

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: P456635

Luminaire Tested: **GALN-SA7D-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456635
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-SA7D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 42739 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 433
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

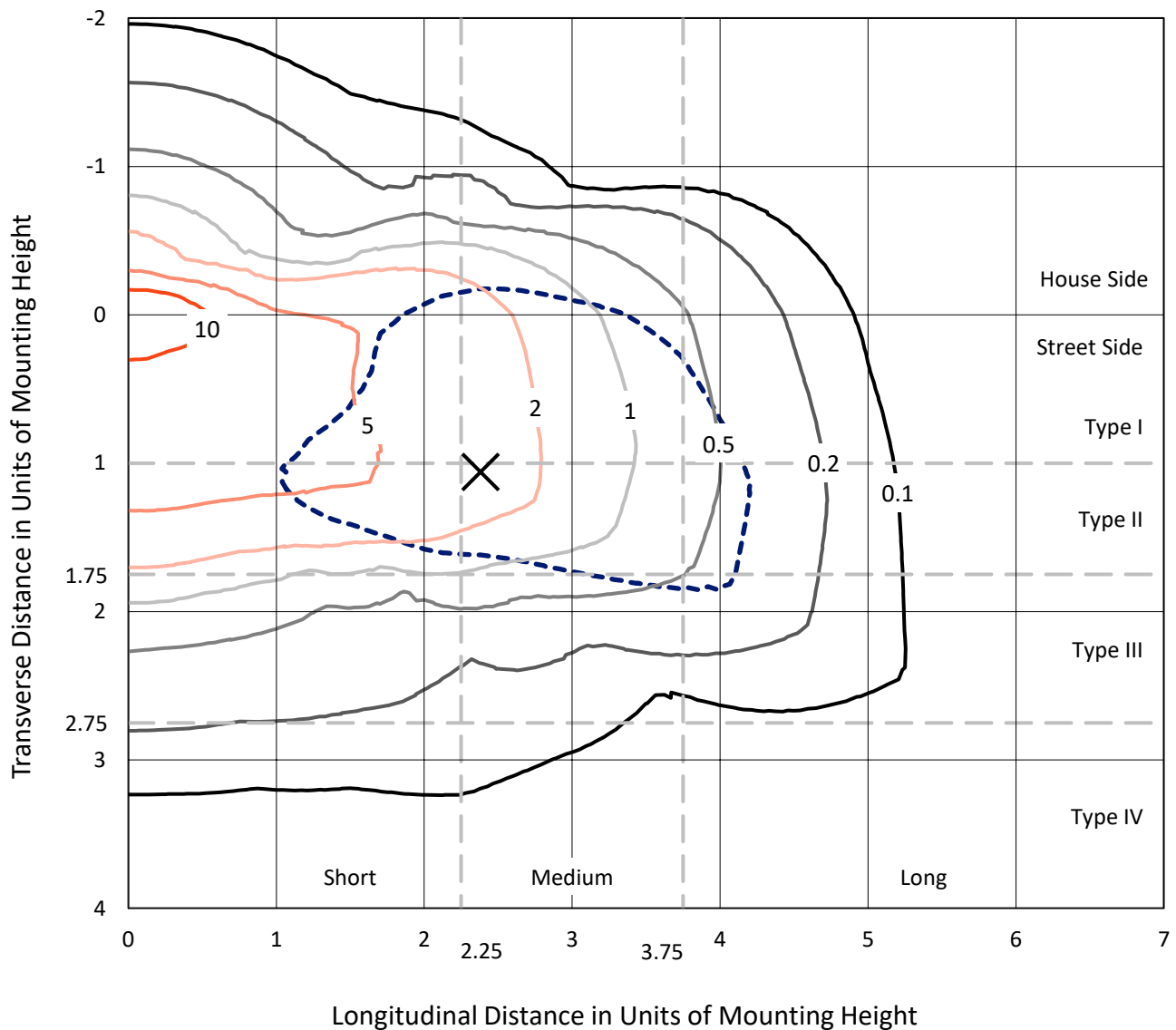


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

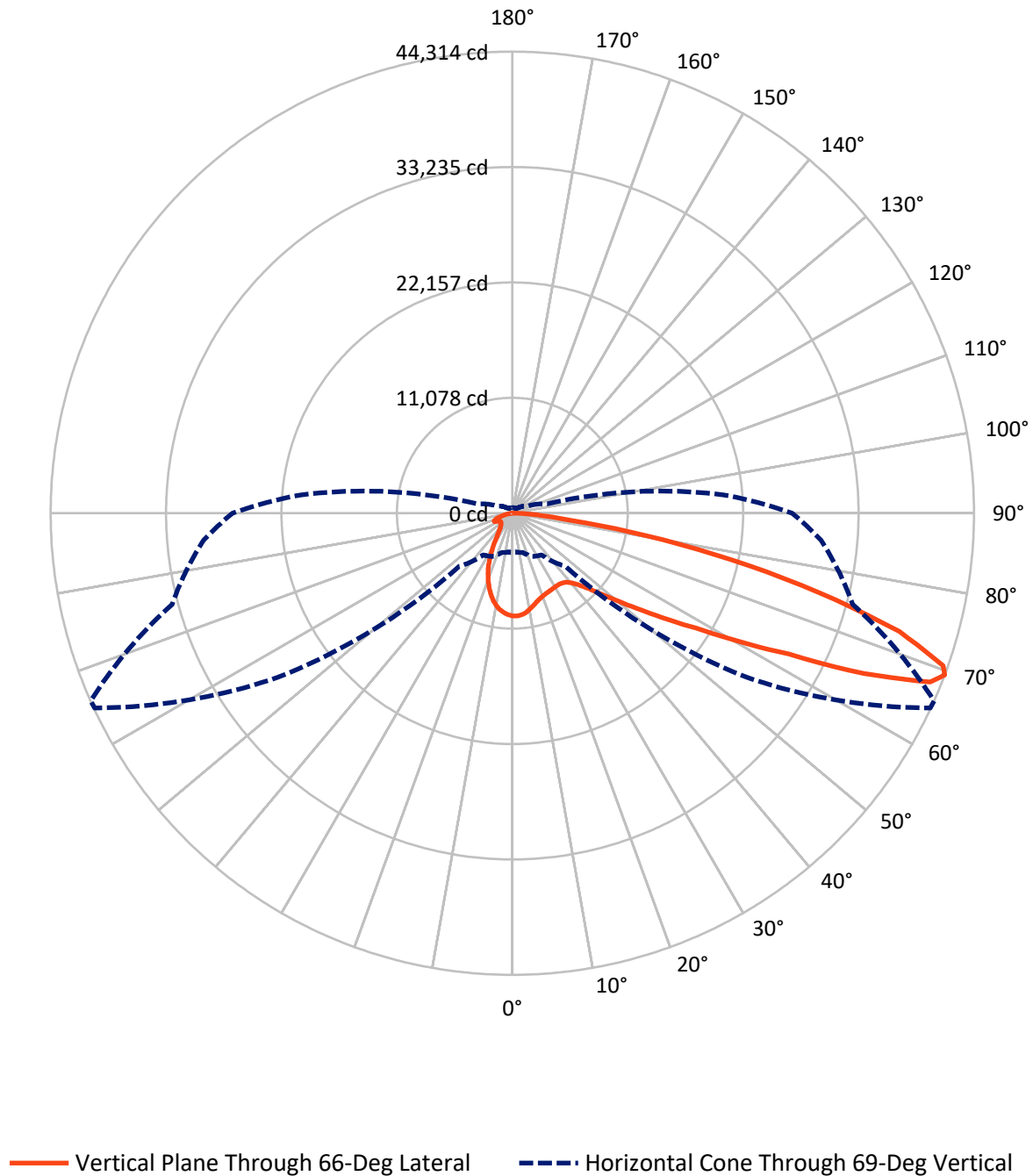


Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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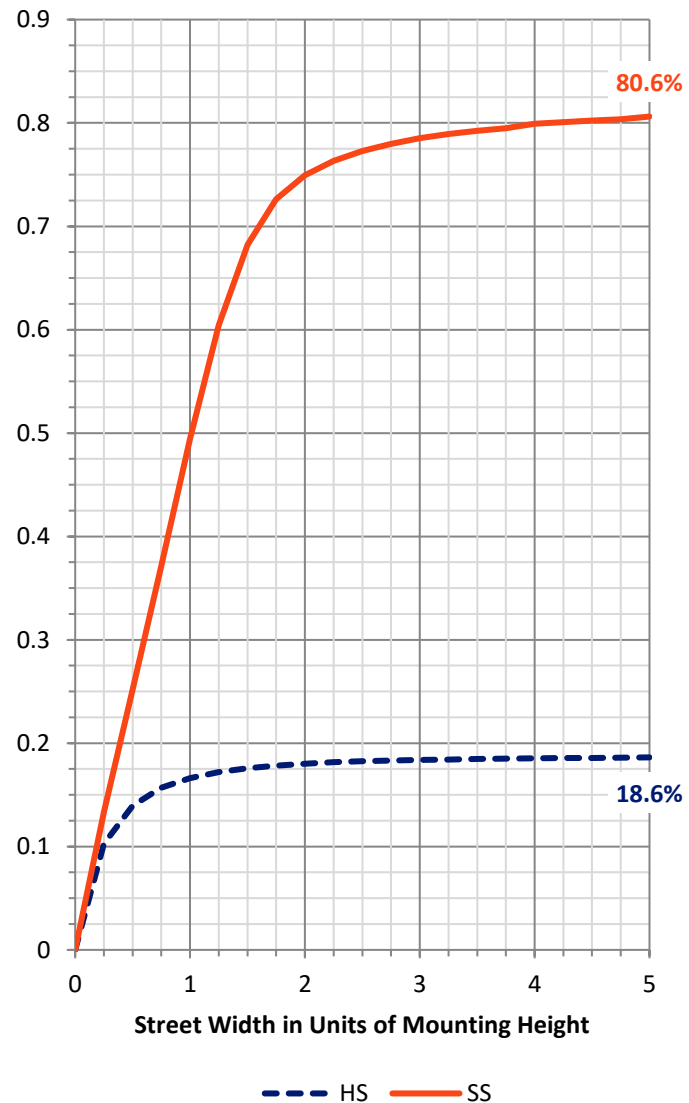
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8037.6	0.0	8037.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34701.4	0.0	34701.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	42739.0	0.0	42739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.1	2.0
10°-20°	2032.9	4.8
20°-30°	2767.5	6.5
30°-40°	3719.0	8.7
40°-50°	5553.0	13.0
50°-60°	8833.0	20.7
60°-70°	10864.1	25.4
70°-80°	7068.7	16.5
80°-90°	1043.8	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°	42739.0	100.0
0°-180°	42739.0	100.0

Coefficient of Utilization



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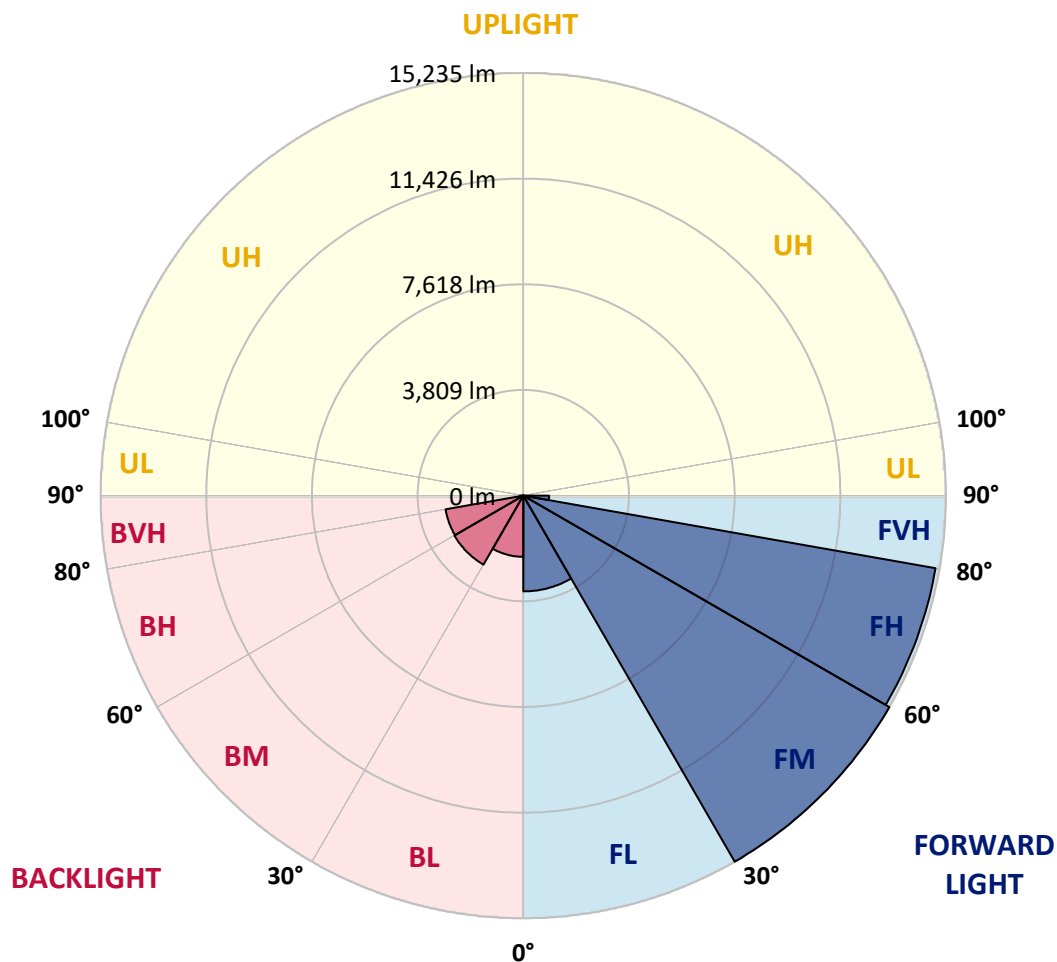
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3451.1	8.1			
FM	(30°-60°)	15235.2	35.6			
FH	(60°-80°)	15087.1	35.3			G5
FVH	(80°-90°)	928.0	2.2			G5
BL	(0°-30°)	2206.4	5.2	B3/2500		
BM	(30°-60°)	2869.8	6.7	B3/5000		
BH	(60°-80°)	2845.7	6.7	B4/5000		G4/5000
BVH	(80°-90°)	115.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6
2.5°	9524.1	9561.9	9604.5	9651.9	9741.8	9791.5	9827.0	9867.3	9872.0	9893.3	9876.7
5°	8821.1	8866.1	8930.0	9019.9	9154.8	9365.5	9583.2	9760.7	9782.1	9881.5	9909.9
7.5°	8234.2	8260.2	8312.3	8456.6	8648.3	8882.7	9199.8	9559.6	9611.6	9848.3	9931.2
10°	7756.1	7782.1	7843.6	7992.7	8182.1	8475.6	8823.5	9296.9	9339.5	9746.5	9935.9
12.5°	7398.7	7422.3	7488.6	7635.3	7853.1	8127.6	8511.1	9012.8	9074.4	9611.6	9890.9
15°	7126.5	7171.5	7225.9	7346.6	7576.2	7841.3	8212.9	8752.5	8802.2	9469.6	9860.2
17.5°	7010.5	7031.8	7069.7	7180.9	7349.0	7609.3	7983.3	8548.9	8608.1	9370.2	9853.1
20°	7015.2	7036.5	7043.6	7105.2	7225.9	7450.7	7820.0	8388.0	8459.0	9282.7	9864.9
22.5°	7176.2	7178.6	7152.5	7131.2	7178.6	7365.5	7704.0	8267.3	8350.1	9244.8	9874.4
25°	7424.7	7467.3	7429.4	7330.0	7242.5	7332.4	7659.0	8201.0	8279.1	9190.3	9862.5
27.5°	7827.1	7834.2	7803.4	7668.5	7441.3	7375.0	7640.1	8151.3	8217.6	9150.1	9803.4
30°	8366.7	8345.4	8317.0	8167.9	7810.5	7538.3	7680.3	8106.3	8175.0	9090.9	9732.3
32.5°	8913.4	8979.7	8953.7	8778.5	8314.6	7855.5	7810.5	8101.6	8158.4	9046.0	9654.2
35°	9493.3	9524.1	9647.1	9557.2	9081.5	8369.1	8054.3	8175.0	8220.0	9048.3	9599.8
37.5°	9947.7	10030.6	10319.3	10397.4	9950.1	9048.3	8449.5	8383.3	8402.2	9164.3	9621.1
40°	10496.8	10638.8	11010.4	11329.9	11036.5	9931.2	9121.7	8769.1	8792.7	9443.6	9760.7
42.5°	11192.7	11292.1	11791.5	12224.6	12177.3	11098.0	9935.9	9401.0	9412.8	9999.8	10151.3
45°	12006.9	12148.9	12709.8	13360.7	13471.9	12418.7	11112.2	10357.2	10350.1	10863.7	10880.3
47.5°	13048.3	13135.8	13692.0	14402.1	14851.8	14077.8	12539.4	11729.9	11654.2	12122.8	11987.9
50°	14006.8	14144.1	14565.4	15341.7	16461.2	16021.0	14416.3	13509.8	13332.3	13770.1	13542.9
52.5°	14409.2	14553.6	14908.6	15871.9	17841.1	18534.5	16799.7	15632.8	15337.0	15673.1	15590.2
55°	13711.0	13897.9	14229.3	15400.9	18447.0	21433.9	20013.8	18087.2	17871.8	17727.5	17751.1
57.5°	11834.1	12011.6	12458.9	13751.2	17722.7	23538.0	24603.1	21242.2	20780.6	20115.6	20229.2
60°	9008.1	9119.3	9351.3	10783.2	15576.0	24084.7	29814.8	25230.3	24936.8	22494.2	22574.7
62.5°	6397.5	6522.9	6683.9	7398.7	11403.3	22543.9	33895.2	30799.4	29750.9	24958.1	24880.0
65°	5195.2	5110.0	5304.0	5637.8	6691.0	17471.8	34813.5	38529.4	37085.6	28203.0	27119.0
67.5°	4272.1	4182.2	4373.9	4967.9	5088.7	10141.8	31504.7	43547.0	43258.3	31731.9	29393.5
69°	3782.2	3734.8	3902.9	4579.8	4885.1	7202.2	27445.6	44245.3	44313.9	33812.3	29743.8
70°	3408.2	3427.1	3590.5	4383.3	4792.8	5938.3	23457.5	43282.0	43864.2	34851.4	29365.1
72.5°	2508.8	2549.1	2776.3	3630.7	4705.2	5039.0	13959.5	37805.2	38834.7	34912.9	26863.4
75°	1753.8	1734.9	1936.1	2733.7	4444.9	4994.0	8198.7	29237.3	30404.1	30176.9	22572.3
77.5°	1147.9	1178.7	1339.6	1931.3	3739.6	4956.1	5344.3	20742.8	21500.2	20181.8	13351.2
80°	809.5	807.1	897.0	1318.3	2773.9	4762.0	4376.2	13074.3	12882.6	7931.2	3959.7
82.5°	463.9	497.0	601.2	927.8	1855.6	4191.6	4026.0	6253.1	5708.8	2260.3	1337.3
85°	258.0	269.8	357.4	560.9	1084.0	3157.3	3514.7	2844.9	2684.0	944.4	575.1
87.5°	82.8	89.9	149.1	284.0	492.3	1491.1	1990.5	1313.6	1211.8	340.8	231.9
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°	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6	9869.6
2.5°	9883.8	9912.2	9836.5	9763.1	9696.8	9604.5	9521.7	9453.1	9405.7	9398.6	9375.0
5°	9917.0	9919.3	9774.9	9580.9	9391.5	9183.2	8967.9	8814.0	8669.6	8589.2	8548.9
7.5°	9940.6	9919.3	9659.0	9344.2	8979.7	8601.0	8222.3	7919.4	7685.1	7592.7	7628.2
10°	9931.2	9864.9	9483.8	8979.7	8449.5	7883.9	7339.5	6913.5	6522.9	6321.8	6326.5
12.5°	9879.1	9770.2	9223.5	8570.2	7791.6	7034.2	6201.1	5625.9	5173.9	4906.4	4823.6
15°	9834.1	9644.8	8918.2	8014.0	7046.0	5964.4	4949.0	4239.0	3860.3	3649.6	3647.3
17.5°	9786.8	9524.1	8584.4	7424.7	6189.2	4797.5	3732.5	3190.5	3013.0	3034.3	2998.8
20°	9737.1	9382.1	8236.5	6769.1	5145.5	3578.6	2795.2	2575.1	2624.8	2721.8	2736.0
22.5°	9680.3	9230.6	7862.6	6047.2	4047.3	2693.4	2267.4	2234.3	2362.1	2513.6	2534.9
25°	9592.7	9041.2	7391.6	5292.2	3121.8	2170.4	1985.8	2009.4	2134.9	2262.7	2276.9
27.5°	9469.6	8806.9	6915.8	4350.2	2345.5	1862.7	1815.3	1846.1	1907.7	1985.8	2004.7
30°	9304.0	8541.8	6369.1	3536.0	1879.3	1708.8	1689.9	1706.5	1742.0	1775.1	1784.6
32.5°	9138.3	8286.2	5817.6	2707.6	1675.7	1607.1	1588.1	1588.1	1588.1	1592.9	1595.2
35°	8984.4	8044.8	5225.9	2108.8	1569.2	1526.6	1500.6	1472.2	1467.4	1450.9	1450.9
37.5°	8899.2	7824.7	4596.4	1765.6	1491.1	1460.3	1424.8	1377.5	1351.5	1353.8	1349.1
40°	8915.8	7680.3	4023.6	1571.6	1427.2	1394.1	1339.6	1285.2	1268.6	1268.6	1263.9
42.5°	9102.8	7633.0	3474.5	1469.8	1365.7	1327.8	1259.1	1209.4	1200.0	1197.6	1202.3
45°	9533.5	7749.0	2982.2	1403.5	1313.6	1256.8	1188.1	1143.2	1133.7	1133.7	1131.3
47.5°	10373.8	8125.3	2629.5	1360.9	1275.7	1202.3	1131.3	1086.4	1069.8	1065.1	1065.1
50°	11680.2	8941.8	2366.8	1323.1	1228.4	1152.6	1079.3	1027.2	1001.2	998.8	996.4
52.5°	13495.6	10215.2	2265.0	1294.6	1176.3	1100.6	1020.1	970.4	937.3	930.2	925.4
55°	15618.6	11992.7	2404.7	1273.3	1121.9	1041.4	958.6	906.5	875.7	861.5	859.2
57.5°	18077.7	14127.5	2934.9	1244.9	1072.2	977.5	897.0	845.0	811.8	795.3	790.5
60°	20286.0	16321.6	3860.3	1228.4	1029.6	908.9	826.0	778.7	747.9	731.3	729.0
62.5°	22712.0	18413.8	4965.6	1273.3	1010.6	842.6	759.7	717.1	691.1	674.5	674.5
65°	25303.6	20508.5	5696.9	1424.8	1039.0	790.5	688.7	653.2	629.6	617.7	615.4
67.5°	27050.3	21232.7	4693.4	1581.0	1110.0	733.7	620.1	591.7	577.5	565.7	565.7
69°	26861.0	20316.7	3462.7	1621.3	1131.3	705.3	582.2	560.9	542.0	537.3	532.5
70°	26262.2	19273.0	2901.7	1595.2	1114.8	679.3	558.6	532.5	516.0	511.2	508.9
72.5°	23391.2	16714.5	2160.9	1387.0	949.1	589.3	494.7	471.0	456.8	449.7	449.7
75°	19433.9	13661.3	1687.5	1102.9	743.2	497.0	423.7	404.7	392.9	388.2	385.8
77.5°	10892.1	7628.2	1211.8	863.9	563.3	402.4	355.0	338.5	326.6	321.9	321.9
80°	3034.3	2179.8	712.4	570.4	383.4	305.3	281.7	269.8	253.2	241.4	248.5
82.5°	1143.2	944.4	407.1	343.2	243.8	203.5	196.4	187.0	179.9	163.3	163.3
85°	556.2	459.2	260.3	182.2	134.9	106.5	101.8	97.0	92.3	80.5	82.8
87.5°	191.7	203.5	113.6	66.3	40.2	26.0	21.3	11.8	11.8	11.8	11.8
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)