

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: P455953

Luminaire Tested: **GALN-SA7A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18583 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): 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

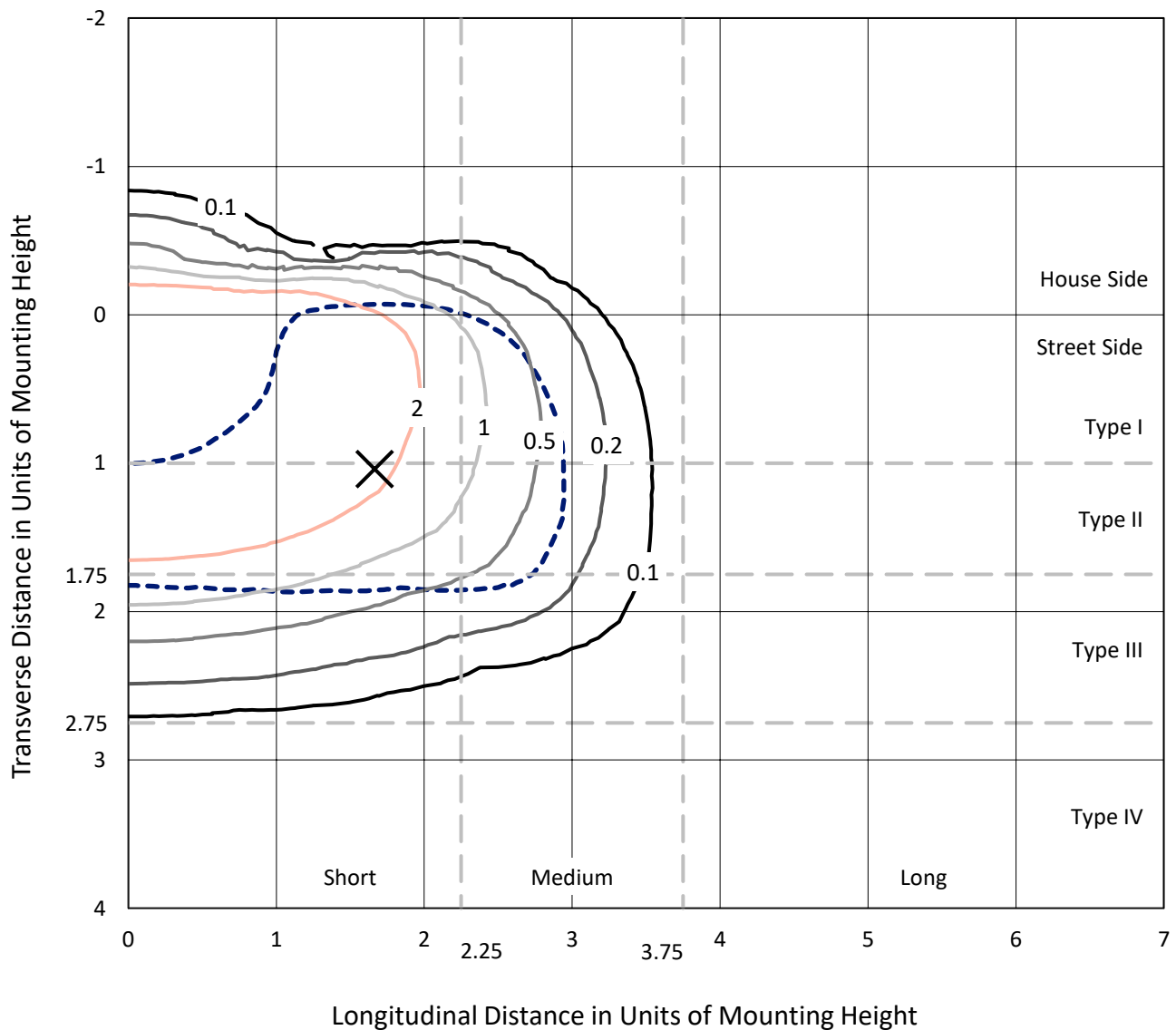


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

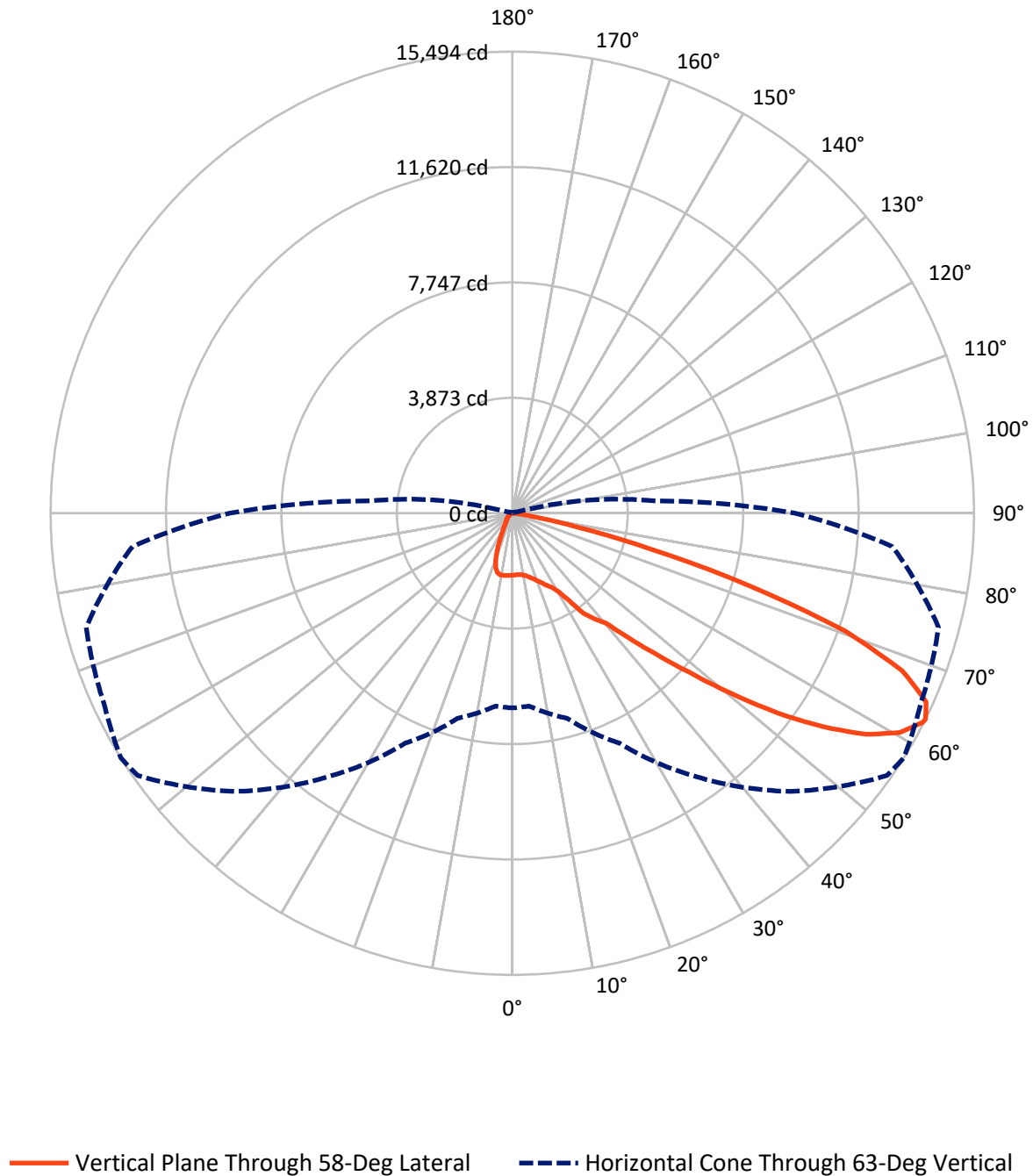


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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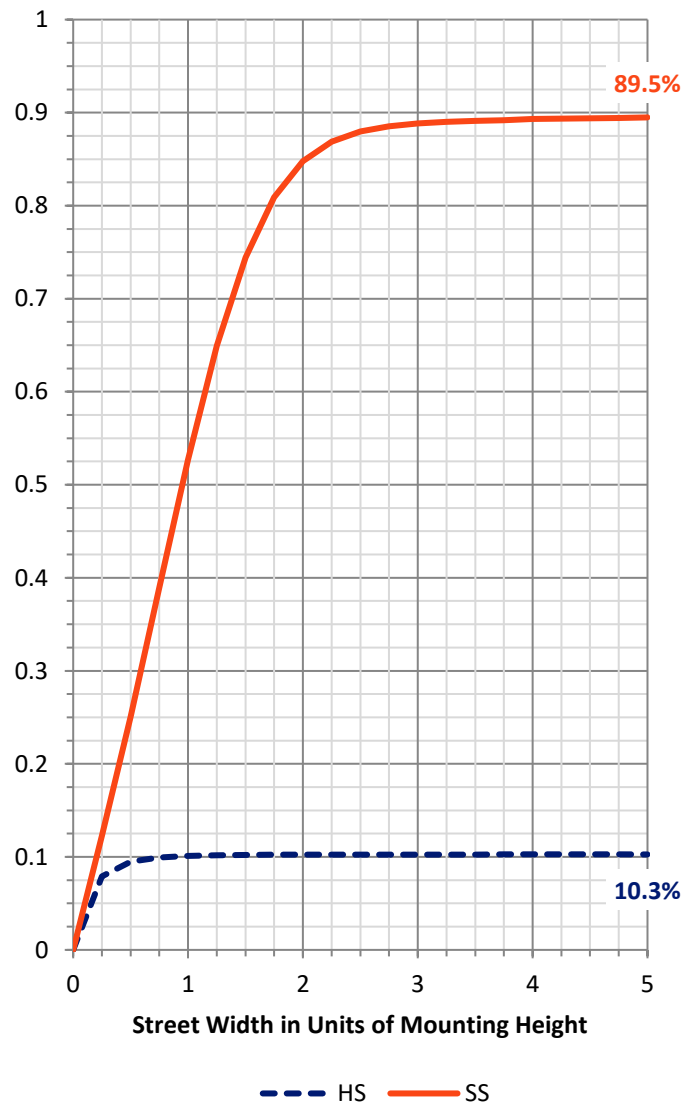
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.2	0.0	1924.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16658.8	0.0	16658.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	18583.0	0.0	18583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	1.0
10°-20°	530.5	2.9
20°-30°	920.6	5.0
30°-40°	1691.7	9.1
40°-50°	3184.7	17.1
50°-60°	5447.1	29.3
60°-70°	5215.6	28.1
70°-80°	1330.0	7.2
80°-90°	68.0	0.4
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°	18583.0	100.0
0°-180°	18583.0	100.0

Coefficient of Utilization



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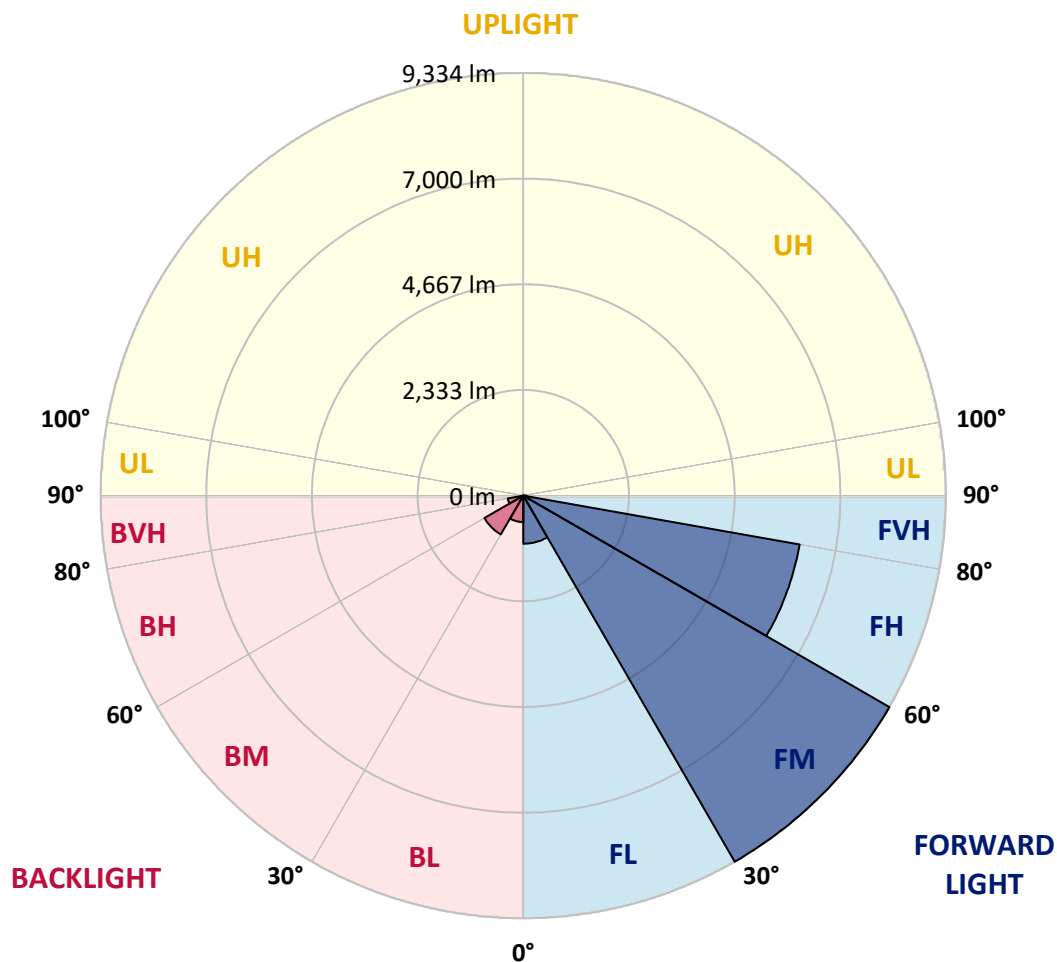
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1062.3	5.7			
FM	(30°-60°)	9333.9	50.2			
FH	(60°-80°)	6197.3	33.3			G3/7500
FVH	(80°-90°)	65.4	0.4			G1/100
BL	(0°-30°)	583.5	3.1	B2/1000		
BM	(30°-60°)	989.7	5.3	B1/1000		
BH	(60°-80°)	348.3	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4
2.5°	2028.7	2035.7	2042.7	2045.5	2055.3	2065.0	2072.0	2070.6	2081.8	2087.4	2087.4
5°	1947.5	1947.5	1965.7	1982.5	2010.5	2038.5	2065.0	2070.6	2091.6	2111.2	2118.2
7.5°	1879.0	1883.2	1897.2	1927.9	1965.7	2014.7	2067.8	2080.4	2116.8	2160.2	2178.4
10°	1846.8	1849.6	1867.8	1900.0	1947.5	2014.7	2088.8	2112.6	2168.6	2237.1	2262.3
12.5°	1839.8	1844.0	1862.2	1898.6	1953.1	2034.3	2135.0	2160.2	2241.3	2329.5	2367.3
15°	1852.4	1855.2	1873.4	1912.5	1972.7	2069.2	2196.6	2231.5	2328.1	2430.2	2479.2
17.5°	1897.2	1894.4	1907.0	1939.1	2006.3	2112.6	2270.7	2312.7	2426.0	2565.9	2598.1
20°	2087.4	2069.2	2058.1	2030.1	2056.7	2174.2	2360.3	2421.8	2561.7	2704.4	2726.8
22.5°	2497.4	2456.8	2377.0	2267.9	2184.0	2258.1	2468.0	2539.3	2719.8	2859.7	2859.7
25°	3019.2	2967.5	2887.7	2649.9	2444.2	2396.6	2589.7	2679.2	2891.9	3033.2	2987.0
27.5°	3672.6	3632.0	3476.7	3199.7	2884.9	2638.7	2731.0	2813.6	3044.4	3215.1	3118.6
30°	4204.2	4184.7	4057.3	3809.7	3462.7	3103.2	2994.0	3048.6	3247.3	3444.5	3345.2
32.5°	4653.4	4653.4	4523.2	4292.4	3967.8	3648.8	3440.3	3479.5	3669.8	3897.8	3713.2
35°	5147.2	5130.4	5025.5	4805.9	4442.1	4160.9	4075.5	4128.7	4300.8	4470.1	4015.4
37.5°	5666.3	5660.7	5551.6	5338.9	5042.3	4688.3	4488.3	4502.3	4590.4	4693.9	4369.3
40°	6230.1	6238.5	6095.8	5964.3	5684.5	5322.1	4938.8	4850.6	4933.2	5225.6	5022.7
42.5°	6896.1	6876.5	6814.9	6635.9	6410.6	6193.7	5733.4	5701.3	5774.0	6087.4	5867.8
45°	7669.8	7697.8	7591.4	7492.1	7341.0	7160.5	6775.8	6719.8	6799.6	7286.4	6974.4
47.5°	8444.9	8418.3	8486.8	8468.7	8549.8	8415.5	8075.5	7960.8	8152.5	8614.2	8155.3
50°	9035.3	9064.7	9207.4	9415.8	9764.2	9839.8	9513.8	9474.6	9559.9	9856.6	9211.6
52.5°	9418.6	9516.6	9740.4	10276.3	10904.5	11392.7	11145.1	11124.1	11089.1	11168.9	10221.7
55°	9669.1	9768.4	10060.8	10849.9	11931.4	12724.7	12737.3	12647.7	12416.9	12359.5	11166.1
57.5°	9515.2	9534.8	9951.7	11006.6	12500.8	13674.7	14086.0	13996.4	13569.7	13352.9	11999.9
60°	8552.6	8593.2	9173.8	10413.4	12253.2	13985.2	14980.0	14939.4	14472.1	14227.3	12649.1
62.5°	6847.1	6964.6	7562.1	8944.3	11101.7	13462.0	15342.4	15457.1	15093.3	14756.1	12853.4
63°	6533.7	6495.9	7126.9	8516.2	10796.7	13203.2	15348.0	15493.5	15121.3	14806.5	12797.4
65°	4836.6	4950.0	5359.9	6715.6	8984.9	11998.5	15002.4	15259.8	15017.8	14584.1	12177.6
67.5°	2715.6	2710.0	3163.3	4394.5	6288.9	9411.6	13565.5	14109.8	14059.4	13087.0	10094.4
70°	1329.1	1350.1	1536.2	2277.7	3647.4	6493.2	11272.4	11860.0	11878.2	10279.1	6980.0
72.5°	601.6	611.4	744.3	1109.5	1874.8	3457.1	7767.7	8328.8	8225.2	6550.5	3854.5
75°	317.6	338.6	409.9	558.2	903.8	1425.7	4225.2	4768.1	4551.2	2992.6	1418.7
77.5°	235.0	242.0	278.4	355.4	484.1	555.4	1823.0	2168.6	2031.5	1082.9	470.1
80°	172.1	177.7	207.1	251.8	305.0	282.6	687.0	787.7	706.5	368.0	144.1
82.5°	104.9	106.3	151.1	187.5	191.7	158.1	226.7	243.4	254.6	207.1	78.3
85°	37.8	47.6	102.1	135.7	113.3	79.7	95.1	104.9	114.7	131.5	46.2
87.5°	4.2	5.6	49.0	65.8	32.2	29.4	35.0	39.2	42.0	49.0	22.4
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°	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4
2.5°	2093.0	2098.6	2094.4	2087.4	2086.0	2081.8	2073.4	2073.4	2073.4	2076.2	2073.4
5°	2123.8	2128.0	2118.2	2104.2	2088.8	2069.2	2048.3	2035.7	2034.3	2031.5	2024.5
7.5°	2182.6	2188.2	2165.8	2132.2	2090.2	2042.7	1997.9	1955.9	1936.3	1920.9	1920.9
10°	2267.9	2273.5	2228.7	2168.6	2084.6	1988.1	1881.8	1785.2	1709.7	1674.7	1666.3
12.5°	2370.0	2372.8	2298.7	2193.8	2055.3	1869.2	1642.5	1431.3	1284.4	1217.2	1210.2
15°	2482.0	2462.4	2364.5	2203.6	1971.3	1624.3	1232.6	973.8	821.3	776.5	793.3
17.5°	2595.3	2558.9	2414.8	2188.2	1782.4	1232.6	828.3	664.6	617.0	604.4	604.4
20°	2701.6	2651.3	2451.2	2121.0	1455.0	849.2	614.2	575.0	566.6	558.2	559.6
22.5°	2808.0	2731.0	2483.4	1971.3	1084.3	607.2	549.8	537.2	526.1	514.9	513.5
25°	2911.5	2805.2	2496.0	1694.3	738.7	521.9	502.3	485.5	463.1	450.5	447.7
27.5°	3019.2	2894.7	2487.6	1344.5	538.6	467.3	447.7	423.9	397.3	375.0	375.0
30°	3226.3	3065.4	2458.2	966.8	453.3	411.3	386.1	348.4	319.0	296.6	295.2
32.5°	3508.9	3287.8	2357.5	680.0	402.9	362.4	324.6	282.6	251.8	235.0	235.0
35°	3760.7	3511.7	2168.6	500.9	362.4	314.8	268.6	228.1	204.3	193.1	188.9
37.5°	4144.1	3839.1	1908.4	407.1	323.2	272.8	225.3	187.5	167.9	159.5	159.5
40°	4719.1	4239.2	1589.4	356.8	285.4	232.2	187.5	158.1	142.7	132.9	132.9
42.5°	5432.6	4728.9	1266.2	320.4	250.4	200.1	156.7	134.3	120.3	113.3	111.9
45°	6330.9	5245.2	975.2	286.8	222.5	170.7	132.9	113.3	99.3	95.1	96.5
47.5°	7268.2	5699.9	755.5	257.4	193.1	144.1	113.3	97.9	88.1	82.5	82.5
50°	8068.5	6013.3	573.6	223.9	170.7	121.7	99.3	88.1	79.7	76.9	75.6
52.5°	8737.3	6104.2	439.3	194.5	149.7	104.9	88.1	79.7	72.8	68.6	68.6
55°	9306.7	6024.5	344.2	163.7	125.9	90.9	78.3	71.4	63.0	58.8	57.4
57.5°	9639.7	5768.4	263.0	135.7	102.1	75.6	68.6	60.2	50.4	43.4	43.4
60°	9807.6	5396.3	201.5	111.9	78.3	60.2	56.0	44.8	35.0	29.4	28.0
62.5°	9606.1	4902.4	152.5	88.1	58.8	44.8	37.8	32.2	22.4	16.8	16.8
63°	9481.6	4759.7	146.9	83.9	54.6	42.0	35.0	29.4	19.6	15.4	14.0
65°	8643.5	4137.1	120.3	67.2	43.4	29.4	23.8	21.0	14.0	7.0	5.6
67.5°	6863.9	3164.7	95.1	50.4	30.8	21.0	14.0	12.6	4.2	0.0	0.0
70°	4640.8	2044.1	74.2	36.4	21.0	12.6	7.0	5.6	1.4	0.0	0.0
72.5°	2420.4	1047.9	57.4	26.6	12.6	8.4	4.2	1.4	0.0	0.0	0.0
75°	856.2	356.8	42.0	16.8	8.4	4.2	1.4	0.0	0.0	0.0	0.0
77.5°	258.8	132.9	26.6	12.6	5.6	2.8	0.0	0.0	0.0	0.0	0.0
80°	90.9	49.0	15.4	8.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	44.8	23.8	9.8	7.0	4.2	1.4	0.0	0.0	0.0	0.0	0.0
85°	25.2	15.4	8.4	7.0	4.2	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	11.2	8.4	7.0	5.6	2.8	1.4	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)