

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: P452470

Luminaire Tested: **GALN-SA3B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13575 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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



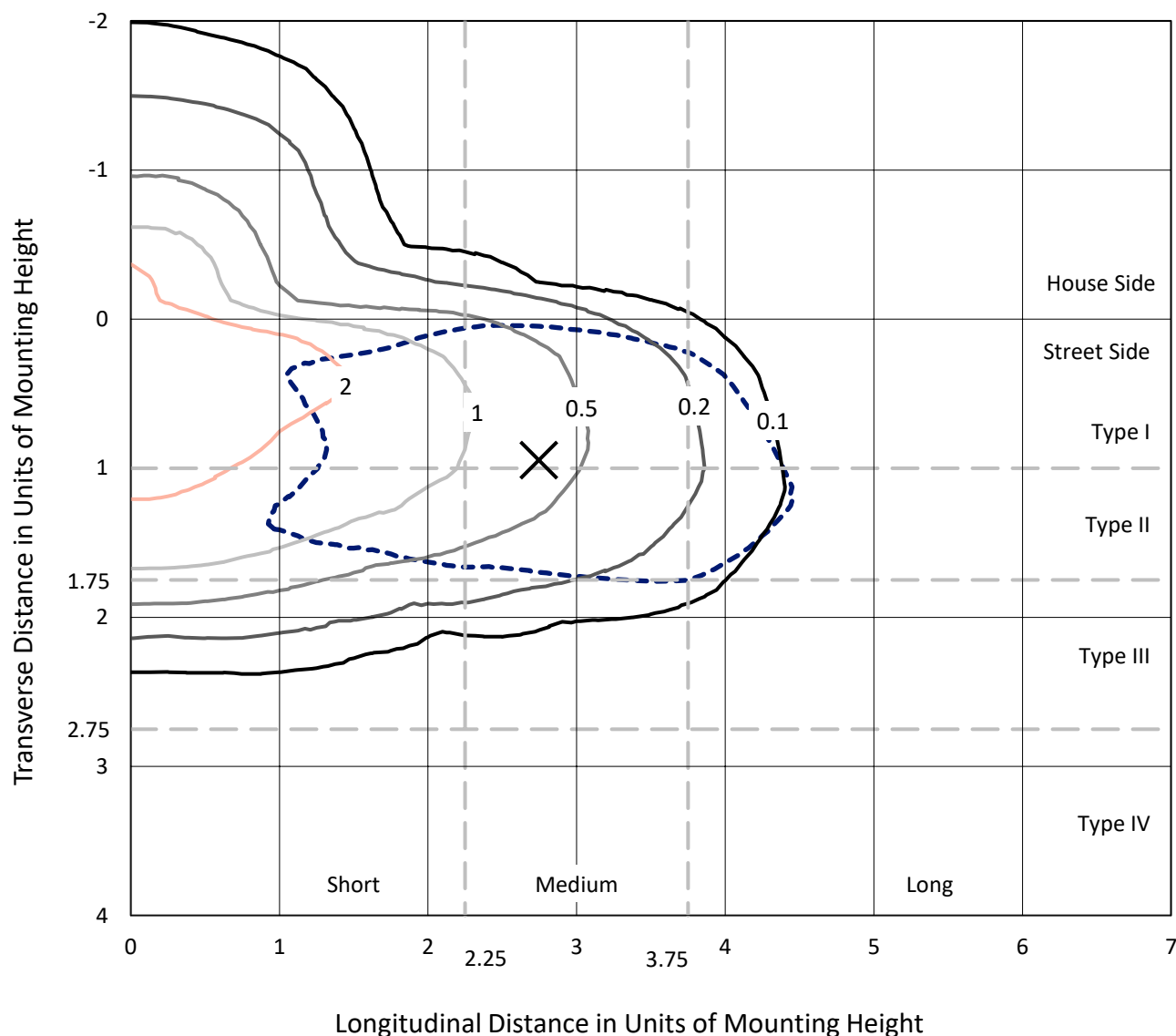
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

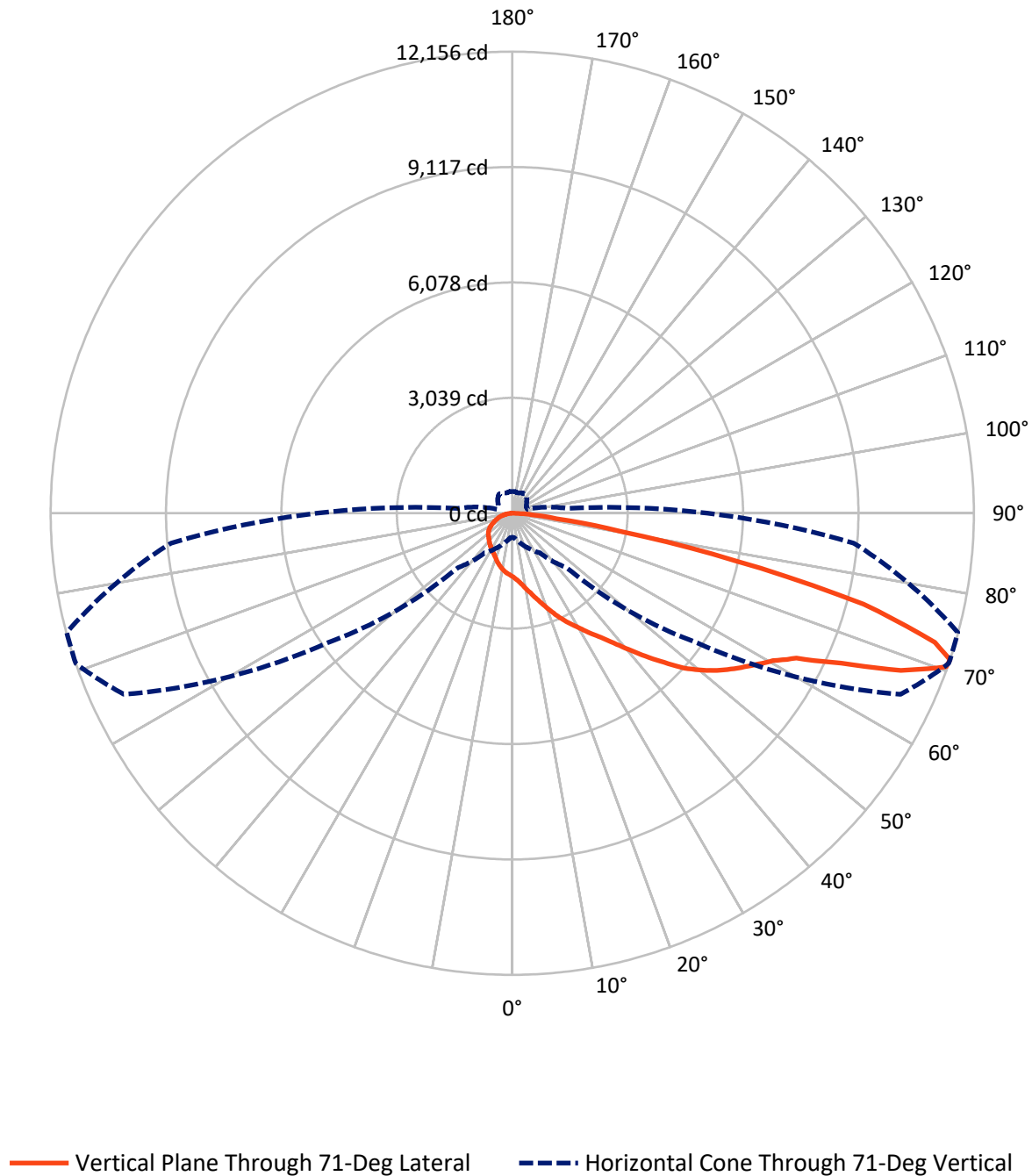


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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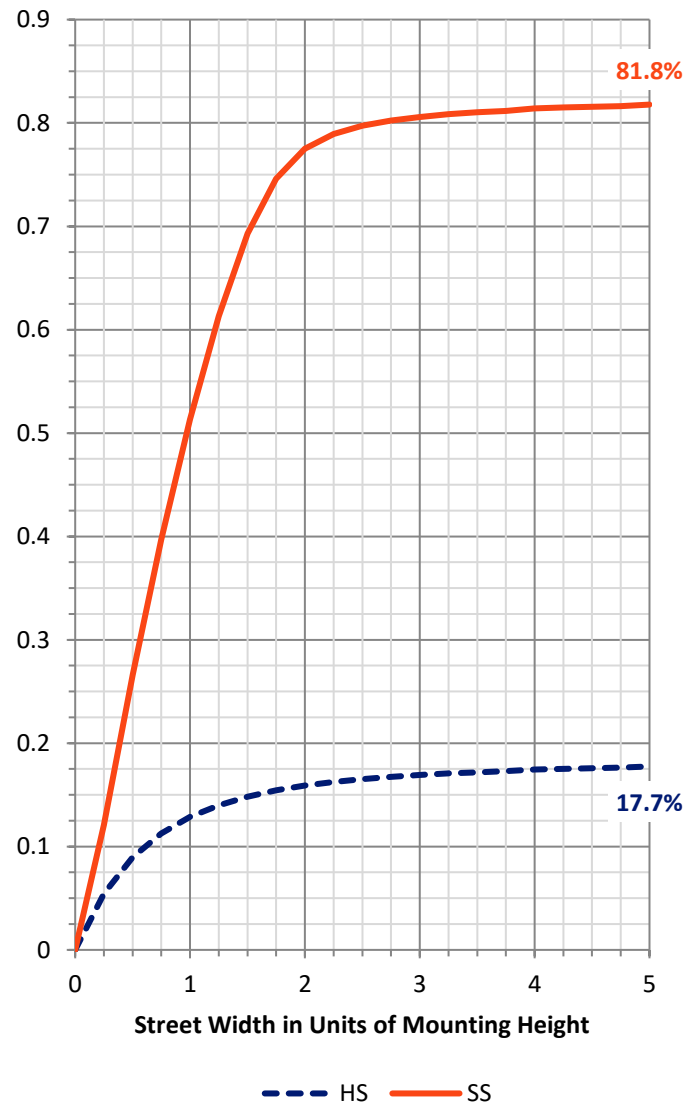
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2441.4	0.0	2441.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11133.6	0.0	11133.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	13575.0	0.0	13575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	1.2
10°-20°	543.5	4.0
20°-30°	949.8	7.0
30°-40°	1412.7	10.4
40°-50°	2081.4	15.3
50°-60°	2914.0	21.5
60°-70°	3259.3	24.0
70°-80°	1990.9	14.7
80°-90°	256.1	1.9
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°	13575.0	100.0
0°-180°	13575.0	100.0

Coefficient of Utilization



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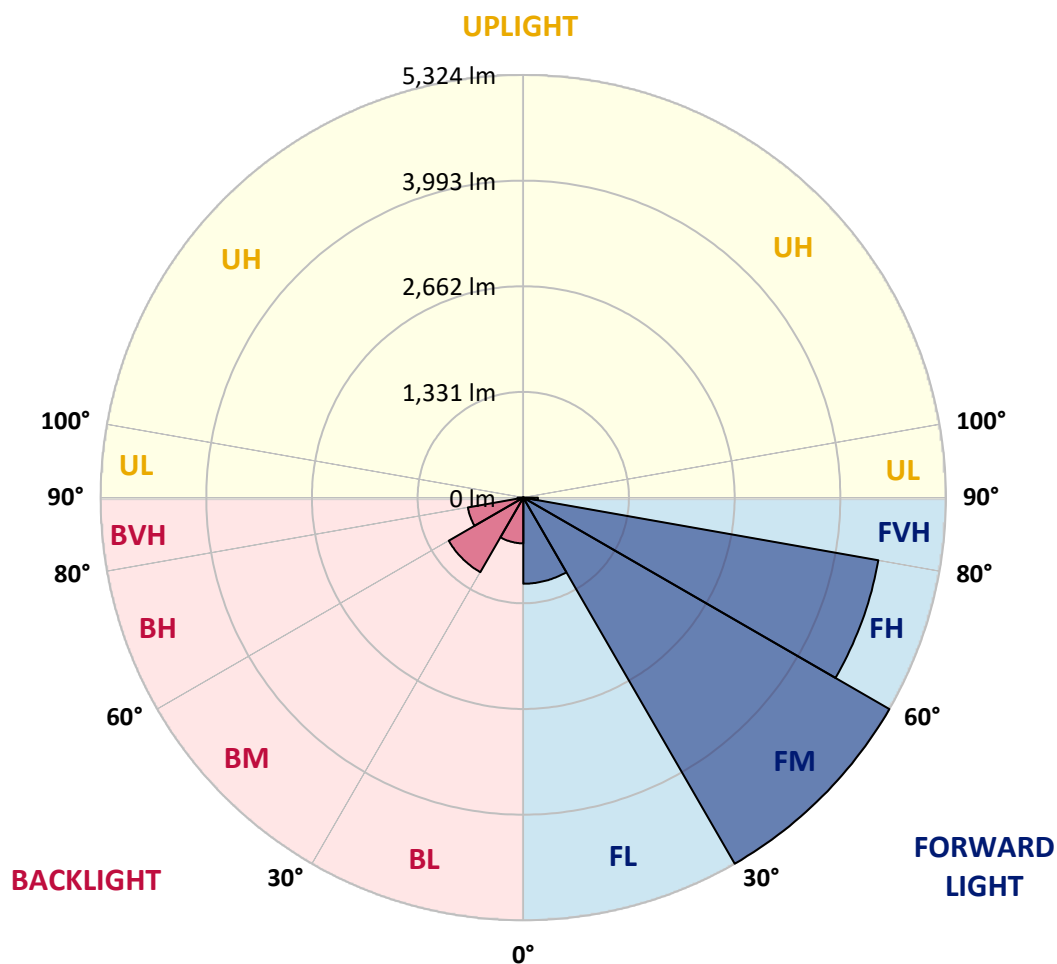
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.7	8.0			
FM	(30°-60°)	5323.8	39.2			
FH	(60°-80°)	4540.8	33.4			G2/5000
FVH	(80°-90°)	184.3	1.4			G2/225
BL	(0°-30°)	575.9	4.2	B2/1000		
BM	(30°-60°)	1084.3	8.0	B2/2500		
BH	(60°-80°)	709.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	71.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1
2.5°	1849.6	1840.7	1841.4	1828.7	1812.3	1794.4	1769.0	1746.6	1728.7	1718.3	1687.7
5°	2049.6	2040.6	2029.4	2001.8	1989.9	1945.9	1889.9	1839.2	1800.4	1778.7	1717.5
7.5°	2211.5	2209.2	2206.2	2190.6	2160.0	2098.8	2051.1	1963.0	1905.6	1864.5	1760.1
10°	2311.4	2315.2	2317.4	2320.4	2307.7	2275.6	2210.0	2098.8	2025.7	1973.5	1815.3
12.5°	2362.2	2365.9	2378.6	2406.2	2423.4	2419.6	2365.9	2257.0	2156.3	2087.6	1874.2
15°	2393.5	2399.5	2421.9	2458.4	2515.9	2552.4	2526.3	2425.6	2315.2	2233.9	1944.4
17.5°	2427.8	2434.6	2459.2	2511.4	2586.8	2665.9	2694.2	2607.7	2487.5	2390.5	2022.7
20°	2447.2	2456.2	2491.3	2559.9	2647.9	2762.8	2856.9	2811.3	2680.0	2572.6	2113.0
22.5°	2478.6	2486.0	2515.9	2589.0	2694.2	2838.2	3019.5	3009.8	2894.2	2755.4	2212.2
25°	2563.6	2575.6	2590.5	2634.5	2736.0	2915.1	3154.6	3221.7	3101.6	2946.4	2303.2
27.5°	2724.0	2733.7	2733.0	2739.0	2796.4	2981.5	3271.7	3431.4	3307.5	3139.6	2391.3
30°	2906.8	2910.6	2913.6	2900.1	2912.8	3049.4	3379.1	3638.8	3514.9	3338.1	2468.1
32.5°	3129.2	3136.6	3111.3	3077.0	3066.5	3150.1	3467.9	3846.2	3760.4	3539.5	2544.2
35°	3391.8	3411.2	3359.7	3299.3	3256.8	3294.8	3587.3	4058.1	4011.8	3797.0	2645.0
37.5°	3691.8	3715.6	3667.9	3549.2	3488.8	3499.3	3743.2	4320.0	4329.7	4090.2	2794.9
40°	3937.2	3968.6	3970.1	3802.2	3710.4	3722.3	3941.0	4602.0	4713.2	4452.8	2971.8
42.5°	4099.1	4129.7	4161.8	4063.3	3967.1	4035.0	4171.5	4907.9	5144.4	4893.0	3218.7
45°	4276.7	4304.3	4322.2	4277.4	4223.7	4399.8	4449.8	5233.2	5604.0	5384.7	3488.8
47.5°	4482.6	4513.2	4530.4	4487.9	4467.7	4719.9	4749.7	5536.9	6095.0	5862.2	3787.3
50°	4757.2	4780.3	4771.4	4744.5	4740.0	4965.4	5037.7	5821.1	6500.1	6376.3	4096.9
52.5°	5098.9	5126.5	5136.2	5098.2	5081.0	5140.7	5269.8	6080.0	6868.7	6818.0	4427.4
55°	5305.6	5349.6	5497.3	5557.0	5598.1	5367.5	5519.7	6365.8	7199.2	7283.5	4782.6
57.5°	5040.7	5097.4	5427.9	5726.4	6112.1	5934.6	5874.1	6664.3	7529.7	7734.9	5207.8
60°	4394.6	4407.3	4833.3	5383.2	6159.1	6663.5	6613.5	7138.8	7887.9	8190.0	5768.2
62.5°	3048.6	3075.5	3579.1	4456.5	5578.7	6926.1	7871.5	7958.0	8401.2	8871.2	6589.6
65°	1572.1	1537.0	1995.8	2800.9	4205.8	6302.4	8890.6	9464.4	9514.4	9936.7	7746.1
67.5°	967.7	983.4	1198.3	1635.5	2486.8	4580.4	8784.0	11305.1	11041.7	11244.6	8819.8
70°	726.7	746.1	893.8	1119.2	1516.1	2618.8	7064.2	11751.2	12119.1	12066.8	9146.6
71°	632.0	652.1	805.8	1018.4	1273.6	2021.2	5951.7	11284.2	12156.4	12147.4	9023.5
72.5°	538.7	551.4	671.5	862.5	1073.7	1416.9	4471.4	10120.2	11637.8	11935.5	8584.0
75°	423.0	432.7	486.5	658.1	845.3	870.0	2399.5	7587.2	9558.4	10125.5	7146.2
77.5°	344.7	351.4	379.0	488.7	652.1	616.3	1258.7	4938.5	5988.3	6559.1	4209.6
80°	273.8	281.3	297.7	331.3	488.7	439.5	600.6	2502.5	2892.7	2886.7	1680.2
82.5°	212.6	214.9	234.3	243.2	334.3	311.9	325.3	1059.5	1173.6	1212.4	606.6
85°	134.3	141.0	207.4	186.5	200.0	182.8	160.4	420.8	518.5	511.1	242.5
87.5°	41.0	43.3	70.1	79.1	88.8	79.8	58.9	123.9	151.5	164.1	60.4
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°	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1	1666.1
2.5°	1675.8	1667.6	1638.5	1614.6	1592.2	1567.6	1546.7	1540.7	1535.5	1533.3	1532.5
5°	1691.4	1666.8	1609.4	1562.4	1525.0	1490.7	1469.1	1459.4	1449.7	1449.7	1452.7
7.5°	1713.8	1669.0	1580.3	1510.1	1463.1	1431.0	1415.4	1413.9	1416.1	1418.4	1419.1
10°	1738.4	1667.6	1537.7	1450.4	1408.7	1393.7	1394.5	1407.2	1419.1	1428.1	1429.5
12.5°	1762.3	1658.6	1487.7	1394.5	1367.6	1370.6	1391.5	1419.8	1443.0	1455.7	1456.4
15°	1789.2	1644.4	1427.3	1341.5	1332.6	1355.7	1394.5	1437.8	1472.8	1493.7	1496.0
17.5°	1811.6	1620.6	1363.9	1290.0	1301.2	1343.7	1397.5	1453.4	1496.0	1522.1	1526.5
20°	1836.9	1590.0	1298.2	1240.8	1272.9	1330.3	1391.5	1451.9	1496.0	1521.3	1527.3
22.5°	1857.1	1546.7	1235.6	1200.5	1247.5	1313.9	1371.4	1419.8	1455.7	1469.1	1478.0
25°	1865.3	1492.2	1176.6	1167.7	1227.4	1287.0	1325.8	1353.4	1364.6	1363.1	1366.9
27.5°	1860.8	1429.5	1125.9	1141.5	1202.0	1245.3	1264.7	1262.4	1242.3	1223.6	1232.6
30°	1842.1	1354.9	1083.4	1114.7	1169.2	1193.0	1190.0	1160.9	1122.9	1087.8	1090.1
32.5°	1808.6	1274.4	1043.8	1084.1	1122.9	1133.3	1113.2	1075.1	1020.7	975.2	968.5
35°	1780.2	1197.5	1008.7	1049.0	1076.6	1071.4	1052.0	1002.8	953.5	913.2	906.5
37.5°	1775.7	1131.8	975.2	1009.5	1025.2	1017.7	993.8	952.0	934.1	903.5	899.8
40°	1799.6	1085.6	940.8	967.7	975.2	969.2	943.1	919.2	935.6	928.2	928.2
42.5°	1864.5	1061.0	910.3	925.9	931.9	936.4	917.7	897.6	917.7	883.4	872.2
45°	1967.5	1061.7	882.6	884.9	902.8	918.5	905.8	875.9	865.5	796.8	783.4
47.5°	2119.0	1087.1	860.3	846.1	878.2	904.3	886.4	843.1	796.8	751.3	743.1
50°	2295.8	1132.6	840.1	805.8	845.3	886.4	872.9	822.2	774.5	746.9	741.6
52.5°	2492.0	1190.0	815.5	761.0	805.1	878.2	875.9	819.2	753.6	734.9	730.4
55°	2734.5	1246.7	784.9	708.8	769.2	871.5	867.7	794.6	749.1	735.7	734.2
57.5°	3016.5	1328.8	740.9	655.8	728.2	843.9	835.6	779.7	734.2	724.5	723.7
60°	3470.9	1456.4	678.2	607.3	686.4	795.4	805.8	754.3	710.3	708.1	707.3
62.5°	4068.5	1635.5	613.3	557.3	637.9	732.7	762.5	720.0	684.9	696.1	697.6
65°	4893.7	1786.2	546.2	514.8	584.2	672.2	721.5	687.9	656.6	678.2	678.2
67.5°	5431.7	1789.2	485.0	470.8	529.7	621.5	678.2	649.9	620.0	656.6	658.1
70°	5319.8	1567.6	434.2	424.5	476.8	567.0	630.5	608.1	573.8	606.6	594.6
71°	5139.2	1444.5	414.1	406.6	455.9	540.9	608.1	589.4	555.1	576.7	570.0
72.5°	4851.2	1254.2	381.3	382.8	424.5	508.1	576.7	557.3	523.0	535.0	532.7
75°	4100.6	1095.3	326.1	332.8	364.8	452.1	514.1	499.1	464.1	464.1	461.8
77.5°	2563.6	765.5	270.8	274.6	309.6	387.2	441.7	429.0	395.4	384.2	381.3
80°	956.5	395.4	211.9	216.4	238.0	305.2	365.6	353.7	319.3	306.7	294.7
82.5°	361.9	198.5	155.9	152.2	175.3	232.8	286.5	272.3	245.5	214.9	205.9
85°	136.5	98.5	95.5	92.5	103.0	138.0	177.6	174.6	146.2	124.6	122.4
87.5°	35.8	32.1	37.3	27.6	29.1	26.1	26.9	11.2	5.2	2.2	1.5
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)