

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: P452227

Luminaire Tested: **GALN-SA3A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10829 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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



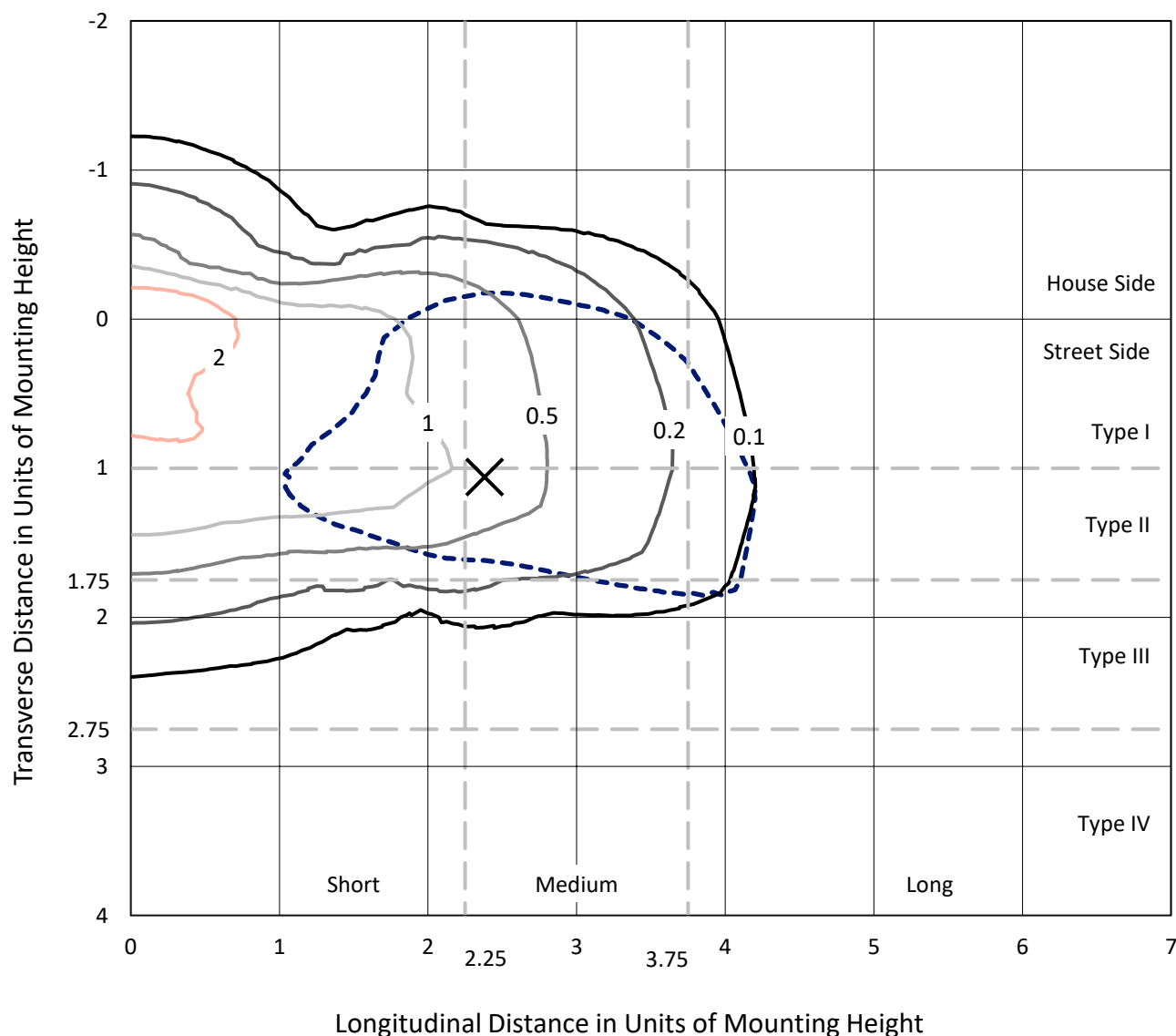
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

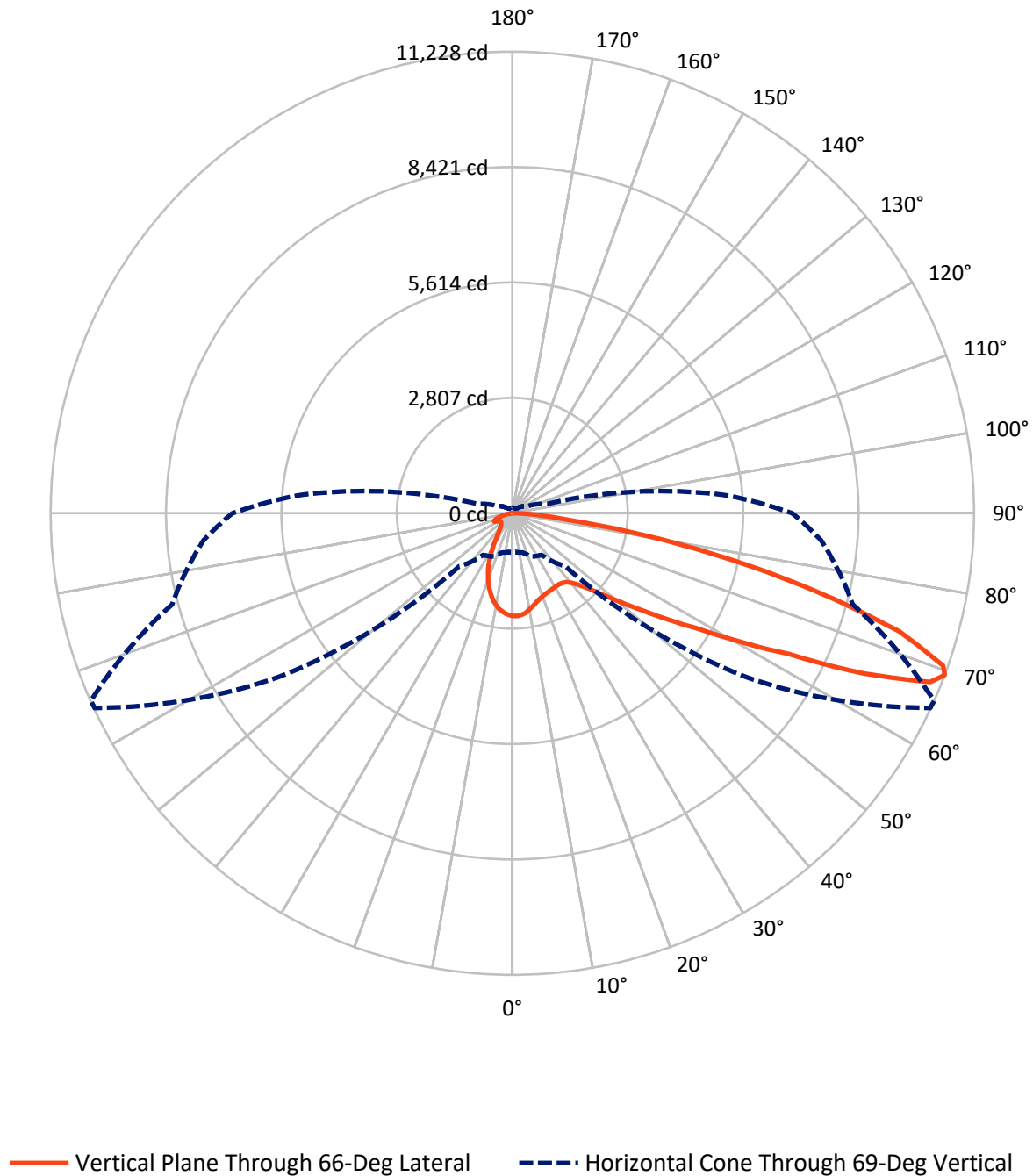


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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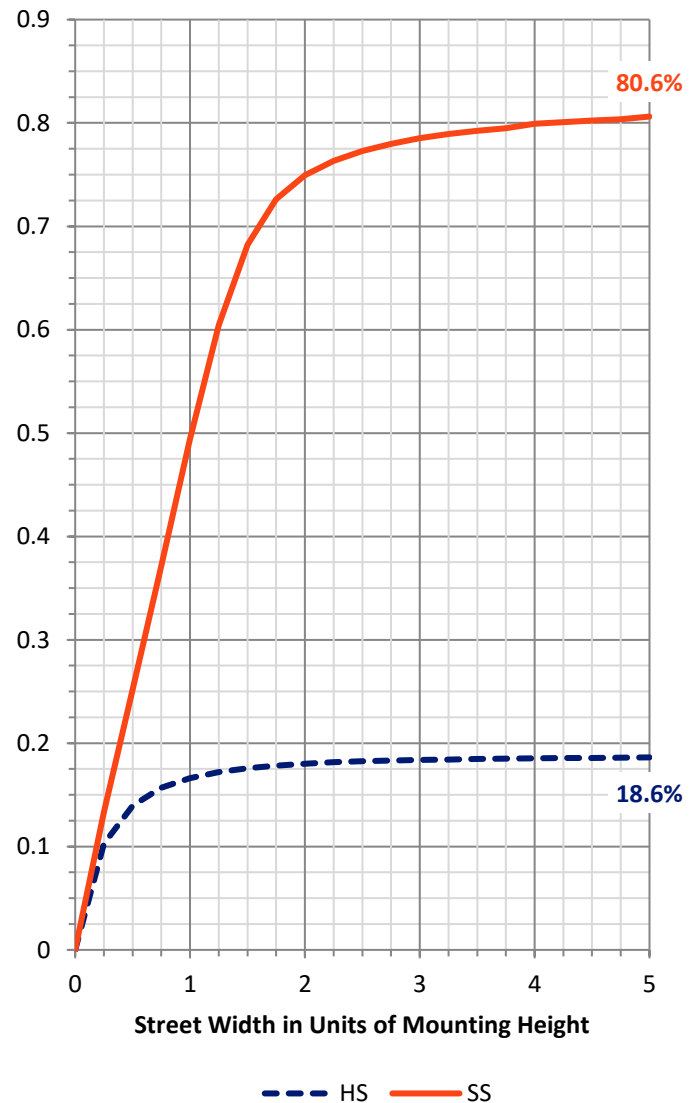
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2036.5	0.0	2036.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8792.5	0.0	8792.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	10829.0	0.0	10829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	2.0
10°-20°	515.1	4.8
20°-30°	701.2	6.5
30°-40°	942.3	8.7
40°-50°	1407.0	13.0
50°-60°	2238.1	20.7
60°-70°	2752.7	25.4
70°-80°	1791.0	16.5
80°-90°	264.5	2.4
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°	10829.0	100.0
0°-180°	10829.0	100.0

Coefficient of Utilization



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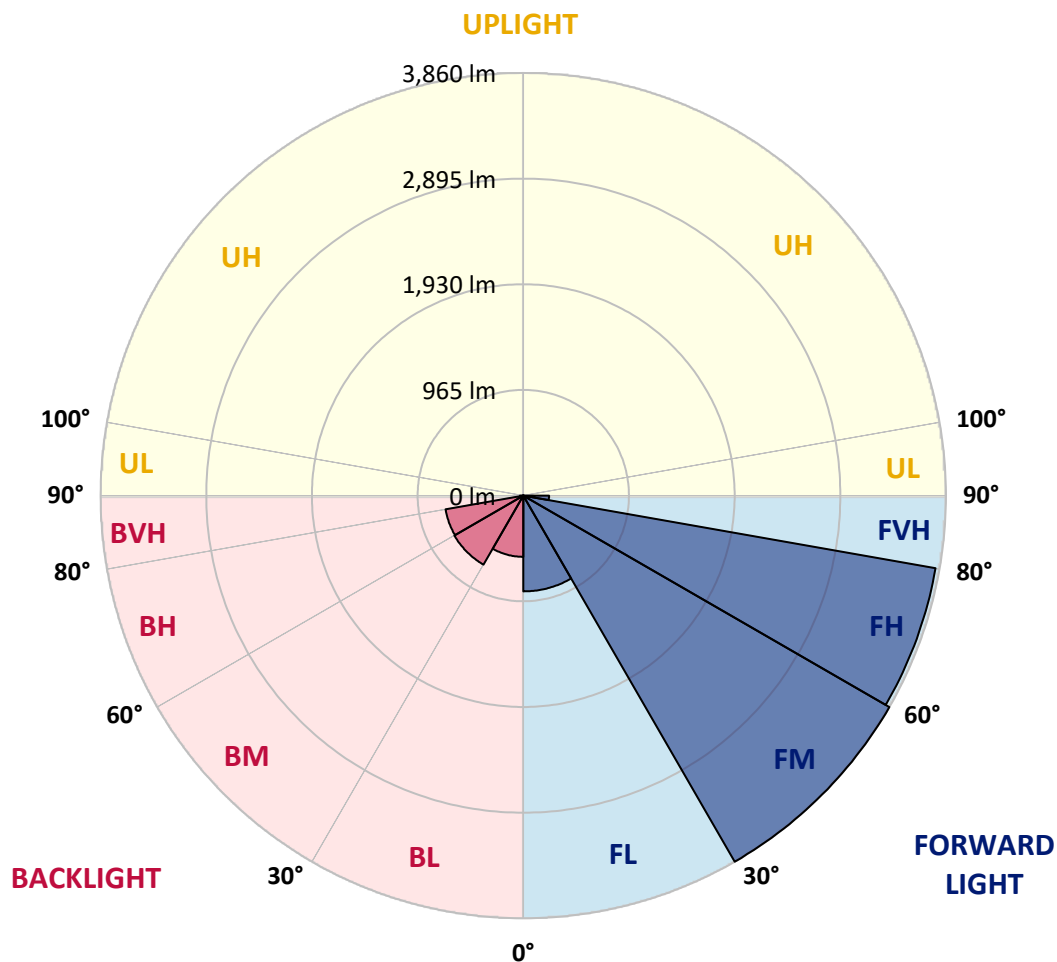
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.4	8.1			
FM	(30°-60°)	3860.2	35.6			
FH	(60°-80°)	3822.7	35.3			G2/5000
FVH	(80°-90°)	235.1	2.2			G3/500
BL	(0°-30°)	559.0	5.2	B2/1000		
BM	(30°-60°)	727.1	6.7	B1/1000		
BH	(60°-80°)	721.0	6.7	B2/1000		G2/1000
BVH	(80°-90°)	29.3	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2413.2	2422.8	2433.6	2445.5	2468.3	2480.9	2489.9	2500.1	2501.3	2506.7	2502.5
5°	2235.1	2246.4	2262.6	2285.4	2319.6	2373.0	2428.2	2473.1	2478.5	2503.7	2510.9
7.5°	2086.3	2092.9	2106.1	2142.7	2191.3	2250.6	2331.0	2422.2	2435.4	2495.3	2516.3
10°	1965.2	1971.8	1987.4	2025.2	2073.1	2147.5	2235.7	2355.6	2366.4	2469.5	2517.5
12.5°	1874.6	1880.6	1897.4	1934.6	1989.8	2059.3	2156.5	2283.6	2299.2	2435.4	2506.1
15°	1805.7	1817.1	1830.9	1861.4	1919.6	1986.8	2080.9	2217.7	2230.3	2399.4	2498.3
17.5°	1776.3	1781.7	1791.3	1819.5	1862.0	1928.0	2022.8	2166.1	2181.1	2374.2	2496.5
20°	1777.5	1782.9	1784.7	1800.3	1830.9	1887.8	1981.4	2125.3	2143.3	2352.0	2499.5
22.5°	1818.3	1818.9	1812.3	1806.9	1818.9	1866.2	1952.0	2094.7	2115.7	2342.4	2501.9
25°	1881.2	1892.0	1882.4	1857.2	1835.1	1857.8	1940.6	2077.9	2097.7	2328.6	2498.9
27.5°	1983.2	1985.0	1977.2	1943.0	1885.4	1868.6	1935.8	2065.3	2082.1	2318.4	2483.9
30°	2119.9	2114.5	2107.3	2069.5	1979.0	1910.0	1946.0	2053.9	2071.3	2303.4	2465.9
32.5°	2258.4	2275.2	2268.6	2224.3	2106.7	1990.4	1979.0	2052.7	2067.1	2292.0	2446.1
35°	2405.4	2413.2	2444.3	2421.6	2301.0	2120.5	2040.8	2071.3	2082.7	2292.6	2432.4
37.5°	2520.5	2541.5	2614.7	2634.4	2521.1	2292.6	2140.9	2124.1	2128.9	2322.0	2437.7
40°	2659.6	2695.6	2789.8	2870.7	2796.4	2516.3	2311.2	2221.9	2227.9	2392.8	2473.1
42.5°	2835.9	2861.1	2987.7	3097.4	3085.4	2812.0	2517.5	2382.0	2385.0	2533.7	2572.1
45°	3042.2	3078.2	3220.3	3385.3	3413.4	3146.6	2815.6	2624.3	2622.5	2752.6	2756.8
47.5°	3306.1	3328.3	3469.2	3649.1	3763.1	3567.0	3177.2	2972.1	2952.9	3071.6	3037.4
50°	3549.0	3583.8	3690.5	3887.2	4170.9	4059.3	3652.7	3423.0	3378.1	3489.0	3431.4
52.5°	3650.9	3687.5	3777.5	4021.5	4520.5	4696.2	4256.6	3961.0	3886.0	3971.2	3950.2
55°	3474.0	3521.4	3605.4	3902.2	4674.0	5430.8	5071.0	4582.8	4528.3	4491.7	4497.7
57.5°	2998.5	3043.4	3156.8	3484.2	4490.5	5963.9	6233.8	5382.2	5265.3	5096.8	5125.6
60°	2282.4	2310.6	2369.4	2732.2	3946.6	6102.5	7554.3	6392.7	6318.4	5699.5	5719.9
62.5°	1621.0	1652.8	1693.5	1874.6	2889.3	5712.1	8588.2	7803.8	7538.1	6323.8	6304.0
65°	1316.3	1294.7	1343.9	1428.5	1695.3	4426.9	8820.9	9762.4	9396.6	7145.9	6871.3
67.5°	1082.4	1059.7	1108.2	1258.8	1289.3	2569.7	7982.5	11033.7	10960.6	8040.1	7447.6
69°	958.3	946.3	988.9	1160.4	1237.8	1824.9	6954.0	11210.6	11228.0	8567.2	7536.3
70°	863.6	868.4	909.7	1110.6	1214.4	1504.6	5943.6	10966.6	11114.1	8830.5	7440.4
72.5°	635.7	645.9	703.4	919.9	1192.2	1276.7	3537.0	9578.9	9839.8	8846.1	6806.5
75°	444.4	439.6	490.5	692.6	1126.2	1265.4	2077.3	7408.0	7703.6	7646.1	5719.3
77.5°	290.9	298.6	339.4	489.3	947.5	1255.8	1354.1	5255.7	5447.6	5113.6	3382.9
80°	205.1	204.5	227.3	334.0	702.8	1206.6	1108.8	3312.7	3264.1	2009.6	1003.3
82.5°	117.5	125.9	152.3	235.1	470.2	1062.1	1020.1	1584.4	1446.5	572.7	338.8
85°	65.4	68.4	90.6	142.1	274.7	800.0	890.5	720.8	680.1	239.3	145.7
87.5°	21.0	22.8	37.8	72.0	124.7	377.8	504.3	332.8	307.0	86.4	58.8
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°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2504.3	2511.5	2492.3	2473.7	2456.9	2433.6	2412.6	2395.2	2383.2	2381.4	2375.4
5°	2512.7	2513.3	2476.7	2427.6	2379.6	2326.8	2272.2	2233.3	2196.7	2176.3	2166.1
7.5°	2518.7	2513.3	2447.3	2367.6	2275.2	2179.3	2083.3	2006.6	1947.2	1923.8	1932.8
10°	2516.3	2499.5	2403.0	2275.2	2140.9	1997.6	1859.6	1751.7	1652.8	1601.8	1603.0
12.5°	2503.1	2475.5	2337.0	2171.5	1974.2	1782.3	1571.2	1425.5	1310.9	1243.2	1222.2
15°	2491.7	2443.7	2259.6	2030.6	1785.3	1511.2	1254.0	1074.0	978.1	924.7	924.1
17.5°	2479.7	2413.2	2175.1	1881.2	1568.2	1215.6	945.7	808.4	763.4	768.8	759.8
20°	2467.1	2377.2	2086.9	1715.1	1303.7	906.7	708.2	652.5	665.1	689.6	693.2
22.5°	2452.7	2338.8	1992.2	1532.2	1025.5	682.4	574.5	566.1	598.5	636.9	642.3
25°	2430.6	2290.8	1872.8	1340.9	791.0	549.9	503.1	509.1	540.9	573.3	576.9
27.5°	2399.4	2231.5	1752.3	1102.2	594.3	472.0	460.0	467.8	483.4	503.1	507.9
30°	2357.4	2164.3	1613.8	895.9	476.2	433.0	428.2	432.4	441.4	449.8	452.2
32.5°	2315.4	2099.5	1474.0	686.0	424.6	407.2	402.4	402.4	402.4	403.6	404.2
35°	2276.4	2038.4	1324.1	534.3	397.6	386.8	380.2	373.0	371.8	367.6	367.6
37.5°	2254.8	1982.6	1164.6	447.4	377.8	370.0	361.0	349.0	342.4	343.0	341.8
40°	2259.0	1946.0	1019.5	398.2	361.6	353.2	339.4	325.6	321.4	321.4	320.2
42.5°	2306.4	1934.0	880.3	372.4	346.0	336.4	319.0	306.4	304.0	303.4	304.6
45°	2415.6	1963.4	755.6	355.6	332.8	318.4	301.0	289.7	287.3	287.3	286.7
47.5°	2628.5	2058.7	666.3	344.8	323.2	304.6	286.7	275.3	271.1	269.9	269.9
50°	2959.5	2265.6	599.7	335.2	311.2	292.1	273.5	260.3	253.7	253.1	252.5
52.5°	3419.4	2588.3	573.9	328.0	298.0	278.9	258.5	245.9	237.5	235.7	234.5
55°	3957.4	3038.6	609.3	322.6	284.3	263.9	242.9	229.7	221.9	218.3	217.7
57.5°	4580.4	3579.6	743.6	315.4	271.7	247.7	227.3	214.1	205.7	201.5	200.3
60°	5140.0	4135.5	978.1	311.2	260.9	230.3	209.3	197.3	189.5	185.3	184.7
62.5°	5754.6	4665.6	1258.2	322.6	256.1	213.5	192.5	181.7	175.1	170.9	170.9
65°	6411.3	5196.3	1443.5	361.0	263.3	200.3	174.5	165.5	159.5	156.5	155.9
67.5°	6853.9	5379.8	1189.2	400.6	281.3	185.9	157.1	149.9	146.3	143.3	143.3
69°	6805.9	5147.8	877.3	410.8	286.7	178.7	147.5	142.1	137.3	136.1	134.9
70°	6654.2	4883.3	735.2	404.2	282.5	172.1	141.5	134.9	130.7	129.5	128.9
72.5°	5926.8	4235.0	547.5	351.4	240.5	149.3	125.3	119.3	115.7	113.9	113.9
75°	4924.1	3461.4	427.6	279.5	188.3	125.9	107.3	102.5	99.5	98.3	97.7
77.5°	2759.8	1932.8	307.0	218.9	142.7	101.9	90.0	85.8	82.8	81.6	81.6
80°	768.8	552.3	180.5	144.5	97.2	77.4	71.4	68.4	64.2	61.2	63.0
82.5°	289.7	239.3	103.1	87.0	61.8	51.6	49.8	47.4	45.6	41.4	41.4
85°	140.9	116.3	66.0	46.2	34.2	27.0	25.8	24.6	23.4	20.4	21.0
87.5°	48.6	51.6	28.8	16.8	10.2	6.6	5.4	3.0	3.0	3.0	3.0
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)