

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: P455029

Luminaire Tested: **GALN-SA6A-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15517 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

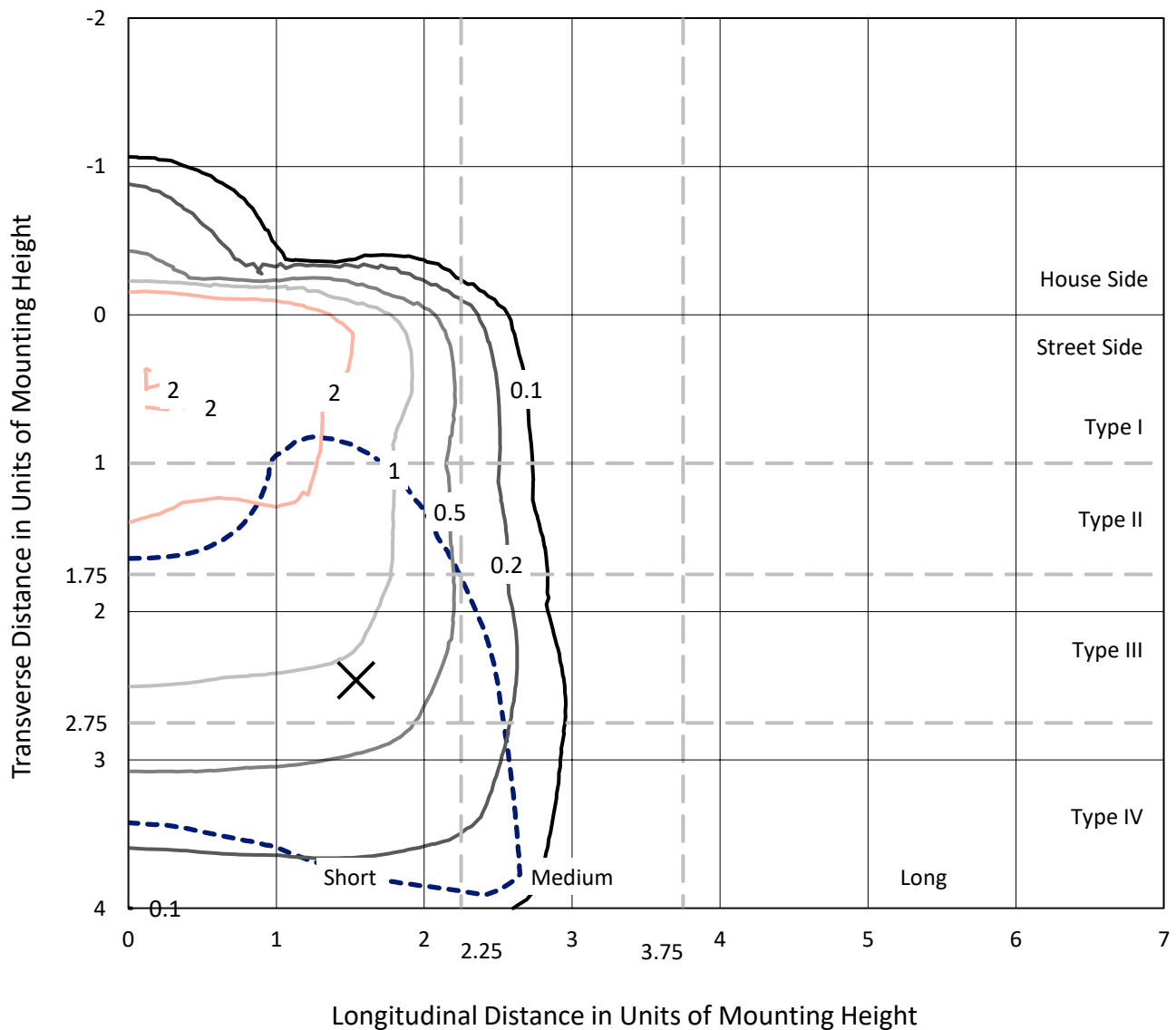


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Iso-Footcandle Lines of Horizontal Illumination

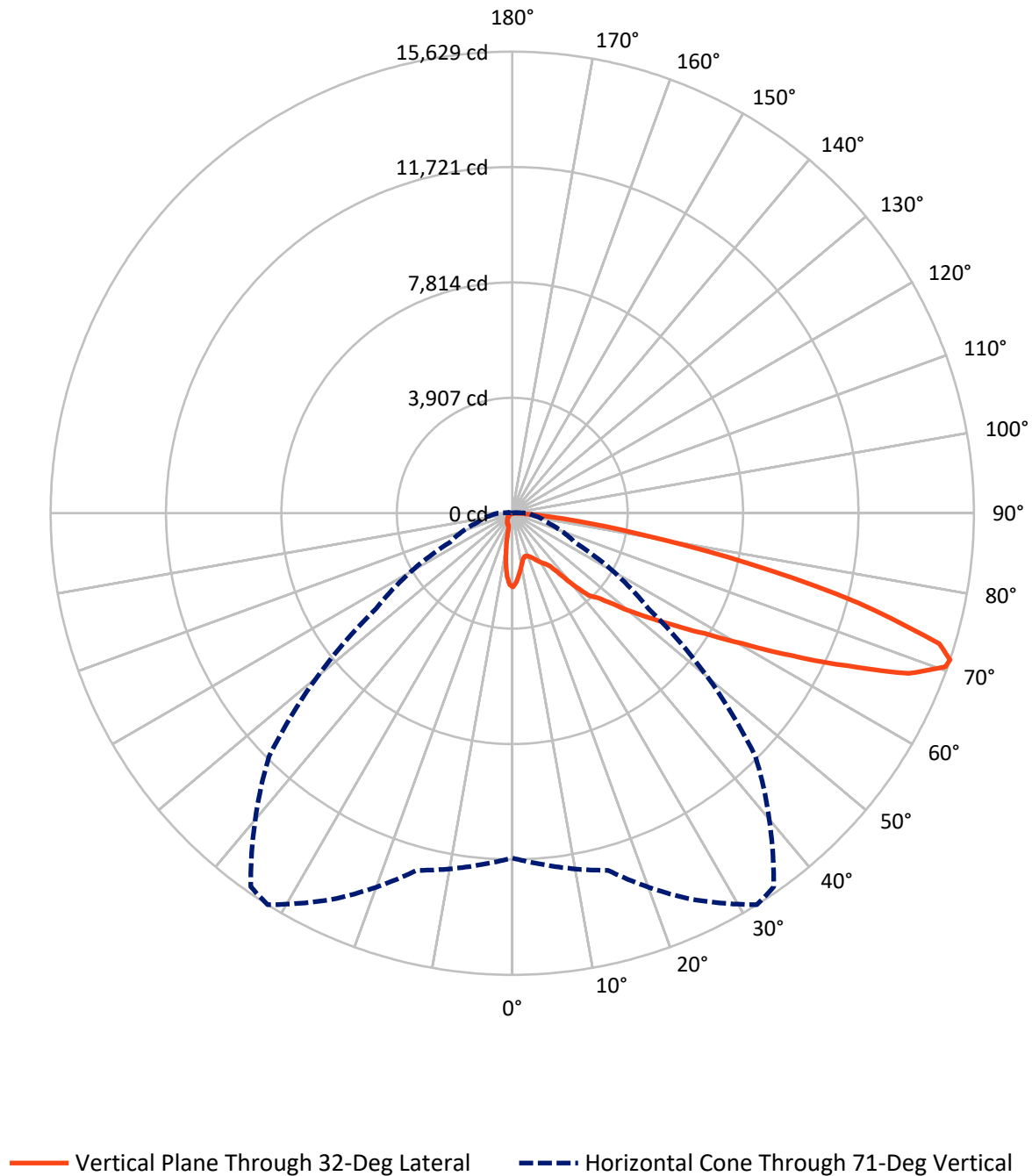
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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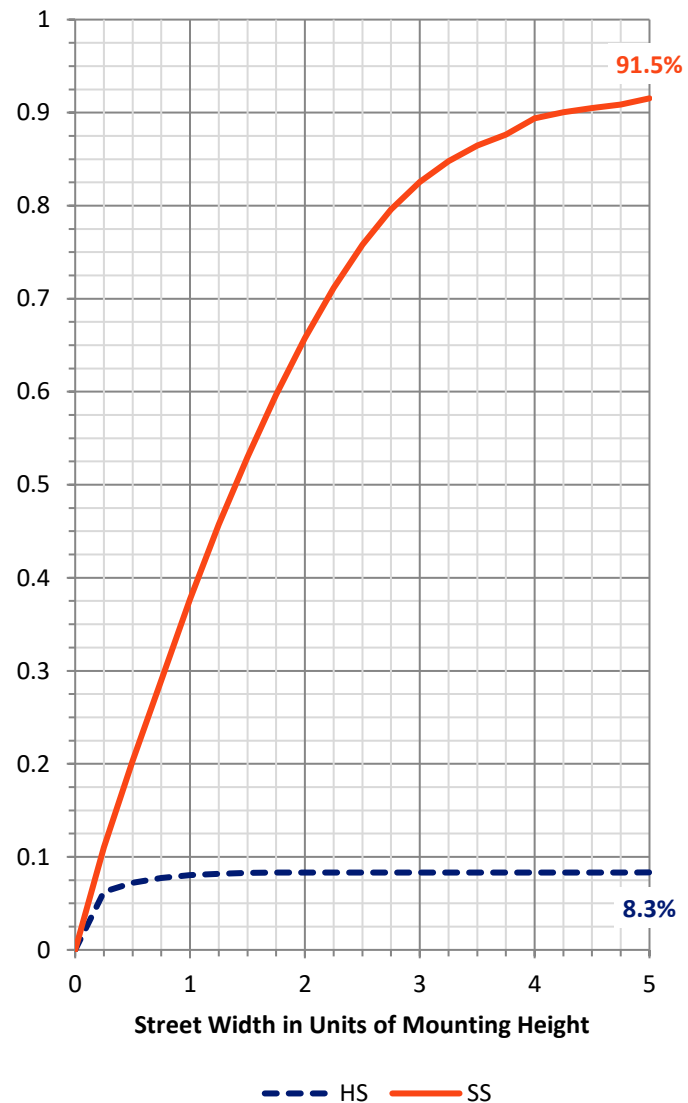
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1299.7	0.0	1299.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14217.3	0.0	14217.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	15517.0	0.0	15517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	1.3
10°-20°	440.4	2.8
20°-30°	685.1	4.4
30°-40°	1141.4	7.4
40°-50°	2123.1	13.7
50°-60°	3408.7	22.0
60°-70°	4584.9	29.5
70°-80°	2720.3	17.5
80°-90°	210.3	1.4
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°	15517.0	100.0
0°-180°	15517.0	100.0

Coefficient of Utilization



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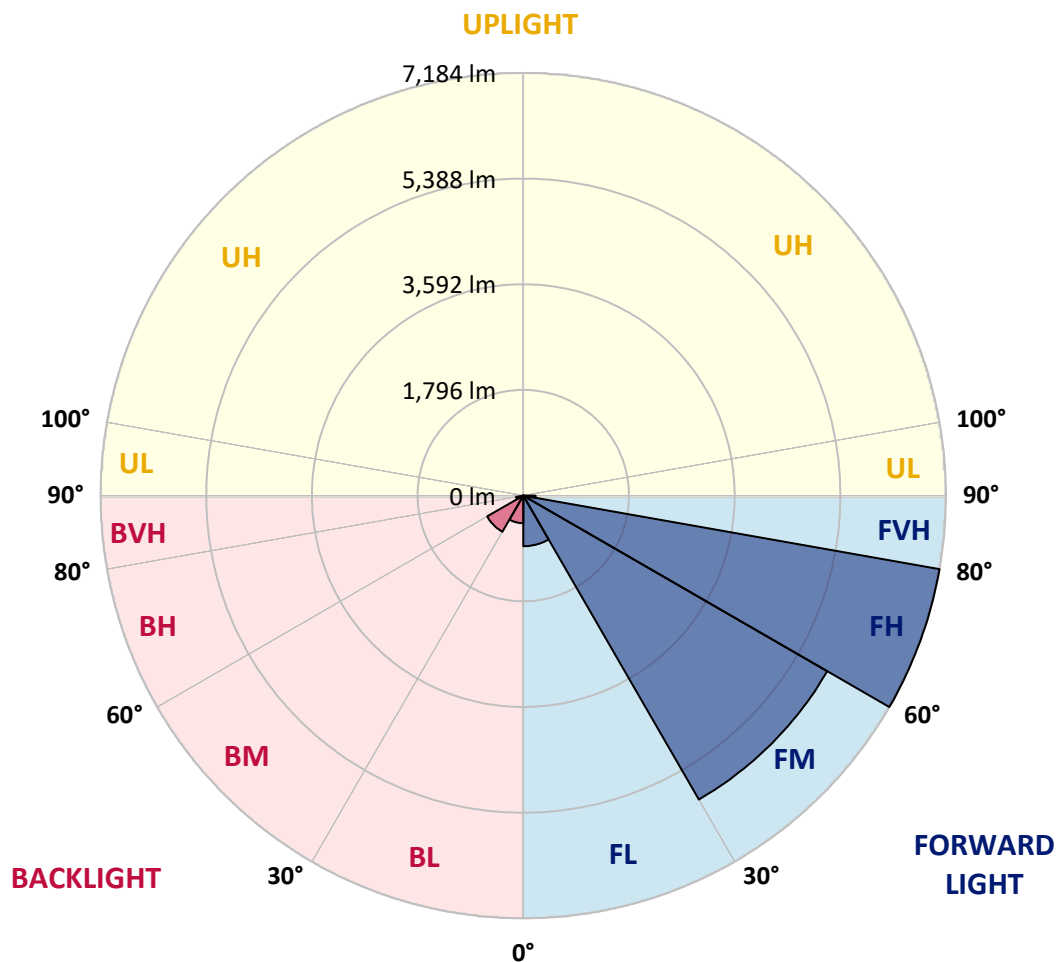
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.1	5.5			
FM	(30°-60°)	5964.2	38.4			
FH	(60°-80°)	7183.6	46.3			G3/7500
FVH	(80°-90°)	209.5	1.3			G2/225
BL	(0°-30°)	468.3	3.0	B1/500		
BM	(30°-60°)	709.0	4.6	B1/1000		
BH	(60°-80°)	121.6	0.8	B1/500		G1/500
BVH	(80°-90°)	0.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2.5°	2314.3	2338.1	2334.6	2342.9	2363.2	2371.5	2394.1	2419.1	2453.7	2477.5	2493.0
5°	2072.5	2090.4	2092.8	2134.5	2154.7	2177.3	2244.1	2316.7	2397.7	2462.0	2504.9
7.5°	1814.1	1823.6	1842.6	1897.4	1948.7	1971.3	2072.5	2198.8	2326.2	2446.5	2524.0
10°	1600.9	1611.6	1646.1	1704.5	1752.1	1781.9	1922.5	2080.9	2259.5	2438.2	2551.4
12.5°	1479.4	1485.3	1498.4	1550.8	1611.6	1643.7	1795.0	1976.1	2205.9	2441.8	2597.8
15°	1471.0	1468.6	1453.2	1474.6	1529.4	1562.7	1710.4	1904.6	2158.3	2453.7	2652.6
17.5°	1515.1	1509.1	1472.2	1472.2	1517.5	1544.9	1674.7	1866.5	2134.5	2481.1	2730.0
20°	1583.0	1573.5	1512.7	1507.9	1552.0	1580.6	1696.1	1868.9	2139.2	2532.3	2833.7
22.5°	1668.7	1658.0	1566.3	1568.7	1616.3	1644.9	1758.1	1911.7	2169.0	2595.4	2944.4
25°	1780.7	1768.8	1660.4	1655.6	1705.7	1730.7	1849.8	1988.0	2210.7	2674.0	3089.7
27.5°	1929.6	1904.6	1774.8	1767.6	1821.2	1853.4	1960.6	2090.4	2284.5	2782.4	3285.1
30°	2052.3	2024.9	1901.0	1882.0	1939.1	1964.1	2074.9	2228.6	2429.9	2971.8	3555.5
32.5°	2213.1	2172.6	2027.3	1977.2	2038.0	2070.1	2240.5	2485.8	2645.5	3171.9	3877.1
35°	2575.2	2550.2	2372.7	2197.6	2194.0	2234.5	2484.7	2745.5	2867.0	3484.0	4315.4
37.5°	3093.3	3075.4	2887.3	2652.6	2584.7	2565.7	2781.2	3031.4	3220.8	3912.8	4825.2
40°	3694.8	3653.1	3480.4	3281.5	3193.4	3137.4	3131.4	3456.6	3682.9	4495.3	5356.4
42.5°	4126.0	4049.8	3840.1	3825.8	3806.8	3748.4	3579.3	4078.4	4279.7	5121.8	5924.6
45°	4578.6	4463.1	4151.0	4097.4	4090.3	4086.7	4255.8	4814.5	4930.0	5800.7	6508.2
47.5°	4930.0	4838.3	4582.2	4558.4	4588.2	4669.2	5150.4	5595.8	5572.0	6405.8	6997.8
50°	5398.1	5329.0	5044.4	5089.6	5243.3	5375.5	6159.2	6447.5	6099.7	6882.2	7353.9
52.5°	5950.8	5823.3	5558.9	5681.6	5917.4	6137.8	7230.0	7193.1	6470.1	7240.8	7619.5
55°	6429.6	6339.1	6248.6	6376.0	6728.6	7003.7	8197.2	7751.7	6739.3	7529.0	7736.3
57.5°	7239.6	7218.1	7125.2	7255.1	7682.7	7968.5	9063.2	8185.3	6912.0	7679.1	7599.3
60°	8437.8	8403.3	8230.6	8396.1	8953.6	9402.6	9861.2	8574.8	6951.3	7620.7	7205.0
62.5°	9879.1	9761.1	9613.5	9857.6	10622.3	10820.0	10612.8	8805.9	6804.8	7156.2	6254.5
65°	11225.0	11103.5	11107.1	11621.7	12454.2	12588.8	11489.4	8771.3	6376.0	5992.5	4613.2
67.5°	12255.3	12235.1	12380.4	13384.5	14473.2	14380.3	12273.2	8254.4	5105.1	3884.2	2451.3
70°	12307.7	12347.0	12763.9	14458.9	15564.2	15416.5	12206.5	6709.5	3182.6	1786.7	966.0
71°	11674.1	11938.5	12515.0	14425.5	15628.6	15436.8	11644.3	5619.7	2334.6	1245.9	696.8
72.5°	9948.2	10087.5	11333.4	13576.3	15120.0	14710.2	10218.5	3939.0	1494.8	762.3	400.2
75°	5479.1	5822.1	7589.8	10650.9	12093.3	11733.6	6659.5	1871.2	745.6	416.9	165.6
77.5°	2608.5	2541.8	3703.2	6334.3	8199.6	8180.5	3355.4	831.4	434.8	282.3	83.4
80°	745.6	838.5	1417.4	3011.1	4552.4	4602.5	1288.8	401.4	301.4	220.4	42.9
82.5°	225.1	229.9	520.5	1331.7	2264.3	2134.5	483.6	204.9	216.8	175.1	25.0
85°	39.3	48.8	153.7	469.3	863.6	655.1	121.5	97.7	142.9	115.5	14.3
87.5°	2.4	3.6	51.2	53.6	76.2	44.1	21.4	14.3	31.0	31.0	8.3
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°	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4	2495.4
2.5°	2503.7	2510.9	2506.1	2495.4	2477.5	2456.1	2427.5	2403.7	2383.4	2372.7	2385.8
5°	2519.2	2528.7	2504.9	2451.3	2370.3	2282.2	2182.1	2104.7	2043.9	2024.9	2017.7
7.5°	2543.0	2549.0	2484.7	2365.5	2194.0	1985.6	1803.3	1649.7	1530.6	1494.8	1442.4
10°	2574.0	2570.4	2448.9	2227.4	1926.0	1612.8	1330.5	1120.8	962.4	905.2	900.5
12.5°	2621.6	2602.6	2403.7	2039.2	1606.8	1197.1	848.1	663.4	563.4	530.0	522.9
15°	2681.2	2635.9	2332.2	1818.8	1230.4	773.0	522.9	466.9	453.8	451.4	449.0
17.5°	2751.5	2680.0	2238.1	1548.4	864.7	501.5	437.1	435.9	437.1	434.8	433.6
20°	2846.8	2726.5	2126.1	1228.0	571.7	422.8	416.9	416.9	418.1	416.9	416.9
22.5°	2948.0	2781.2	1988.0	937.4	431.2	401.4	400.2	402.6	405.0	403.8	403.8
25°	3073.1	2852.7	1805.7	642.0	385.9	383.5	384.7	389.5	394.3	395.4	394.3
27.5°	3254.1	2940.9	1610.4	441.9	353.8	356.1	368.1	380.0	387.1	388.3	388.3
30°	3457.8	3038.5	1355.5	358.5	327.6	327.6	341.8	364.5	380.0	382.3	383.5
32.5°	3719.8	3151.7	1073.2	322.8	302.5	300.2	313.3	340.7	369.2	377.6	377.6
35°	4043.8	3285.1	798.0	300.2	284.7	278.7	285.9	308.5	345.4	369.2	371.6
37.5°	4423.8	3411.3	583.6	279.9	268.0	259.7	264.4	282.3	312.1	347.8	357.3
40°	4775.2	3523.3	435.9	263.2	251.3	245.4	248.9	257.3	282.3	315.6	321.6
42.5°	5158.7	3610.3	346.6	245.4	234.6	232.3	232.3	235.8	252.5	271.6	272.8
45°	5541.0	3641.2	290.6	223.9	216.8	219.2	218.0	215.6	222.7	220.4	220.4
47.5°	5813.8	3604.3	240.6	203.7	203.7	207.3	201.3	193.0	189.4	175.1	176.3
50°	6000.8	3469.7	197.7	179.9	189.4	194.2	182.2	169.1	156.0	140.6	137.0
52.5°	6078.2	3230.3	162.0	148.9	167.9	173.9	159.6	144.1	123.9	110.8	107.2
55°	6028.2	2934.9	134.6	121.5	141.7	148.9	134.6	116.7	94.1	79.8	77.4
57.5°	5807.9	2582.3	114.3	96.5	113.2	117.9	108.4	89.3	66.7	52.4	52.4
60°	5426.7	2217.8	92.9	76.2	84.6	91.7	82.2	64.3	45.3	32.2	29.8
62.5°	4653.7	1801.0	75.0	59.6	59.6	65.5	57.2	46.5	28.6	16.7	15.5
65°	3360.1	1235.2	59.6	44.1	42.9	42.9	35.7	31.0	16.7	7.1	4.8
67.5°	1826.0	696.8	47.6	33.4	29.8	28.6	22.6	17.9	7.1	1.2	0.0
70°	718.2	268.0	36.9	22.6	19.1	17.9	11.9	8.3	4.8	0.0	0.0
71°	487.2	184.6	32.2	19.1	15.5	13.1	9.5	7.1	3.6	0.0	0.0
72.5°	278.7	114.3	25.0	14.3	11.9	9.5	7.1	4.8	3.6	0.0	0.0
75°	121.5	58.4	15.5	10.7	8.3	6.0	4.8	3.6	1.2	0.0	0.0
77.5°	61.9	32.2	10.7	8.3	4.8	3.6	2.4	1.2	0.0	0.0	0.0
80°	34.5	16.7	7.1	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	19.1	9.5	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	2.4	0.0	0.0	0.0	0.0	1.2	1.2	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)