

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: P453639

Luminaire Tested: **GALN-SA4C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15988 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 213
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

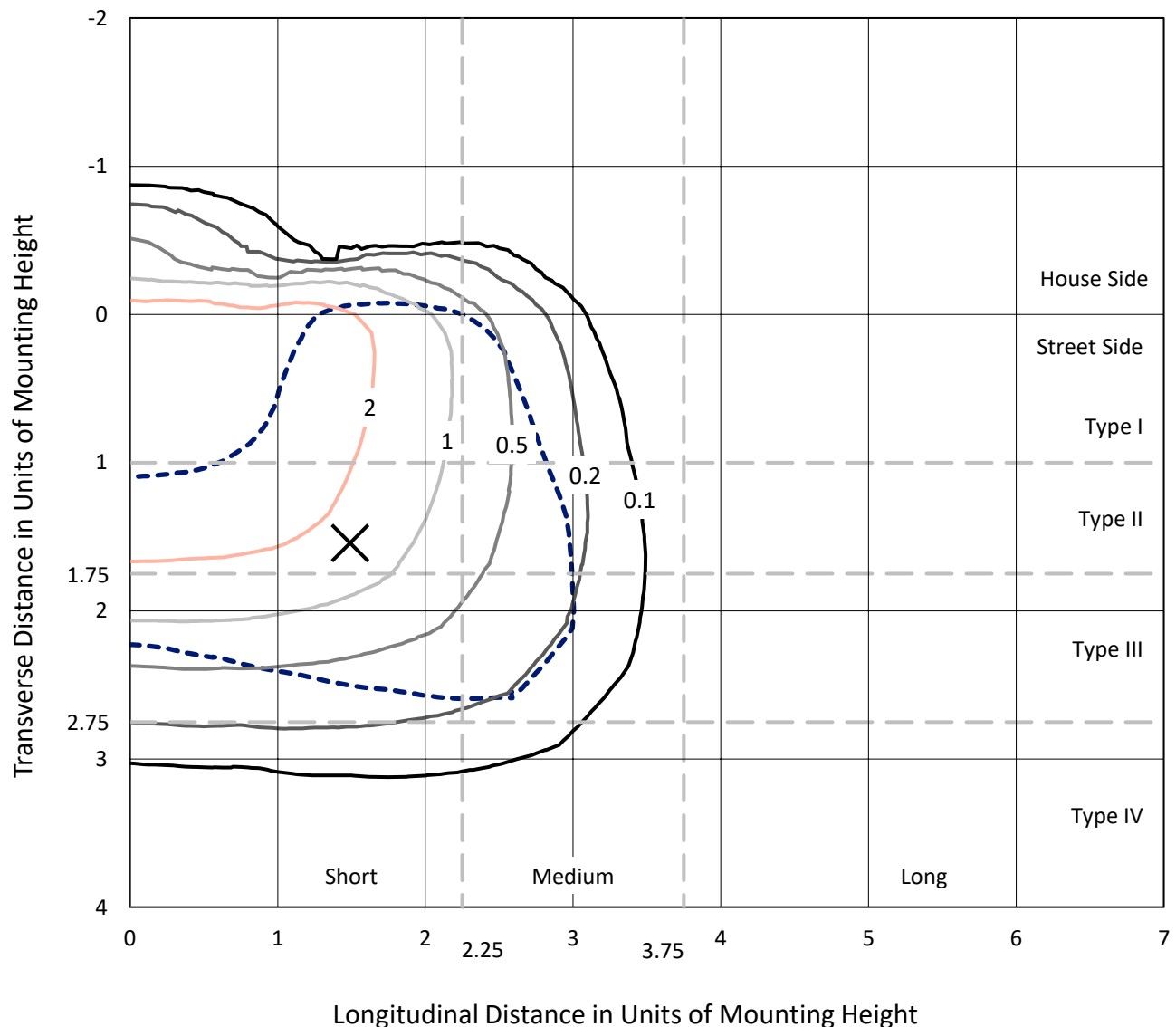


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

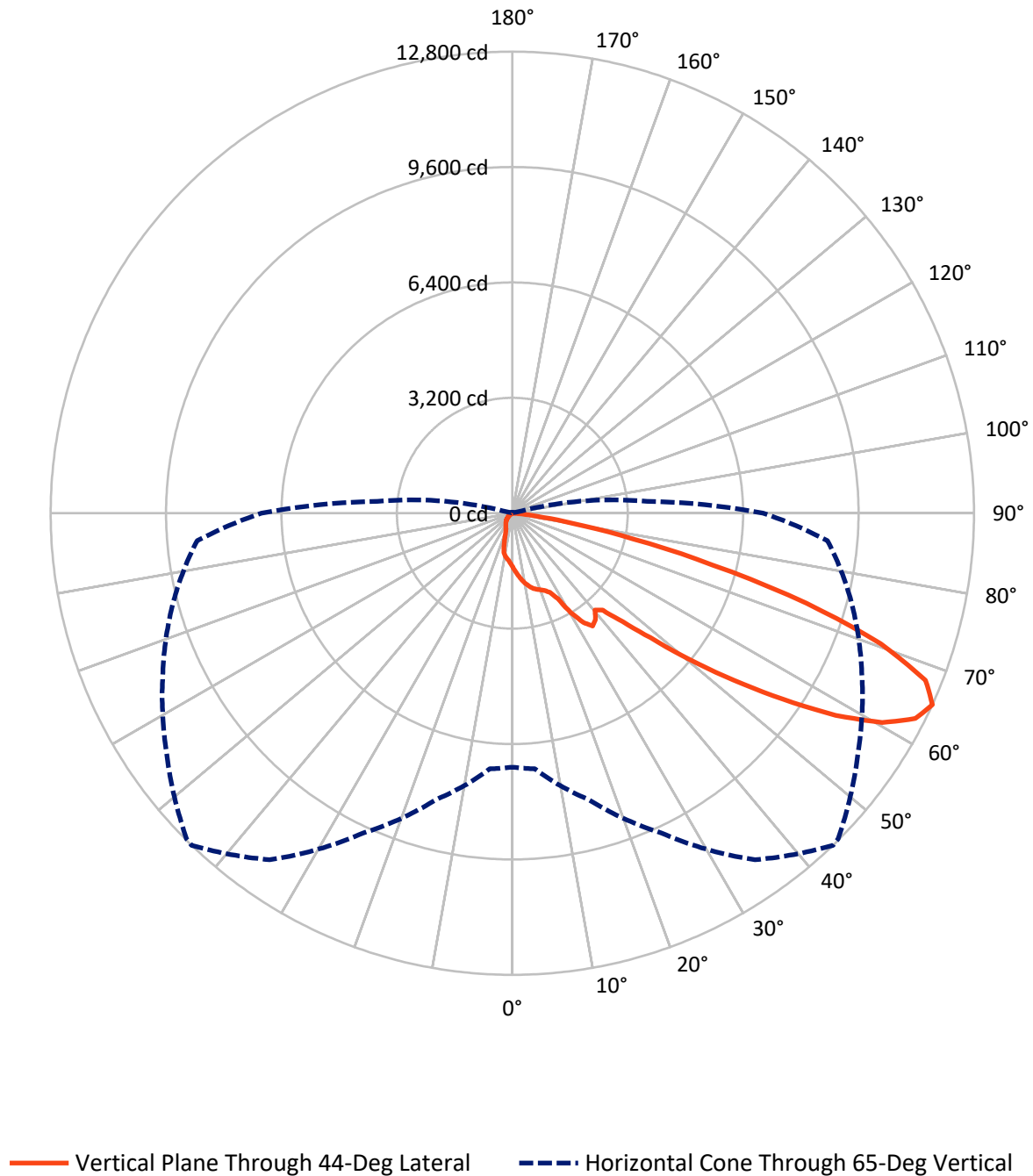


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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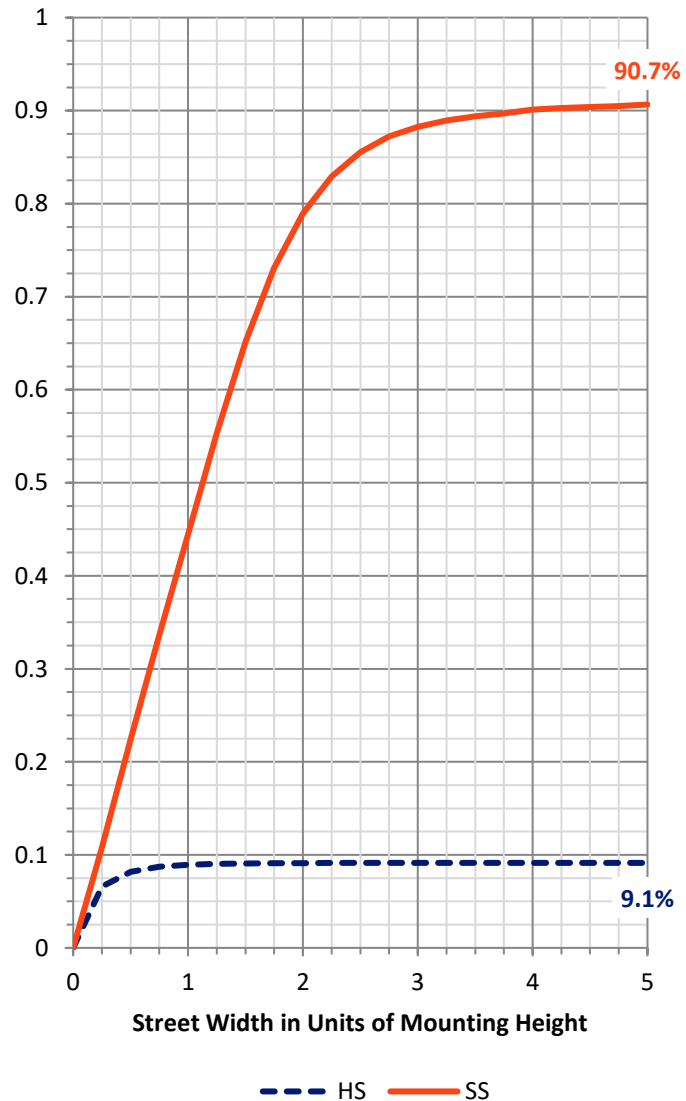
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1473.0	0.0	1473.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14514.9	0.0	14514.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	15988.0	0.0	15988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	0.9
10°-20°	445.4	2.8
20°-30°	755.3	4.7
30°-40°	1255.8	7.9
40°-50°	2192.6	13.7
50°-60°	4283.6	26.8
60°-70°	4970.0	31.1
70°-80°	1809.8	11.3
80°-90°	127.5	0.8
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°	15988.0	100.0
0°-180°	15988.0	100.0

Coefficient of Utilization



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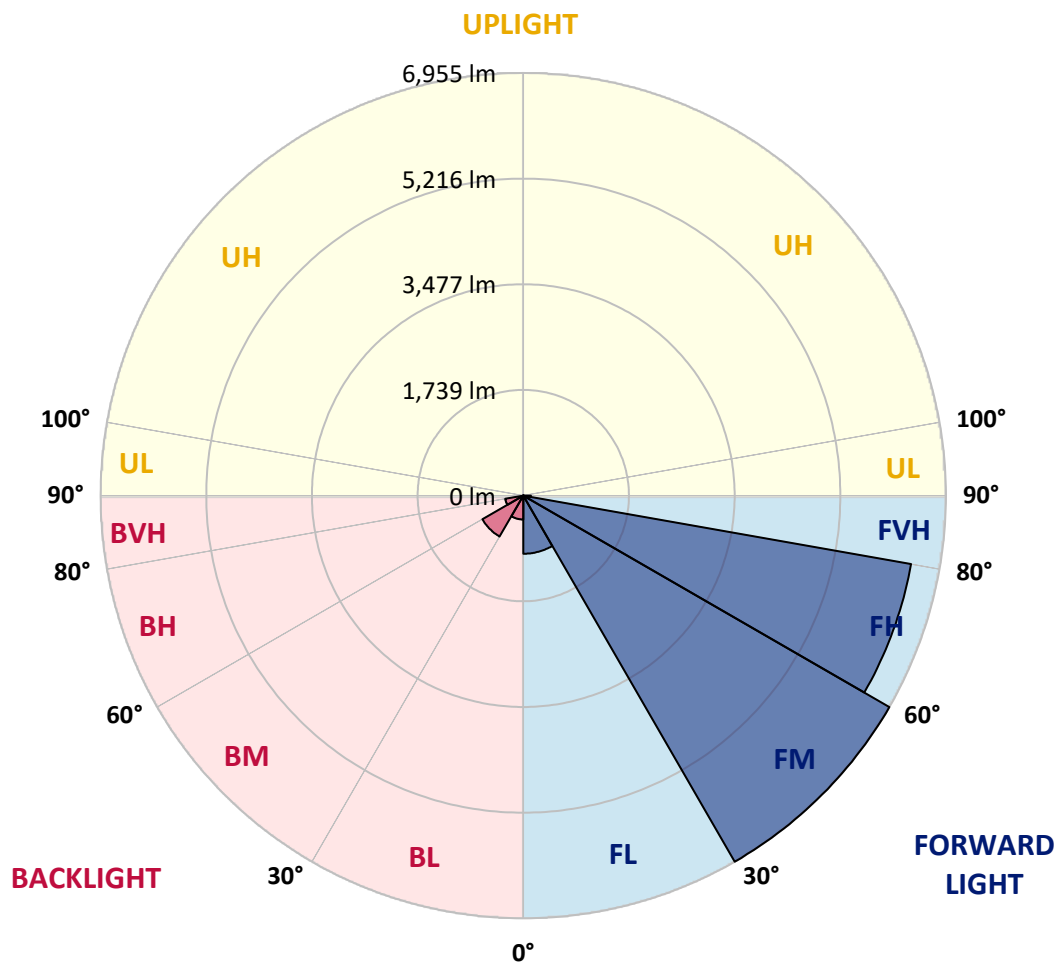
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	956.2	6.0			
FM	(30°-60°)	6954.8	43.5			
FH	(60°-80°)	6478.1	40.5			G3/7500
FVH	(80°-90°)	125.8	0.8			G2/225
BL	(0°-30°)	392.5	2.5	B1/500		
BM	(30°-60°)	777.2	4.9	B1/1000		
BH	(60°-80°)	301.7	1.9	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0
2.5°	1674.9	1667.6	1663.9	1644.4	1629.7	1611.4	1611.4	1588.2	1561.3	1532.0	1505.1
5°	1861.8	1849.6	1833.7	1816.6	1782.4	1733.6	1733.6	1684.7	1628.5	1578.4	1523.4
7.5°	2041.4	2030.4	2003.6	1970.6	1914.4	1863.1	1859.4	1788.5	1721.3	1645.6	1567.4
10°	2199.0	2190.5	2167.3	2103.7	2045.1	1977.9	1976.7	1897.3	1819.1	1726.2	1629.7
12.5°	2309.0	2310.2	2279.7	2218.6	2142.8	2079.3	2074.4	1996.2	1914.4	1814.2	1695.7
15°	2387.2	2387.2	2355.4	2287.0	2218.6	2162.4	2157.5	2089.1	2004.8	1896.0	1767.8
17.5°	2409.2	2416.5	2382.3	2321.2	2266.2	2217.3	2216.1	2158.7	2091.5	1986.5	1841.1
20°	2400.6	2407.9	2381.1	2333.4	2295.5	2267.4	2263.8	2240.6	2178.3	2079.3	1919.3
22.5°	2382.3	2389.6	2370.1	2342.0	2323.6	2332.2	2326.1	2345.6	2312.6	2192.9	2012.1
25°	2385.9	2393.3	2378.6	2362.7	2378.6	2431.1	2447.0	2531.3	2502.0	2337.1	2112.3
27.5°	2500.8	2515.4	2494.7	2502.0	2558.2	2680.4	2710.9	2856.3	2726.8	2520.3	2268.7
30°	2756.1	2746.3	2707.2	2742.7	2938.1	3197.1	3188.6	3165.4	2962.6	2731.7	2454.4
32.5°	2988.2	2979.7	2977.2	3129.9	3484.2	3610.1	3604.0	3379.2	3173.9	2973.6	2637.6
35°	3082.3	3049.3	3042.0	3412.2	4004.7	3838.5	3800.6	3467.1	3430.5	3237.5	2824.5
37.5°	3365.7	3342.5	3228.9	3458.6	3797.0	3742.0	3712.7	3618.6	3704.1	3470.8	3035.9
40°	3949.7	3884.9	3782.3	3557.5	3502.6	3525.8	3555.1	3812.9	4027.9	3789.7	3318.1
42.5°	4675.4	4660.7	4470.1	4051.1	3639.4	3671.1	3709.0	4218.5	4493.3	4269.8	3778.7
45°	5546.4	5567.2	5292.3	4797.5	4257.6	4284.4	4339.4	4817.1	5123.7	5016.2	4503.1
47.5°	6338.1	6322.2	6229.3	5715.0	5216.6	5156.7	5245.9	5585.5	5996.0	6013.1	5402.3
50°	7134.6	7218.9	7080.9	6879.3	6509.1	6383.3	6350.3	6516.4	7141.9	7060.1	6482.2
52.5°	8279.3	8323.3	8064.3	8013.0	8097.3	7689.3	7656.3	7696.6	8256.1	7975.1	7291.0
55°	8998.9	8973.2	8876.7	9277.4	9611.0	9101.5	9060.0	8897.5	9180.9	8621.4	8069.2
57.5°	9226.1	9262.8	9487.6	10212.0	11001.2	10568.8	10493.0	10031.2	9848.0	9223.7	8785.1
60°	9124.7	9191.9	9676.9	10754.4	11849.1	11784.3	11719.6	10943.8	10326.9	9727.0	9287.2
62.5°	8402.7	8496.8	9272.5	10657.9	12136.2	12540.5	12459.9	11513.1	10645.7	9971.4	9375.2
65°	7041.8	7111.4	8225.6	9782.0	11728.1	12799.5	12770.2	11691.5	10695.8	9747.8	8772.9
67.5°	5019.9	5256.9	6289.2	8243.9	10521.1	12357.3	12407.4	11477.7	10225.5	8781.4	7265.3
70°	3155.6	3316.9	4057.2	5901.9	8434.5	10841.2	11006.1	10499.1	8874.3	6845.1	4863.5
72.5°	1505.1	1624.8	2152.6	3735.9	5953.2	8529.8	8660.5	8619.0	6862.2	4312.5	2509.3
75°	670.7	715.9	1027.4	1907.0	3843.4	5733.3	6071.7	6127.9	4288.1	2109.8	976.1
77.5°	342.1	343.3	481.3	923.6	1919.3	3420.7	3487.9	3684.6	2324.9	929.7	339.6
80°	182.0	194.2	255.3	436.1	995.7	1684.7	1676.1	1842.3	1031.1	455.7	113.6
82.5°	81.9	90.4	144.2	228.5	486.2	638.9	689.0	753.8	442.2	290.8	50.1
85°	24.4	29.3	70.9	114.8	175.9	184.5	206.5	266.3	250.4	206.5	25.7
87.5°	3.7	3.7	29.3	31.8	25.7	33.0	34.2	37.9	80.6	75.7	13.4
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°	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0
2.5°	1490.4	1481.9	1451.4	1425.7	1403.7	1390.3	1374.4	1364.6	1359.7	1356.1	1357.3
5°	1496.6	1475.8	1423.3	1381.7	1350.0	1315.7	1292.5	1279.1	1273.0	1263.2	1263.2
7.5°	1530.8	1497.8	1424.5	1361.0	1306.0	1259.6	1215.6	1199.7	1188.7	1186.3	1183.8
10°	1579.6	1538.1	1437.9	1350.0	1271.8	1208.2	1145.9	1091.0	1048.2	1022.5	1018.9
12.5°	1640.7	1580.9	1458.7	1342.6	1242.4	1130.1	965.1	854.0	779.4	756.2	759.9
15°	1696.9	1632.2	1479.5	1336.5	1188.7	937.0	750.1	623.1	585.2	581.5	582.7
17.5°	1764.1	1687.1	1503.9	1328.0	1040.9	715.9	557.1	522.9	530.2	542.4	541.2
20°	1833.7	1745.8	1533.2	1276.7	830.7	538.8	492.3	496.0	507.0	518.0	520.4
22.5°	1908.3	1813.0	1567.4	1153.3	634.1	469.1	466.7	471.6	482.6	494.8	497.2
25°	2010.9	1897.3	1593.1	992.0	480.1	433.7	438.6	447.1	456.9	470.3	472.8
27.5°	2142.8	2010.9	1606.5	781.9	415.4	401.9	403.2	415.4	427.6	439.8	439.8
30°	2313.9	2146.5	1579.6	591.3	383.6	371.4	366.5	373.8	389.7	401.9	403.2
32.5°	2466.6	2274.8	1508.8	452.0	360.4	343.3	331.1	332.3	338.4	345.7	347.0
35°	2619.3	2399.4	1387.8	379.9	336.0	316.4	298.1	288.3	283.4	279.8	283.4
37.5°	2814.8	2554.5	1226.6	345.7	315.2	290.8	265.1	244.3	227.2	216.2	218.7
40°	3066.4	2769.5	1036.0	323.7	295.6	266.3	232.1	205.2	175.9	166.1	161.3
42.5°	3481.8	3095.7	835.6	305.4	276.1	240.7	197.9	161.3	134.4	124.6	127.1
45°	4137.8	3507.4	643.8	285.9	256.6	212.6	166.1	127.1	105.1	100.2	102.6
47.5°	5007.7	4040.1	496.0	263.9	232.1	182.0	130.7	100.2	86.7	85.5	84.3
50°	5826.2	4536.1	414.1	239.4	202.8	151.5	107.5	84.3	75.7	74.5	74.5
52.5°	6566.5	4891.6	337.2	211.4	171.0	124.6	90.4	74.5	67.2	63.5	63.5
55°	7225.0	5123.7	273.7	177.1	134.4	99.0	78.2	67.2	58.6	53.8	52.5
57.5°	7722.2	5151.8	205.2	141.7	100.2	77.0	67.2	58.6	48.9	42.8	40.3
60°	7934.8	4908.7	151.5	107.5	74.5	61.1	53.8	47.6	36.7	30.5	29.3
62.5°	7721.0	4435.9	112.4	81.9	57.4	45.2	37.9	35.4	25.7	18.3	17.1
65°	6955.0	3753.0	89.2	62.3	42.8	33.0	24.4	23.2	15.9	8.6	7.3
67.5°	5572.1	2939.4	70.9	46.4	30.5	22.0	15.9	14.7	8.6	2.4	2.4
70°	3623.5	1878.9	57.4	34.2	19.5	14.7	9.8	7.3	4.9	1.2	0.0
72.5°	1792.2	878.4	46.4	26.9	13.4	7.3	3.7	2.4	3.7	0.0	0.0
75°	695.1	312.8	34.2	18.3	7.3	3.7	2.4	0.0	1.2	0.0	0.0
77.5°	230.9	103.8	20.8	9.8	4.9	2.4	0.0	0.0	0.0	0.0	0.0
80°	85.5	40.3	11.0	6.1	2.4	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	34.2	15.9	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	9.8	4.9	3.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	7.3	4.9	3.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0
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)