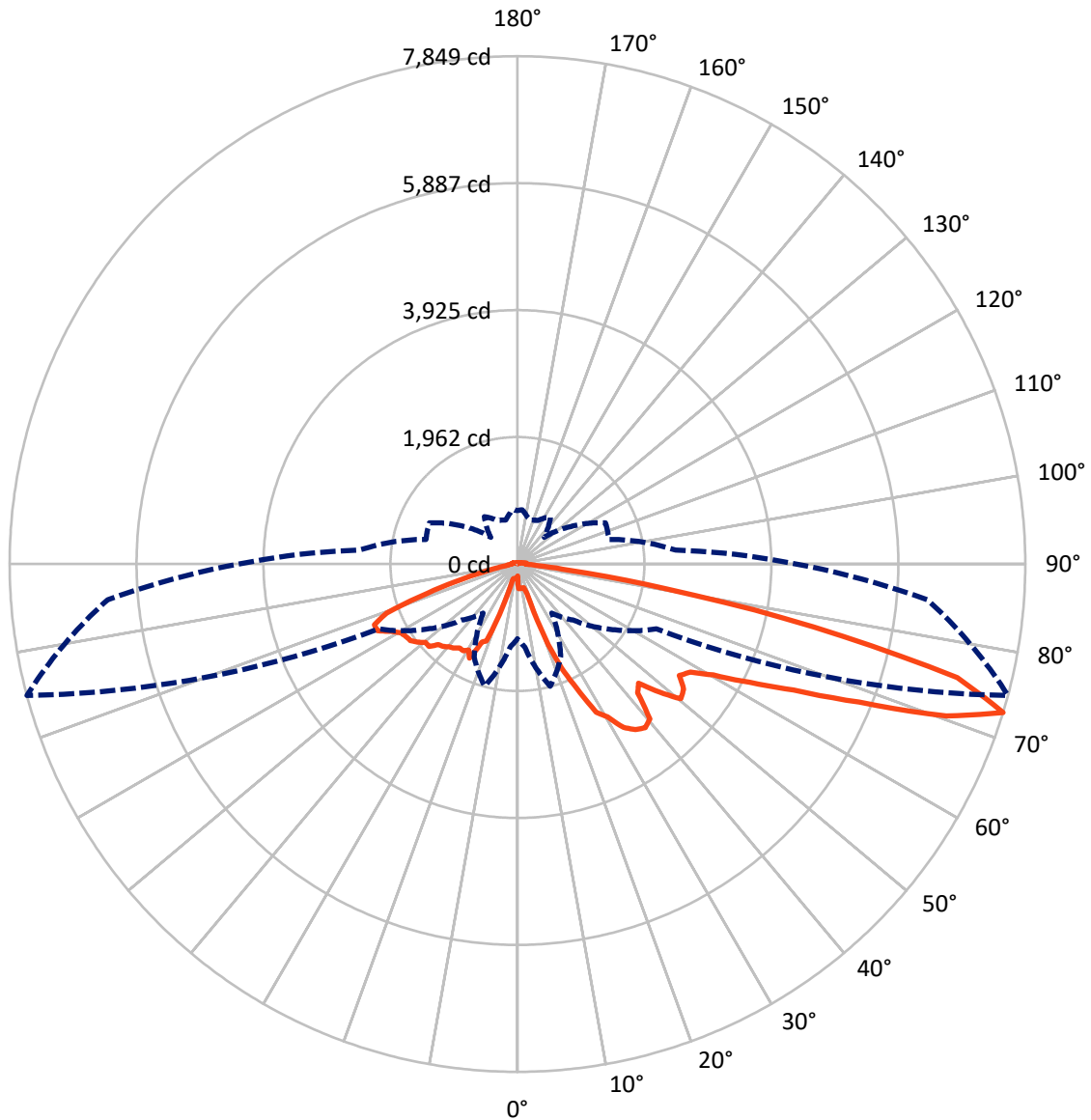
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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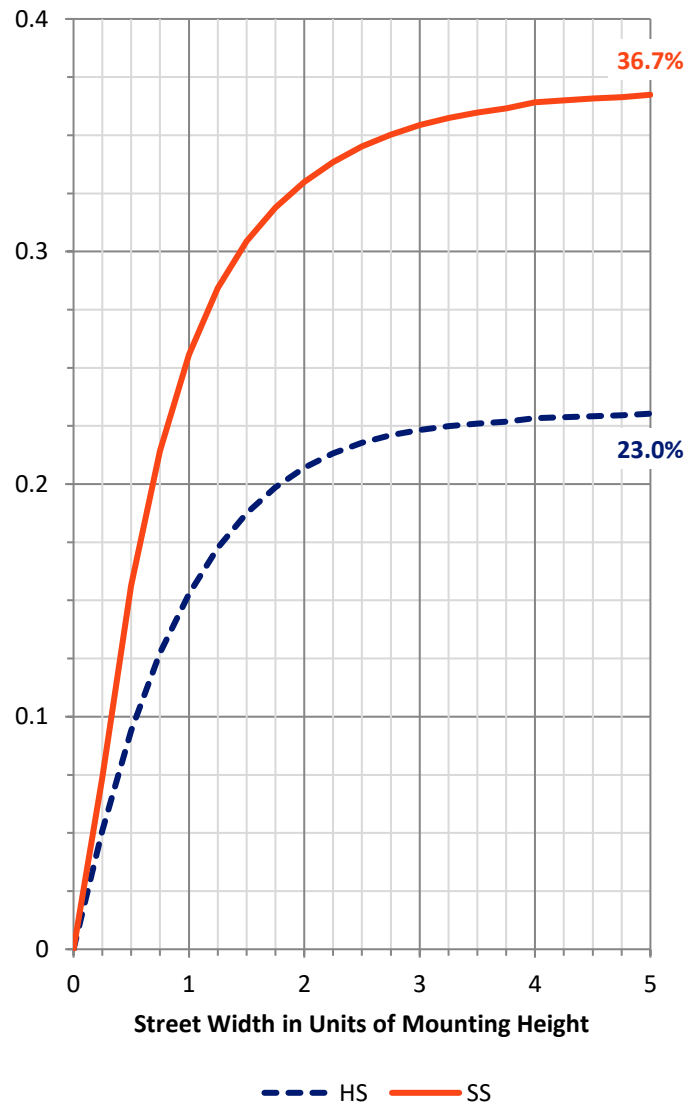
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3246.7	94.8	3341.5
	% Lamp	23.2	0.7	23.9
Street Side	Lumens	5159.6	111.3	5270.9
	% Lamp	36.9	0.8	37.6
Total	Lumens	8406.3	206.1	8612.4
	% Lamp	60.0	1.5	61.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	17.4	0.2	0.1
10°-20°	139.6	1.6	1.0
20°-30°	659.5	7.7	4.7
30°-40°	1048.4	12.2	7.5
40°-50°	1258.0	14.6	9.0
50°-60°	1523.7	17.7	10.9
60°-70°	2031.5	23.6	14.5
70°-80°	1520.5	17.7	10.9
80°-90°	207.7	2.4	1.5
90°-100°	76.6	0.9	0.5
100°-110°	56.2	0.7	0.4
110°-120°	35.2	0.4	0.3
120°-130°	18.7	0.2	0.1
130°-140°	11.2	0.1	0.1
140°-150°	6.3	0.1	0.0
150°-160°	2.5	0.0	0.0
160°-170°	0.8	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-90°	8406.3	97.6	60.0
0°-180°	8612.4	100.0	61.5



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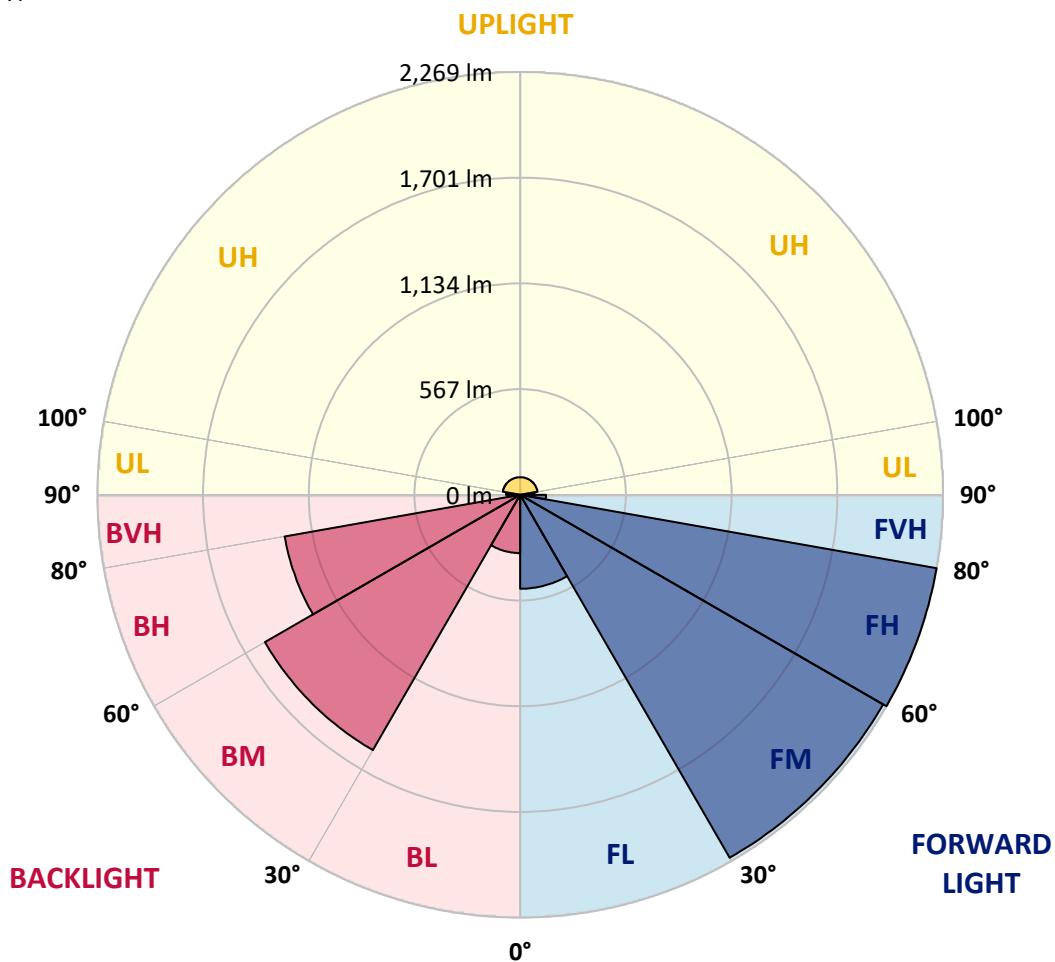
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.9	3.6			
FM	(30°-60°)	2248.8	16.1			
FH	(60°-80°)	2268.6	16.2			G2/5000
FVH	(80°-90°)	138.3	1.0			G2/225
BL	(0°-30°)	312.6	2.2	B1/500		
BM	(30°-60°)	1581.3	11.3	B2/2500		
BH	(60°-80°)	1283.4	9.2	B3/2500		G3/2500
BVH	(80°-90°)	69.4	0.5			G1/100
UL	(90°-100°)	76.6	0.5		U3/500	
UH	(100°-180°)	94.8	0.7		U3/500	
Trapped Light		5387.6	38.5			

BUG Rating: B3-U3-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	184	184	184	184	184	184	184	184	184	184	184
2.5°	52	52	66	66	59	72	623	486	381	302	276
5°	52	52	66	66	59	72	532	486	381	302	276
7.5°	52	52	118	66	59	72	486	486	381	302	276
10°	52	59	236	66	59	72	453	459	381	295	276
12.5°	223	276	433	190	85	190	479	453	381	282	276
15°	486	525	643	669	597	696	623	486	381	302	276
17.5°	722	748	866	1011	1070	1076	886	669	479	400	348
20°	932	945	1102	1214	1194	1332	1267	1168	1234	978	833
22.5°	1142	1194	1280	1345	1352	1555	2067	1851	1746	1516	1326
25°	1102	1188	1444	1437	1260	1962	2428	2303	2120	1713	1483
27.5°	1037	1129	1385	1614	1260	1982	2776	2914	2592	2034	1680
30°	1260	1326	1411	1680	1102	1844	3130	3596	2743	2087	1759
32.5°	1247	1280	1424	1732	932	1857	3261	3675	3012	2139	1785
35°	1312	1286	1404	1647	925	1673	3327	3583	3143	2271	1831
37.5°	1286	1286	1431	1575	899	1568	3078	3603	3209	2349	1883
40°	1326	1293	1516	1667	1030	1391	2815	3137	3150	2218	1831
42.5°	1352	1339	1417	1837	1306	1326	2376	2697	2723	2244	1929
45°	1483	1398	1417	1706	1188	1234	2179	2540	2625	2526	2172
47.5°	1378	1372	1417	1693	919	1201	2277	2625	2960	2802	2441
50°	1286	1332	1411	1641	820	1332	2126	2526	3275	2986	2605
52.5°	1273	1352	1404	1582	787	1214	1923	2546	3216	3058	2710
55°	1260	1326	1411	1575	768	1181	1890	2349	3038	3183	2756
57.5°	1247	1352	1457	1595	794	1207	1811	2238	3150	3452	2907
60°	1247	1391	1549	1595	820	1214	1857	2408	3478	3708	3216
62.5°	1181	1378	1575	1621	847	1240	1929	2566	4029	4279	3504
65°	1194	1372	1693	1752	892	1234	2041	2756	4692	5329	4160
67.5°	1194	1385	1857	1870	984	1306	2172	2887	5696	6247	4928
70°	1142	1352	1916	1831	997	1431	2061	2894	7028	6799	4974
72.5°	1155	1286	1956	1582	925	1227	1759	2369	7849	6359	4298
75°	906	991	1503	1175	486	801	945	1490	7022	5539	3655
77.5°	446	472	722	499	341	276	518	1070	4679	4489	3058
80°	236	243	322	308	322	171	302	696	2316	2513	1811
82.5°	131	144	203	177	59	92	171	367	787	860	571
85°	118	118	144	144	52	79	131	197	328	387	184
87.5°	79	85	92	112	46	52	85	125	177	190	72
90°	79	85	92	105	39	52	85	105	125	125	52
95°	66	72	85	79	26	39	59	98	138	144	66
105°	66	59	66	59	46	33	46	66	59	66	33
115°	52	52	52	39	13	20	26	39	52	52	26
125°	26	26	26	20	7	0	7	20	26	26	13
135°	26	20	26	26	7	13	13	13	20	26	7
145°	13	13	13	13	7	7	13	13	13	13	7
155°	0	7	7	0	0	0	0	0	0	13	0
165°	13	7	7	7	7	0	7	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	184	184	184	184	184	184	184	184	184	184
2.5°	262	230	118	85	256	131	138	26	26	26
5°	262	230	125	79	256	131	138	26	26	26
7.5°	262	230	144	79	256	131	79	26	26	26
10°	262	230	164	85	256	131	26	26	26	26
12.5°	262	230	177	118	256	131	39	26	26	26
15°	262	230	203	210	256	131	249	276	289	315
17.5°	322	262	243	276	282	269	643	827	952	984
20°	925	827	295	315	394	833	1102	1057	1096	1129
22.5°	1299	1280	1227	381	532	1260	1135	1247	1267	1312
25°	1549	1326	1260	387	453	1306	1352	1312	1286	1247
27.5°	1673	1634	1470	400	433	1332	1267	1299	1260	1234
30°	1667	1529	1601	466	466	1267	1267	1306	1267	1234
32.5°	1752	1582	1470	518	466	1227	1312	1312	1273	1260
35°	1778	1575	1529	571	545	1253	1312	1286	1306	1312
37.5°	1818	1627	1483	597	558	1267	1319	1273	1352	1326
40°	1785	1660	1522	571	564	1234	1372	1273	1273	1260
42.5°	1844	1713	1700	656	571	1293	1365	1273	1293	1260
45°	1916	1746	1844	682	564	1299	1385	1267	1253	1194
47.5°	2067	1870	1903	715	584	1267	1424	1227	1201	1142
50°	2271	1864	1837	840	604	1312	1582	1188	1148	1142
52.5°	2435	1962	1798	912	630	1431	1824	1181	1096	1129
55°	2520	2034	1811	978	656	1503	1693	1155	1076	1142
57.5°	2671	2054	1811	1057	676	1542	1654	1207	1076	1142
60°	2848	2093	1851	1116	722	1549	1608	1260	1096	1116
62.5°	3051	2218	1942	1234	768	1516	1575	1260	1129	1102
65°	3380	2395	2074	1312	814	1522	1503	1227	1162	1102
67.5°	3537	2402	2172	1411	853	1509	1332	1227	1181	1076
70°	3288	2159	1962	1286	742	1267	1129	1030	1070	1037
72.5°	2454	1463	1503	1011	584	892	742	702	840	827
75°	1864	906	827	505	289	433	518	499	564	591
77.5°	1417	505	486	354	203	236	315	348	367	367
80°	899	302	256	151	112	66	184	197	223	210
82.5°	400	184	171	98	72	46	131	59	131	131
85°	203	144	131	85	66	39	118	52	105	92
87.5°	131	112	98	72	52	26	92	39	79	66
90°	105	98	98	72	52	33	92	46	79	66
95°	85	79	79	59	33	26	72	39	66	52
105°	66	66	59	46	26	52	66	33	59	52
115°	52	52	39	33	13	33	39	20	46	52
125°	20	26	13	7	0	13	13	7	26	26
135°	26	13	13	13	13	13	13	13	13	13
145°	13	13	7	7	0	13	13	7	13	13
155°	0	0	0	0	0	7	13	7	13	13
165°	0	0	0	0	7	7	7	7	7	13



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)