

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: P455461

Luminaire Tested: **GALN-SA6C-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30391 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321
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



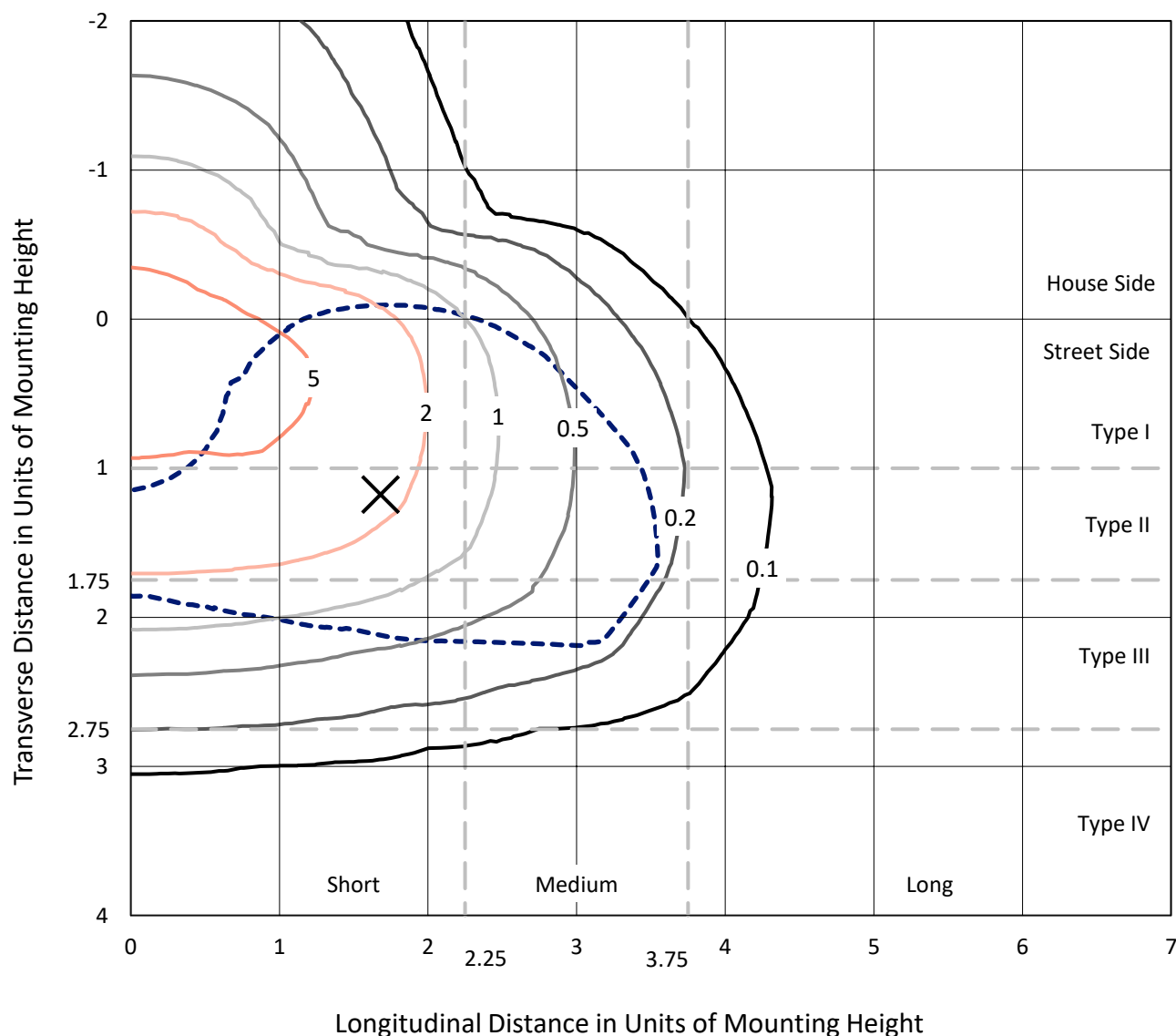
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

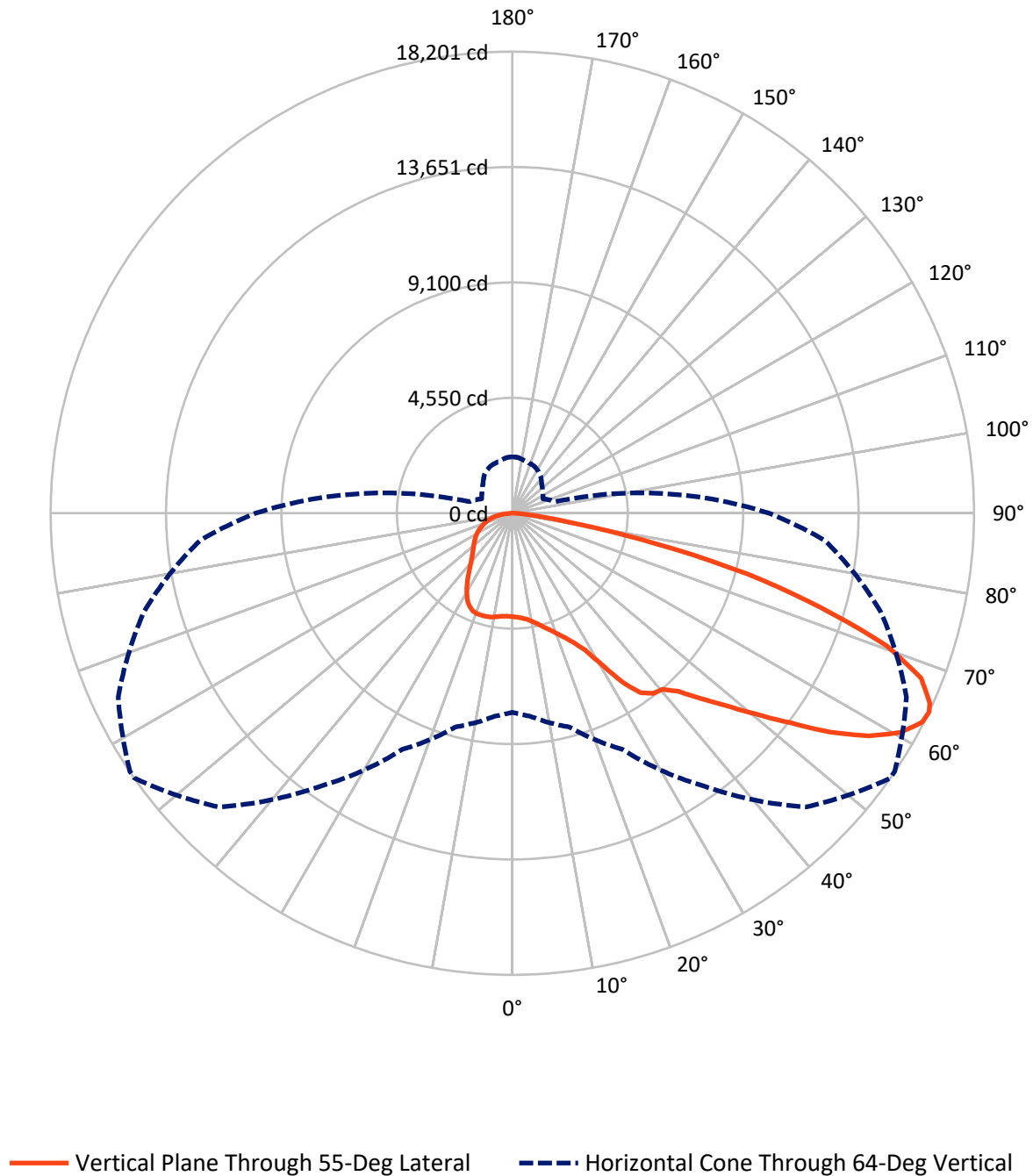


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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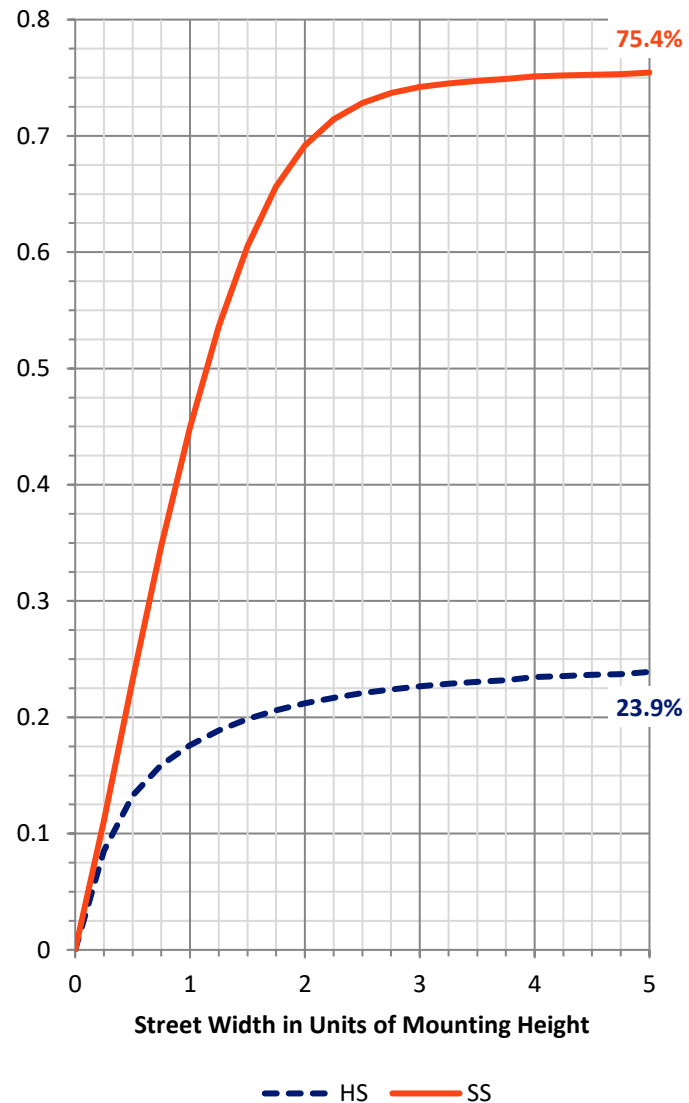
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7382.6	0.0	7382.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	23008.4	0.0	23008.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	30391.0	0.0	30391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.6	1.3
10°-20°	1251.5	4.1
20°-30°	2228.0	7.3
30°-40°	3428.0	11.3
40°-50°	4859.5	16.0
50°-60°	7034.1	23.1
60°-70°	7279.5	24.0
70°-80°	3409.0	11.2
80°-90°	504.7	1.7
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°	30391.0	100.0
0°-180°	30391.0	100.0

Coefficient of Utilization



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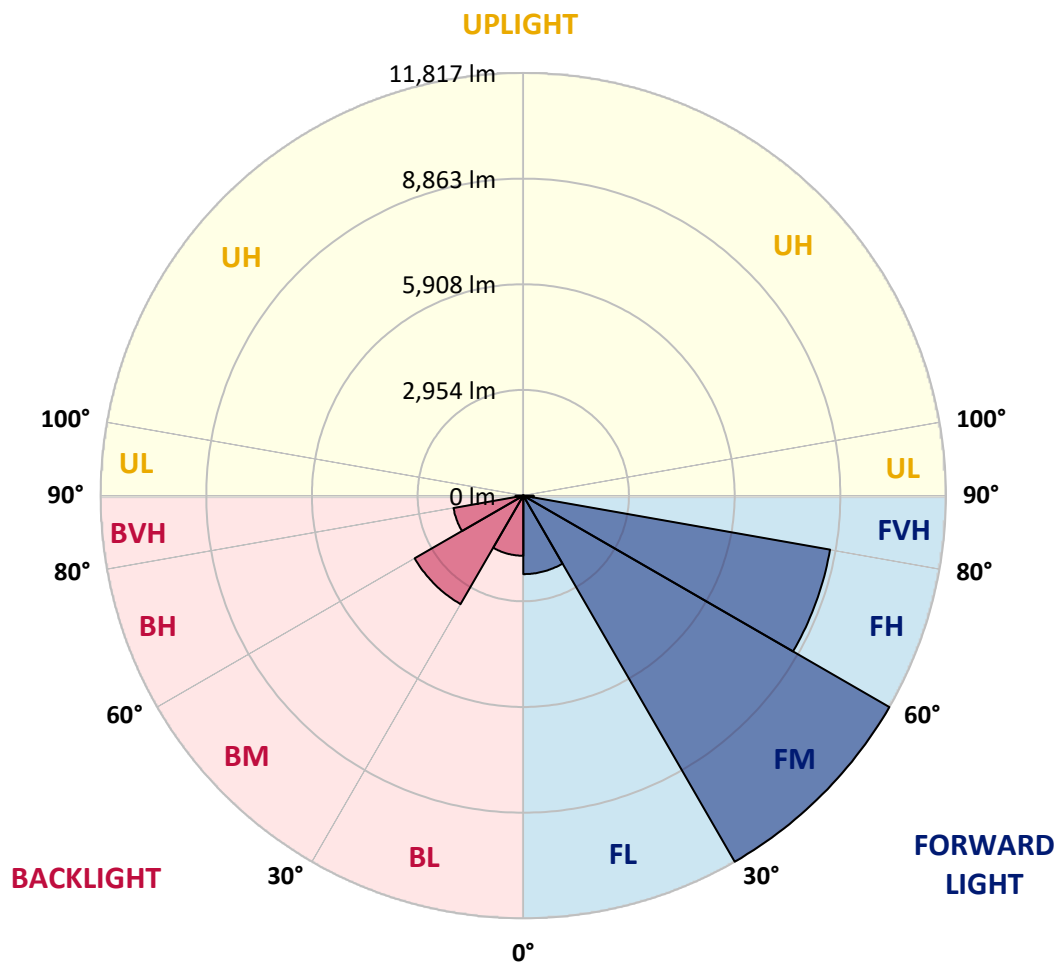
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2194.7	7.2			
FM	(30°-60°)	11816.9	38.9			
FH	(60°-80°)	8707.9	28.7			G4/12000
FVH	(80°-90°)	289.0	1.0			G3/500
BL	(0°-30°)	1681.5	5.5	B3/2500		
BM	(30°-60°)	3504.8	11.5	B3/5000		
BH	(60°-80°)	1980.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	215.7	0.7			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6
2.5°	4123.3	4121.6	4126.7	4121.6	4125.0	4113.1	4108.0	4111.4	4106.4	4097.9	4082.6
5°	4174.1	4172.4	4174.1	4167.3	4170.7	4164.0	4152.1	4155.5	4147.0	4128.4	4106.4
7.5°	4260.5	4253.7	4253.7	4252.0	4245.3	4235.1	4226.6	4223.2	4214.8	4191.1	4157.2
10°	4372.3	4372.3	4374.0	4360.5	4368.9	4350.3	4341.8	4340.1	4311.3	4280.8	4233.4
12.5°	4519.7	4528.2	4523.1	4516.3	4512.9	4506.1	4477.3	4484.1	4451.9	4399.4	4341.8
15°	4702.7	4716.2	4707.7	4704.3	4695.9	4670.5	4658.6	4653.5	4611.2	4534.9	4458.7
17.5°	4944.9	4928.0	4921.2	4912.7	4877.1	4858.5	4838.2	4834.8	4797.5	4707.7	4589.2
20°	5156.7	5180.4	5166.8	5158.4	5122.8	5087.2	5072.0	5066.9	5034.7	4936.4	4746.7
22.5°	5409.1	5414.2	5419.2	5398.9	5382.0	5354.9	5327.8	5319.3	5307.4	5205.8	4973.7
25°	5678.4	5698.8	5681.8	5661.5	5641.2	5639.5	5664.9	5661.5	5656.4	5558.1	5275.2
27.5°	6117.2	6135.8	6140.9	6118.9	6040.9	6047.7	6105.3	6124.0	6201.9	6039.3	5663.2
30°	6364.5	6383.1	6425.5	6508.5	6632.2	6740.6	6879.5	6921.8	6996.4	6689.8	6124.0
32.5°	6517.0	6523.7	6600.0	6754.1	7125.1	7530.0	7907.8	7923.0	7970.5	7540.2	6545.8
35°	6757.5	6762.6	6823.6	6993.0	7428.4	8102.6	8687.0	8705.7	8666.7	7804.4	6742.3
37.5°	7054.0	7067.5	7106.5	7247.1	7767.2	8582.0	9010.6	8997.0	8651.5	8014.5	7089.6
40°	7486.0	7486.0	7440.2	7630.0	8124.6	8856.4	9124.1	9100.4	9008.9	8622.7	7618.1
42.5°	7867.1	7860.3	7968.8	8097.5	8571.8	9280.0	9600.1	9639.1	9789.9	9386.7	8219.5
45°	8363.5	8394.0	8455.0	8688.7	9332.5	10003.3	10416.7	10453.9	10667.4	10286.2	8922.5
47.5°	8864.9	8875.1	9066.5	9378.2	10274.4	10984.2	11323.0	11384.0	11578.8	11338.2	9679.7
50°	9220.7	9317.2	9623.8	10115.1	11245.0	12180.1	12444.4	12517.3	12861.2	12483.4	10562.3
52.5°	9596.7	9691.6	10066.0	10814.8	12359.7	13403.2	13728.5	13777.6	14135.1	13642.1	11465.3
55°	9918.6	10006.7	10431.9	11434.8	13247.4	14651.8	15241.3	15183.7	15354.8	14534.9	12161.5
57.5°	9971.1	10042.3	10577.6	11831.2	13914.8	15722.4	16567.7	16601.6	16403.4	15202.3	12735.8
60°	9564.6	9710.2	10325.2	11788.8	14214.7	16467.8	17557.0	17580.7	17018.3	15544.5	12964.5
62.5°	8844.6	8829.3	9573.0	11107.8	13794.6	16637.2	18139.8	18114.4	17258.9	15380.2	12742.6
64°	7850.2	8033.1	8727.7	10271.0	13117.0	16376.3	18200.8	18187.2	17143.7	15038.0	12364.8
65°	7243.7	7233.6	7919.6	9586.6	12442.7	15983.3	18092.3	18073.7	16903.1	14731.4	12071.7
67.5°	5229.5	5253.2	5930.8	7397.9	10115.1	14446.8	17385.9	17316.5	15954.5	13714.9	10957.1
70°	3167.9	3181.4	3713.3	4907.6	7260.7	11678.7	15671.6	15675.0	14502.7	12197.1	9325.7
72.5°	1668.6	1704.2	1917.7	2786.7	4409.6	8194.1	12713.8	13015.3	12451.2	10409.9	7367.4
75°	928.3	933.4	1084.2	1373.9	2249.7	4585.8	9556.1	9642.5	9857.6	8378.7	5448.0
77.5°	708.1	718.3	765.7	887.7	1224.8	2126.0	5783.5	6217.1	6947.3	5907.1	3108.6
80°	574.3	584.4	625.1	697.9	814.8	1008.0	2686.7	2920.5	3718.4	2622.4	1212.9
82.5°	447.2	440.5	493.0	540.4	592.9	596.3	1102.8	1219.7	1514.5	1128.2	525.2
85°	332.0	332.0	374.4	364.2	382.9	349.0	486.2	537.0	606.5	479.4	243.9
87.5°	132.1	145.7	245.6	220.2	171.1	137.2	179.6	189.7	210.1	188.0	101.6
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°	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6	4077.6
2.5°	4084.3	4089.4	4077.6	4069.1	4065.7	4060.6	4055.5	4057.2	4064.0	4070.8	4069.1
5°	4104.7	4106.4	4086.0	4075.9	4069.1	4062.3	4062.3	4067.4	4080.9	4091.1	4091.1
7.5°	4155.5	4155.5	4126.7	4108.0	4097.9	4086.0	4082.6	4084.3	4094.5	4108.0	4109.7
10°	4235.1	4228.3	4191.1	4162.3	4143.6	4114.8	4089.4	4075.9	4080.9	4089.4	4089.4
12.5°	4331.7	4313.0	4265.6	4226.6	4180.9	4126.7	4074.2	4047.1	4045.4	4053.8	4050.5
15°	4435.0	4414.7	4348.6	4277.5	4197.8	4118.2	4055.5	4016.6	3986.1	3977.6	3996.2
17.5°	4555.3	4512.9	4421.4	4323.2	4204.6	4101.3	4003.0	3923.4	3869.2	3853.9	3859.0
20°	4701.0	4645.1	4521.4	4367.2	4199.5	4040.3	3887.8	3781.1	3693.0	3665.9	3669.3
22.5°	4902.6	4806.0	4624.7	4389.3	4157.2	3925.1	3713.3	3574.4	3467.7	3425.3	3450.8
25°	5131.2	5026.2	4723.0	4384.2	4047.1	3740.4	3506.7	3325.4	3228.8	3166.2	3179.7
27.5°	5446.3	5260.0	4828.0	4338.4	3889.5	3515.1	3244.1	3073.0	2984.9	2952.7	2968.0
30°	5849.5	5563.2	4941.5	4214.8	3640.5	3230.5	2979.8	2868.0	2815.5	2774.8	2788.4
32.5°	6140.9	5776.7	4966.9	4006.4	3371.1	2971.3	2800.2	2717.2	2659.6	2620.7	2629.2
35°	6349.3	5957.9	4955.1	3750.6	3089.9	2757.9	2657.9	2590.2	2497.0	2412.3	2397.1
37.5°	6628.8	6184.9	4868.7	3471.1	2812.1	2613.9	2542.8	2417.4	2283.6	2170.1	2165.0
40°	7057.4	6450.9	4684.0	3142.4	2574.9	2507.2	2420.8	2258.2	2114.2	2022.7	2015.9
42.5°	7499.5	6696.5	4433.3	2796.9	2380.1	2395.4	2290.3	2129.4	2041.3	1982.0	1975.3
45°	8039.9	6962.5	4162.3	2497.0	2236.1	2290.3	2176.8	2083.7	2031.2	1992.2	1982.0
47.5°	8624.4	7235.2	3857.3	2227.7	2114.2	2193.8	2129.4	2087.1	2058.3	2031.2	2019.3
50°	9254.5	7540.2	3571.0	2010.8	2004.0	2093.8	2124.3	2109.1	2092.1	2083.7	2073.5
52.5°	9945.7	7851.9	3330.5	1858.4	1907.5	2022.7	2126.0	2137.9	2137.9	2132.8	2126.0
55°	10413.3	8068.7	3086.5	1734.7	1809.2	1965.1	2122.6	2168.4	2185.3	2178.5	2171.8
57.5°	10758.8	8187.3	2779.9	1628.0	1726.2	1909.2	2104.0	2171.8	2188.7	2197.2	2193.8
60°	10830.0	8077.2	2378.4	1516.2	1636.4	1827.9	2036.2	2120.9	2143.0	2195.5	2200.6
62.5°	10509.8	7738.4	1978.6	1406.1	1526.3	1704.2	1944.8	2063.3	2107.4	2188.7	2197.2
64°	10116.8	7358.9	1756.7	1336.6	1455.2	1634.7	1899.0	2048.1	2105.7	2214.1	2220.9
65°	9828.8	7082.8	1617.8	1292.6	1409.4	1589.0	1873.6	2053.2	2120.9	2253.1	2263.2
67.5°	8768.4	6132.4	1338.3	1189.2	1301.0	1511.1	1878.7	2095.5	2117.6	2268.3	2266.6
70°	7255.6	4882.2	1121.5	1094.4	1196.0	1448.4	1858.4	2027.8	2029.5	2129.4	2105.7
72.5°	5432.8	3608.3	972.4	996.1	1079.1	1299.3	1755.0	1936.3	1907.5	1921.0	1897.3
75°	3732.0	2386.9	836.9	891.1	957.1	1148.6	1609.3	1758.4	1712.7	1695.7	1678.8
77.5°	1992.2	1319.7	696.3	787.7	831.8	992.7	1404.4	1548.4	1500.9	1434.9	1412.8
80°	806.4	621.7	560.7	652.2	677.6	799.6	1168.9	1258.7	1223.1	1107.9	1070.6
82.5°	404.9	372.7	440.5	513.3	515.0	570.9	869.0	953.7	874.1	733.5	701.3
85°	211.8	218.5	303.2	360.8	318.5	308.3	521.8	577.7	530.2	460.8	415.0
87.5°	76.2	88.1	159.2	157.5	111.8	59.3	115.2	55.9	30.5	18.6	23.7
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)