

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: P522738

Luminaire Tested: **GALN-SA4B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17900 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 164
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

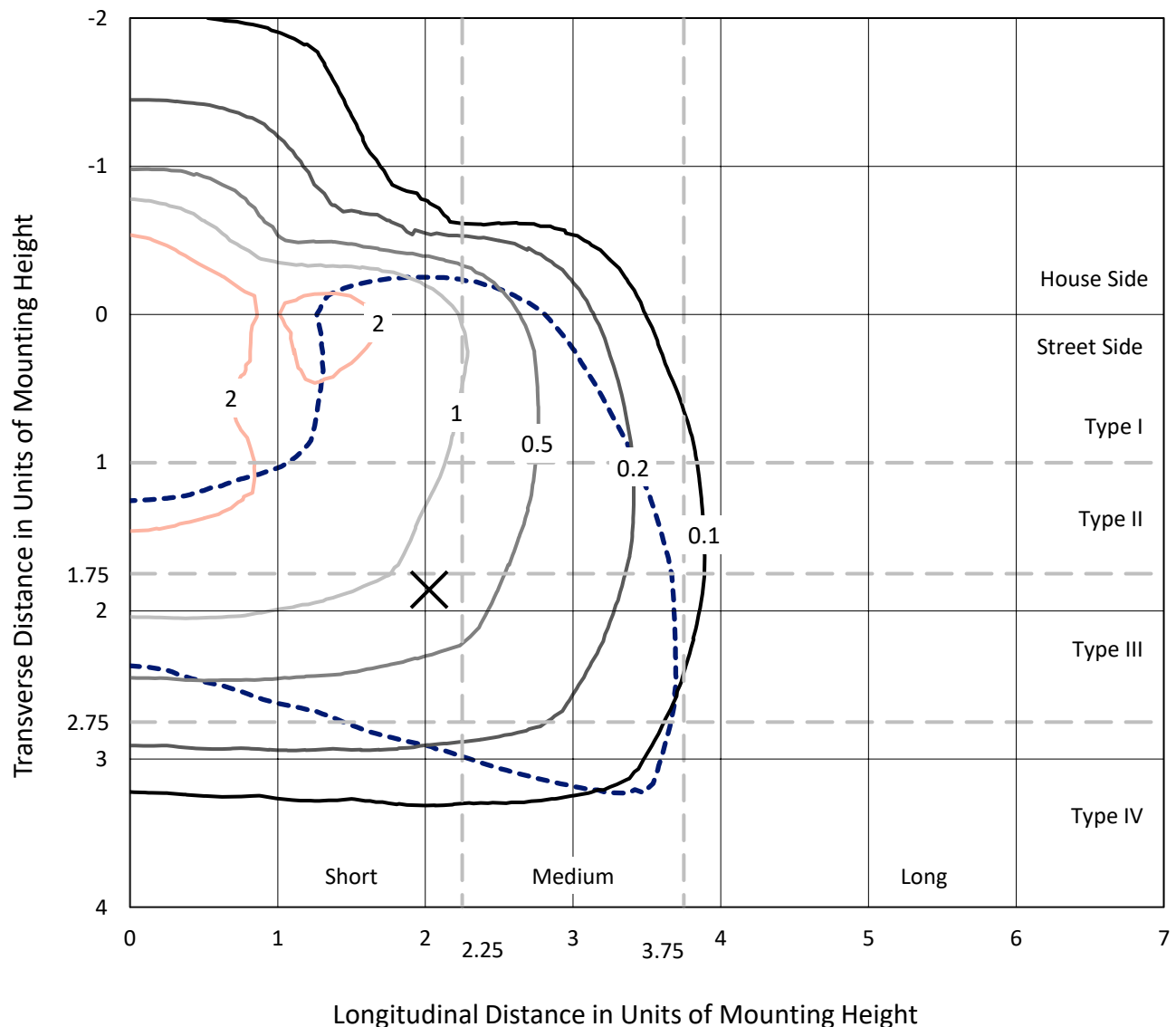


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

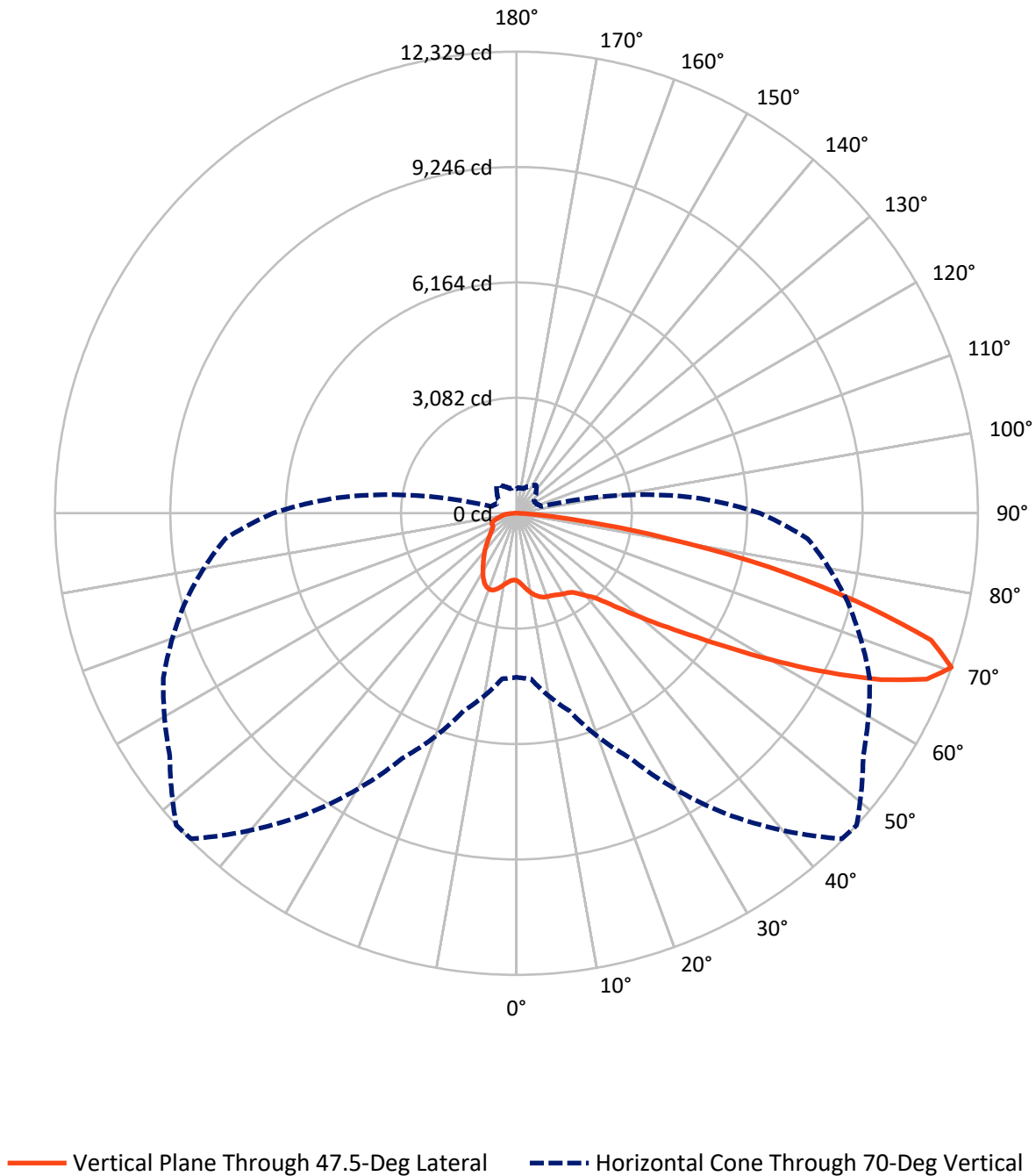


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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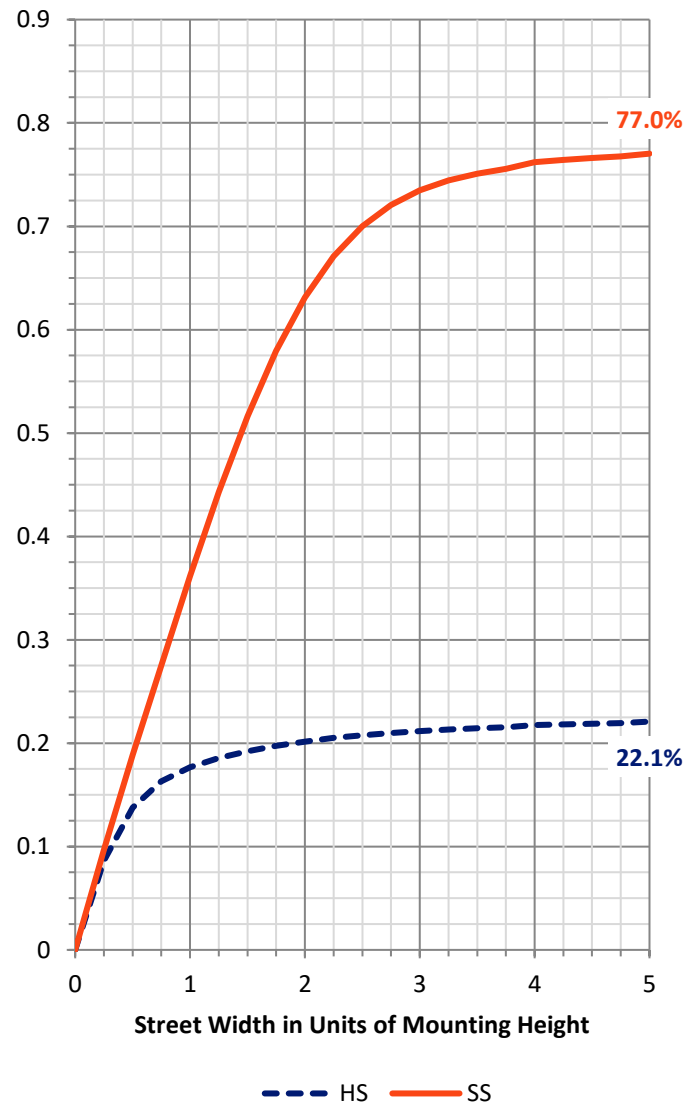
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4052.9	0.0	4052.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13847.1	0.0	13847.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	17900.0	0.0	17900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	1.0
10°-20°	619.2	3.5
20°-30°	1029.8	5.8
30°-40°	1459.5	8.2
40°-50°	2154.6	12.0
50°-60°	3731.9	20.8
60°-70°	5271.4	29.4
70°-80°	3030.3	16.9
80°-90°	418.1	2.3
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°	17900.0	100.0
0°-180°	17900.0	100.0

Coefficient of Utilization



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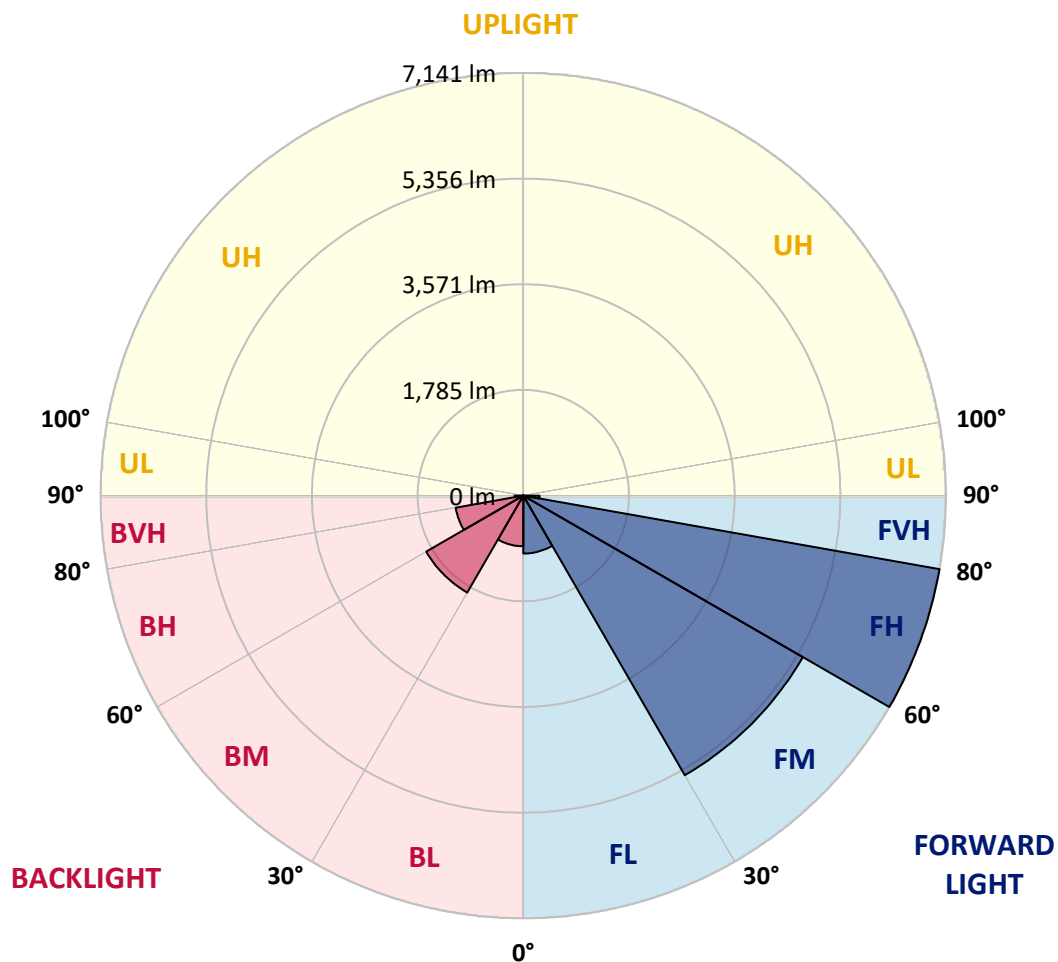
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.8	5.5			
FM	(30°-60°)	5453.8	30.5			
FH	(60°-80°)	7141.3	39.9			G3/7500
FVH	(80°-90°)	273.1	1.5			G3/500
BL	(0°-30°)	855.4	4.8	B2/1000		
BM	(30°-60°)	1892.2	10.6	B2/2500		
BH	(60°-80°)	1160.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	145.0	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9
2.5°	1912.8	1906.1	1905.2	1890.8	1883.2	1868.8	1863.0	1849.6	1833.3	1817.1	1801.7
5°	2063.2	2063.2	2056.5	2036.4	2004.8	1972.2	1957.9	1932.0	1886.0	1848.7	1817.1
7.5°	2217.4	2219.4	2206.0	2176.3	2131.2	2078.6	2065.1	2026.8	1961.7	1907.1	1860.2
10°	2350.6	2350.6	2332.4	2292.2	2235.6	2178.2	2164.8	2121.7	2048.9	1980.9	1919.6
12.5°	2452.1	2452.1	2428.2	2375.5	2314.2	2262.5	2247.1	2206.0	2137.9	2062.3	1984.7
15°	2518.2	2513.4	2486.6	2427.2	2367.8	2322.8	2312.3	2277.8	2215.5	2138.9	2051.7
17.5°	2521.1	2519.2	2493.3	2443.5	2391.8	2361.1	2354.4	2331.4	2282.6	2209.8	2117.8
20°	2465.5	2469.4	2452.1	2416.7	2391.8	2378.4	2375.5	2367.8	2333.3	2265.3	2173.4
22.5°	2406.1	2412.8	2396.6	2377.4	2375.5	2388.9	2390.8	2392.7	2370.7	2304.6	2220.3
25°	2391.8	2396.6	2380.3	2363.0	2373.6	2409.0	2416.7	2424.3	2407.1	2351.5	2275.9
27.5°	2464.6	2460.7	2429.1	2391.8	2398.5	2446.4	2456.9	2465.5	2456.9	2409.0	2344.8
30°	2670.5	2658.1	2594.8	2485.6	2451.2	2484.7	2495.2	2519.2	2519.2	2483.7	2419.6
32.5°	3015.3	2991.4	2875.5	2660.9	2541.2	2521.1	2531.6	2570.9	2591.0	2563.2	2493.3
35°	3433.9	3409.0	3243.3	2955.0	2706.0	2593.9	2591.0	2635.1	2688.7	2626.5	2535.5
37.5°	3854.4	3828.6	3629.3	3305.6	2946.4	2747.1	2729.9	2745.2	2768.2	2654.2	2593.9
40°	4274.9	4244.3	4069.9	3697.3	3240.4	2950.2	2905.2	2836.2	2826.6	2745.2	2706.9
42.5°	4691.6	4663.8	4575.7	4137.0	3592.9	3148.5	3079.5	2960.7	2997.1	2948.3	2914.8
45°	5112.1	5114.0	5020.1	4630.3	4018.2	3514.4	3421.5	3235.6	3321.9	3303.7	3322.8
47.5°	5484.7	5479.9	5446.4	5109.2	4546.0	3985.7	3865.9	3650.4	3797.9	3865.0	4011.5
50°	5845.8	5842.9	5844.9	5652.3	5159.0	4546.0	4413.8	4187.8	4520.1	4752.9	5015.4
52.5°	6363.1	6379.3	6263.4	6212.7	5904.2	5207.9	5062.3	4828.6	5373.6	5740.5	6252.9
55°	6882.2	6868.8	6777.8	6830.5	6683.9	5991.4	5839.1	5653.3	6323.8	6725.1	7495.3
57.5°	7187.8	7192.6	7285.5	7543.1	7646.6	6968.4	6830.5	6686.8	7391.8	7676.3	8600.6
60°	7462.7	7484.7	7752.0	8238.6	8519.2	8168.6	8046.0	7906.2	8371.7	8484.7	9560.4
62.5°	7548.9	7616.9	8083.4	8811.4	9369.8	9523.0	9370.7	9062.3	9304.6	9260.6	10210.8
65°	7118.8	7211.7	8047.9	9025.9	10129.4	10808.5	10711.7	10138.9	10099.7	9834.3	10317.1
67.5°	5986.6	6079.5	7153.3	8575.7	10443.5	11921.5	11824.8	10924.4	10582.4	9888.0	9512.5
70°	4380.3	4438.7	5465.5	7220.3	9812.3	12295.1	12328.6	11307.5	10410.0	9159.1	7810.4
72.5°	2524.0	2653.3	3372.6	5079.5	8016.3	11350.6	11583.4	10510.6	9320.0	7640.8	5460.8
75°	1085.3	1088.1	1559.4	2801.7	5429.1	9123.6	9348.7	8712.7	7319.0	5283.6	2915.7
77.5°	516.3	525.9	685.8	1251.0	2988.5	6303.7	6911.0	6155.2	4681.1	2538.3	1101.5
80°	335.3	342.0	419.5	620.7	1465.5	3655.2	4078.6	3550.8	2065.1	907.1	475.1
82.5°	203.1	205.0	280.7	379.3	806.5	1655.2	1951.2	1541.2	881.2	543.1	279.7
85°	123.6	124.5	170.5	234.7	489.5	571.8	587.2	582.4	517.2	355.4	149.4
87.5°	59.4	61.3	88.1	111.1	192.5	177.2	167.6	194.4	244.3	191.6	64.2
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°	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9	1796.9
2.5°	1795.0	1792.2	1785.5	1782.6	1780.7	1781.6	1780.7	1780.7	1781.6	1781.6	1781.6
5°	1803.6	1798.9	1788.3	1788.3	1794.1	1807.5	1819.9	1829.5	1840.0	1839.1	1839.1
7.5°	1841.0	1832.4	1819.9	1823.8	1838.1	1859.2	1881.2	1902.3	1923.4	1925.3	1924.3
10°	1895.6	1887.0	1873.6	1878.4	1901.4	1933.0	1960.7	1991.4	2014.4	2021.1	2019.2
12.5°	1957.9	1940.6	1929.1	1942.5	1978.9	2021.1	2047.9	2070.9	2087.2	2096.8	2092.9
15°	2021.1	2004.8	1991.4	2019.2	2063.2	2102.5	2115.9	2119.7	2122.6	2132.2	2130.3
17.5°	2082.4	2060.4	2055.6	2092.0	2134.1	2151.4	2143.7	2127.4	2115.0	2122.6	2121.7
20°	2137.0	2119.7	2117.8	2154.2	2170.5	2154.2	2121.7	2092.9	2070.9	2072.8	2071.9
22.5°	2188.7	2175.3	2177.2	2192.5	2166.7	2111.1	2057.5	2018.2	1994.3	1999.1	2001.9
25°	2246.2	2232.8	2237.6	2212.7	2127.4	2030.7	1953.1	1919.6	1910.0	1919.6	1926.3
27.5°	2320.9	2312.3	2309.4	2213.6	2057.5	1911.9	1823.8	1811.3	1819.9	1841.0	1851.5
30°	2401.4	2401.4	2386.0	2197.3	1961.7	1769.2	1692.5	1694.5	1724.1	1753.8	1764.4
32.5°	2478.9	2495.2	2447.3	2153.3	1838.1	1630.3	1571.8	1573.8	1599.6	1636.0	1645.6
35°	2543.1	2590.1	2500.0	2072.8	1692.5	1513.4	1469.4	1443.5	1444.5	1472.2	1479.9
37.5°	2631.2	2718.4	2530.7	1953.1	1537.4	1413.8	1364.0	1319.0	1289.3	1277.8	1277.8
40°	2784.5	2912.9	2538.3	1775.9	1390.8	1319.0	1248.1	1194.5	1137.0	1085.3	1075.7
42.5°	3044.1	3206.0	2523.0	1571.8	1258.6	1214.6	1145.6	1079.5	1000.0	927.2	921.5
45°	3503.9	3587.2	2481.8	1360.2	1140.8	1114.0	1046.9	975.1	890.8	825.7	820.9
47.5°	4240.4	4122.6	2427.2	1172.4	1033.5	1025.9	974.1	890.8	806.5	761.5	756.7
50°	5316.1	4965.5	2419.6	1036.4	947.3	951.2	909.0	832.4	758.6	721.3	715.5
52.5°	6611.1	5983.7	2470.3	940.6	871.7	886.0	864.9	794.1	728.9	697.3	691.6
55°	7867.9	6899.5	2501.0	865.9	800.8	827.6	830.5	771.1	711.7	680.1	676.2
57.5°	8888.0	7589.1	2365.0	797.9	739.5	780.7	801.7	757.7	703.1	679.1	675.3
60°	9597.8	7914.8	1978.0	737.6	694.4	743.3	791.2	758.6	724.1	727.0	728.9
62.5°	9823.8	7770.2	1483.7	692.5	663.8	730.8	808.4	797.9	762.5	784.5	788.3
65°	9449.3	7172.5	1075.7	657.1	637.0	739.5	860.2	826.6	749.0	765.3	765.3
67.5°	8195.4	6179.2	837.2	624.5	606.3	755.8	911.9	823.8	717.4	736.6	719.4
70°	6501.0	4779.7	697.3	588.1	573.8	731.8	916.7	794.1	680.1	683.9	651.3
72.5°	4314.2	3142.7	599.6	553.6	523.9	658.0	877.4	755.8	643.7	621.7	589.1
75°	2114.0	1567.1	523.0	510.5	458.8	572.8	823.8	719.4	604.4	569.9	551.7
77.5°	819.0	666.7	446.4	455.9	399.4	504.8	752.9	667.6	552.7	505.7	491.4
80°	397.5	378.4	365.9	380.3	328.5	430.1	687.7	622.6	504.8	453.1	432.0
82.5°	247.1	233.7	280.7	296.0	252.9	392.7	652.3	584.3	444.4	375.5	358.2
85°	125.5	134.1	187.7	202.1	181.0	312.3	537.4	438.7	320.9	266.3	268.2
87.5°	47.9	64.2	98.7	106.3	96.7	164.8	296.0	255.7	205.9	139.8	129.3
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)