

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: P454798

Luminaire Tested: **GALN-SA5D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30717 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 309
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

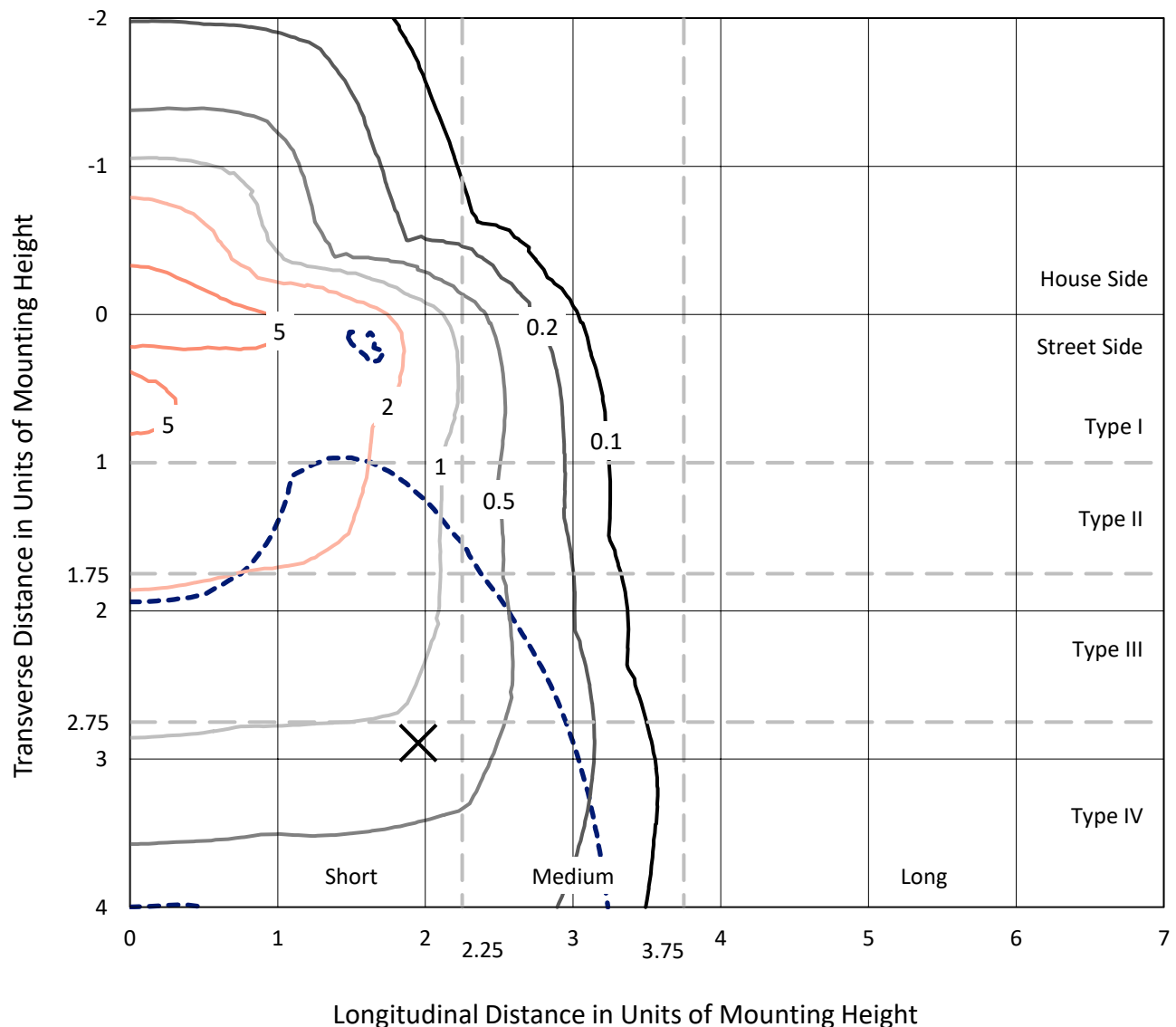


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

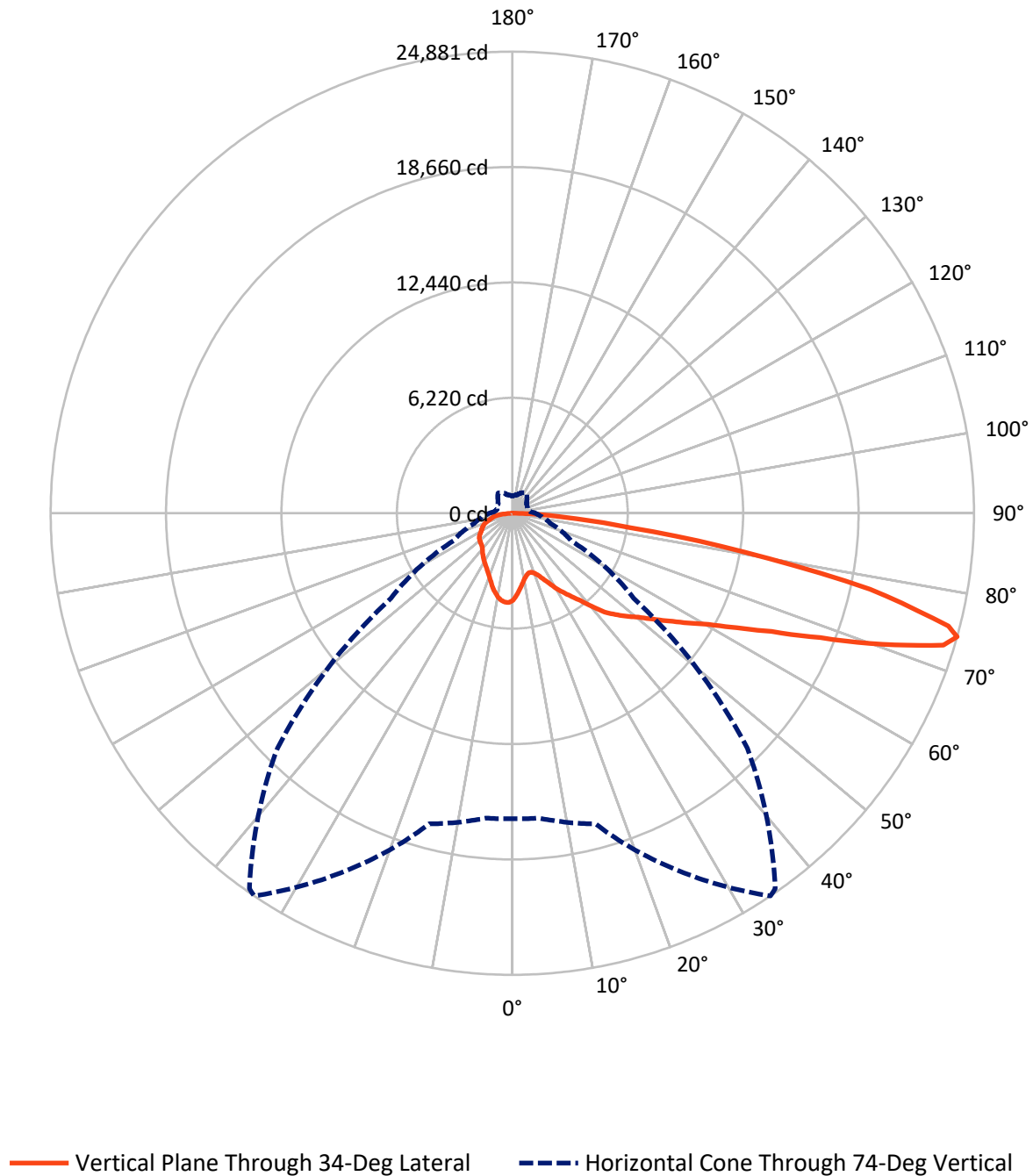


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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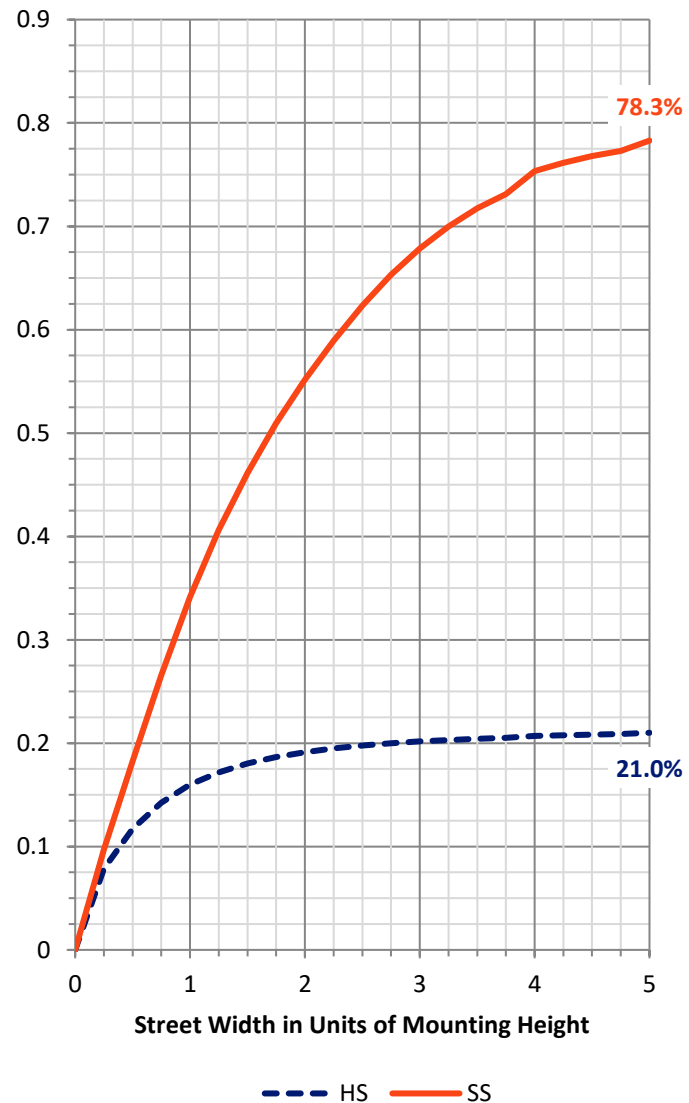
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6536.8	0.0	6536.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	24180.2	0.0	24180.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	30717.0	0.0	30717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.5	1.4
10°-20°	1167.6	3.8
20°-30°	1925.1	6.3
30°-40°	2883.5	9.4
40°-50°	4191.8	13.6
50°-60°	5855.0	19.1
60°-70°	7330.2	23.9
70°-80°	6061.5	19.7
80°-90°	875.8	2.9
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°	30717.0	100.0
0°-180°	30717.0	100.0

Coefficient of Utilization



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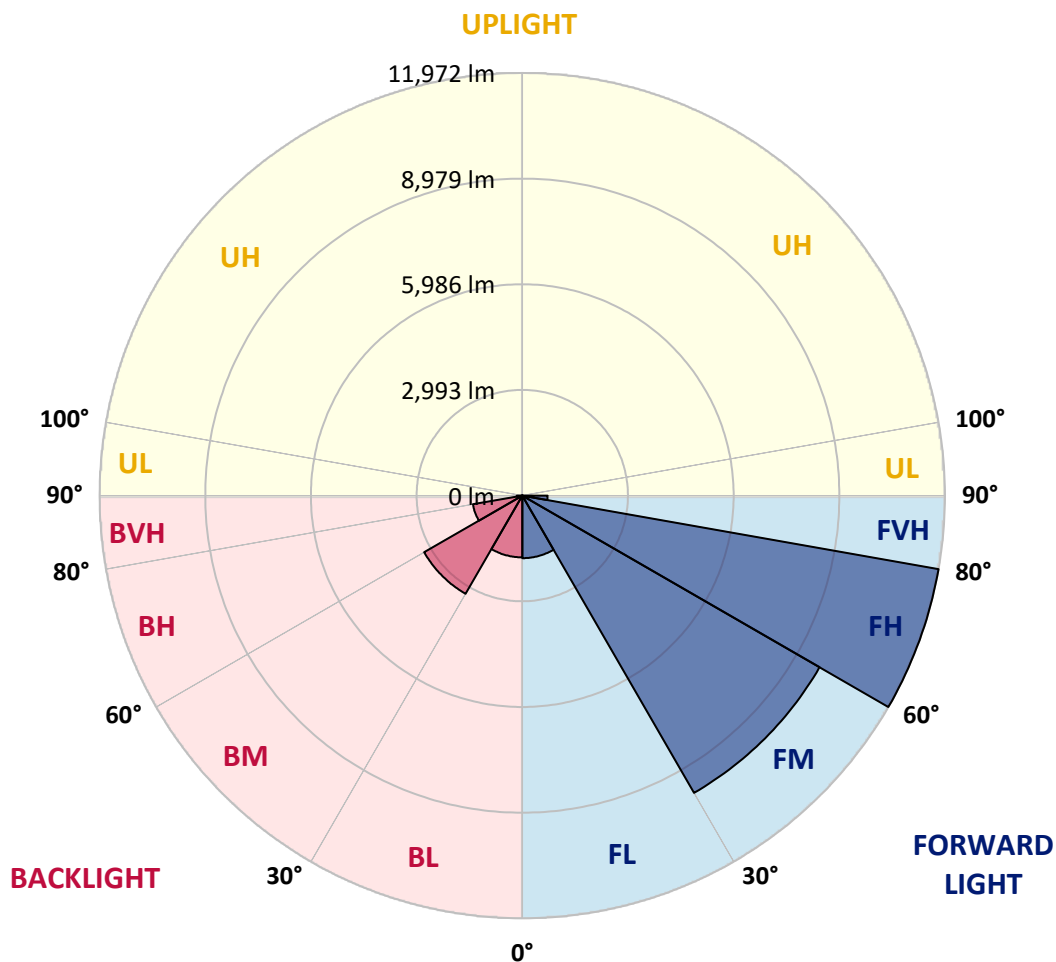
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1770.7	5.8			
FM	(30°-60°)	9720.1	31.6			
FH	(60°-80°)	11971.9	39.0			G4/12000
FVH	(80°-90°)	717.5	2.3			G4/750
BL	(0°-30°)	1748.5	5.7	B3/2500		
BM	(30°-60°)	3210.2	10.5	B3/5000		
BH	(60°-80°)	1419.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	158.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9
2.5°	4334.2	4356.3	4368.3	4410.8	4421.0	4434.6	4470.4	4518.0	4579.3	4633.7	4681.4
5°	3973.5	4007.5	4027.9	4065.4	4138.5	4145.3	4240.6	4349.5	4473.8	4589.5	4684.8
7.5°	3631.4	3668.9	3685.9	3753.9	3850.9	3866.3	4005.8	4177.7	4385.3	4560.5	4706.9
10°	3374.5	3393.2	3430.6	3481.7	3597.4	3607.6	3789.7	4019.4	4288.3	4546.9	4744.3
12.5°	3234.9	3245.1	3253.6	3308.1	3422.1	3437.4	3628.0	3888.4	4211.7	4557.1	4805.6
15°	3255.3	3258.8	3221.3	3231.5	3323.4	3345.5	3534.4	3801.6	4164.1	4582.7	4897.5
17.5°	3427.2	3415.3	3323.4	3275.8	3340.4	3350.6	3515.7	3767.6	4141.9	4630.3	4992.8
20°	3697.8	3680.8	3522.5	3417.0	3454.4	3463.0	3577.0	3793.1	4164.1	4708.6	5140.8
22.5°	4034.7	4027.9	3788.0	3660.4	3658.6	3658.6	3718.2	3885.0	4230.4	4815.8	5295.7
25°	4506.1	4470.4	4157.2	3992.2	3946.2	3942.8	3936.0	4036.4	4315.5	4929.8	5479.5
27.5°	4989.4	4928.1	4649.0	4395.5	4296.8	4284.9	4240.6	4250.8	4424.4	5059.1	5688.8
30°	5423.3	5384.2	5122.1	4841.3	4723.9	4696.7	4574.2	4518.0	4606.5	5292.3	6022.3
32.5°	5755.1	5731.3	5527.1	5271.9	5098.3	5093.2	4914.5	4868.6	4890.7	5574.8	6403.5
35°	6024.0	6032.5	5928.7	5707.5	5508.4	5479.5	5360.3	5302.5	5237.8	5983.2	6883.4
37.5°	6391.6	6410.3	6403.5	6212.9	5969.6	5976.4	5949.1	5853.8	5682.0	6439.2	7416.0
40°	6796.6	6810.2	6808.5	6735.3	6607.7	6614.5	6604.3	6495.4	6238.4	7019.5	8008.2
42.5°	7356.4	7291.8	7123.3	7196.5	7271.4	7303.7	7373.5	7269.7	6917.4	7638.9	8564.6
45°	7982.7	7860.1	7479.0	7513.0	7790.4	7851.6	8236.2	8093.3	7654.2	8350.2	9219.8
47.5°	8377.5	8256.6	7935.0	7928.2	8295.8	8355.3	9036.0	8983.3	8324.7	9117.7	10019.6
50°	8729.7	8712.7	8350.2	8437.0	8796.1	8884.6	9907.3	9857.9	8993.5	10023.0	10890.9
52.5°	9252.1	9114.3	8825.0	9003.7	9478.5	9594.2	10771.7	10627.1	9607.8	10822.8	11736.6
55°	9487.0	9454.6	9437.6	9592.5	10244.2	10327.6	11612.4	11280.6	10131.9	11500.1	12379.8
57.5°	10114.9	10055.3	10223.8	10329.3	11146.1	11273.7	12490.5	11962.9	10591.4	12037.8	12693.0
60°	10928.3	10896.0	11050.8	11241.4	12153.5	12347.5	13491.1	12544.9	10960.6	12308.4	12521.1
62.5°	12143.3	12139.9	12111.0	12519.4	13581.2	13759.9	14639.7	13111.6	11018.5	12105.9	11632.8
65°	13885.9	13824.6	13572.7	14018.6	15357.8	15567.1	15836.0	13428.1	10669.6	11066.1	9795.0
67.5°	15708.4	15705.0	15500.8	16079.3	17908.7	18124.8	17331.8	13358.3	9701.4	8964.5	6956.5
70°	17219.5	17146.3	17406.7	18948.4	21167.4	21417.6	18640.4	12536.4	7727.4	5920.2	4133.4
72.5°	17581.9	17585.3	18126.5	21160.6	24296.8	24336.0	19111.8	10160.8	5171.5	3265.6	2067.6
74°	16465.6	16494.6	17333.5	21271.2	24880.5	24703.5	17907.0	7986.1	3497.0	2132.2	1490.7
75°	15029.4	14847.3	16060.6	20534.4	24274.7	24084.1	16496.3	6408.6	2668.3	1703.4	1305.2
77.5°	8035.4	8220.9	10092.8	15323.8	19721.0	19501.5	11185.3	3073.3	1441.3	1186.1	939.3
80°	2860.6	3154.9	4434.6	8018.4	12643.6	12711.7	5338.2	1409.0	1014.2	874.7	663.7
82.5°	1167.4	1199.7	1904.2	3558.2	6420.5	6481.8	2179.9	837.2	724.9	602.4	396.5
85°	456.1	469.7	842.3	1599.6	2739.7	2918.4	753.9	442.4	445.8	345.4	202.5
87.5°	153.2	173.6	345.4	532.6	930.8	912.1	219.5	131.0	160.0	149.7	63.0
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°	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9	4689.9
2.5°	4705.2	4737.5	4759.6	4783.5	4805.6	4812.4	4807.3	4822.6	4824.3	4826.0	4827.7
5°	4732.4	4776.7	4819.2	4843.0	4853.2	4844.7	4815.8	4800.5	4786.9	4776.7	4780.1
7.5°	4769.9	4832.8	4872.0	4882.2	4854.9	4815.8	4744.3	4688.2	4652.4	4628.6	4626.9
10°	4827.7	4889.0	4921.3	4892.4	4817.5	4722.2	4609.9	4504.4	4424.4	4400.6	4398.9
12.5°	4900.9	4970.7	4969.0	4883.9	4752.8	4582.7	4400.6	4278.1	4169.2	4114.7	4136.8
15°	4996.2	5048.9	4999.6	4846.4	4638.8	4405.7	4181.1	4014.3	3891.8	3833.9	3837.3
17.5°	5106.8	5152.7	5021.7	4780.1	4478.9	4179.4	3919.0	3760.8	3663.8	3621.2	3617.8
20°	5244.6	5258.2	5021.7	4664.4	4273.0	3915.6	3667.2	3556.5	3502.1	3480.0	3486.8
22.5°	5392.7	5365.5	4994.5	4501.0	4002.4	3639.9	3473.2	3423.8	3396.6	3393.2	3396.6
25°	5559.4	5482.9	4938.3	4279.8	3719.9	3401.7	3304.7	3313.2	3318.3	3318.3	3330.2
27.5°	5763.6	5610.5	4844.7	4000.7	3389.8	3180.5	3153.2	3212.8	3240.0	3245.1	3253.6
30°	6032.5	5750.0	4689.9	3651.8	3109.0	2981.4	3029.0	3109.0	3139.6	3158.4	3154.9
32.5°	6352.4	5903.2	4480.6	3303.0	2882.7	2841.8	2899.7	2981.4	3015.4	3025.6	3012.0
35°	6728.5	6076.8	4204.9	2976.3	2685.3	2709.1	2777.2	2802.7	2833.3	2833.3	2840.1
37.5°	7133.5	6216.3	3868.0	2676.8	2532.1	2618.9	2668.3	2644.4	2630.8	2613.8	2622.3
40°	7545.3	6320.1	3430.6	2380.7	2379.0	2525.3	2538.9	2470.9	2416.4	2399.4	2390.9
42.5°	7904.4	6384.8	3035.8	2150.9	2234.3	2433.4	2443.6	2334.7	2247.9	2196.9	2179.9
45°	8328.1	6459.6	2649.5	1960.4	2099.9	2360.3	2385.8	2239.4	2111.8	2004.6	1977.4
47.5°	8908.4	6629.8	2344.9	1812.3	2002.9	2314.3	2350.0	2161.2	1992.7	1853.1	1831.0
50°	9563.5	6862.9	2108.4	1711.9	1928.0	2273.5	2317.7	2081.2	1882.1	1727.2	1710.2
52.5°	10164.2	6988.9	1904.2	1621.7	1854.9	2198.6	2275.2	2023.3	1773.2	1601.3	1586.0
55°	10492.7	6784.7	1703.4	1533.2	1754.5	2101.6	2215.6	1943.3	1667.7	1534.9	1512.8
57.5°	10536.9	6362.6	1521.3	1437.9	1648.9	1982.5	2105.0	1846.3	1599.6	1489.0	1470.3
60°	10194.9	5733.0	1380.1	1359.7	1541.7	1848.0	1980.8	1761.3	1529.8	1437.9	1419.2
62.5°	9344.0	5048.9	1281.4	1288.2	1432.8	1706.8	1888.9	1679.6	1463.5	1381.8	1364.8
65°	7880.6	4167.5	1186.1	1215.0	1335.8	1596.2	1805.5	1611.5	1397.1	1339.2	1323.9
67.5°	5474.4	3008.6	1107.8	1138.4	1243.9	1483.9	1708.5	1538.3	1322.2	1291.6	1267.8
70°	3030.7	1851.4	1015.9	1051.6	1148.6	1358.0	1599.6	1427.7	1213.3	1199.7	1165.7
72.5°	1592.8	1179.3	912.1	951.2	1019.3	1196.3	1432.8	1306.9	1106.1	1048.2	1004.0
74°	1243.9	966.6	842.3	883.2	929.1	1101.0	1334.1	1220.1	1029.5	961.5	927.4
75°	1084.0	861.1	782.8	835.5	876.4	1036.3	1257.6	1158.9	987.0	922.3	891.7
77.5°	765.8	644.9	639.8	702.8	724.9	908.7	1133.3	1055.1	879.8	811.7	782.8
80°	537.7	483.3	507.1	546.2	576.9	803.2	1051.6	912.1	721.5	641.5	631.3
82.5°	350.5	316.5	362.5	398.2	408.4	592.2	849.1	692.6	525.8	427.1	396.5
85°	161.7	158.3	207.6	202.5	200.8	289.3	503.7	405.0	302.9	226.3	212.7
87.5°	40.8	39.1	51.1	42.5	51.1	44.2	45.9	11.9	1.7	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)