

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: P452228

Luminaire Tested: **GALN-SA3A-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8974 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

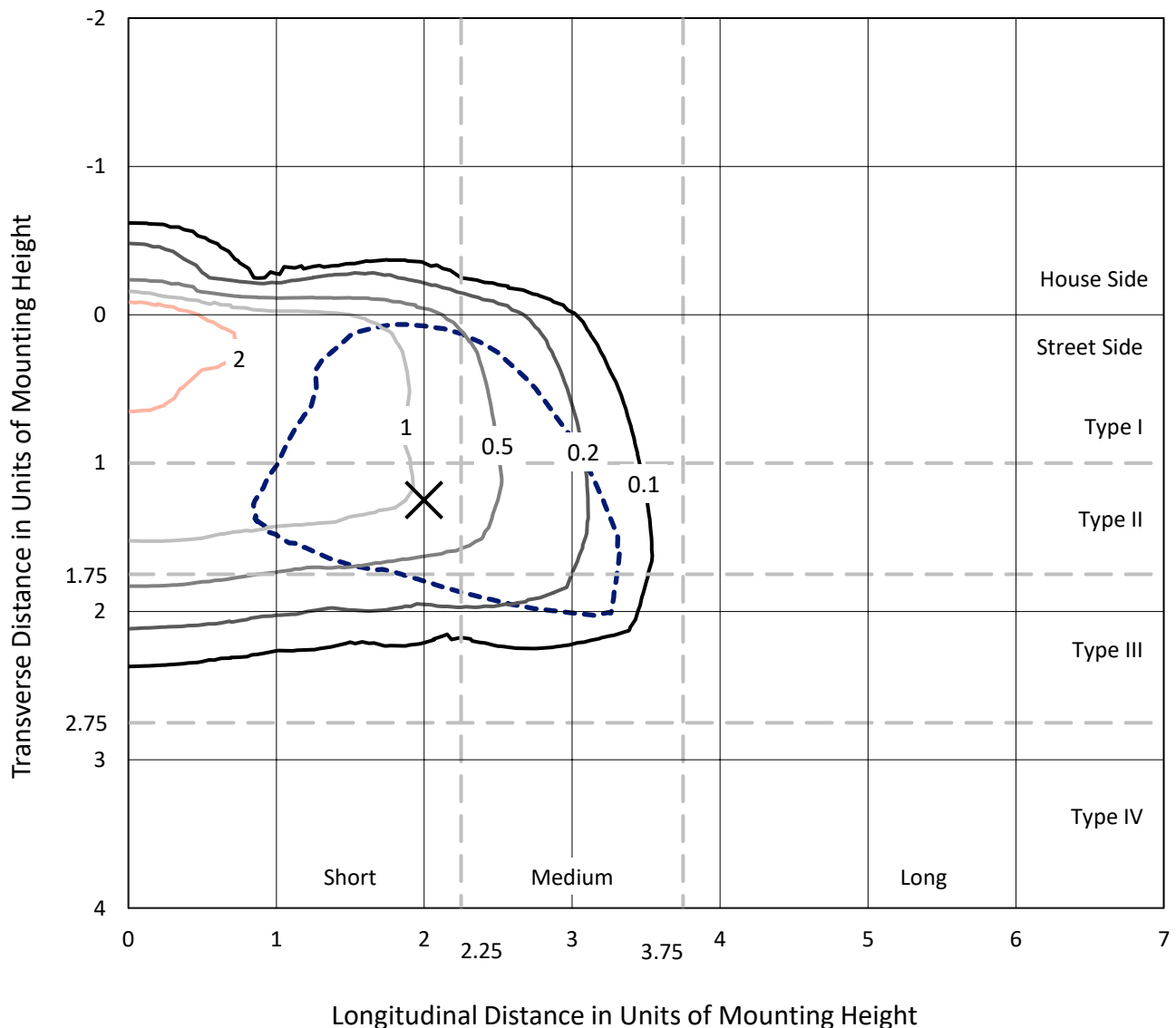


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Iso-Footcandle Lines of Horizontal Illumination

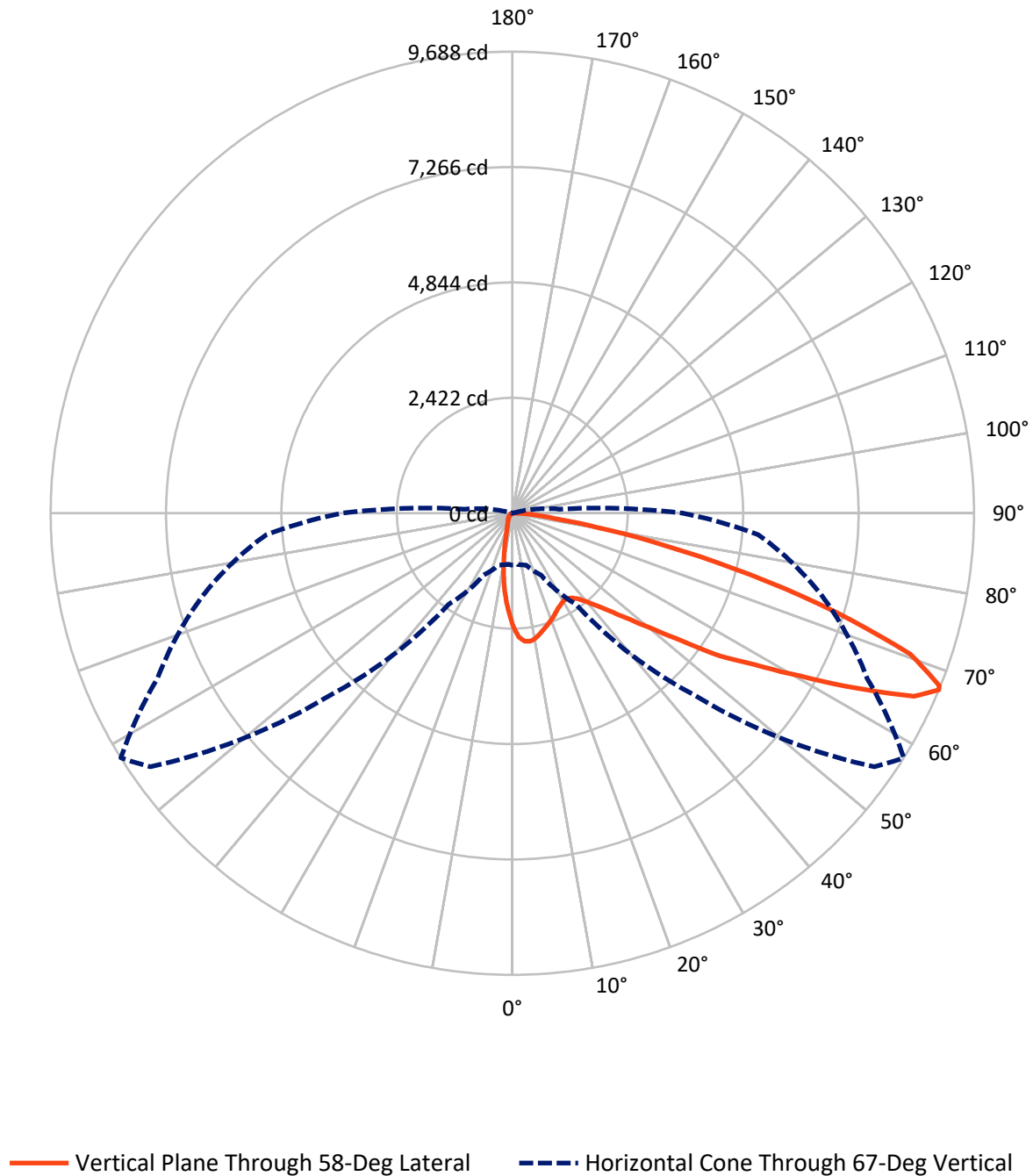
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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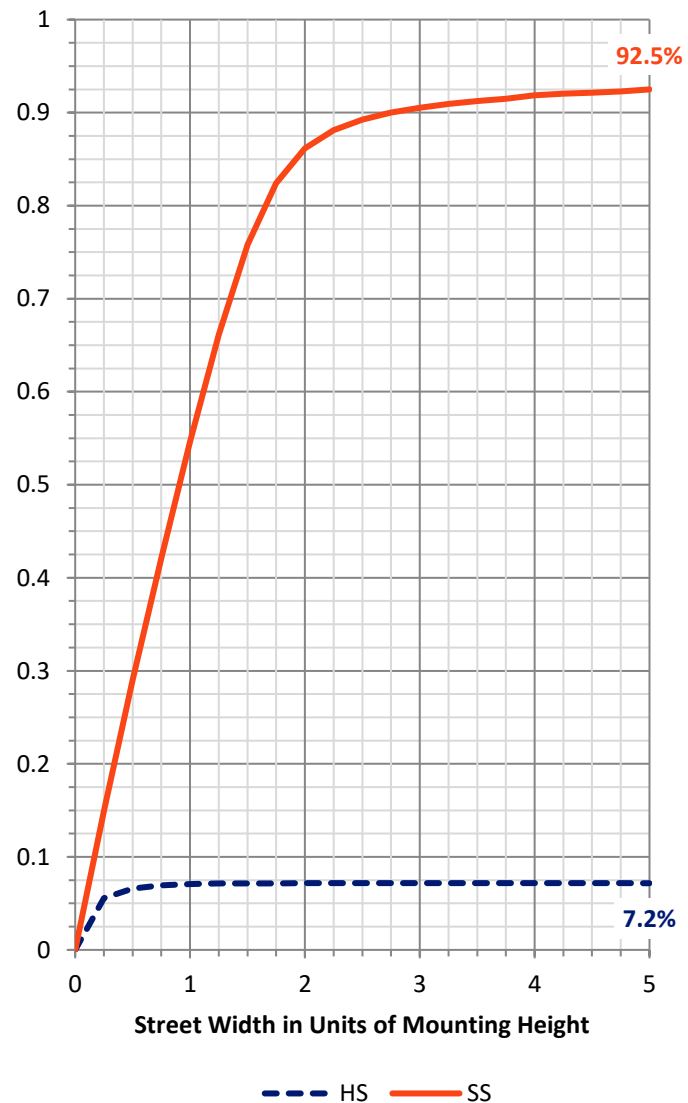
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.6	0.0	647.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8326.4	0.0	8326.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	8974.0	0.0	8974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	2.2
10°-20°	416.9	4.6
20°-30°	565.0	6.3
30°-40°	783.6	8.7
40°-50°	1249.7	13.9
50°-60°	2160.2	24.1
60°-70°	2467.7	27.5
70°-80°	1028.8	11.5
80°-90°	109.1	1.2
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°	8974.0	100.0
0°-180°	8974.0	100.0

Coefficient of Utilization



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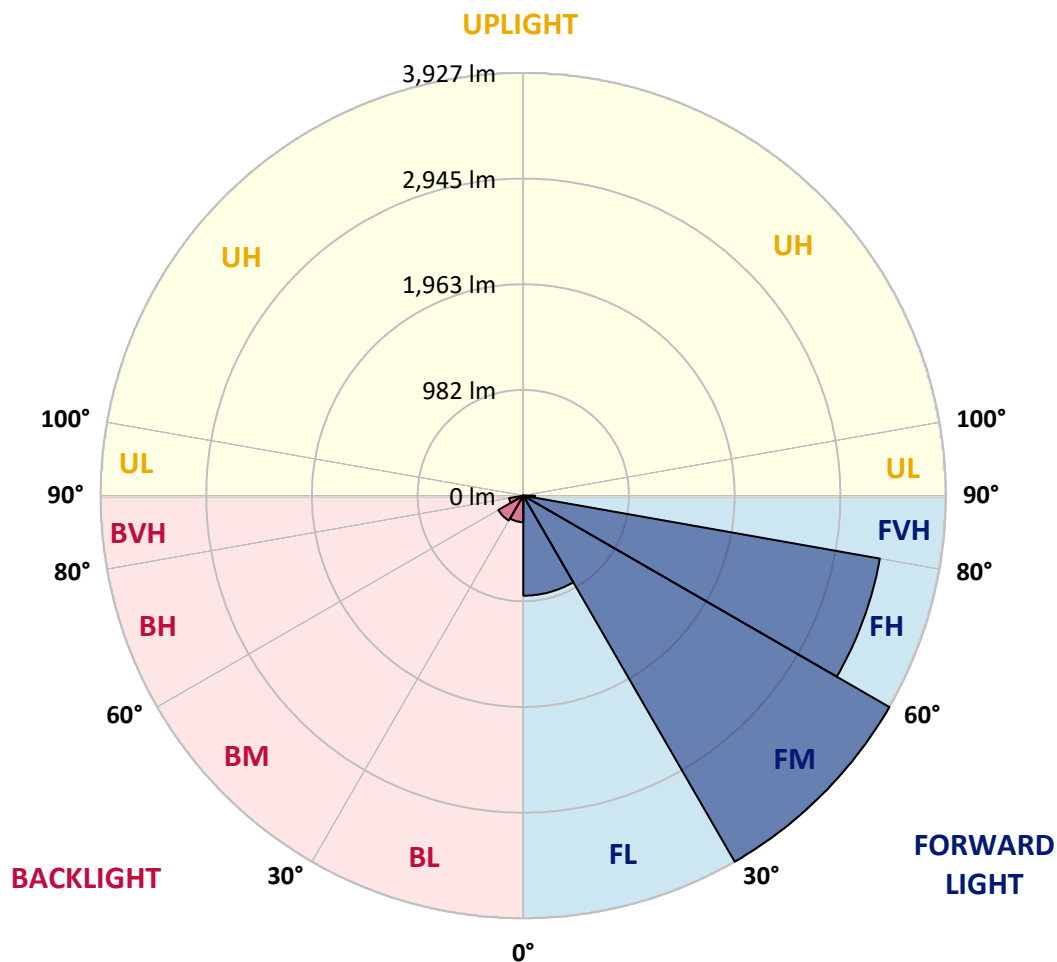
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	929.0	10.4			
FM	(30°-60°)	3926.5	43.8			
FH	(60°-80°)	3362.6	37.5			G2/5000
FVH	(80°-90°)	108.3	1.2			G2/225
BL	(0°-30°)	245.9	2.7	B1/500		
BM	(30°-60°)	267.0	3.0	B1/1000		
BH	(60°-80°)	133.9	1.5	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
2.5°	2760.9	2765.1	2749.5	2736.9	2704.6	2669.8	2623.6	2599.0	2557.0	2484.5	2404.1
5°	2825.7	2831.1	2828.7	2825.7	2813.1	2779.5	2720.7	2699.2	2637.4	2519.2	2374.1
7.5°	2681.8	2701.6	2704.0	2727.3	2749.5	2752.5	2730.3	2714.1	2657.2	2518.7	2320.8
10°	2491.1	2504.3	2523.4	2550.4	2603.8	2648.2	2669.8	2667.4	2634.4	2500.1	2258.4
12.5°	2298.6	2305.8	2335.1	2381.3	2446.7	2522.2	2579.8	2591.2	2591.8	2477.9	2206.2
15°	2133.1	2130.1	2152.8	2206.2	2298.0	2392.7	2495.9	2513.9	2542.6	2456.3	2157.6
17.5°	1991.5	2007.1	2010.7	2069.5	2154.0	2277.0	2408.3	2440.1	2497.7	2437.7	2117.5
20°	1904.0	1912.4	1920.2	1953.2	2029.3	2158.8	2326.2	2369.9	2455.7	2420.9	2072.5
22.5°	1878.2	1883.6	1877.0	1887.2	1941.2	2056.3	2236.8	2295.0	2415.5	2405.3	2035.9
25°	1898.0	1903.4	1887.8	1875.8	1894.4	1972.9	2150.4	2221.2	2383.1	2402.3	2008.3
27.5°	1946.0	1956.2	1934.6	1913.0	1902.2	1928.0	2082.7	2164.8	2360.9	2416.7	1995.7
30°	2020.9	2026.9	2010.7	1984.3	1959.7	1934.0	2047.3	2125.9	2354.9	2450.3	1994.5
32.5°	2102.5	2115.1	2106.1	2088.7	2056.9	1995.7	2057.5	2127.1	2369.3	2498.9	2009.5
35°	2203.2	2217.6	2226.0	2222.4	2181.6	2105.5	2122.3	2181.0	2407.7	2588.2	2050.3
37.5°	2302.2	2314.8	2362.1	2378.3	2342.3	2270.4	2248.2	2287.2	2492.3	2705.2	2124.1
40°	2415.5	2432.3	2498.9	2560.6	2543.2	2467.7	2426.9	2459.3	2621.8	2881.5	2263.8
42.5°	2524.0	2554.0	2655.4	2764.5	2780.7	2696.2	2669.2	2680.0	2813.7	3135.1	2458.7
45°	2678.2	2706.3	2837.1	2985.2	3061.4	2995.4	2967.8	2966.0	3077.0	3491.9	2774.7
47.5°	2900.6	2925.8	3079.9	3226.3	3361.8	3370.8	3318.6	3336.6	3408.0	3909.3	3162.1
50°	3173.5	3232.9	3334.2	3486.5	3667.6	3814.0	3830.1	3806.2	3867.3	4392.6	3627.5
52.5°	3569.9	3592.7	3685.6	3811.0	4023.2	4271.5	4464.0	4431.0	4411.8	4853.2	4097.6
55°	3865.5	3896.1	4040.6	4212.7	4524.0	4851.4	5268.8	5280.2	5037.9	5295.8	4557.6
57.5°	3776.2	3823.0	4041.8	4387.8	5072.1	5670.6	5981.2	5989.0	5617.2	5725.7	5076.9
60°	3317.4	3339.6	3653.2	4115.0	5118.9	6558.1	6991.7	6928.7	6206.7	6206.7	5535.6
62.5°	2352.5	2387.3	2641.6	3321.0	4622.9	6866.3	8201.8	8071.7	7018.6	6666.6	5809.1
65°	1503.4	1469.8	1638.3	2096.5	3444.0	6411.2	9255.4	9263.2	7782.6	6850.7	5659.8
67°	1089.0	1075.8	1124.4	1433.2	2335.1	5389.3	9277.6	9688.4	8221.6	6734.4	5182.4
67.5°	996.1	1006.3	1041.6	1292.9	2121.7	4904.2	9176.9	9663.2	8320.5	6664.2	5009.7
70°	755.0	737.6	776.0	914.5	1271.9	3093.7	7894.2	8862.6	8197.6	5968.0	4002.9
72.5°	555.3	553.5	606.9	747.8	979.3	1647.9	5926.0	7106.2	6697.2	4544.4	2520.4
75°	374.8	391.6	476.7	624.9	887.5	1068.6	4040.0	5155.4	4649.3	2580.4	1030.2
77.5°	213.5	214.7	307.0	501.9	797.0	859.9	2393.9	3284.4	2461.1	858.1	305.8
80°	92.4	101.3	152.3	364.6	660.8	761.6	1372.7	1805.0	995.5	181.7	98.9
82.5°	34.2	40.2	67.2	224.3	482.1	627.3	829.4	861.7	337.6	64.2	61.8
85°	0.0	1.2	24.6	104.9	251.3	280.0	554.1	510.9	149.3	30.6	40.2
87.5°	0.0	0.0	0.0	10.8	33.0	104.3	172.1	191.9	36.0	10.8	9.6
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°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
2.5°	2360.9	2322.0	2224.2	2126.5	2053.9	1993.3	1902.2	1852.4	1826.0	1787.0	1789.4
5°	2301.6	2222.4	2050.3	1872.2	1728.3	1587.9	1420.0	1352.3	1295.3	1262.9	1241.3
7.5°	2213.4	2096.5	1841.6	1604.1	1382.9	1137.6	953.5	830.6	747.8	717.2	687.8
10°	2116.9	1961.5	1629.9	1300.7	993.7	740.6	584.7	471.9	431.8	394.6	398.2
12.5°	2027.5	1838.6	1435.6	1026.6	696.2	470.7	367.0	320.8	307.6	303.4	303.4
15°	1954.4	1721.1	1226.9	771.8	477.3	338.2	293.8	281.2	276.5	275.3	275.3
17.5°	1876.4	1609.5	1038.6	570.3	347.2	283.0	268.1	259.7	257.9	256.7	256.7
20°	1806.8	1497.4	859.9	424.6	280.6	254.9	245.3	239.9	238.1	236.9	237.5
22.5°	1740.9	1397.9	692.0	320.8	247.1	232.1	222.5	217.1	213.5	210.5	211.1
25°	1682.1	1301.9	556.5	262.7	222.5	209.3	199.7	191.9	184.1	180.5	179.9
27.5°	1640.7	1217.9	433.6	224.9	200.3	185.9	173.9	164.3	154.1	148.7	147.5
30°	1606.5	1132.8	343.0	198.5	178.1	164.3	149.3	135.5	124.7	119.3	116.9
32.5°	1584.4	1051.8	270.5	176.9	159.5	142.7	125.9	112.1	100.1	94.7	93.5
35°	1580.8	984.1	221.3	158.9	142.7	124.7	107.3	92.4	82.2	76.8	75.6
37.5°	1606.5	931.9	185.3	144.5	128.9	109.1	90.0	76.2	67.2	63.0	62.4
40°	1675.5	898.9	160.7	132.5	116.3	94.7	76.8	64.8	55.8	51.6	51.6
42.5°	1806.8	900.1	144.5	121.1	103.7	81.0	65.4	54.0	46.2	42.6	41.4
45°	2011.9	940.9	130.7	109.7	91.8	70.2	55.8	44.4	36.6	33.6	33.6
47.5°	2286.6	1021.9	118.7	98.3	81.0	60.0	47.4	36.0	29.4	26.4	26.4
50°	2645.8	1152.0	108.5	88.8	72.0	51.6	38.4	29.4	22.8	20.4	19.8
52.5°	3021.2	1312.7	96.5	80.4	61.8	43.8	31.2	22.8	17.4	15.6	15.0
55°	3435.6	1469.8	85.2	72.0	50.4	36.6	24.6	18.0	12.6	10.8	10.8
57.5°	3853.5	1623.9	71.4	60.0	39.6	27.0	19.2	13.2	8.4	6.6	6.6
60°	4207.3	1673.7	60.6	48.6	30.0	19.2	13.8	8.4	4.8	3.0	3.0
62.5°	4255.9	1505.8	51.0	37.2	21.6	13.2	7.2	4.8	1.8	1.2	1.2
65°	3992.1	1223.3	42.6	28.2	14.4	6.6	3.0	1.8	0.6	0.0	0.0
67°	3577.1	991.9	34.8	21.0	10.2	4.2	1.8	0.6	0.0	0.0	0.0
67.5°	3470.9	945.7	33.6	19.8	9.0	3.6	1.2	0.6	0.0	0.0	0.0
70°	2723.7	708.2	24.0	12.0	5.4	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	1692.9	400.6	17.4	7.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0
75°	639.9	140.3	12.0	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	199.1	53.4	7.2	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	67.2	20.4	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.4	8.4	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.2	0.6	0.0	0.0	0.0	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)