

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: P456188

Luminaire Tested: **GALN-SA7B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32229 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 286
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

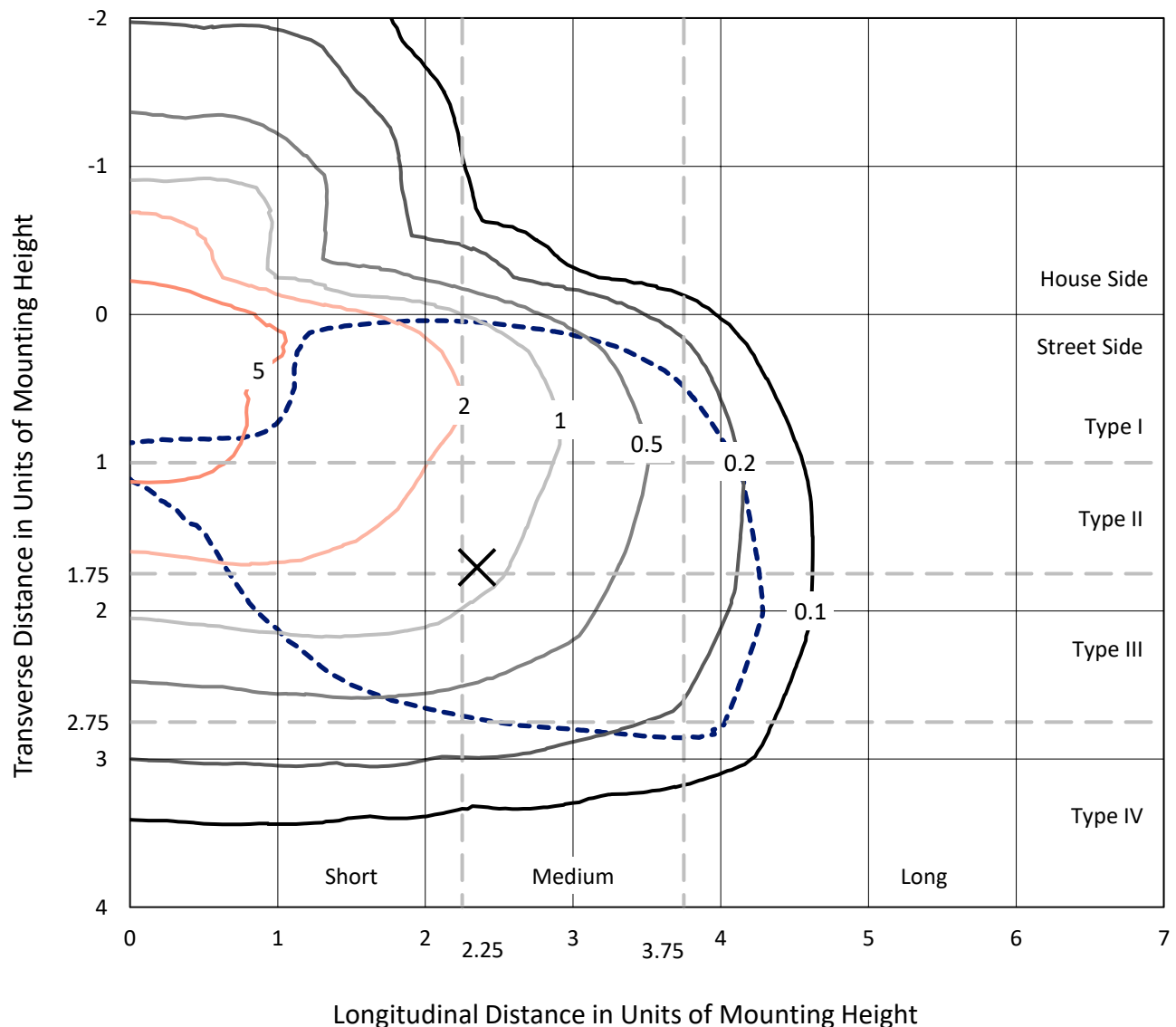


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

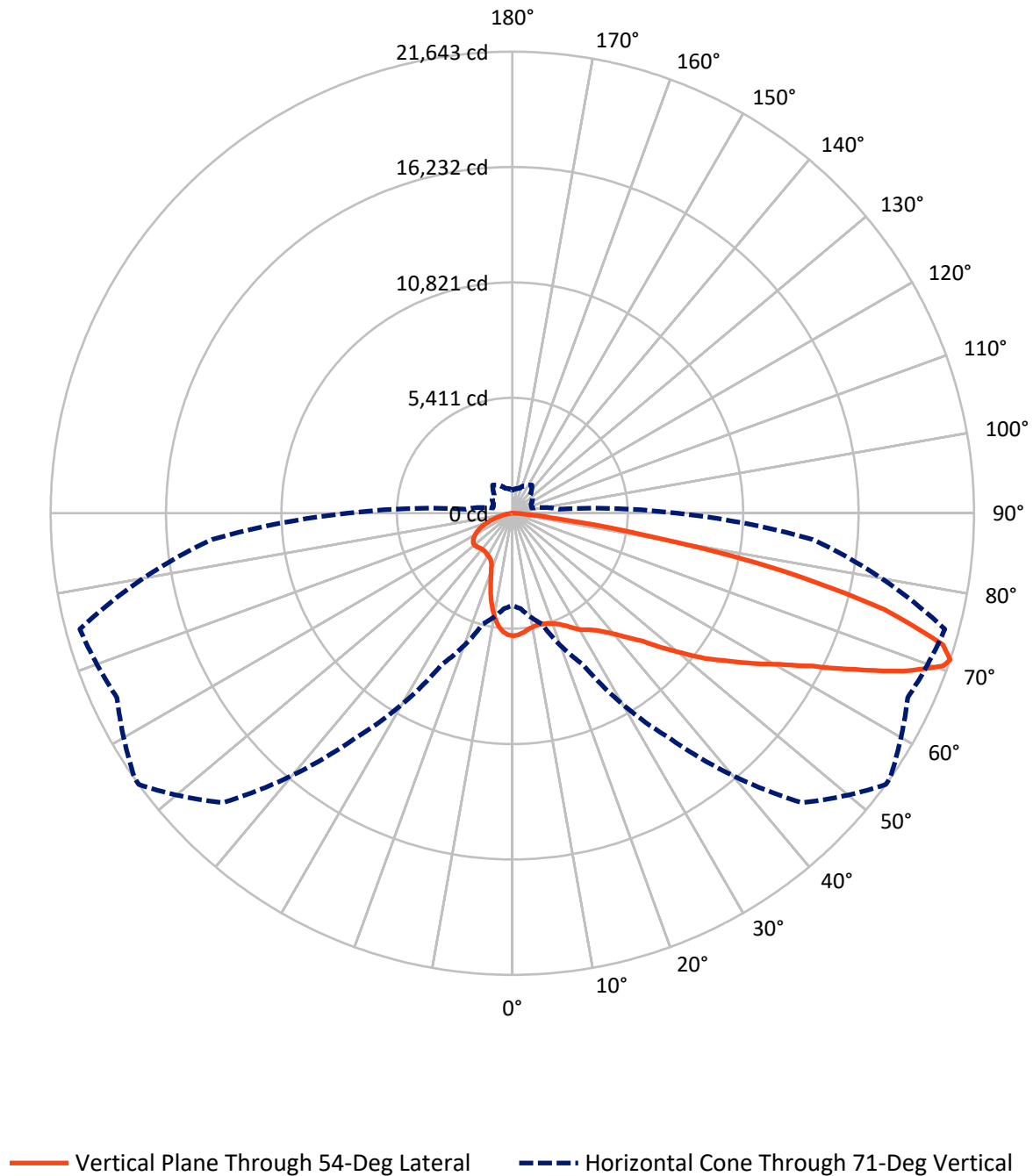


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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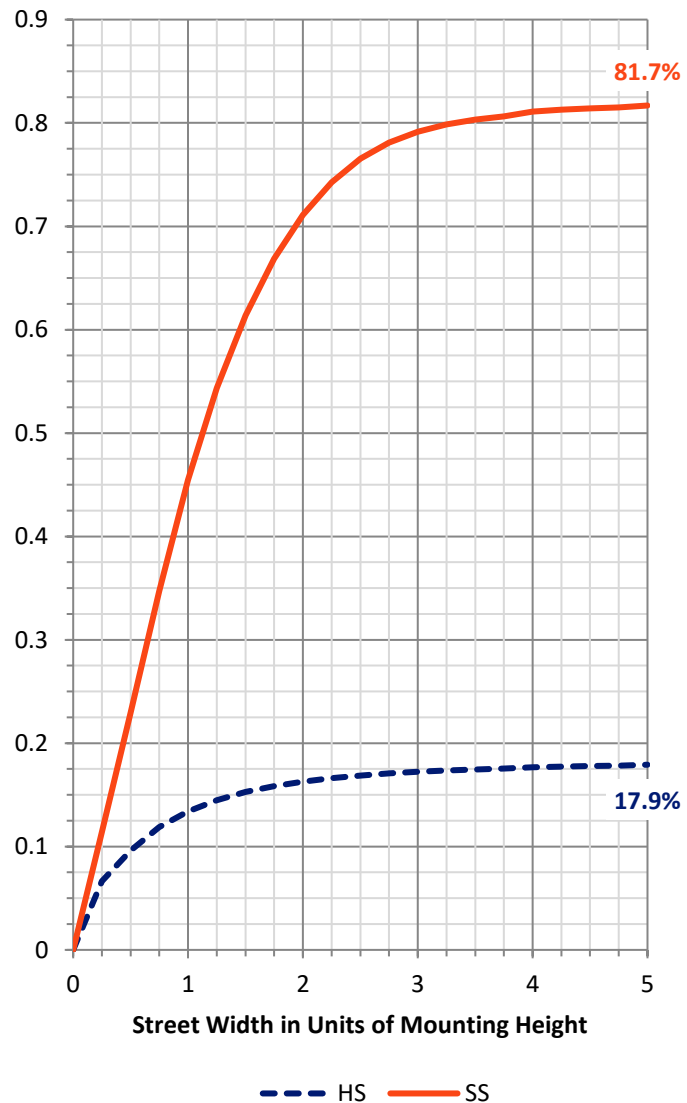
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5818.7	0.0	5818.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26410.3	0.0	26410.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	32229.0	0.0	32229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.4	1.6
10°-20°	1353.1	4.2
20°-30°	2252.9	7.0
30°-40°	3331.3	10.3
40°-50°	4692.2	14.6
50°-60°	6283.1	19.5
60°-70°	7919.4	24.6
70°-80°	5408.9	16.8
80°-90°	475.7	1.5
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°	32229.0	100.0
0°-180°	32229.0	100.0

Coefficient of Utilization



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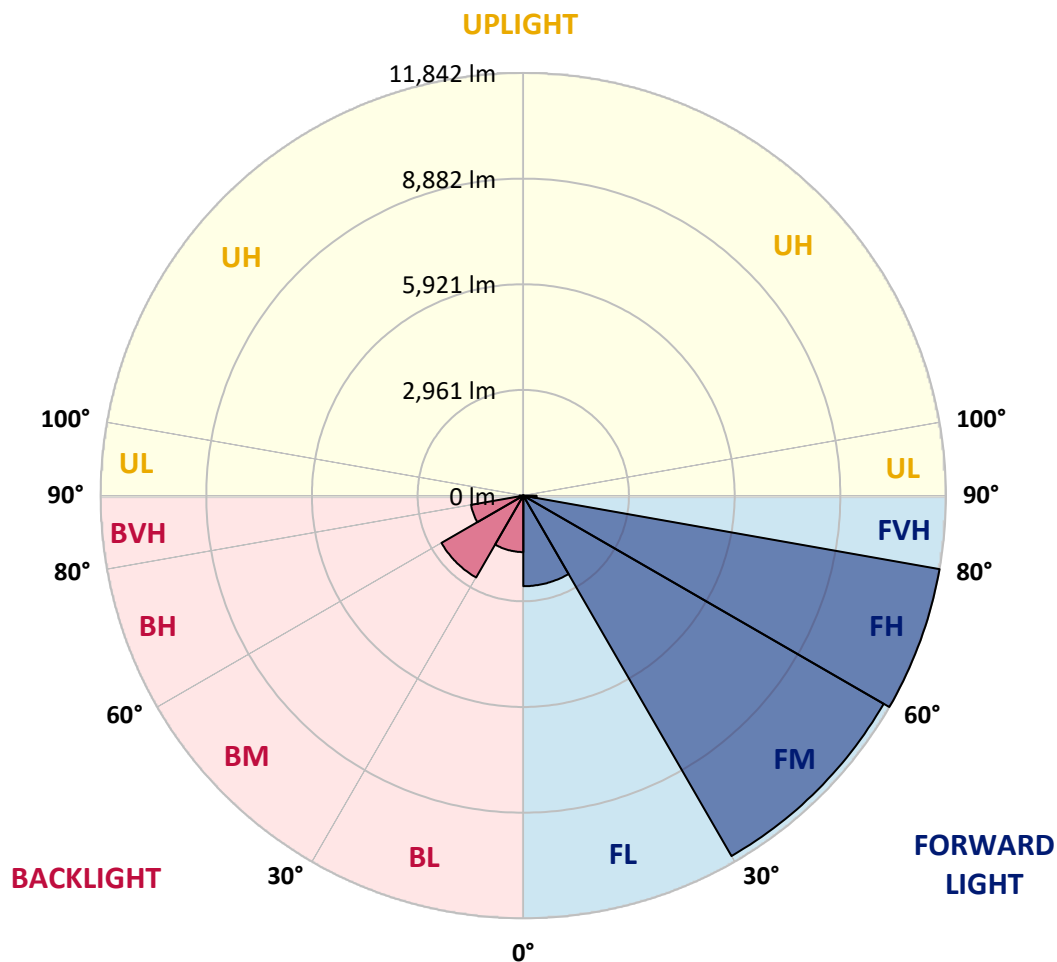
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2536.9	7.9			
FM	(30°-60°)	11659.3	36.2			
FH	(60°-80°)	11842.2	36.7			G4/12000
FVH	(80°-90°)	371.8	1.2			G3/500
BL	(0°-30°)	1581.4	4.9	B3/2500		
BM	(30°-60°)	2647.4	8.2	B3/5000		
BH	(60°-80°)	1486.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	103.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1
2.5°	5555.2	5581.3	5588.2	5605.6	5642.2	5671.8	5701.4	5697.9	5739.7	5757.1	5772.8
5°	5307.9	5314.9	5341.0	5375.8	5440.3	5522.1	5602.2	5603.9	5706.6	5788.4	5828.5
7.5°	5126.9	5149.5	5166.9	5203.5	5271.4	5360.2	5487.3	5497.7	5680.5	5842.4	5927.7
10°	5008.5	5034.6	5053.8	5099.0	5166.9	5266.2	5403.7	5422.8	5661.3	5927.7	6077.4
12.5°	4900.6	4926.7	4944.1	5003.3	5092.1	5213.9	5368.9	5391.5	5668.3	6026.9	6241.1
15°	4966.7	4987.6	4980.7	4998.1	5057.3	5196.5	5382.8	5405.4	5694.4	6122.7	6403.0
17.5°	5260.9	5278.4	5220.9	5154.7	5126.9	5229.6	5426.3	5450.7	5746.6	6221.9	6568.3
20°	5694.4	5741.4	5616.1	5468.1	5334.1	5348.0	5516.9	5543.0	5819.8	6321.1	6737.2
22.5°	6258.5	6293.3	6140.1	5896.4	5649.2	5522.1	5652.6	5668.3	5929.4	6450.0	6921.7
25°	6921.7	6942.6	6730.2	6416.9	6060.0	5819.8	5838.9	5866.8	6110.5	6596.2	7085.4
27.5°	7565.9	7632.0	7386.6	7003.6	6533.5	6133.1	6094.8	6112.2	6307.2	6678.0	7198.5
30°	8330.1	8324.9	8065.5	7621.6	7019.2	6474.3	6336.8	6333.3	6413.4	6718.1	7280.4
32.5°	8939.4	9010.8	8756.6	8272.7	7574.6	6827.7	6503.9	6497.0	6495.2	6787.7	7402.2
35°	9632.3	9642.7	9409.5	8922.0	8175.2	7271.7	6737.2	6702.4	6662.4	6937.4	7567.6
37.5°	10252.0	10300.8	10086.7	9540.0	8765.3	7733.0	7057.5	7034.9	6913.0	7196.8	7832.2
40°	10736.0	10772.6	10643.7	10123.2	9346.8	8230.9	7464.9	7423.1	7275.1	7621.6	8185.6
42.5°	10894.4	10969.3	11019.8	10763.9	10015.3	8821.0	7966.3	7914.0	7800.9	8265.7	8593.0
45°	10906.6	11025.0	11291.4	11303.5	10687.3	9527.8	8551.2	8514.7	8505.9	9090.9	9165.7
47.5°	10814.4	10934.5	11381.9	11623.9	11286.1	10241.6	9395.5	9338.1	9343.3	10111.0	9808.1
50°	10591.5	10734.3	11277.4	11829.3	11754.4	10983.2	10286.9	10267.7	10375.7	11275.7	10474.9
52.5°	10172.0	10344.3	11169.5	11958.1	12102.6	11622.1	11300.1	11246.1	11519.4	12539.6	11204.3
55°	9010.8	9270.2	10774.3	12029.5	12433.4	12233.2	12212.3	12309.8	12671.9	13918.3	12006.9
57.5°	8405.0	8600.0	9916.1	12041.7	12851.2	12943.5	13277.7	13302.1	13935.8	15382.4	12913.9
60°	8074.2	8246.6	9446.0	11961.6	13434.4	13822.6	14367.5	14454.5	15170.0	16968.4	13853.9
62.5°	7785.2	7933.2	9164.0	11684.8	14092.4	15126.5	15779.3	15821.1	16571.4	18719.7	14781.8
65°	7104.5	7273.4	8596.5	11408.0	14660.0	16756.0	17652.5	17603.8	18063.4	20230.8	15363.3
67.5°	6187.1	6401.2	7536.3	10452.3	14940.2	18536.9	19762.5	19701.6	19536.2	21221.3	15530.4
70°	5015.5	5130.4	6180.1	8800.2	13820.9	19471.8	21428.5	21364.1	20448.4	21351.9	14740.0
71°	4315.6	4495.0	5381.1	7816.6	12889.5	19186.3	21642.6	21625.2	20450.1	20991.5	14144.7
72.5°	3368.6	3478.3	4261.7	6056.5	10955.4	17563.8	21113.4	21179.6	20006.2	19990.5	12917.3
75°	2130.8	2179.6	2674.0	3565.3	6011.3	12438.6	18023.3	18202.7	17764.0	16362.5	9606.2
77.5°	1237.8	1300.4	1601.6	2101.2	2597.4	6751.1	12896.4	13091.4	12342.8	9009.1	3932.7
80°	720.7	790.4	1055.0	1220.4	1192.5	2505.1	6566.6	6899.1	5344.5	2275.3	1103.7
82.5°	400.4	447.4	741.6	743.4	635.4	818.2	2066.4	2162.2	1525.0	917.4	450.9
85°	290.7	329.0	478.7	433.5	304.7	351.7	719.0	753.8	616.3	386.5	146.2
87.5°	102.7	146.2	262.9	208.9	83.6	73.1	207.2	168.9	156.7	107.9	33.1
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°	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1	5750.1
2.5°	5781.5	5784.9	5767.5	5736.2	5704.9	5664.8	5619.6	5584.7	5569.1	5567.3	5565.6
5°	5844.1	5852.8	5786.7	5689.2	5581.3	5449.0	5335.8	5207.0	5173.9	5121.7	5137.3
7.5°	5945.1	5939.9	5809.3	5602.2	5349.7	5069.4	4832.7	4695.2	4552.4	4512.4	4514.1
10°	6089.6	6056.5	5809.3	5424.6	5003.3	4587.2	4256.5	4047.5	3934.4	3840.4	3805.6
12.5°	6242.8	6159.2	5753.6	5175.6	4557.6	4047.5	3692.4	3410.4	3337.3	3260.7	3262.4
15°	6389.0	6249.8	5643.9	4825.7	4077.1	3471.3	3126.6	2957.8	2935.1	2943.8	2942.1
17.5°	6521.3	6314.2	5476.8	4435.8	3516.6	2976.9	2794.1	2806.3	2867.2	2910.8	2916.0
20°	6655.4	6352.5	5227.9	3913.5	2987.4	2677.5	2684.4	2780.2	2872.5	2931.6	2940.3
22.5°	6782.5	6369.9	4935.4	3408.6	2604.4	2550.4	2653.1	2755.8	2846.3	2903.8	2912.5
25°	6866.0	6329.8	4521.1	2881.2	2416.3	2505.1	2613.1	2700.1	2776.7	2835.9	2849.8
27.5°	6888.7	6201.0	4007.5	2454.6	2329.3	2461.6	2560.8	2625.2	2684.4	2740.1	2750.6
30°	6876.5	6011.3	3443.5	2204.0	2278.8	2411.1	2487.7	2534.7	2606.1	2649.6	2658.3
32.5°	6857.3	5790.2	2855.0	2069.9	2237.0	2364.1	2409.4	2451.2	2449.4	2432.0	2444.2
35°	6864.3	5525.6	2378.0	1989.8	2200.5	2329.3	2367.6	2315.4	2165.7	2158.7	2151.7
37.5°	6900.9	5264.4	2031.6	1934.1	2181.3	2324.1	2345.0	2104.7	1972.4	1911.5	1895.8
40°	6994.9	4959.8	1803.6	1892.3	2179.6	2364.1	2242.3	1998.5	1744.4	1626.0	1617.3
42.5°	7120.2	4660.3	1664.3	1866.2	2200.5	2425.0	2200.5	1848.8	1572.0	1502.4	1491.9
45°	7306.5	4317.4	1587.7	1854.0	2231.8	2447.7	2186.5	1739.1	1502.4	1446.7	1446.7
47.5°	7517.1	3990.1	1545.9	1845.3	2271.9	2432.0	2062.9	1704.3	1469.3	1476.3	1509.3
50°	7726.0	3706.3	1514.6	1826.2	2306.7	2423.3	2012.5	1702.6	1478.0	1566.8	1626.0
52.5°	7968.0	3506.1	1476.3	1794.8	2306.7	2367.6	1996.8	1737.4	1502.4	1528.5	1554.6
55°	8260.5	3443.5	1427.5	1727.0	2264.9	2228.3	1988.1	1787.9	1519.8	1458.9	1469.3
57.5°	8647.0	3544.4	1380.5	1641.7	2169.1	2083.8	1984.6	1801.8	1479.7	1429.3	1418.8
60°	9096.1	3744.6	1366.6	1554.6	2038.6	1960.2	1963.7	1761.8	1424.0	1371.8	1380.5
62.5°	9411.2	3864.8	1357.9	1488.5	1895.8	1824.4	1913.2	1713.0	1399.7	1354.4	1363.1
65°	9411.2	3718.5	1277.8	1387.5	1711.3	1660.8	1852.3	1652.1	1368.3	1316.1	1307.4
67.5°	9054.3	3292.0	1155.9	1236.0	1507.6	1474.5	1767.0	1579.0	1321.3	1281.3	1260.4
70°	8124.7	2496.4	1002.7	1058.5	1250.0	1279.5	1657.3	1479.7	1243.0	1194.2	1162.9
71°	7715.6	2174.4	938.3	967.9	1150.7	1194.2	1605.1	1438.0	1208.2	1138.5	1082.8
72.5°	6927.0	1831.4	840.8	853.0	983.6	1061.9	1495.4	1357.9	1142.0	1042.8	980.1
75°	5262.7	1337.0	677.2	670.2	727.7	842.6	1265.6	1209.9	1001.0	867.0	830.4
77.5°	2273.6	727.7	506.6	511.8	494.4	638.9	995.8	1039.3	858.3	705.1	672.0
80°	689.4	419.6	346.4	353.4	330.8	428.3	701.6	814.7	689.4	548.4	503.1
82.5°	353.4	250.7	236.8	233.3	210.6	242.0	424.8	557.1	492.7	343.0	302.9
85°	153.2	134.0	116.6	113.2	99.2	87.0	151.5	278.5	261.1	191.5	182.8
87.5°	38.3	34.8	22.6	20.9	12.2	1.7	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)