

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: P192770

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6427.7 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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: 25 FT



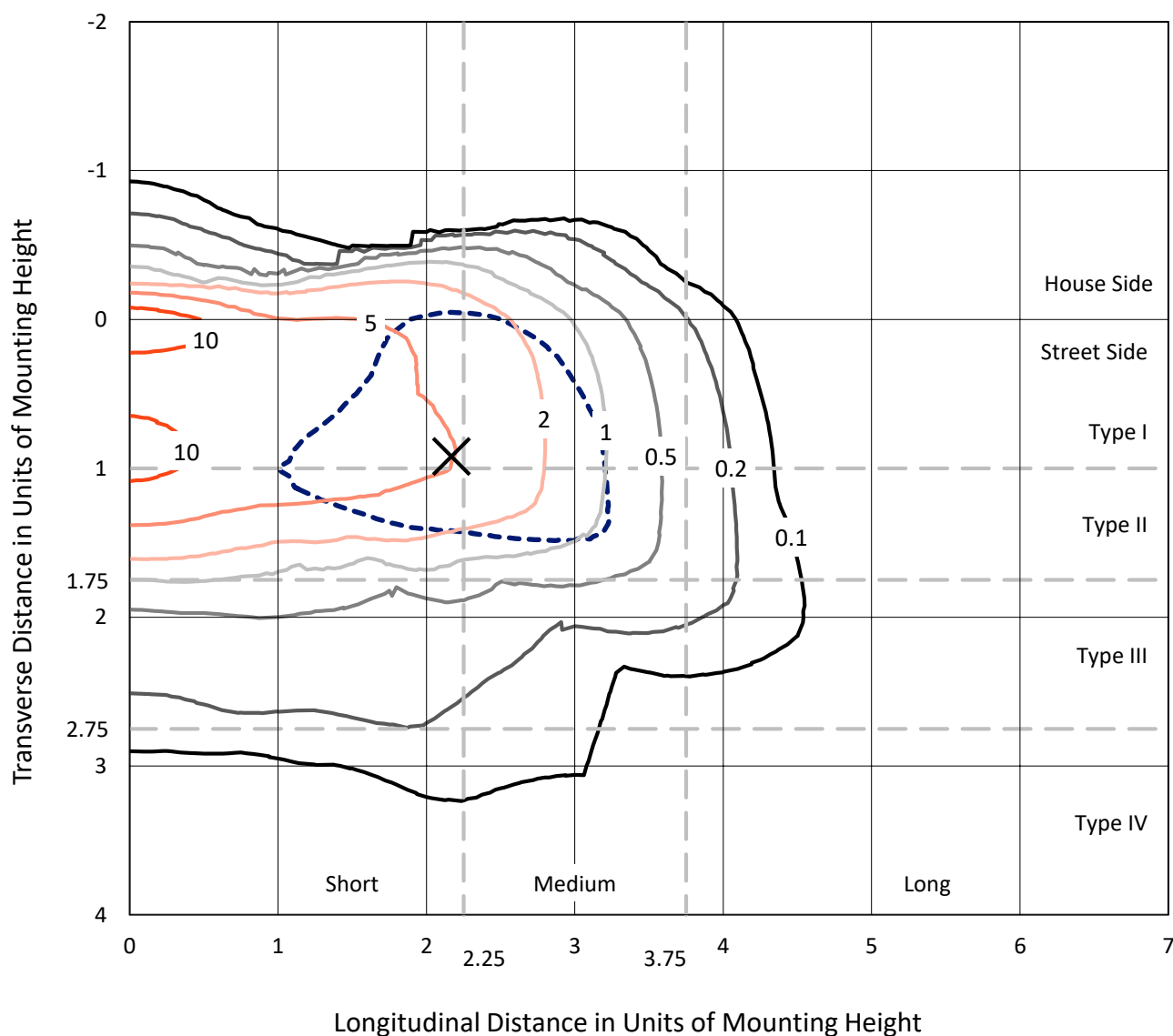
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

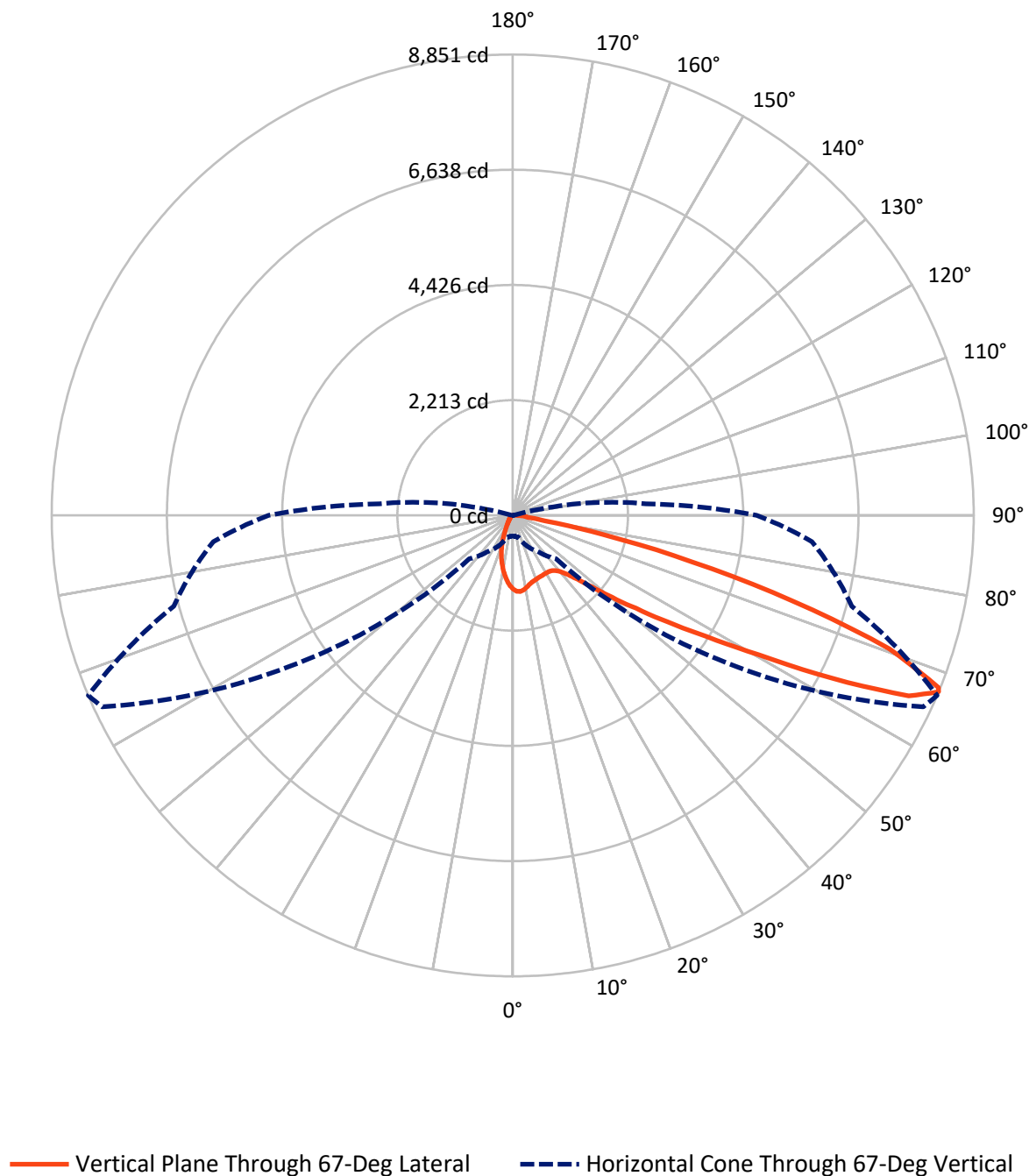


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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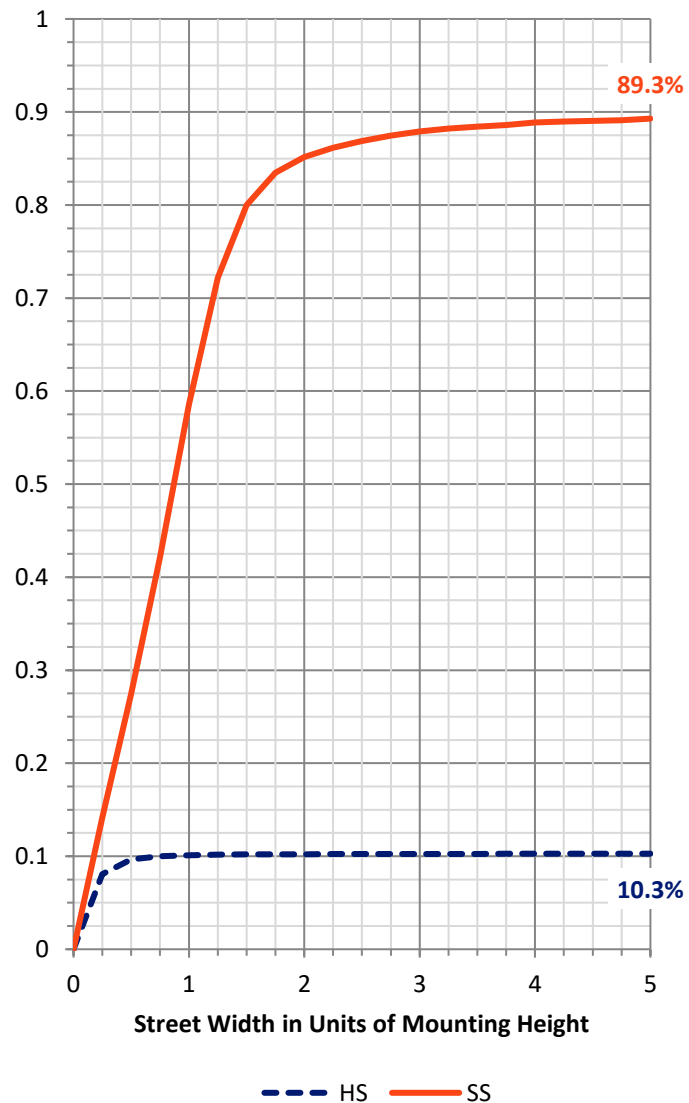
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.4	0.0	667.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5760.3	0.0	5760.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	6427.7	0.0	6427.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.8
10°-20°	245.5	3.8
20°-30°	356.9	5.6
30°-40°	556.8	8.7
40°-50°	986.4	15.3
50°-60°	1560.9	24.3
60°-70°	1787.7	27.8
70°-80°	741.5	11.5
80°-90°	76.6	1.2
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°	6427.7	100.0
0°-180°	6427.7	100.0

Coefficient of Utilization



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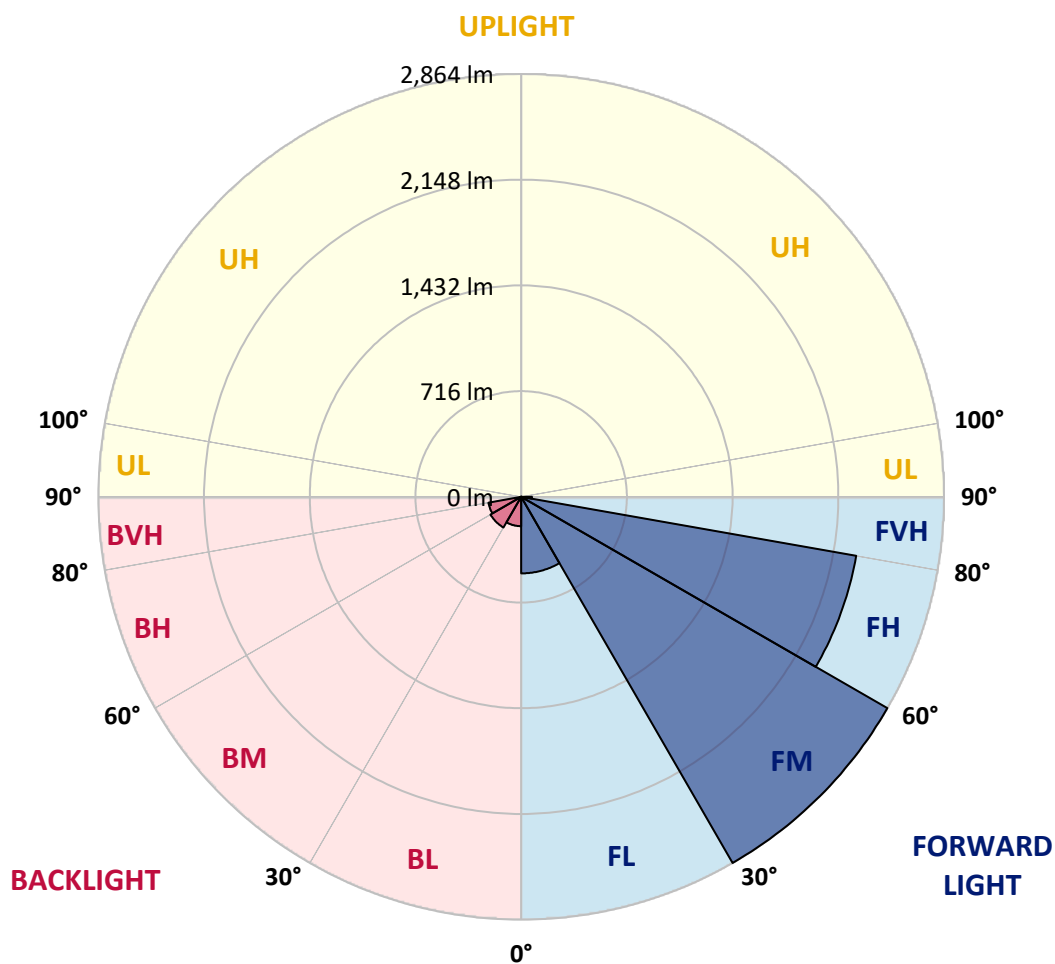
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.6	8.1			
FM	(30°-60°)	2864.2	44.6			
FH	(60°-80°)	2304.4	35.9			G2/5000
FVH	(80°-90°)	73.2	1.1			G1/100
BL	(0°-30°)	199.1	3.1	B1/500		
BM	(30°-60°)	239.8	3.7	B1/1000		
BH	(60°-80°)	224.9	3.5	B1/500		G1/500
BVH	(80°-90°)	3.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5
2.5°	1465.5	1468.6	1468.1	1470.4	1475.6	1476.0	1470.7	1460.7	1458.4	1445.3	1422.4
5°	1351.5	1360.2	1365.4	1386.8	1410.7	1439.7	1461.5	1469.3	1468.1	1458.8	1424.3
7.5°	1221.5	1230.0	1236.0	1261.2	1293.1	1342.6	1399.2	1445.7	1449.8	1459.9	1422.8
10°	1134.8	1136.4	1144.6	1168.6	1202.0	1252.5	1320.1	1401.5	1413.9	1451.0	1419.1
12.5°	1063.6	1064.7	1075.6	1101.6	1137.1	1188.0	1259.0	1353.0	1372.2	1439.7	1418.3
15°	1013.1	1017.1	1026.9	1054.0	1091.7	1142.5	1215.1	1317.4	1340.3	1435.5	1425.1
17.5°	996.1	1000.6	1003.6	1023.1	1057.6	1107.2	1181.7	1294.1	1320.1	1437.8	1438.2
20°	1013.8	1017.1	1010.4	1015.2	1036.7	1080.9	1153.6	1274.3	1305.1	1440.5	1455.0
22.5°	1079.4	1080.9	1062.5	1041.1	1037.4	1061.8	1131.5	1258.5	1291.6	1447.5	1474.9
25°	1191.8	1189.2	1159.2	1113.2	1069.6	1058.4	1118.4	1248.9	1284.8	1455.0	1495.5
27.5°	1327.6	1331.4	1290.2	1222.9	1140.1	1080.9	1116.5	1244.7	1281.8	1460.2	1513.6
30°	1492.5	1497.8	1450.5	1366.2	1247.3	1136.4	1133.8	1243.9	1280.0	1456.9	1515.0
32.5°	1660.8	1667.3	1630.1	1543.2	1390.6	1229.3	1172.7	1252.2	1283.7	1445.3	1506.3
35°	1837.0	1846.1	1821.4	1746.7	1584.8	1363.5	1241.3	1277.4	1301.3	1444.2	1497.8
37.5°	2080.4	2088.6	2042.2	1963.1	1819.8	1543.5	1351.5	1324.5	1342.9	1462.2	1500.0
40°	2443.7	2442.6	2322.7	2201.5	2078.1	1772.1	1506.3	1410.1	1419.4	1516.5	1527.8
42.5°	2839.6	2837.7	2660.4	2476.4	2364.9	2053.7	1710.0	1557.8	1551.4	1616.6	1599.8
45°	3144.8	3144.4	2999.7	2792.3	2710.2	2376.9	1973.2	1763.2	1753.5	1779.4	1732.6
47.5°	3274.8	3277.1	3204.3	3058.5	3093.0	2814.1	2305.0	2060.8	2046.3	2035.8	1964.6
50°	3173.7	3178.2	3184.2	3155.6	3373.8	3401.6	2749.9	2480.4	2473.3	2426.4	2315.1
52.5°	2842.9	2865.9	2936.4	3026.7	3471.2	3965.4	3447.6	3001.6	2963.3	2913.5	2790.8
55°	2285.8	2311.0	2444.7	2664.2	3326.3	4335.9	4425.4	3673.4	3609.7	3460.8	3283.9
57.5°	1512.8	1551.8	1746.0	2024.9	2904.8	4395.5	5401.0	4605.9	4383.9	3976.4	3776.9
60°	833.4	870.9	1081.6	1334.3	2098.0	4100.8	6057.2	5819.8	5427.7	4552.7	4375.7
62.5°	513.3	533.5	689.1	924.2	1258.2	3236.6	6192.9	7345.3	6891.3	5294.4	5098.8
65°	408.6	417.3	493.5	755.4	902.1	1925.1	5754.5	8508.3	8356.8	6192.9	5746.3
67°	396.6	400.0	436.1	648.6	850.2	1180.2	4821.1	8697.6	8851.3	6736.5	5766.6
67.5°	399.3	403.0	437.1	619.0	848.8	1084.6	4499.3	8623.1	8817.2	6779.5	5677.0
70°	385.0	396.6	500.5	618.6	807.2	901.3	2694.6	7471.2	7673.4	6299.4	4816.9
72.5°	136.5	137.2	216.4	500.5	877.7	911.0	1353.0	5477.1	5626.8	4818.8	3472.8
75°	81.0	69.0	72.0	142.5	838.7	884.8	780.5	3499.8	3555.8	2761.2	1758.7
77.5°	55.8	48.7	50.3	63.0	319.5	872.4	620.1	1825.0	1765.5	968.4	374.5
80°	31.9	28.1	30.0	55.0	116.3	814.0	584.9	740.1	631.0	164.2	103.5
82.5°	16.8	14.2	17.3	45.4	81.0	507.3	585.9	357.8	283.4	55.5	70.5
85°	6.0	4.9	8.2	31.1	54.0	155.5	543.2	300.7	236.2	27.0	53.6
87.5°	1.1	1.1	3.4	12.8	21.8	47.6	321.3	178.4	119.6	16.2	36.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5	1417.5
2.5°	1413.0	1396.9	1375.1	1348.6	1317.1	1289.4	1268.7	1247.3	1242.9	1235.4	1234.2
5°	1403.7	1375.9	1321.9	1260.1	1194.1	1134.4	1086.1	1043.0	1023.9	1007.4	1005.5
7.5°	1389.8	1348.1	1256.4	1156.6	1053.5	959.8	880.3	824.1	772.4	747.6	743.8
10°	1373.7	1314.1	1182.5	1044.1	901.7	769.3	651.1	552.2	492.2	456.6	452.2
12.5°	1358.6	1280.7	1107.2	927.5	738.1	561.3	409.4	314.8	252.0	226.5	223.4
15°	1351.5	1253.8	1036.7	808.3	567.3	357.3	223.9	173.1	152.6	146.6	146.2
17.5°	1350.8	1230.8	967.6	684.9	397.3	207.7	145.9	133.1	128.9	127.5	127.5
20°	1350.5	1209.1	898.6	557.1	252.3	138.3	121.5	118.4	115.5	113.6	113.6
22.5°	1354.6	1189.7	826.6	426.6	159.0	112.1	106.8	103.9	100.1	97.5	97.1
25°	1358.6	1174.6	753.3	303.6	115.0	97.5	92.3	88.1	82.8	79.4	79.1
27.5°	1359.4	1155.9	674.4	203.2	96.3	85.1	78.3	72.0	66.0	62.6	62.3
30°	1348.1	1124.4	587.2	137.2	85.1	73.9	64.9	58.1	52.5	49.8	49.8
32.5°	1326.1	1085.4	491.1	103.5	75.7	63.4	53.6	47.2	43.4	42.4	41.9
35°	1306.2	1043.4	392.6	87.7	67.8	53.6	43.8	39.8	37.4	37.1	36.7
37.5°	1294.6	1009.7	299.9	79.4	60.3	45.1	37.1	34.1	33.0	32.2	32.7
40°	1303.6	981.4	221.6	72.7	52.9	37.4	31.4	30.0	28.9	28.5	28.5
42.5°	1342.9	976.7	164.6	66.7	45.8	31.1	27.4	26.2	25.4	25.1	25.4
45°	1446.4	1006.6	127.9	61.0	38.6	26.2	23.3	22.8	22.5	22.5	22.5
47.5°	1602.0	1068.5	106.5	54.7	32.2	22.5	20.2	19.8	19.4	19.8	19.8
50°	1865.6	1181.7	95.3	48.4	26.7	19.1	17.3	17.3	17.3	17.3	17.6
52.5°	2266.4	1404.4	87.7	41.9	21.8	16.2	14.6	14.6	15.0	15.0	15.4
55°	2712.9	1699.8	81.0	35.6	18.3	13.5	12.0	12.3	12.8	13.1	13.1
57.5°	3197.3	2027.2	75.4	29.3	15.8	10.9	10.2	10.5	10.9	11.6	11.6
60°	3781.8	2381.5	67.0	22.8	13.1	8.6	7.8	8.6	9.8	10.5	10.9
62.5°	4423.6	2724.2	56.6	18.0	10.9	6.8	6.3	7.8	9.4	10.2	10.5
65°	4862.2	2831.7	43.4	14.6	8.2	4.9	5.3	7.1	9.0	10.2	10.2
67°	4684.6	2567.4	35.6	12.3	6.8	3.8	4.9	7.1	9.0	9.8	10.2
67.5°	4561.2	2463.9	34.1	12.0	6.3	3.8	4.9	7.1	9.0	10.2	10.2
70°	3711.3	1851.0	28.5	9.0	5.3	3.4	4.2	6.8	8.6	9.8	9.8
72.5°	2578.6	1141.2	25.4	6.3	4.5	2.9	3.8	6.3	8.2	9.4	9.8
75°	1226.0	413.1	21.8	4.9	4.2	2.6	3.4	6.3	8.2	9.4	9.4
77.5°	250.1	95.9	17.6	4.2	3.4	2.6	2.9	6.0	7.8	9.0	9.0
80°	82.1	37.1	13.1	3.8	3.4	2.6	2.9	5.6	7.8	8.6	9.0
82.5°	59.2	18.8	8.6	3.8	3.4	2.6	2.6	5.6	7.5	8.6	8.6
85°	45.4	13.1	5.6	3.8	3.4	2.6	2.6	5.3	7.1	8.2	8.2
87.5°	30.0	5.3	4.5	3.8	3.4	2.6	2.6	5.3	6.8	7.8	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)