

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: P455031

Luminaire Tested: **GALN-SA6A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455031
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-SA6A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 15589 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 182
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



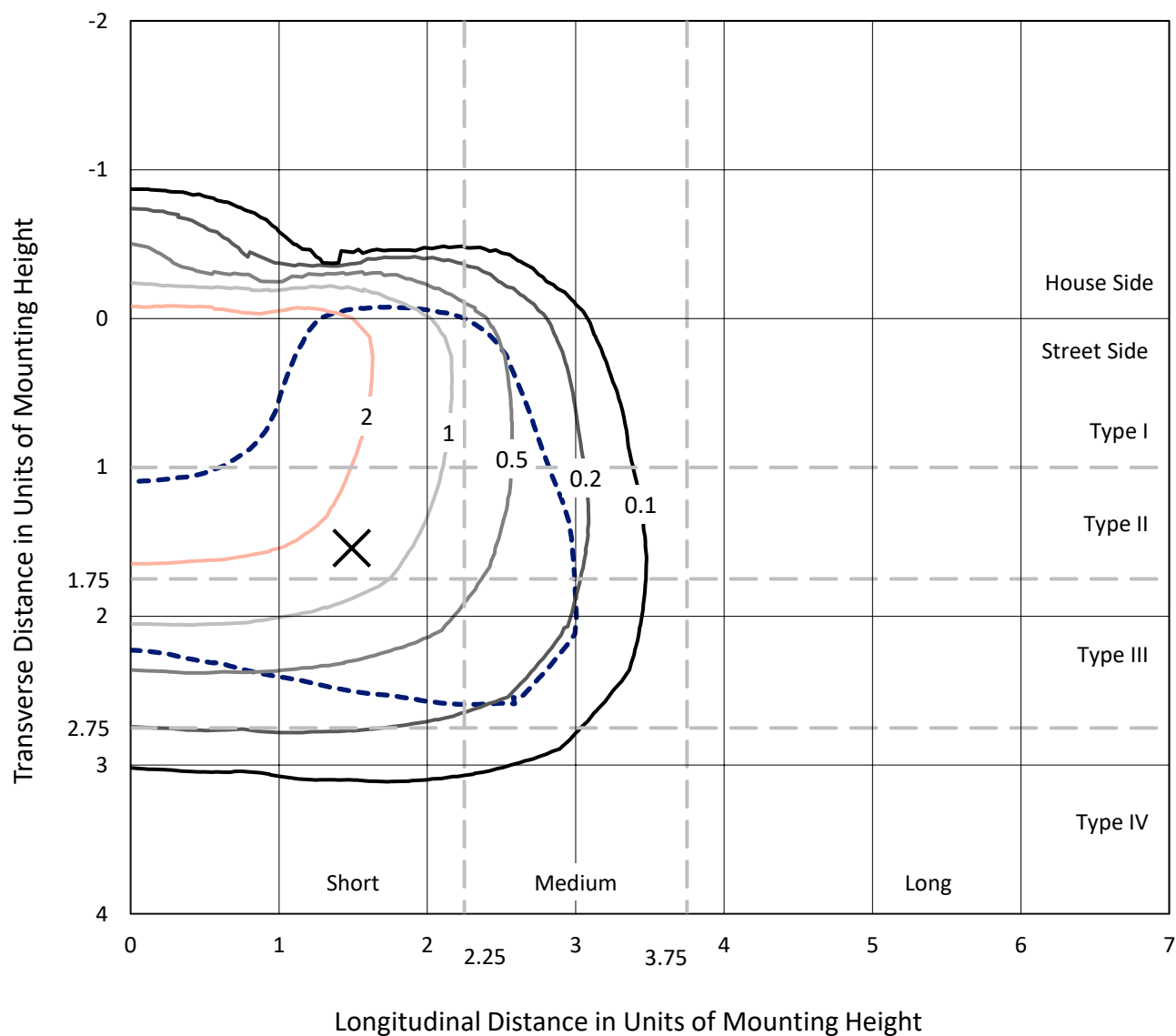
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

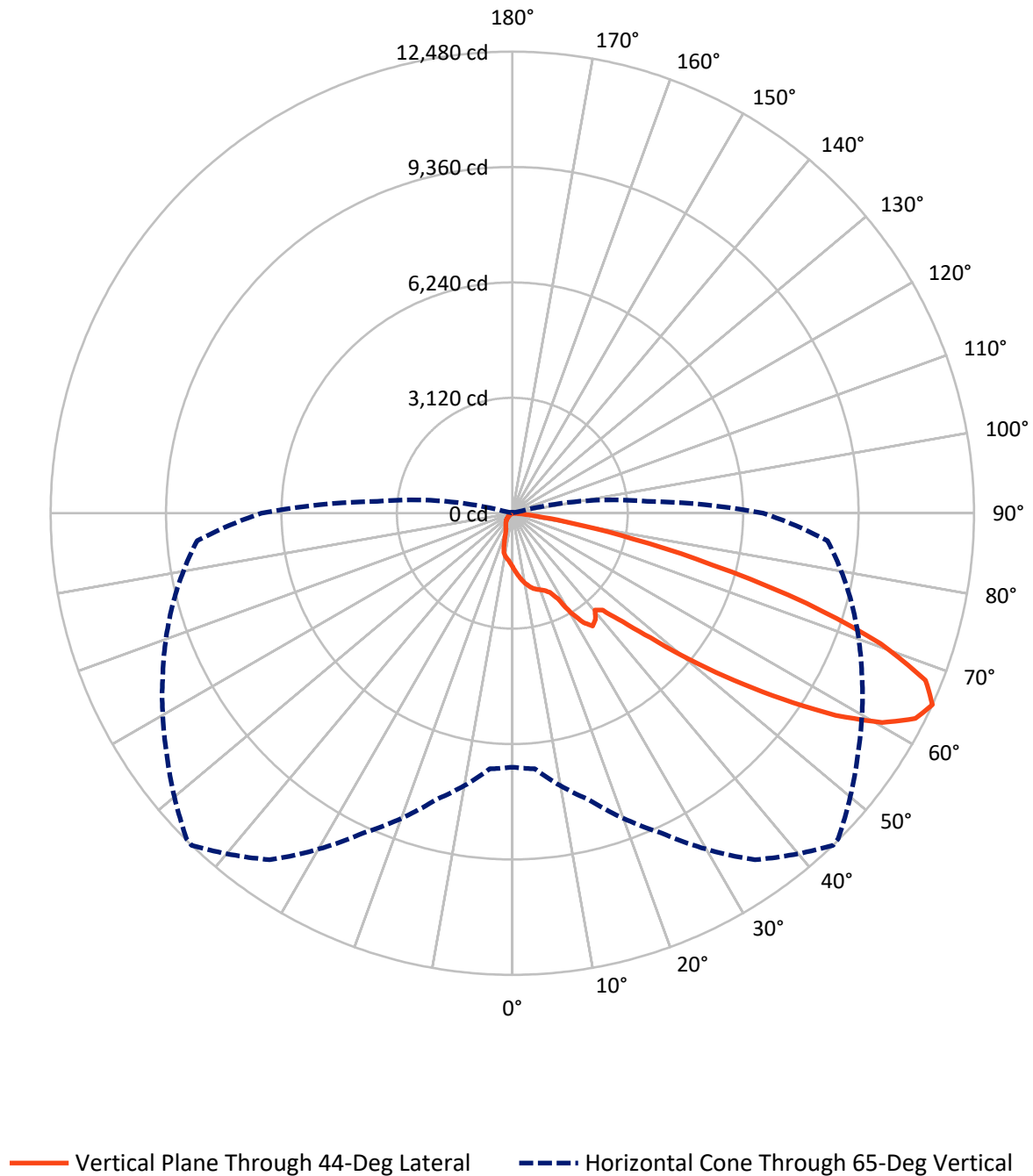
--- 1/2 Max cd



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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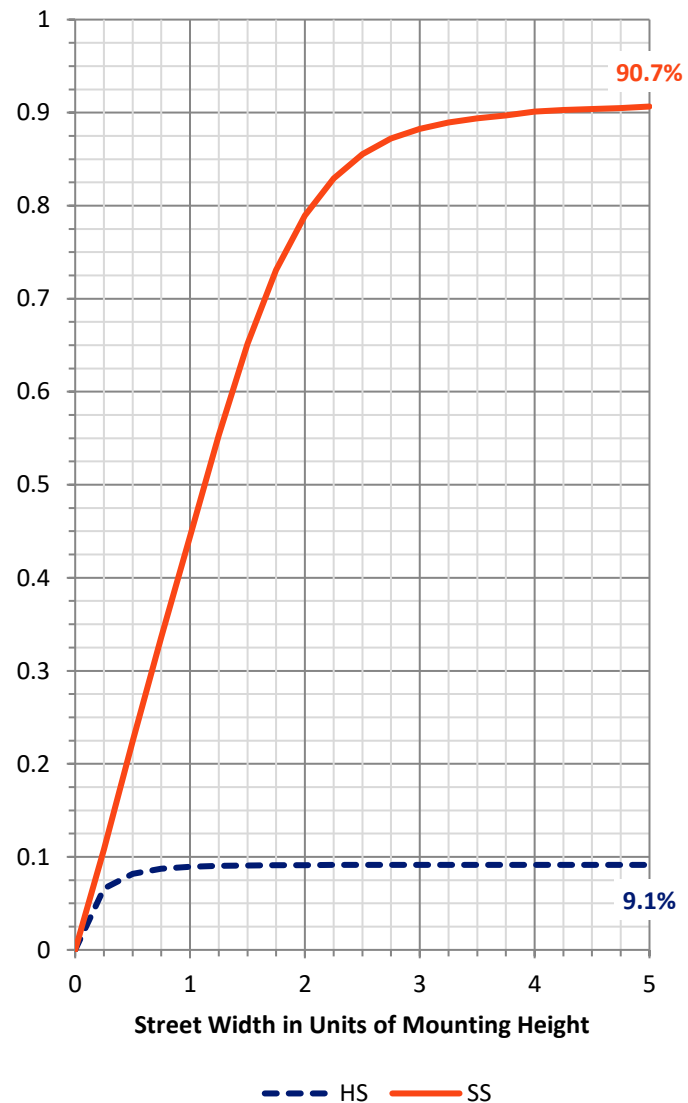
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.3	0.0	1436.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14152.7	0.0	14152.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	15589.0	0.0	15589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	0.9
10°-20°	434.3	2.8
20°-30°	736.4	4.7
30°-40°	1224.4	7.9
40°-50°	2137.9	13.7
50°-60°	4176.7	26.8
60°-70°	4845.9	31.1
70°-80°	1764.7	11.3
80°-90°	124.3	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°	15589.0	100.0
0°-180°	15589.0	100.0

Coefficient of Utilization



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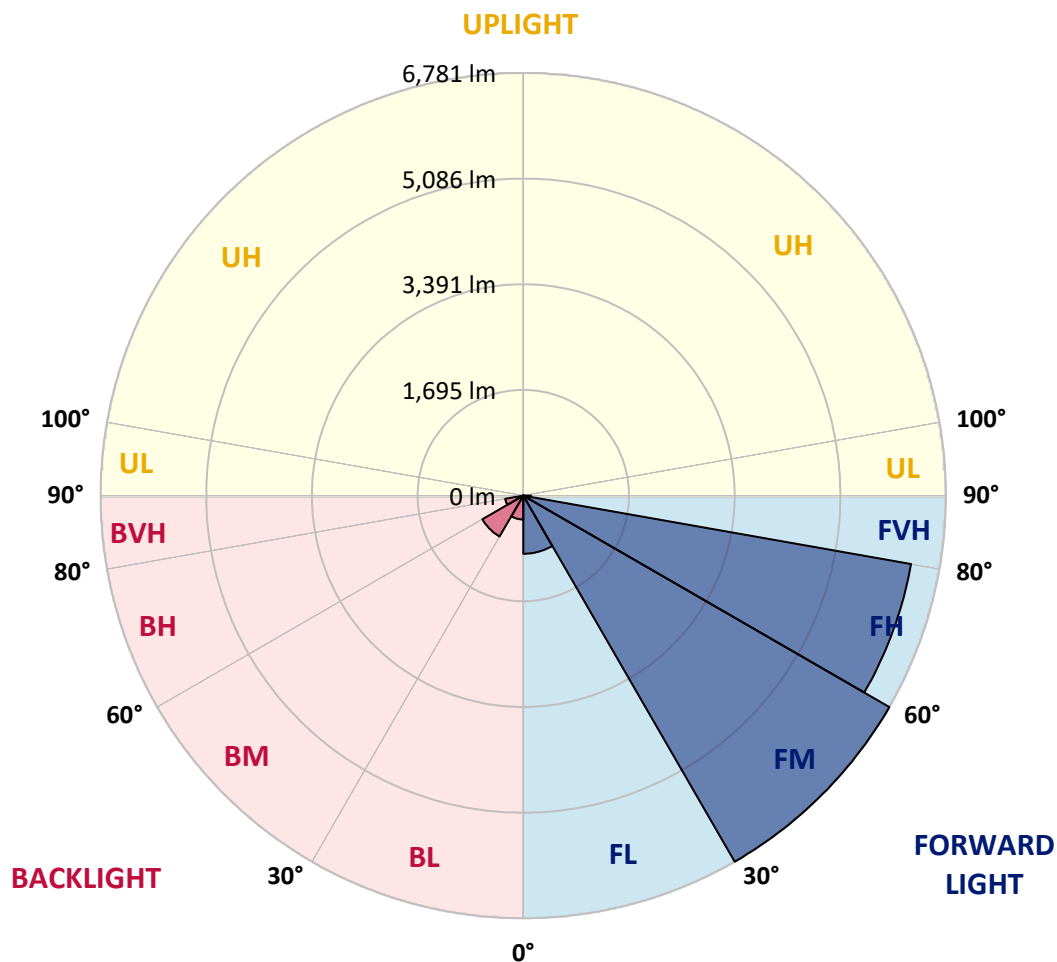
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.4	6.0			
FM	(30°-60°)	6781.2	43.5			
FH	(60°-80°)	6316.5	40.5			G3/7500
FVH	(80°-90°)	122.6	0.8			G2/225
BL	(0°-30°)	382.7	2.5	B1/500		
BM	(30°-60°)	757.8	4.9	B1/1000		
BH	(60°-80°)	294.1	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°	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9
2.5°	1633.1	1626.0	1622.4	1603.3	1589.0	1571.2	1571.2	1548.5	1522.3	1493.8	1467.5
5°	1815.4	1803.5	1788.0	1771.3	1737.9	1690.3	1690.3	1642.7	1587.9	1539.0	1485.4
7.5°	1990.5	1979.8	1953.6	1921.4	1866.6	1816.6	1813.0	1743.9	1678.4	1604.5	1528.3
10°	2144.1	2135.8	2113.2	2051.2	1994.1	1928.5	1927.3	1849.9	1773.7	1683.2	1589.0
12.5°	2251.4	2252.5	2222.8	2163.2	2089.3	2027.4	2022.6	1946.4	1866.6	1768.9	1653.4
15°	2327.6	2327.6	2296.6	2229.9	2163.2	2108.4	2103.6	2036.9	1954.7	1848.7	1723.7
17.5°	2349.0	2356.2	2322.8	2263.3	2209.7	2162.0	2160.8	2104.8	2039.3	1936.9	1795.1
20°	2340.7	2347.8	2321.6	2275.2	2238.2	2210.9	2207.3	2184.6	2123.9	2027.4	1871.4
22.5°	2322.8	2330.0	2310.9	2283.5	2265.6	2274.0	2268.0	2287.1	2254.9	2138.2	1961.9
25°	2326.4	2333.5	2319.2	2303.8	2319.2	2370.5	2386.0	2468.1	2439.6	2278.7	2059.6
27.5°	2438.4	2452.7	2432.4	2439.6	2494.4	2613.5	2643.3	2785.0	2658.7	2457.4	2212.0
30°	2687.3	2677.8	2639.7	2674.2	2864.8	3117.3	3109.0	3086.4	2888.6	2663.5	2393.1
32.5°	2913.7	2905.3	2902.9	3051.8	3397.3	3520.0	3514.0	3294.8	3094.7	2899.4	2571.8
35°	3005.4	2973.2	2966.1	3327.0	3904.7	3742.7	3705.8	3380.6	3344.9	3156.7	2754.0
37.5°	3281.7	3259.1	3148.3	3372.3	3702.2	3648.6	3620.0	3528.3	3611.7	3384.2	2960.1
40°	3851.1	3788.0	3687.9	3468.7	3415.1	3437.8	3466.4	3717.7	3927.4	3695.1	3235.3
42.5°	4558.7	4544.4	4358.6	3950.0	3548.6	3579.5	3616.5	4113.2	4381.2	4163.2	3684.4
45°	5408.0	5428.3	5160.2	4677.8	4151.3	4177.5	4231.1	4696.9	4995.9	4891.0	4390.7
47.5°	6179.9	6164.4	6073.9	5572.4	5086.4	5028.0	5115.0	5446.1	5846.4	5863.0	5267.4
50°	6956.6	7038.7	6904.1	6707.6	6346.7	6224.0	6191.8	6353.8	6963.7	6883.9	6320.5
52.5°	8072.7	8115.6	7863.1	7813.0	7895.2	7497.4	7465.2	7504.5	8050.1	7776.1	7109.0
55°	8774.3	8749.3	8655.2	9045.9	9371.1	8874.4	8833.9	8675.4	8951.8	8406.2	7867.8
57.5°	8995.9	9031.6	9250.8	9957.2	10726.7	10305.0	10231.1	9780.9	9602.2	8993.5	8565.9
60°	8897.0	8962.5	9435.4	10486.1	11553.4	11490.2	11427.1	10670.7	10069.1	9484.3	9055.4
62.5°	8193.0	8284.7	9041.1	10392.0	11833.3	12227.6	12149.0	11225.8	10380.0	9722.5	9141.2
65°	6866.0	6933.9	8020.3	9537.9	11435.4	12480.1	12451.5	11399.7	10428.9	9504.5	8553.9
67.5°	4894.6	5125.7	6132.3	8038.2	10258.5	12048.9	12097.7	11191.2	9970.3	8562.3	7084.0
70°	3076.8	3234.1	3955.9	5754.6	8224.0	10570.6	10731.4	10237.1	8652.8	6674.2	4742.1
72.5°	1467.5	1584.3	2098.9	3642.7	5804.7	8316.9	8444.4	8403.9	6690.9	4204.9	2446.7
75°	654.0	698.0	1001.8	1859.4	3747.5	5590.3	5920.2	5975.0	4181.1	2057.2	951.8
77.5°	333.5	334.7	469.3	900.5	1871.4	3335.3	3400.9	3592.6	2266.8	906.5	331.2
80°	177.5	189.4	249.0	425.3	970.8	1642.7	1634.3	1796.3	1005.4	444.3	110.8
82.5°	79.8	88.1	140.6	222.8	474.1	623.0	671.8	735.0	431.2	283.5	48.8
85°	23.8	28.6	69.1	112.0	171.5	179.9	201.3	259.7	244.2	201.3	25.0
87.5°	3.6	3.6	28.6	31.0	25.0	32.2	33.4	36.9	78.6	73.9	13.1
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°	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9	1450.9
2.5°	1453.3	1444.9	1415.1	1390.1	1368.7	1355.6	1340.1	1330.6	1325.8	1322.2	1323.4
5°	1459.2	1439.0	1387.7	1347.2	1316.3	1282.9	1260.3	1247.2	1241.2	1231.7	1231.7
7.5°	1492.6	1460.4	1388.9	1327.0	1273.4	1228.1	1185.2	1169.7	1159.0	1156.6	1154.3
10°	1540.2	1499.7	1402.0	1316.3	1240.0	1178.1	1117.3	1063.7	1022.0	997.0	993.5
12.5°	1599.8	1541.4	1422.3	1309.1	1211.4	1101.9	941.0	832.6	760.0	737.3	740.9
15°	1654.6	1591.4	1442.5	1303.2	1159.0	913.6	731.4	607.5	570.6	567.0	568.2
17.5°	1720.1	1645.0	1466.4	1294.8	1014.9	698.0	543.2	509.8	517.0	528.9	527.7
20°	1788.0	1702.2	1494.9	1244.8	810.0	525.3	480.1	483.6	494.3	505.1	507.4
22.5°	1860.6	1767.7	1528.3	1124.5	618.2	457.4	455.0	459.8	470.5	482.4	484.8
25°	1960.7	1849.9	1553.3	967.2	468.1	422.9	427.6	436.0	445.5	458.6	461.0
27.5°	2089.3	1960.7	1566.4	762.4	405.0	391.9	393.1	405.0	416.9	428.8	428.8
30°	2256.1	2092.9	1540.2	576.5	374.0	362.1	357.4	364.5	380.0	391.9	393.1
32.5°	2405.0	2218.0	1471.1	440.7	351.4	334.7	322.8	324.0	330.0	337.1	338.3
35°	2553.9	2339.5	1353.2	370.5	327.6	308.5	290.7	281.1	276.4	272.8	276.4
37.5°	2744.5	2490.8	1196.0	337.1	307.3	283.5	258.5	238.2	221.6	210.8	213.2
40°	2989.9	2700.4	1010.1	315.7	288.3	259.7	226.3	200.1	171.5	162.0	157.2
42.5°	3394.9	3018.5	814.8	297.8	269.2	234.7	193.0	157.2	131.0	121.5	123.9
45°	4034.6	3419.9	627.8	278.7	250.2	207.3	162.0	123.9	102.4	97.7	100.1
47.5°	4882.7	3939.3	483.6	257.3	226.3	177.5	127.5	97.7	84.6	83.4	82.2
50°	5680.8	4422.9	403.8	233.5	197.7	147.7	104.8	82.2	73.9	72.7	72.7
52.5°	6402.7	4769.5	328.8	206.1	166.8	121.5	88.1	72.7	65.5	61.9	61.9
55°	7044.7	4995.9	266.8	172.7	131.0	96.5	76.2	65.5	57.2	52.4	51.2
57.5°	7529.5	5023.3	200.1	138.2	97.7	75.0	65.5	57.2	47.6	41.7	39.3
60°	7736.8	4786.2	147.7	104.8	72.7	59.6	52.4	46.5	35.7	29.8	28.6
62.5°	7528.3	4325.2	109.6	79.8	56.0	44.1	36.9	34.5	25.0	17.9	16.7
65°	6781.5	3659.3	87.0	60.8	41.7	32.2	23.8	22.6	15.5	8.3	7.1
67.5°	5433.0	2866.0	69.1	45.3	29.8	21.4	15.5	14.3	8.3	2.4	2.4
70°	3533.1	1832.1	56.0	33.4	19.1	14.3	9.5	7.1	4.8	1.2	0.0
72.5°	1747.5	856.5	45.3	26.2	13.1	7.1	3.6	2.4	3.6	0.0	0.0
75°	677.8	304.9	33.4	17.9	7.1	3.6	2.4	0.0	1.2	0.0	0.0
77.5°	225.1	101.3	20.3	9.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0
80°	83.4	39.3	10.7	6.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	33.4	15.5	7.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.7	9.5	4.8	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	7.1	4.8	3.6	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)