

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: P200632

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL4-8030
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9631 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 113
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

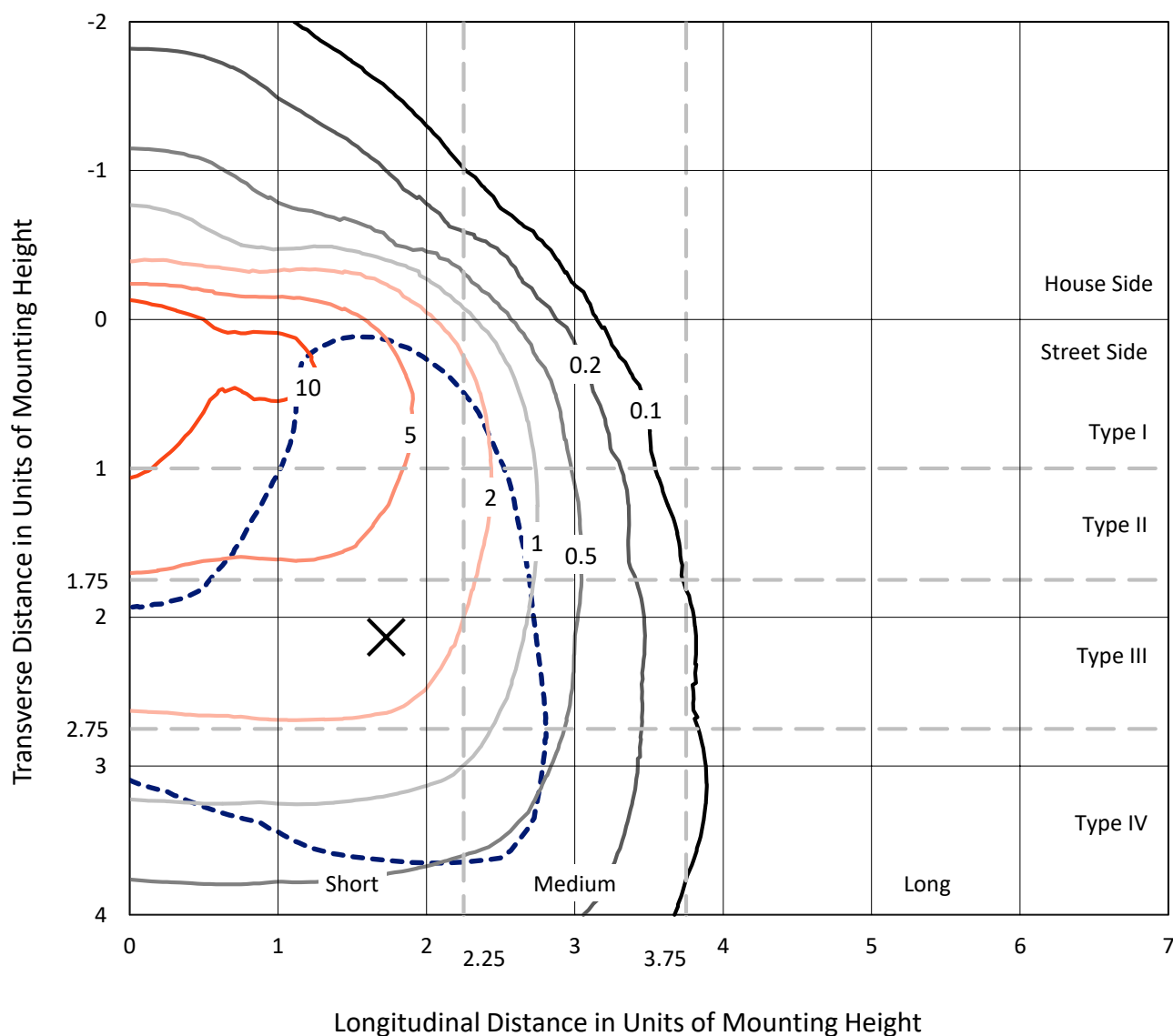


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

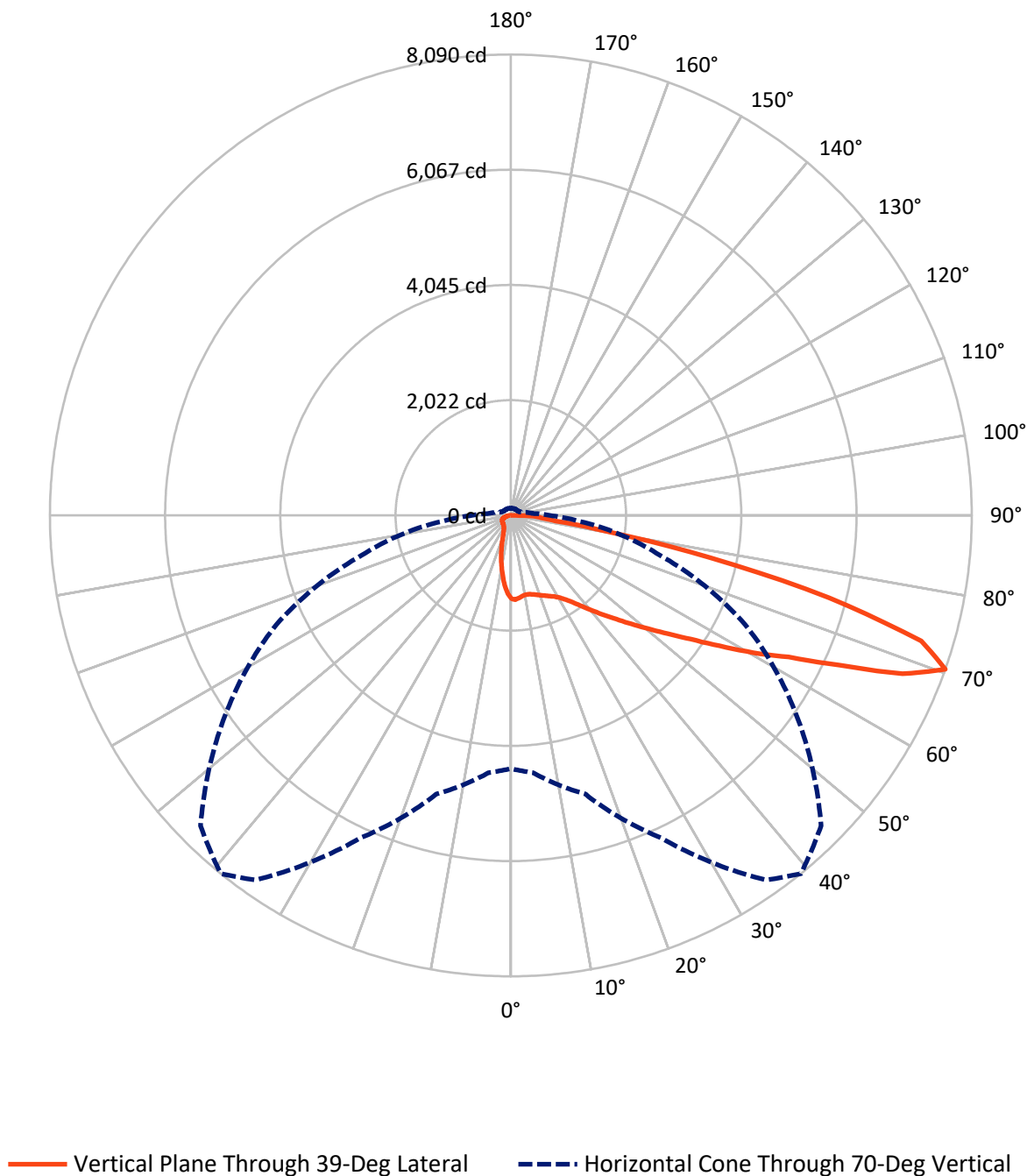


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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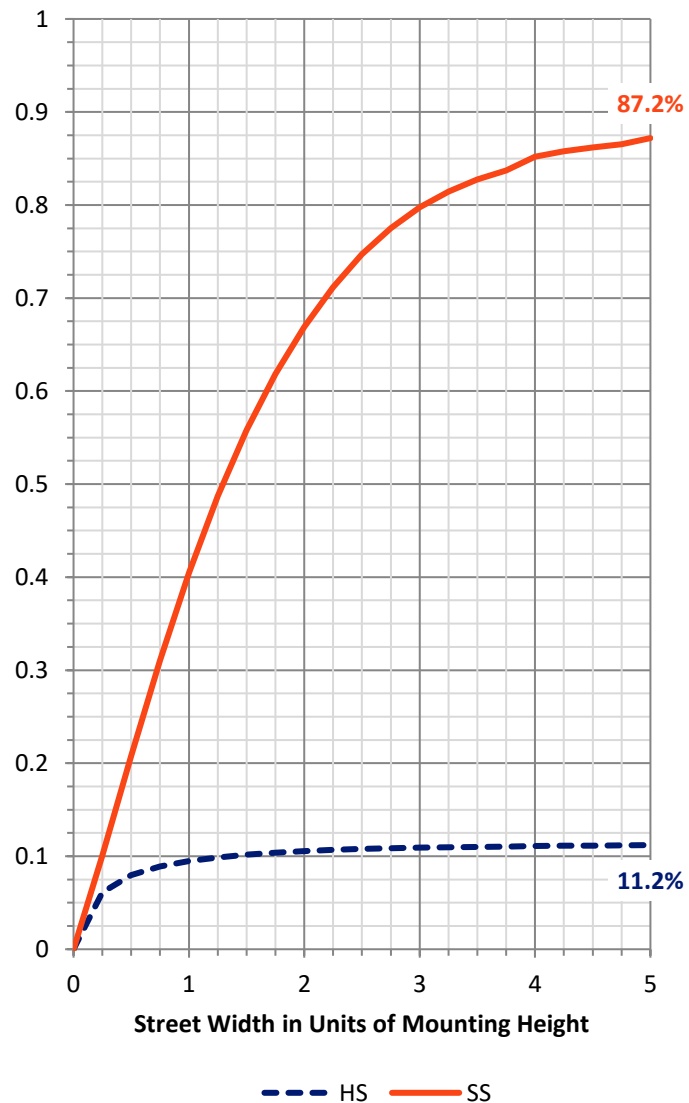
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1095.4	0.0	1095.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	8535.6	0.0	8535.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	9631.0	0.0	9631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.3
10°-20°	313.6	3.3
20°-30°	488.4	5.1
30°-40°	760.8	7.9
40°-50°	1277.2	13.3
50°-60°	2029.0	21.1
60°-70°	2706.4	28.1
70°-80°	1634.3	17.0
80°-90°	295.8	3.1
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°	9631.0	100.0
0°-180°	9631.0	100.0

Coefficient of Utilization



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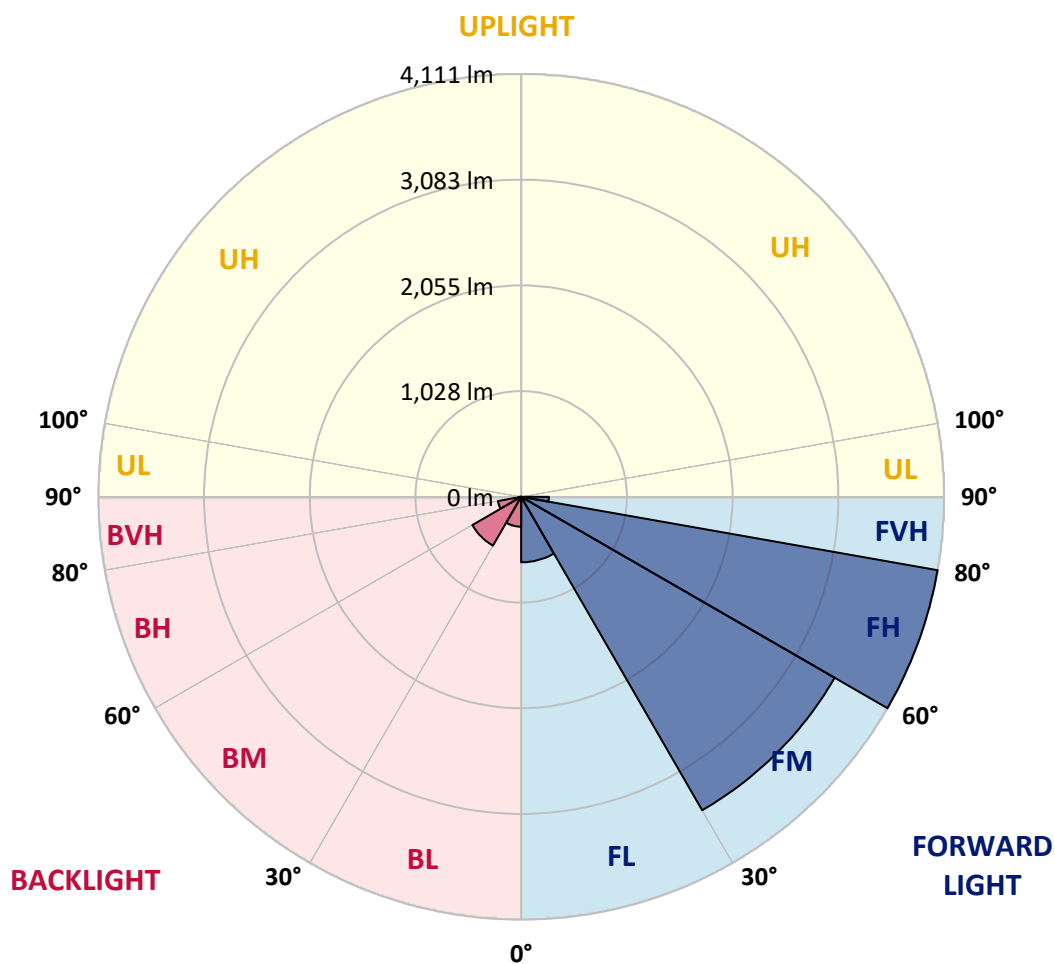
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.9	6.6			
FM	(30°-60°)	3518.8	36.5			
FH	(60°-80°)	4110.8	42.7			G2/5000
FVH	(80°-90°)	269.1	2.8			G3/500
BL	(0°-30°)	290.6	3.0	B1/500		
BM	(30°-60°)	548.2	5.7	B1/1000		
BH	(60°-80°)	230.0	2.4	B1/500		G1/500
BVH	(80°-90°)	26.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1
2.5°	1490.5	1490.0	1486.1	1483.2	1480.7	1479.8	1481.7	1474.4	1468.0	1460.2	1451.9
5°	1479.3	1478.8	1472.4	1466.5	1460.7	1458.7	1458.2	1445.0	1437.2	1425.4	1409.7
7.5°	1467.0	1464.6	1456.3	1446.5	1436.2	1431.3	1426.4	1409.3	1400.4	1388.7	1370.6
10°	1454.3	1451.4	1443.5	1433.7	1423.9	1416.6	1408.3	1391.6	1382.3	1373.5	1352.5
12.5°	1441.1	1438.6	1436.7	1432.3	1425.4	1419.0	1412.7	1398.5	1388.7	1378.4	1353.9
15°	1439.1	1438.1	1442.5	1445.5	1441.6	1437.7	1430.8	1418.6	1408.3	1398.0	1366.2
17.5°	1454.8	1454.3	1465.6	1473.4	1471.4	1464.6	1455.3	1441.6	1433.2	1424.4	1384.8
20°	1489.1	1491.5	1505.2	1515.5	1505.7	1495.9	1480.7	1461.6	1457.2	1453.3	1403.9
22.5°	1553.7	1556.2	1565.9	1569.9	1544.4	1530.2	1509.1	1484.7	1481.7	1484.7	1426.9
25°	1654.6	1652.1	1650.7	1636.0	1589.4	1567.4	1540.5	1515.0	1516.5	1529.7	1459.2
27.5°	1788.3	1775.0	1754.5	1710.4	1636.5	1612.0	1579.2	1555.7	1565.0	1590.4	1507.7
30°	1926.8	1912.1	1864.6	1792.7	1698.2	1671.2	1634.5	1608.1	1632.5	1672.7	1572.3
32.5°	2055.1	2053.2	1983.6	1891.1	1783.4	1759.9	1723.1	1693.3	1732.9	1794.1	1669.3
35°	2195.2	2199.6	2116.3	2005.2	1898.4	1873.9	1847.5	1825.0	1877.9	1962.1	1809.8
37.5°	2345.0	2353.8	2255.4	2130.0	2029.7	2019.4	2003.7	1993.9	2075.7	2192.2	2006.2
40°	2545.3	2536.5	2399.8	2271.1	2190.8	2190.3	2185.4	2197.1	2333.2	2492.9	2258.3
42.5°	2759.7	2733.8	2553.1	2422.4	2367.5	2384.2	2394.0	2442.0	2643.2	2858.2	2565.8
45°	2990.9	2932.6	2712.2	2582.5	2563.9	2599.1	2632.4	2736.7	3008.0	3273.9	2902.7
47.5°	3175.5	3119.2	2876.8	2750.4	2791.1	2844.5	2908.6	3073.6	3416.4	3703.3	3235.2
50°	3320.9	3284.2	3042.8	2946.3	3041.3	3123.6	3228.4	3455.1	3841.4	4121.5	3543.2
52.5°	3461.9	3434.5	3210.2	3147.1	3335.1	3448.7	3591.2	3864.4	4277.2	4532.8	3802.2
55°	3589.2	3569.6	3390.4	3397.3	3680.8	3828.7	4007.9	4330.6	4752.2	4899.6	4021.6
57.5°	3732.7	3707.7	3596.1	3711.2	4124.9	4316.9	4550.0	4854.5	5197.8	5225.7	4188.6
60°	3877.2	3855.6	3824.3	4073.5	4689.0	4890.8	5111.6	5362.3	5649.7	5478.8	4178.8
62.5°	4002.5	4005.0	4060.3	4454.0	5241.4	5474.9	5744.2	5992.0	6058.6	5522.9	3869.8
65°	4215.0	4253.7	4418.7	4992.6	6018.9	6331.3	6661.9	6622.2	6171.7	5111.1	3207.3
67.5°	4467.7	4535.8	4870.2	5710.5	7001.7	7416.4	7544.2	6764.7	5718.8	4154.8	2286.2
70°	4442.2	4535.8	5065.1	6245.7	7811.6	8089.7	7701.9	6122.3	4541.1	2714.2	1214.4
72.5°	3944.7	4078.4	4668.0	6000.3	7556.5	7532.0	6686.4	4564.2	2698.0	1090.0	474.5
75°	3006.5	3141.7	3649.0	4740.4	5972.4	5766.8	4744.3	2521.3	1023.9	432.9	299.2
77.5°	1729.5	1834.3	2226.0	2907.1	3789.0	3578.0	2640.8	1121.3	498.5	301.6	233.6
80°	965.6	1023.9	1261.9	1474.9	1856.8	1702.1	1181.6	696.8	372.1	218.9	180.2
82.5°	763.4	815.3	1020.5	930.4	848.1	782.5	678.7	620.4	297.2	138.1	107.7
85°	666.9	716.4	863.8	732.5	579.3	531.3	551.4	610.6	231.1	83.2	92.1
87.5°	618.0	684.1	769.8	564.6	451.0	399.6	508.8	669.4	74.4	51.9	37.2
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°	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1	1462.1
2.5°	1444.5	1436.7	1423.9	1412.7	1395.1	1385.7	1375.5	1368.1	1362.2	1357.3	1365.2
5°	1399.9	1385.3	1358.3	1329.4	1295.2	1268.2	1245.7	1224.6	1210.0	1200.2	1207.0
7.5°	1357.8	1333.8	1291.7	1239.3	1180.6	1130.6	1089.5	1053.3	1028.3	1012.1	1018.5
10°	1333.8	1304.0	1238.8	1156.6	1069.9	992.1	927.4	871.6	832.9	810.9	814.3
12.5°	1328.0	1289.3	1199.2	1086.1	967.6	859.4	768.3	690.9	636.6	608.2	609.1
15°	1332.4	1282.9	1162.0	1018.5	868.7	732.0	618.4	524.4	461.3	428.9	428.5
17.5°	1339.7	1278.0	1122.8	945.5	768.3	609.6	482.8	390.8	334.9	309.0	307.0
20°	1347.6	1270.2	1078.7	866.7	664.0	496.0	378.0	306.0	270.8	256.6	255.6
22.5°	1358.8	1263.3	1033.2	783.5	561.6	404.0	310.9	262.5	243.9	236.5	235.5
25°	1376.9	1259.9	984.7	696.8	469.6	337.9	270.8	240.9	230.1	225.2	224.8
27.5°	1407.3	1264.8	939.2	612.6	394.7	293.3	248.3	230.1	222.3	217.9	217.4
30°	1446.5	1280.0	891.2	532.8	336.4	262.9	234.5	222.8	216.4	212.0	212.0
32.5°	1511.6	1305.4	840.8	463.7	294.8	241.9	224.3	216.4	211.0	207.6	207.1
35°	1607.6	1353.4	793.7	406.4	264.9	226.7	215.5	209.6	205.7	203.7	203.7
37.5°	1747.1	1429.3	752.1	365.3	246.8	216.4	207.1	202.7	200.3	200.3	200.3
40°	1934.7	1534.1	718.3	337.9	236.5	209.1	200.8	197.3	195.9	196.4	196.4
42.5°	2166.3	1670.2	695.8	318.8	231.6	204.7	196.4	193.4	191.9	191.5	191.9
45°	2430.2	1825.0	693.4	304.6	226.7	201.7	193.4	190.5	187.5	185.6	185.6
47.5°	2686.8	1982.2	713.4	299.7	221.3	198.3	191.0	188.0	183.6	179.2	179.2
50°	2913.5	2115.8	740.4	301.6	219.4	193.4	187.1	185.6	178.7	173.8	173.3
52.5°	3093.7	2218.7	762.4	307.5	221.3	190.0	182.2	182.6	175.3	169.9	169.4
55°	3238.1	2286.2	756.5	313.4	225.7	188.0	177.7	178.7	172.9	167.5	167.5
57.5°	3301.3	2261.3	691.4	308.5	229.2	188.5	174.3	178.2	173.3	168.4	168.4
60°	3165.7	2039.4	569.5	286.9	224.8	187.1	172.9	180.2	179.7	174.8	174.3
62.5°	2755.3	1642.3	441.7	255.1	209.6	179.7	168.9	179.7	185.1	183.6	183.1
65°	2123.7	1169.8	337.4	220.8	189.0	167.5	158.7	168.4	175.8	177.7	177.3
67.5°	1378.4	716.9	260.0	188.5	166.0	153.3	145.4	149.8	151.3	151.3	150.3
70°	677.7	385.9	207.1	158.7	142.5	138.1	133.7	131.2	128.8	126.8	126.8
72.5°	334.4	252.2	170.4	134.2	122.9	120.9	120.0	117.0	115.1	112.6	111.6
75°	247.3	205.2	144.9	113.1	105.8	103.8	105.8	103.3	102.8	100.9	99.9
77.5°	203.2	174.8	124.9	97.0	90.6	87.2	90.1	90.6	91.1	88.1	87.2
80°	165.0	147.9	104.3	80.3	74.4	72.0	73.9	77.9	78.8	74.4	72.5
82.5°	119.0	120.9	84.2	62.7	57.8	55.8	59.7	64.6	65.6	59.2	57.8
85°	99.9	100.9	64.6	44.6	39.7	36.7	43.1	48.0	51.4	45.0	43.6
87.5°	41.6	59.2	37.2	25.0	22.0	19.1	23.0	25.5	30.8	28.4	27.9
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)