

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: P455022

Luminaire Tested: **GALN-SA6A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21672 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - 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

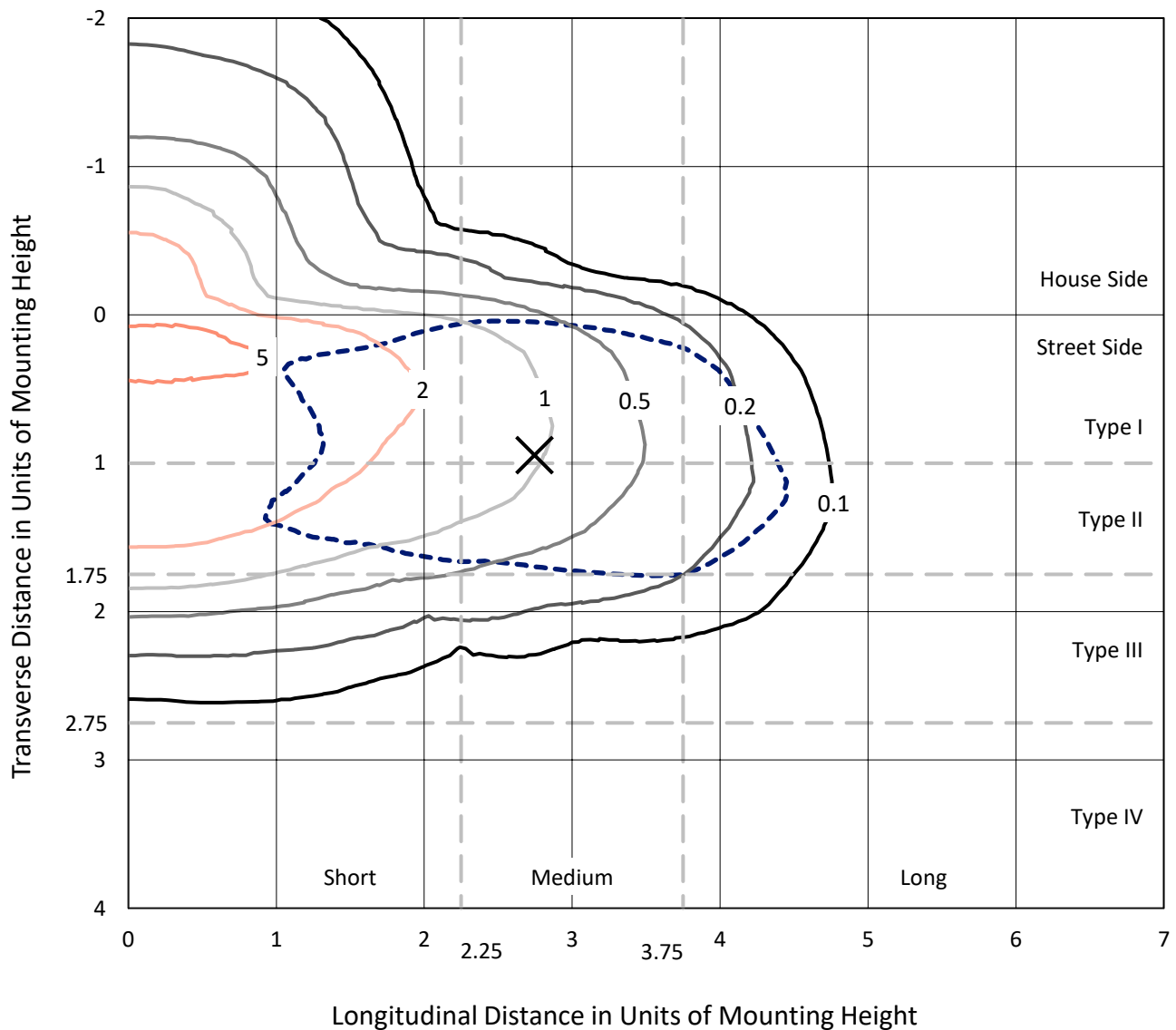


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

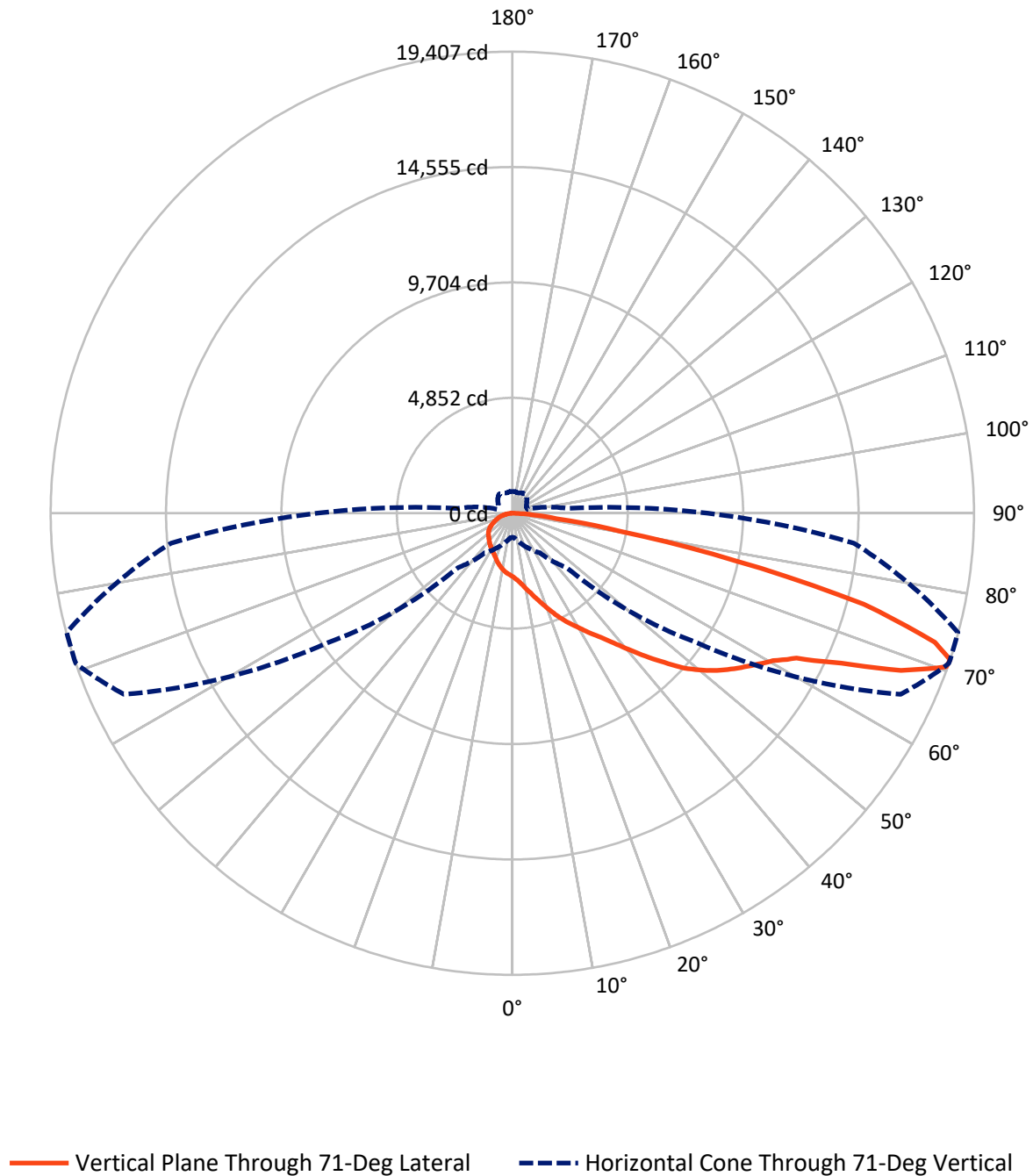


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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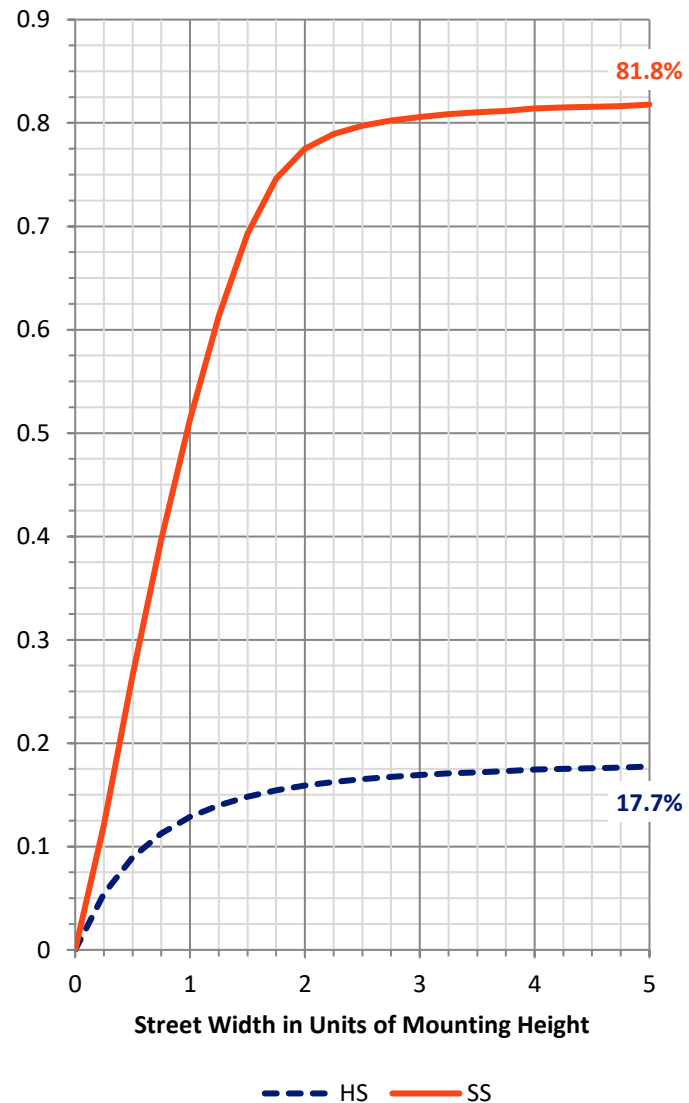
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3897.7	0.0	3897.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	17774.3	0.0	17774.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	21672.0	0.0	21672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	1.2
10°-20°	867.7	4.0
20°-30°	1516.3	7.0
30°-40°	2255.3	10.4
40°-50°	3322.9	15.3
50°-60°	4652.2	21.5
60°-70°	5203.3	24.0
70°-80°	3178.4	14.7
80°-90°	408.9	1.9
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°	21672.0	100.0
0°-180°	21672.0	100.0

Coefficient of Utilization



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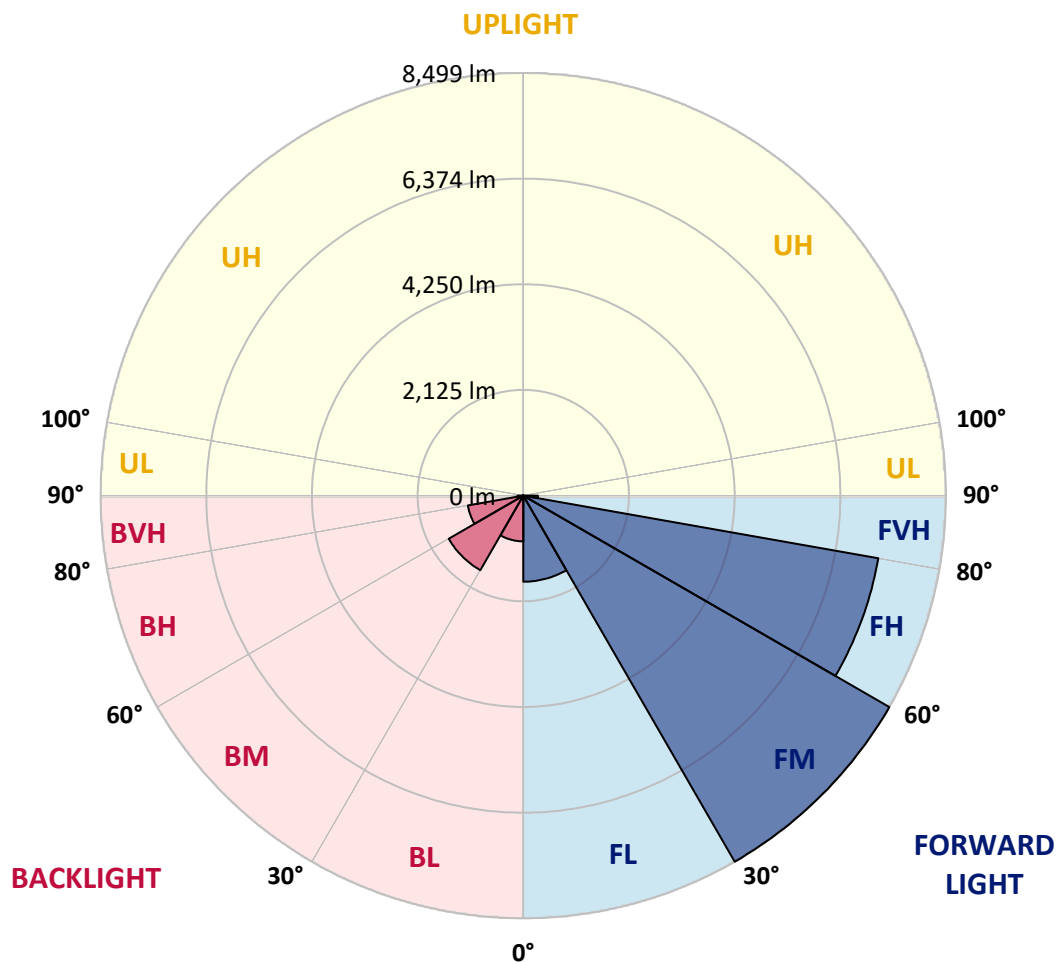
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1731.6	8.0			
FM	(30°-60°)	8499.3	39.2			
FH	(60°-80°)	7249.2	33.4			G3/7500
FVH	(80°-90°)	294.2	1.4			G3/500
BL	(0°-30°)	919.4	4.2	B2/1000		
BM	(30°-60°)	1731.1	8.0	B2/2500		
BH	(60°-80°)	1132.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	114.7	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8
2.5°	2952.8	2938.5	2939.7	2919.5	2893.3	2864.7	2824.2	2788.5	2759.9	2743.2	2694.4
5°	3272.1	3257.8	3239.9	3195.8	3176.8	3106.5	3017.2	2936.2	2874.2	2839.7	2742.0
7.5°	3530.5	3527.0	3522.2	3497.2	3448.3	3350.7	3274.4	3133.9	3042.2	2976.7	2809.9
10°	3690.1	3696.1	3699.7	3704.4	3684.2	3633.0	3528.1	3350.7	3233.9	3150.6	2898.0
12.5°	3771.1	3777.1	3797.3	3841.4	3868.8	3862.9	3777.1	3603.2	3442.4	3332.8	2992.1
15°	3821.2	3830.7	3866.4	3924.8	4016.5	4074.9	4033.2	3872.4	3696.1	3566.3	3104.1
17.5°	3876.0	3886.7	3926.0	4009.4	4129.7	4255.9	4301.2	4163.0	3971.3	3816.4	3229.2
20°	3906.9	3921.2	3977.2	4086.8	4227.3	4410.8	4560.9	4488.2	4278.6	4107.0	3373.3
22.5°	3957.0	3968.9	4016.5	4133.2	4301.2	4531.1	4820.5	4805.0	4620.4	4398.9	3531.7
25°	4092.7	4111.8	4135.6	4205.9	4367.9	4653.8	5036.1	5143.3	4951.6	4703.8	3677.0
27.5°	4348.8	4364.3	4363.1	4372.7	4464.4	4759.8	5223.1	5478.0	5280.3	5012.3	3817.6
30°	4640.7	4646.6	4651.4	4630.0	4650.2	4868.2	5394.7	5809.2	5611.4	5329.2	3940.3
32.5°	4995.6	5007.5	4967.0	4912.3	4895.6	5029.0	5536.4	6140.3	6003.3	5650.8	4061.8
35°	5414.9	5445.9	5363.7	5267.2	5199.3	5260.1	5727.0	6478.6	6404.7	6061.7	4222.6
37.5°	5893.7	5931.9	5855.6	5666.2	5569.8	5586.4	5975.9	6896.7	6912.2	6529.8	4462.0
40°	6285.6	6335.7	6338.0	6070.0	5923.5	5942.6	6291.6	7346.9	7524.4	7108.7	4744.3
42.5°	6544.1	6592.9	6644.2	6486.9	6333.3	6441.7	6659.7	7835.3	8212.9	7811.5	5138.6
45°	6827.6	6871.7	6900.3	6828.8	6743.0	7024.1	7103.9	8354.6	8946.6	8596.4	5569.8
47.5°	7156.4	7205.2	7232.6	7164.7	7132.5	7535.1	7582.8	8839.4	9730.4	9358.8	6046.2
50°	7594.7	7631.6	7617.3	7574.4	7567.3	7927.0	8042.6	9293.3	10377.2	10179.5	6540.5
52.5°	8140.2	8184.3	8199.8	8139.0	8111.6	8206.9	8413.0	9706.6	10965.6	10884.6	7068.2
55°	8470.2	8540.5	8776.3	8871.6	8937.1	8569.0	8812.0	10162.8	11493.3	11627.9	7635.2
57.5°	8047.3	8137.9	8665.5	9142.0	9757.8	9474.3	9377.8	10639.2	12021.0	12348.5	8314.1
60°	7015.8	7036.1	7716.2	8594.1	9832.8	10638.1	10558.2	11396.8	12592.7	13075.1	9208.7
62.5°	4867.0	4909.9	5713.9	7114.7	8906.1	11057.3	12566.5	12704.7	13412.2	14162.6	10520.1
65°	2509.7	2453.7	3186.3	4471.5	6714.4	10061.5	14193.6	15109.6	15189.4	15863.6	12366.4
67.5°	1544.9	1569.9	1913.0	2611.0	3970.1	7312.4	14023.3	18048.1	17627.6	17951.6	14080.4
70°	1160.2	1191.1	1427.0	1786.7	2420.4	4180.9	11277.7	18760.4	19347.6	19264.3	14602.2
71°	1008.9	1041.1	1286.4	1625.9	2033.3	3226.8	9501.7	18014.8	19407.2	19392.9	14405.6
72.5°	860.0	880.3	1072.0	1377.0	1714.0	2262.0	7138.5	16156.6	18579.4	19054.6	13704.0
75°	675.4	690.9	776.6	1050.6	1349.6	1388.9	3830.7	12112.7	15259.7	16164.9	11408.7
77.5°	550.3	561.0	605.1	780.2	1041.1	983.9	2009.4	7884.1	9560.1	10471.3	6720.4
80°	437.1	449.1	475.3	528.9	780.2	701.6	958.9	3995.1	4618.0	4608.5	2682.4
82.5°	339.5	343.0	374.0	388.3	533.6	497.9	519.3	1691.4	1873.7	1935.6	968.4
85°	214.4	225.1	331.1	297.8	319.2	291.8	256.1	671.8	827.8	815.9	387.1
87.5°	65.5	69.1	112.0	126.3	141.7	127.5	94.1	197.7	241.8	262.1	96.5
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°	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8	2659.8
2.5°	2675.3	2662.2	2615.7	2577.6	2541.9	2502.6	2469.2	2459.7	2451.4	2447.8	2446.6
5°	2700.3	2661.0	2569.3	2494.2	2434.7	2379.9	2345.4	2329.9	2314.4	2314.4	2319.1
7.5°	2736.0	2664.6	2522.8	2410.9	2335.8	2284.6	2259.6	2257.2	2260.8	2264.4	2265.5
10°	2775.4	2662.2	2454.9	2315.6	2248.9	2225.0	2226.2	2246.5	2265.5	2279.8	2282.2
12.5°	2813.5	2647.9	2375.1	2226.2	2183.4	2188.1	2221.5	2266.7	2303.7	2323.9	2325.1
15°	2856.3	2625.3	2278.6	2141.7	2127.4	2164.3	2226.2	2295.3	2351.3	2384.7	2388.2
17.5°	2892.1	2587.2	2177.4	2059.5	2077.3	2145.2	2231.0	2320.3	2388.2	2429.9	2437.1
20°	2932.6	2538.3	2072.6	1980.9	2032.1	2123.8	2221.5	2318.0	2388.2	2428.7	2438.3
22.5°	2964.7	2469.2	1972.5	1916.5	1991.6	2097.6	2189.3	2266.7	2323.9	2345.4	2359.6
25°	2977.8	2382.3	1878.4	1864.1	1959.4	2054.7	2116.7	2160.7	2178.6	2176.2	2182.2
27.5°	2970.7	2282.2	1797.4	1822.4	1918.9	1988.0	2019.0	2015.4	1983.2	1953.5	1967.8
30°	2940.9	2163.1	1729.5	1779.6	1866.5	1904.6	1899.9	1853.4	1792.7	1736.7	1740.3
32.5°	2887.3	2034.5	1666.4	1730.7	1792.7	1809.3	1777.2	1716.4	1629.5	1556.8	1546.1
35°	2842.1	1911.8	1610.4	1674.7	1718.8	1710.5	1679.5	1600.9	1522.3	1458.0	1447.2
37.5°	2834.9	1807.0	1556.8	1611.6	1636.6	1624.7	1586.6	1519.9	1491.3	1442.5	1436.5
40°	2873.0	1733.1	1502.0	1544.9	1556.8	1547.3	1505.6	1467.5	1493.7	1481.8	1481.8
42.5°	2976.7	1693.8	1453.2	1478.2	1487.7	1494.9	1465.1	1432.9	1465.1	1410.3	1392.4
45°	3141.0	1695.0	1409.1	1412.7	1441.3	1466.3	1446.0	1398.4	1381.7	1272.1	1250.7
47.5°	3382.8	1735.5	1373.4	1350.8	1402.0	1443.7	1415.1	1346.0	1272.1	1199.5	1186.4
50°	3665.1	1808.1	1341.2	1286.4	1349.6	1415.1	1393.6	1312.6	1236.4	1192.3	1184.0
52.5°	3978.4	1899.9	1301.9	1215.0	1285.2	1402.0	1398.4	1307.9	1203.0	1173.3	1166.1
55°	4365.5	1990.4	1253.1	1131.6	1228.1	1391.2	1385.3	1268.6	1195.9	1174.5	1172.1
57.5°	4815.8	2121.4	1182.8	1047.0	1162.6	1347.2	1334.1	1244.7	1172.1	1156.6	1155.4
60°	5541.2	2325.1	1082.7	969.6	1095.8	1269.8	1286.4	1204.2	1134.0	1130.4	1129.2
62.5°	6495.3	2611.0	979.1	889.8	1018.4	1169.7	1217.3	1149.4	1093.5	1111.3	1113.7
65°	7812.7	2851.6	871.9	821.9	932.7	1073.2	1151.8	1098.2	1048.2	1082.7	1082.7
67.5°	8671.5	2856.3	774.2	751.6	845.7	992.2	1082.7	1037.5	989.8	1048.2	1050.6
70°	8492.8	2502.6	693.2	677.8	761.1	905.3	1006.5	970.8	916.0	968.4	949.3
71°	8204.6	2306.0	661.1	649.2	727.8	863.6	970.8	941.0	886.2	920.7	910.0
72.5°	7744.8	2002.3	608.7	611.1	677.8	811.2	920.7	889.8	835.0	854.0	850.5
75°	6546.5	1748.6	520.5	531.2	582.5	721.8	820.7	796.9	740.9	740.9	737.3
77.5°	4092.7	1222.1	432.4	438.3	494.3	618.2	705.2	684.9	631.3	613.4	608.7
80°	1527.0	631.3	338.3	345.4	380.0	487.2	583.7	564.6	509.8	489.6	470.5
82.5°	577.7	316.8	248.9	243.0	279.9	371.6	457.4	434.8	391.9	343.0	328.8
85°	218.0	157.2	152.5	147.7	164.4	220.4	283.5	278.7	233.5	198.9	195.3
87.5°	57.2	51.2	59.6	44.1	46.5	41.7	42.9	17.9	8.3	3.6	2.4
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)