

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: P455722

Luminaire Tested: **GALN-SA6D-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455722
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-SA6D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36149 lumens
Efficiency: N/A
Efficacy: 98.2 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): 368
Input Voltage (V): NR
Input Current (A_{in}): 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

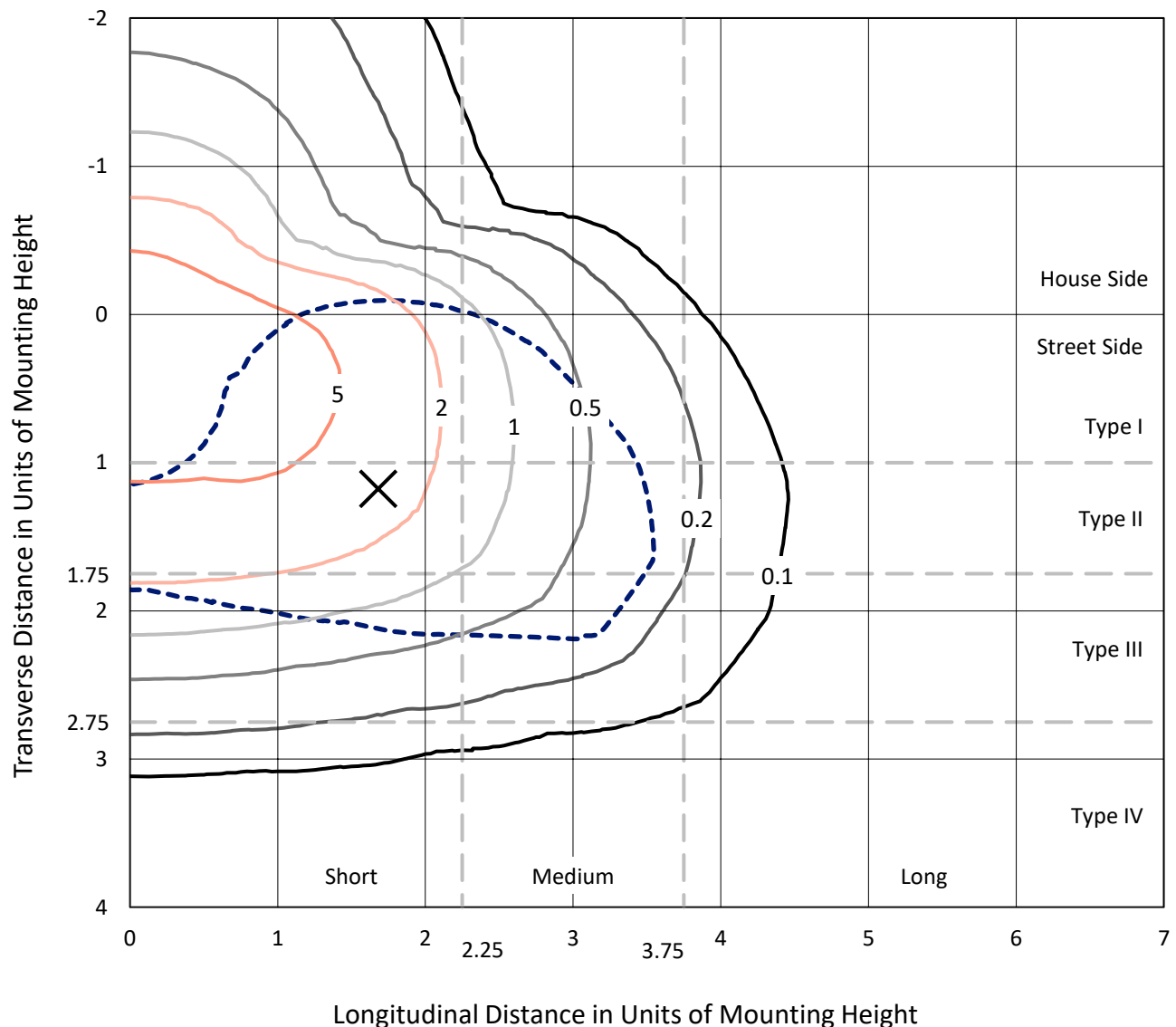


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

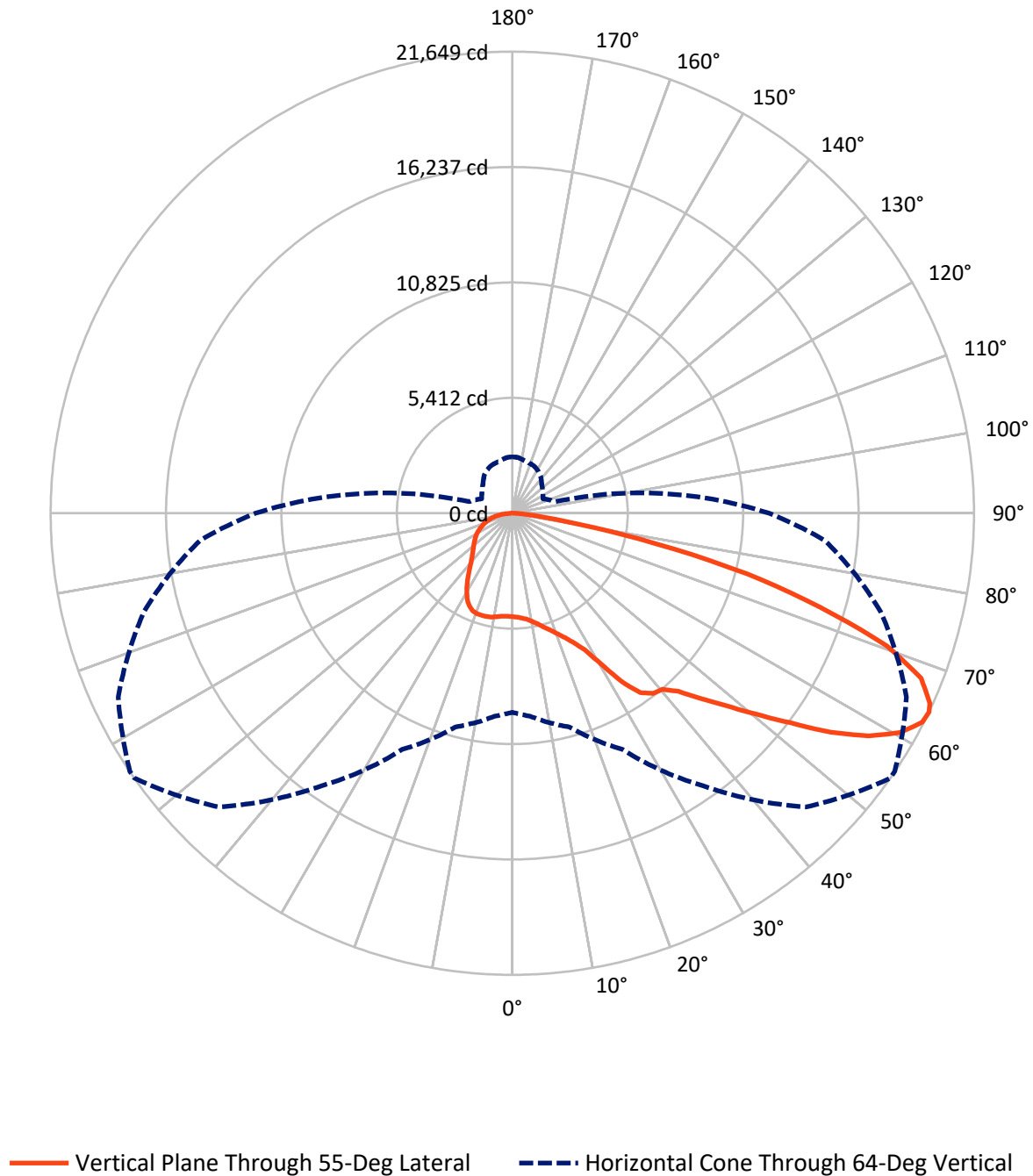


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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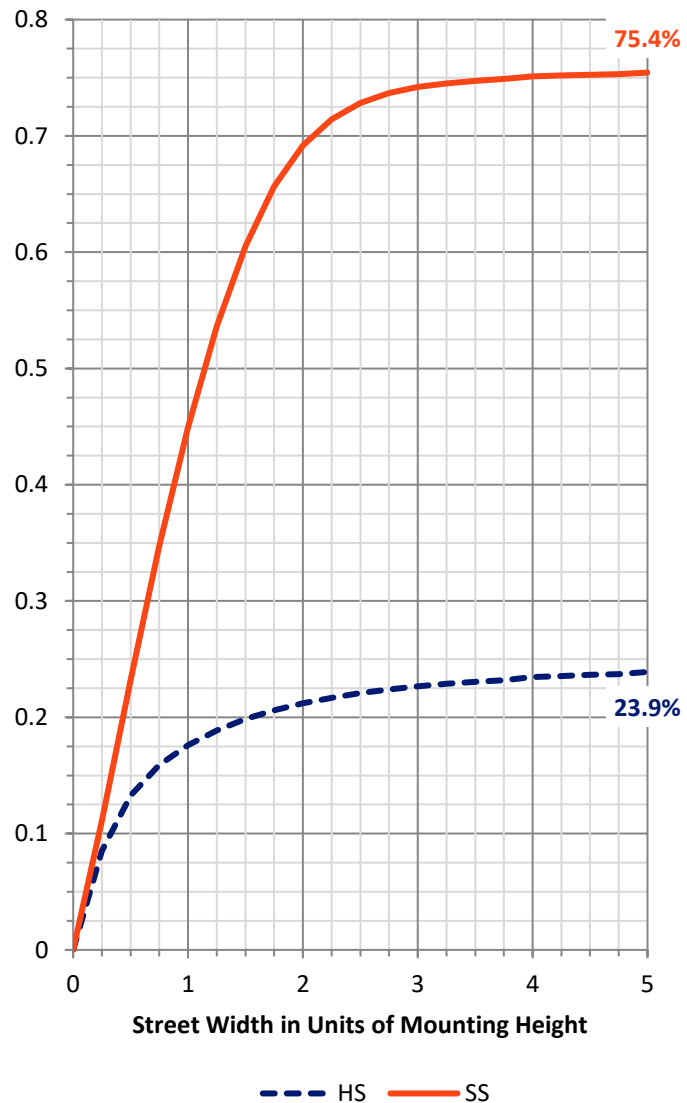
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8781.3	0.0	8781.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	27367.7	0.0	27367.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	36149.0	0.0	36149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	1.3
10°-20°	1488.6	4.1
20°-30°	2650.2	7.3
30°-40°	4077.5	11.3
40°-50°	5780.2	16.0
50°-60°	8366.8	23.1
60°-70°	8658.7	24.0
70°-80°	4054.9	11.2
80°-90°	600.3	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°	36149.0	100.0
0°-180°	36149.0	100.0

Coefficient of Utilization



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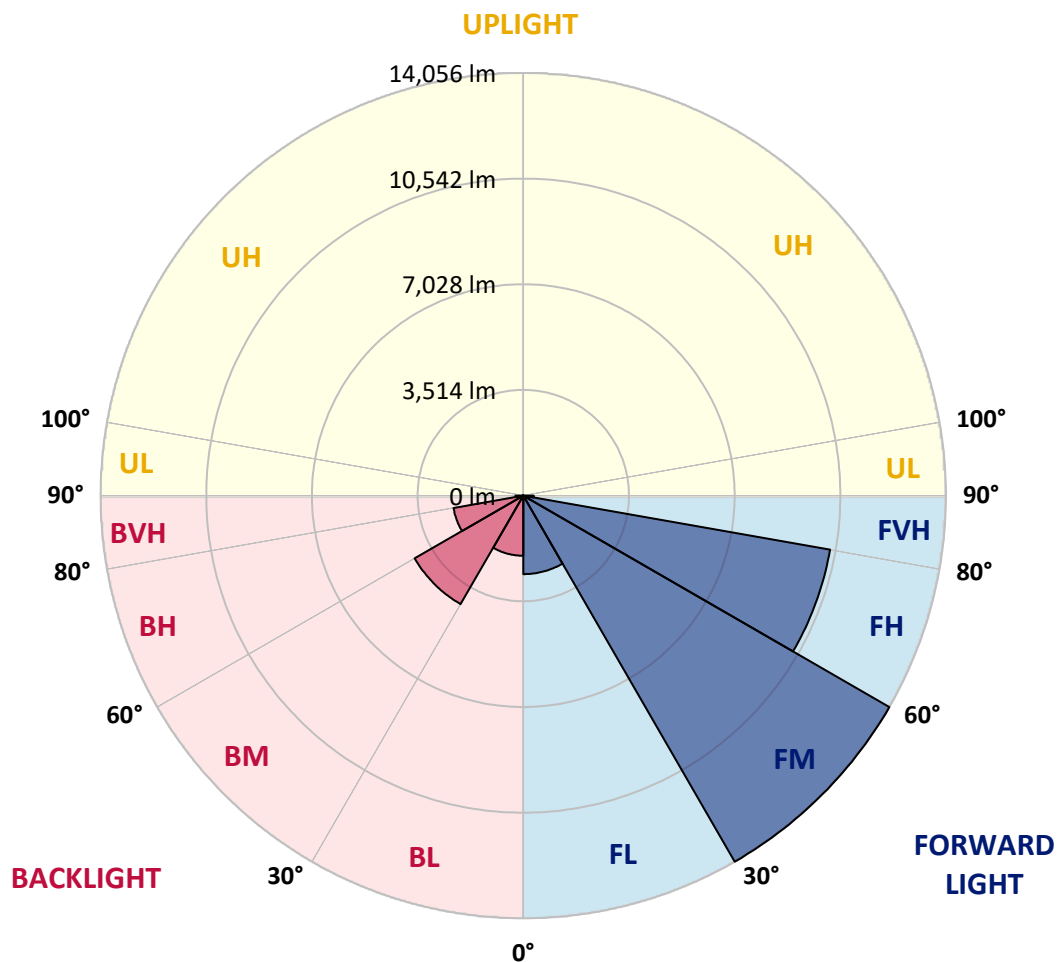
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2610.5	7.2			
FM	(30°-60°)	14055.7	38.9			
FH	(60°-80°)	10357.7	28.7			G4/12000
FVH	(80°-90°)	343.7	1.0			G3/500
BL	(0°-30°)	2000.0	5.5	B3/2500		
BM	(30°-60°)	4168.8	11.5	B3/5000		
BH	(60°-80°)	2355.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	256.6	0.7			G3/500
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°	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1
2.5°	4904.5	4902.5	4908.5	4902.5	4906.5	4892.4	4886.4	4890.4	4884.4	4874.3	4856.1
5°	4965.0	4962.9	4965.0	4956.9	4960.9	4952.9	4938.8	4942.8	4932.7	4910.6	4884.4
7.5°	5067.7	5059.7	5059.7	5057.6	5049.6	5037.5	5027.4	5023.4	5013.3	4985.1	4944.8
10°	5200.7	5200.7	5202.7	5186.6	5196.7	5174.5	5164.4	5162.4	5128.2	5091.9	5035.5
12.5°	5376.0	5386.1	5380.0	5372.0	5368.0	5359.9	5325.6	5333.7	5295.4	5233.0	5164.4
15°	5593.6	5609.8	5599.7	5595.7	5585.6	5555.4	5541.2	5535.2	5484.8	5394.2	5303.5
17.5°	5881.8	5861.6	5853.6	5843.5	5801.2	5779.0	5754.8	5750.8	5706.5	5599.7	5458.6
20°	6133.7	6161.9	6145.7	6135.7	6093.4	6051.0	6032.9	6026.9	5988.6	5871.7	5646.0
22.5°	6433.9	6439.9	6446.0	6421.8	6401.7	6369.4	6337.2	6327.1	6313.0	6192.1	5916.0
25°	6754.3	6778.5	6758.3	6734.1	6709.9	6707.9	6738.2	6734.1	6728.1	6611.2	6274.7
27.5°	7276.2	7298.3	7304.4	7278.2	7185.5	7193.5	7262.1	7284.2	7376.9	7183.5	6736.1
30°	7570.4	7592.5	7642.9	7741.6	7888.7	8017.7	8182.9	8233.3	8321.9	7957.2	7284.2
32.5°	7751.7	7759.8	7850.4	8033.8	8475.1	8956.7	9406.0	9424.2	9480.6	8968.8	7786.0
35°	8037.8	8043.9	8116.4	8317.9	8835.8	9637.7	10332.9	10355.1	10308.7	9283.1	8019.7
37.5°	8390.5	8406.6	8452.9	8620.2	9238.8	10208.0	10717.8	10701.7	10290.6	9533.0	8432.8
40°	8904.3	8904.3	8849.9	9075.6	9663.9	10534.4	10852.8	10824.6	10715.8	10256.3	9061.5
42.5°	9357.7	9349.6	9478.6	9631.7	10195.9	11038.2	11419.0	11465.3	11644.7	11165.1	9776.8
45°	9948.1	9984.3	10056.9	10334.9	11100.6	11898.6	12390.2	12434.6	12688.5	12235.1	10613.0
47.5°	10544.5	10556.6	10784.3	11155.0	12221.0	13065.3	13468.3	13540.8	13772.5	13486.4	11513.7
50°	10967.6	11082.5	11447.2	12031.6	13375.6	14487.8	14802.2	14888.8	15297.9	14848.5	12563.5
52.5°	11415.0	11527.8	11973.1	12863.8	14701.4	15942.7	16329.6	16388.0	16813.2	16226.8	13637.5
55°	11797.8	11902.6	12408.4	13601.2	15757.3	17427.7	18129.0	18060.4	18264.0	17288.7	14465.7
57.5°	11860.3	11944.9	12581.7	14072.8	16551.2	18701.2	19706.7	19747.0	19511.2	18082.6	15148.8
60°	11376.7	11550.0	12281.4	14022.4	16907.9	19587.8	20883.5	20911.7	20242.7	18489.6	15420.8
62.5°	10520.3	10502.2	11386.8	13212.4	16408.1	19789.3	21576.6	21546.4	20528.8	18294.2	15156.8
64°	9337.5	9555.1	10381.3	12216.9	15602.1	19479.0	21649.2	21633.0	20391.8	17887.2	14707.5
65°	8616.1	8604.0	9420.1	11402.9	14800.2	19011.5	21520.2	21498.0	20105.7	17522.4	14358.9
67.5°	6220.3	6248.5	7054.5	8799.5	12031.6	17183.9	20679.9	20597.3	18977.3	16313.4	13033.0
70°	3768.0	3784.2	4416.9	5837.5	8636.3	13891.4	18640.8	18644.8	17250.4	14508.0	11092.6
72.5°	1984.8	2027.1	2281.0	3314.7	5245.0	9746.6	15122.6	15481.2	14810.2	12382.2	8763.2
75°	1104.2	1110.3	1289.6	1634.2	2675.9	5454.6	11366.6	11469.4	11725.3	9966.2	6480.2
77.5°	842.3	854.4	910.8	1055.9	1456.8	2528.8	6879.2	7395.0	8263.5	7026.3	3697.5
80°	683.1	695.2	743.5	830.2	969.2	1198.9	3195.8	3473.9	4422.9	3119.2	1442.7
82.5°	532.0	523.9	586.4	642.8	705.2	709.3	1311.8	1450.8	1801.4	1342.0	624.6
85°	394.9	394.9	445.3	433.2	455.4	415.1	578.3	638.8	721.4	570.2	290.2
87.5°	157.2	173.3	292.2	261.9	203.5	163.2	213.6	225.7	249.9	223.7	120.9
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°	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1	4850.1
2.5°	4858.2	4864.2	4850.1	4840.0	4836.0	4830.0	4823.9	4825.9	4834.0	4842.0	4840.0
5°	4882.3	4884.4	4860.2	4848.1	4840.0	4832.0	4832.0	4838.0	4854.1	4866.2	4866.2
7.5°	4942.8	4942.8	4908.5	4886.4	4874.3	4860.2	4856.1	4858.2	4870.3	4886.4	4888.4
10°	5037.5	5029.4	4985.1	4950.9	4928.7	4894.4	4864.2	4848.1	4854.1	4864.2	4864.2
12.5°	5152.4	5130.2	5073.8	5027.4	4973.0	4908.5	4846.1	4813.8	4811.8	4821.9	4817.9
15°	5275.3	5251.1	5172.5	5087.9	4993.2	4898.5	4823.9	4777.6	4741.3	4731.2	4753.4
17.5°	5418.3	5368.0	5259.1	5142.3	5001.2	4878.3	4761.4	4666.7	4602.3	4584.1	4590.2
20°	5591.6	5525.1	5378.0	5194.7	4995.2	4805.8	4624.4	4497.5	4392.7	4360.5	4364.5
22.5°	5831.4	5716.6	5500.9	5220.9	4944.8	4668.8	4416.9	4251.6	4124.7	4074.3	4104.6
25°	6103.4	5978.5	5617.8	5214.8	4813.8	4449.1	4171.0	3955.4	3840.6	3766.0	3782.2
27.5°	6478.2	6256.6	5742.7	5160.4	4626.4	4181.1	3858.7	3655.2	3550.4	3512.1	3530.3
30°	6957.8	6617.3	5877.8	5013.3	4330.2	3842.6	3544.4	3411.4	3348.9	3300.6	3316.7
32.5°	7304.4	6871.1	5908.0	4765.5	4009.8	3534.3	3330.8	3232.1	3163.5	3117.2	3127.3
35°	7552.2	7086.8	5893.9	4461.2	3675.4	3280.4	3161.5	3080.9	2970.1	2869.4	2851.2
37.5°	7884.7	7356.8	5791.1	4128.7	3344.9	3109.1	3024.5	2875.4	2716.2	2581.2	2575.2
40°	8394.5	7673.1	5571.5	3737.8	3062.8	2982.2	2879.4	2686.0	2514.7	2405.9	2397.8
42.5°	8920.4	7965.3	5273.3	3326.8	2831.1	2849.2	2724.3	2532.9	2428.1	2357.5	2349.5
45°	9563.2	8281.6	4950.9	2970.1	2659.8	2724.3	2589.3	2478.4	2416.0	2369.6	2357.5
47.5°	10258.4	8606.1	4588.2	2649.7	2514.7	2609.4	2532.9	2482.5	2448.2	2416.0	2401.9
50°	11007.9	8968.8	4247.6	2391.8	2383.7	2490.5	2526.8	2508.7	2488.5	2478.4	2466.4
52.5°	11830.1	9339.5	3961.5	2210.5	2268.9	2405.9	2528.8	2542.9	2542.9	2536.9	2528.8
55°	12386.2	9597.4	3671.3	2063.4	2152.0	2337.4	2524.8	2579.2	2599.3	2591.3	2583.2
57.5°	12797.3	9738.5	3306.6	1936.4	2053.3	2270.9	2502.6	2583.2	2603.4	2613.5	2609.4
60°	12881.9	9607.5	2829.1	1803.4	1946.5	2174.2	2422.0	2522.8	2549.0	2611.4	2617.5
62.5°	12501.1	9204.5	2353.5	1672.4	1815.5	2027.1	2313.2	2454.3	2506.7	2603.4	2613.5
64°	12033.6	8753.2	2089.6	1589.8	1730.9	1944.5	2258.8	2436.1	2504.6	2633.6	2641.7
65°	11691.0	8424.7	1924.3	1537.4	1676.5	1890.1	2228.6	2442.2	2522.8	2679.9	2692.0
67.5°	10429.6	7294.3	1591.8	1414.5	1547.5	1797.4	2234.6	2492.6	2518.7	2698.1	2696.1
70°	8630.2	5807.2	1333.9	1301.7	1422.6	1722.8	2210.5	2412.0	2414.0	2532.9	2504.6
72.5°	6462.1	4291.9	1156.6	1184.8	1283.6	1545.5	2087.5	2303.1	2268.9	2285.0	2256.8
75°	4439.0	2839.1	995.4	1059.9	1138.5	1366.2	1914.2	2091.6	2037.2	2017.0	1996.9
77.5°	2369.6	1569.7	828.2	937.0	989.4	1180.8	1670.4	1841.7	1785.3	1706.7	1680.5
80°	959.1	739.5	667.0	775.8	806.0	951.1	1390.3	1497.1	1454.8	1317.8	1273.5
82.5°	481.6	443.3	523.9	610.5	612.6	679.1	1033.7	1134.4	1039.7	872.5	834.2
85°	251.9	259.9	360.7	429.2	378.8	366.7	620.6	687.1	630.7	548.1	493.7
87.5°	90.7	104.8	189.4	187.4	133.0	70.5	137.0	66.5	36.3	22.2	28.2
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)