

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: P457114

Luminaire Tested: **GALN-SA8B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457114
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-SA8B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36208 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 325
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

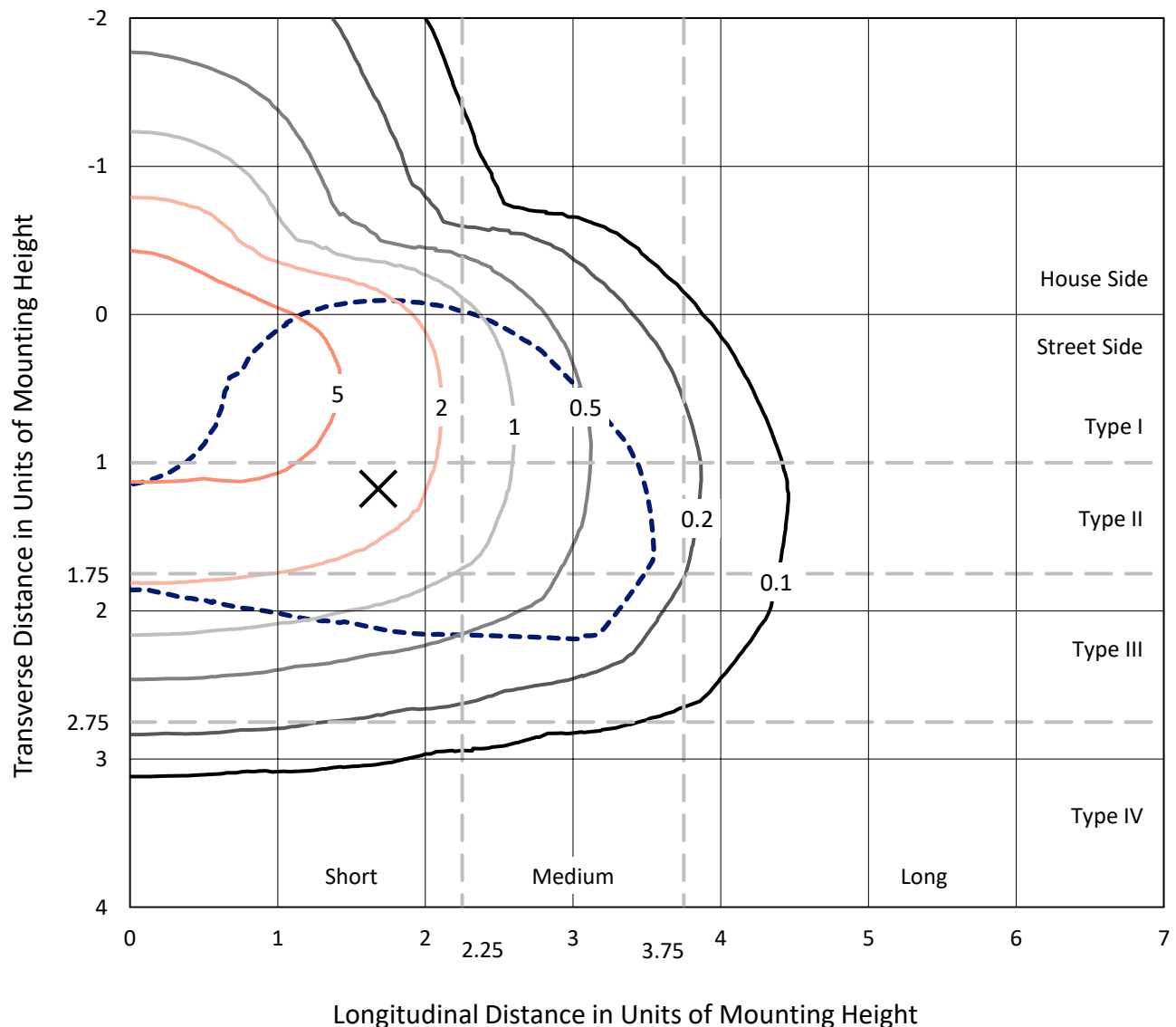


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

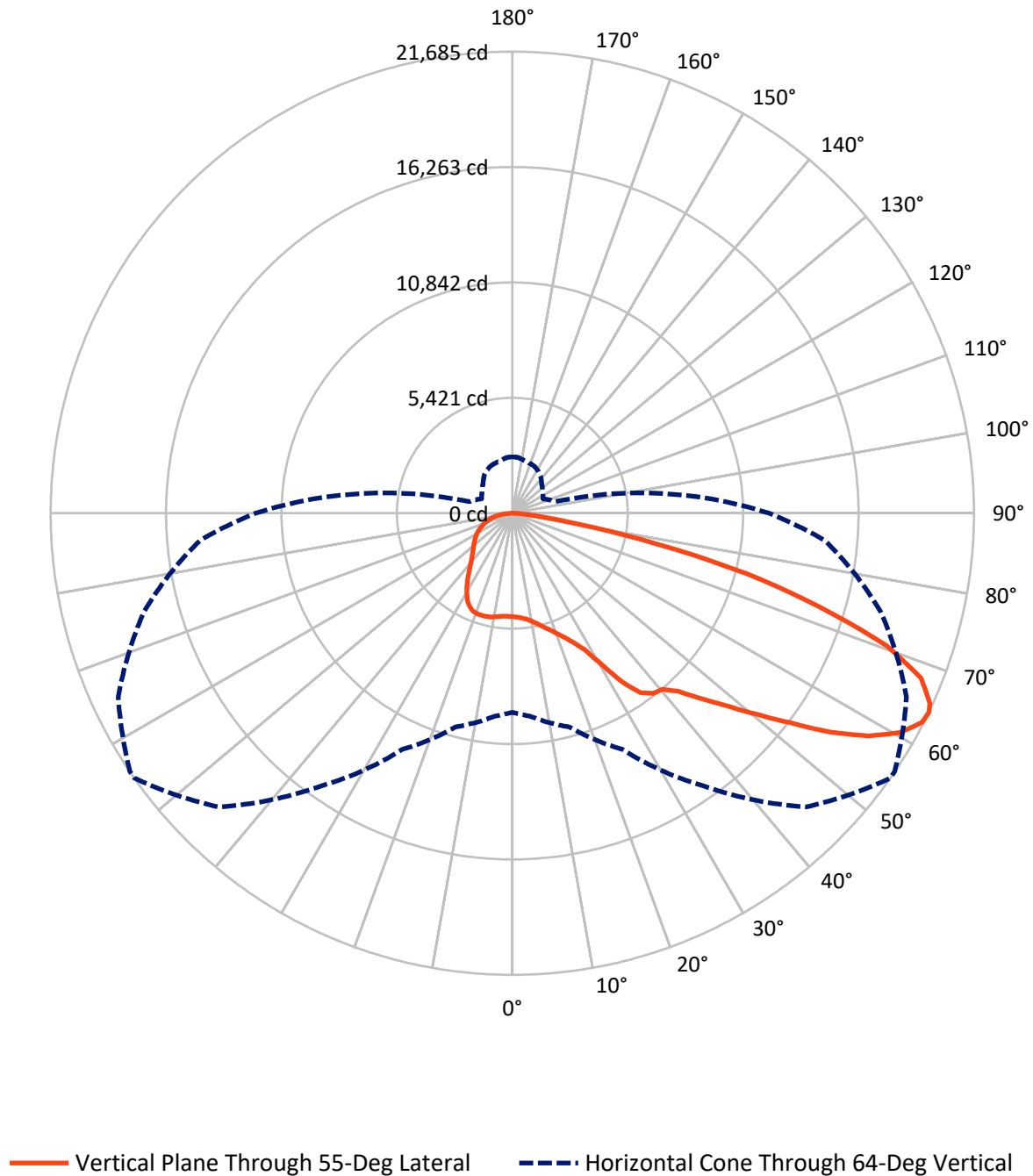


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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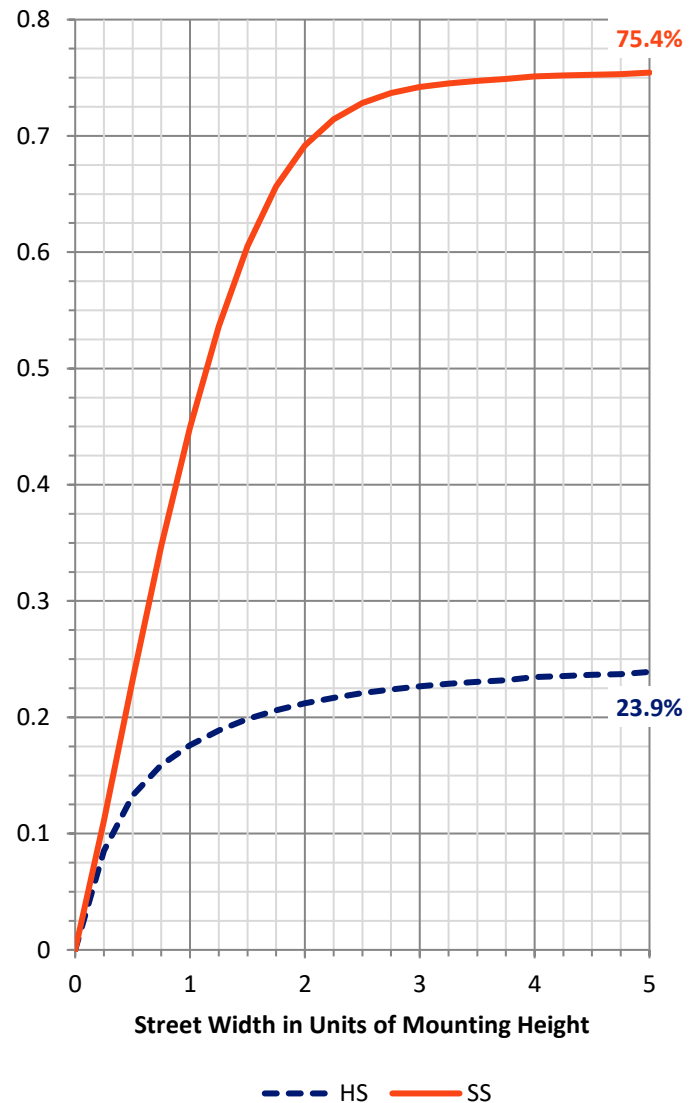
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8795.6	0.0	8795.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	27412.4	0.0	27412.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	36208.0	0.0	36208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.6	1.3
10°-20°	1491.1	4.1
20°-30°	2654.5	7.3
30°-40°	4084.2	11.3
40°-50°	5789.7	16.0
50°-60°	8380.4	23.1
60°-70°	8672.8	24.0
70°-80°	4061.5	11.2
80°-90°	601.3	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°	36208.0	100.0
0°-180°	36208.0	100.0

Coefficient of Utilization



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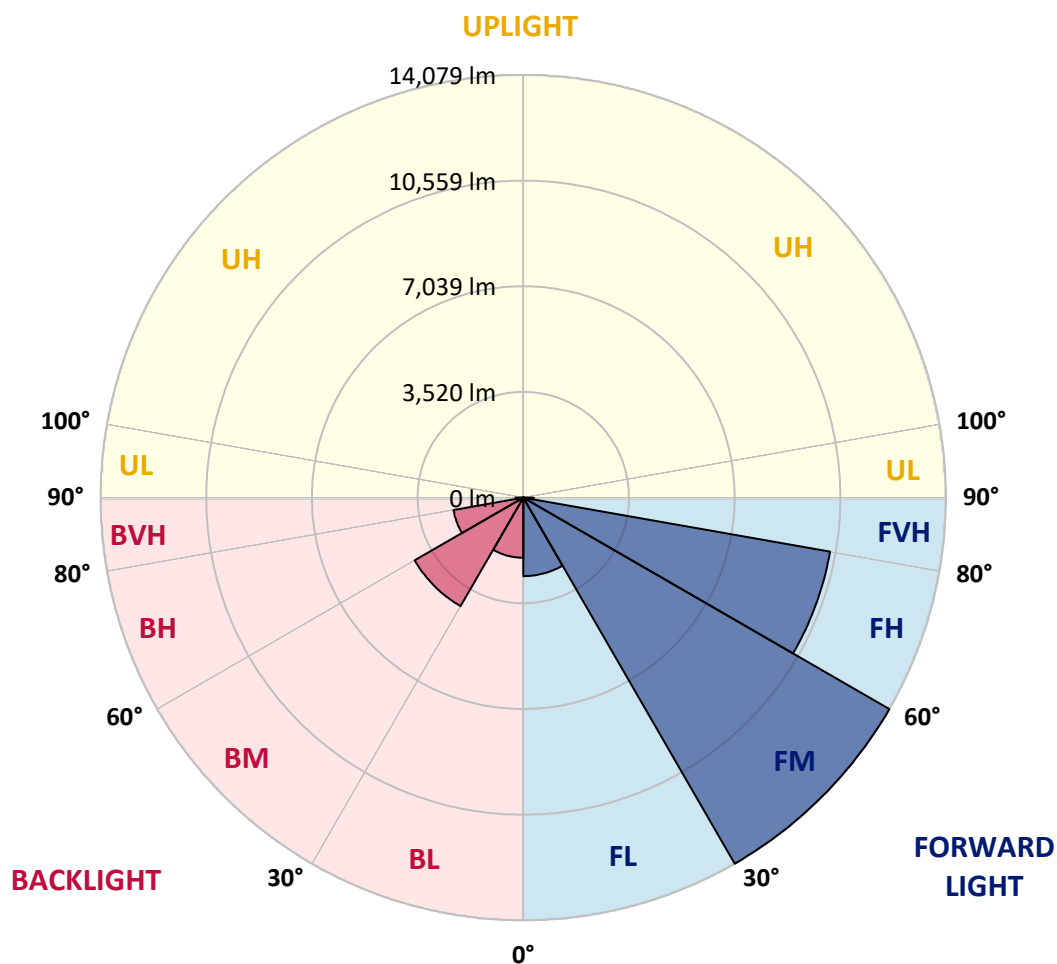
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2614.8	7.2			
FM	(30°-60°)	14078.7	38.9			
FH	(60°-80°)	10374.7	28.7			G4/12000
FVH	(80°-90°)	344.3	1.0			G3/500
BL	(0°-30°)	2003.3	5.5	B3/2500		
BM	(30°-60°)	4175.6	11.5	B3/5000		
BH	(60°-80°)	2359.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	257.0	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°	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0
2.5°	4912.5	4910.5	4916.6	4910.5	4914.5	4900.4	4894.3	4898.4	4892.3	4882.2	4864.1
5°	4973.1	4971.0	4973.1	4965.0	4969.0	4961.0	4946.8	4950.9	4940.8	4918.6	4892.3
7.5°	5076.0	5067.9	5067.9	5065.9	5057.8	5045.7	5035.6	5031.6	5021.5	4993.2	4952.9
10°	5209.2	5209.2	5211.2	5195.1	5205.2	5183.0	5172.9	5170.9	5136.5	5100.2	5043.7
12.5°	5384.8	5394.9	5388.8	5380.8	5376.7	5368.6	5334.3	5342.4	5304.1	5241.5	5172.9
15°	5602.8	5618.9	5608.8	5604.8	5594.7	5564.4	5550.3	5544.2	5493.8	5403.0	5312.1
17.5°	5891.4	5871.2	5863.1	5853.0	5810.7	5788.5	5764.2	5760.2	5715.8	5608.8	5467.5
20°	6143.7	6171.9	6155.8	6145.7	6103.3	6060.9	6042.8	6036.7	5998.4	5881.3	5655.2
22.5°	6444.4	6450.5	6456.5	6432.3	6412.1	6379.8	6347.5	6337.4	6323.3	6202.2	5925.7
25°	6765.3	6789.5	6769.3	6745.1	6720.9	6718.9	6749.2	6745.1	6739.1	6622.0	6285.0
27.5°	7288.0	7310.2	7316.3	7290.1	7197.2	7205.3	7273.9	7296.1	7389.0	7195.2	6747.1
30°	7582.7	7604.9	7655.4	7754.3	7901.6	8030.8	8196.3	8246.7	8335.5	7970.2	7296.1
32.5°	7764.4	7772.4	7863.3	8046.9	8488.9	8971.3	9421.4	9439.5	9496.0	8983.4	7798.7
35°	8051.0	8057.0	8129.7	8331.5	8850.2	9653.5	10349.8	10372.0	10325.6	9298.3	8032.8
37.5°	8404.2	8420.3	8466.7	8634.2	9253.9	10224.7	10735.3	10719.1	10307.4	9548.5	8446.5
40°	8918.8	8918.8	8864.3	9090.4	9679.7	10551.6	10870.5	10842.2	10733.3	10273.1	9076.2
42.5°	9372.9	9364.9	9494.0	9647.4	10212.5	11056.2	11437.6	11484.1	11663.7	11183.3	9792.7
45°	9964.3	10000.6	10073.3	10351.8	11118.8	11918.0	12410.5	12454.9	12709.2	12255.0	10630.3
47.5°	10561.7	10573.8	10801.9	11173.2	12240.9	13086.6	13490.2	13562.9	13795.0	13508.4	11532.5
50°	10985.5	11100.6	11465.9	12051.2	13397.4	14511.5	14826.3	14913.1	15322.8	14872.8	12584.0
52.5°	11433.6	11546.6	11992.7	12884.8	14725.4	15968.7	16356.2	16414.7	16840.6	16253.3	13659.8
55°	11817.1	11922.0	12428.6	13623.4	15783.0	17456.2	18158.5	18089.9	18293.8	17316.9	14489.3
57.5°	11879.6	11964.4	12602.2	14095.7	16578.2	18731.7	19738.9	19779.2	19543.1	18112.1	15173.5
60°	11395.3	11568.8	12301.5	14045.3	16935.5	19619.8	20917.5	20945.8	20275.7	18519.8	15446.0
62.5°	10537.5	10519.3	11405.3	13233.9	16434.9	19821.6	21611.8	21581.6	20562.3	18324.0	15181.6
64°	9352.7	9570.7	10398.2	12236.9	15627.6	19510.8	21684.5	21668.3	20425.1	17916.3	14731.5
65°	8630.2	8618.1	9435.5	11421.5	14824.3	19042.6	21555.3	21533.1	20138.5	17551.0	14382.3
67.5°	6230.5	6258.7	7066.0	8813.9	12051.2	17212.0	20713.7	20630.9	19008.2	16340.1	13054.3
70°	3774.2	3790.3	4424.1	5847.0	8650.4	13914.1	18671.2	18675.2	17278.6	14531.7	11110.7
72.5°	1988.0	2030.4	2284.7	3320.1	5253.6	9762.5	15147.3	15506.5	14834.4	12402.4	8777.5
75°	1106.0	1112.1	1291.7	1636.8	2680.3	5463.5	11385.2	11488.1	11744.4	9982.5	6490.8
77.5°	843.6	855.8	912.3	1057.6	1459.2	2533.0	6890.4	7407.1	8277.0	7037.8	3703.6
80°	684.2	696.3	744.7	831.5	970.8	1200.9	3201.0	3479.5	4430.1	3124.3	1445.1
82.5°	532.8	524.8	587.3	643.8	706.4	710.4	1313.9	1453.2	1804.4	1344.2	625.7
85°	395.6	395.6	446.0	433.9	456.1	415.8	579.2	639.8	722.5	571.2	290.6
87.5°	157.4	173.6	292.7	262.4	203.8	163.5	213.9	226.0	250.3	224.0	121.1
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°	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0	4858.0
2.5°	4866.1	4872.1	4858.0	4847.9	4843.9	4837.8	4831.8	4833.8	4841.9	4849.9	4847.9
5°	4890.3	4892.3	4868.1	4856.0	4847.9	4839.9	4839.9	4845.9	4862.1	4874.2	4874.2
7.5°	4950.9	4950.9	4916.6	4894.3	4882.2	4868.1	4864.1	4866.1	4878.2	4894.3	4896.4
10°	5045.7	5037.6	4993.2	4958.9	4936.7	4902.4	4872.1	4856.0	4862.1	4872.1	4872.1
12.5°	5160.8	5138.6	5082.1	5035.6	4981.1	4916.6	4854.0	4821.7	4819.7	4829.8	4825.7
15°	5283.9	5259.7	5180.9	5096.2	5001.3	4906.5	4831.8	4785.4	4749.0	4738.9	4761.1
17.5°	5427.2	5376.7	5267.7	5150.7	5009.4	4886.3	4769.2	4674.4	4609.8	4591.6	4597.7
20°	5600.8	5534.1	5386.8	5203.1	5003.3	4813.6	4632.0	4504.8	4399.9	4367.6	4371.6
22.5°	5840.9	5725.9	5509.9	5229.4	4952.9	4676.4	4424.1	4258.6	4131.4	4081.0	4111.3
25°	6113.4	5988.3	5627.0	5223.3	4821.7	4456.4	4177.9	3961.9	3846.9	3772.2	3788.3
27.5°	6488.8	6266.8	5752.1	5168.8	4634.0	4187.9	3865.0	3661.2	3556.2	3517.9	3536.0
30°	6969.2	6628.1	5887.3	5021.5	4337.3	3848.9	3550.2	3417.0	3354.4	3306.0	3322.1
32.5°	7316.3	6882.4	5917.6	4773.3	4016.4	3540.1	3336.2	3237.3	3168.7	3122.3	3132.4
35°	7564.5	7098.3	5903.5	4468.5	3681.4	3285.8	3166.7	3086.0	2975.0	2874.0	2855.9
37.5°	7897.6	7368.8	5800.6	4135.5	3350.4	3114.2	3029.5	2880.1	2720.7	2585.4	2579.4
40°	8408.2	7685.6	5580.6	3743.9	3067.8	2987.1	2884.1	2690.4	2518.8	2409.8	2401.8
42.5°	8935.0	7978.3	5281.9	3332.2	2835.7	2853.9	2728.7	2537.0	2432.0	2361.4	2353.3
45°	9578.8	8295.2	4958.9	2975.0	2664.1	2728.7	2593.5	2482.5	2419.9	2373.5	2361.4
47.5°	10275.1	8620.1	4595.6	2654.0	2518.8	2613.7	2537.0	2486.5	2452.2	2419.9	2405.8
50°	11025.9	8983.4	4254.6	2395.7	2387.6	2494.6	2530.9	2512.8	2492.6	2482.5	2470.4
52.5°	11849.4	9354.8	3968.0	2214.1	2272.6	2409.8	2533.0	2547.1	2547.1	2541.0	2533.0
55°	12406.4	9613.1	3677.3	2066.7	2155.5	2341.2	2528.9	2583.4	2603.6	2595.5	2587.4
57.5°	12818.2	9754.4	3312.0	1939.6	2056.6	2274.6	2506.7	2587.4	2607.6	2617.7	2613.7
60°	12902.9	9623.2	2833.7	1806.4	1949.7	2177.7	2426.0	2526.9	2553.1	2615.7	2621.8
62.5°	12521.5	9219.5	2357.4	1675.2	1818.5	2030.4	2317.0	2458.3	2510.8	2607.6	2617.7
64°	12053.2	8767.4	2093.0	1592.4	1733.7	1947.6	2262.5	2440.1	2508.7	2637.9	2646.0
65°	11710.1	8438.5	1927.5	1540.0	1679.2	1893.2	2232.2	2446.2	2526.9	2684.3	2696.4
67.5°	10446.7	7306.2	1594.4	1416.8	1550.0	1800.3	2238.3	2496.6	2522.9	2702.5	2700.5
70°	8644.3	5816.7	1336.1	1303.8	1424.9	1725.6	2214.1	2415.9	2417.9	2537.0	2508.7
72.5°	6472.7	4299.0	1158.5	1186.8	1285.6	1548.0	2090.9	2306.9	2272.6	2288.7	2260.5
75°	4446.3	2843.8	997.0	1061.6	1140.3	1368.4	1917.4	2095.0	2040.5	2020.3	2000.1
77.5°	2373.5	1572.2	829.5	938.5	991.0	1182.7	1673.2	1844.7	1788.2	1709.5	1683.3
80°	960.7	740.7	668.1	777.0	807.3	952.6	1392.6	1499.6	1457.2	1320.0	1275.6
82.5°	482.4	444.0	524.8	611.5	613.6	680.2	1035.4	1136.3	1041.4	873.9	835.6
85°	252.3	260.4	361.3	429.9	379.4	367.3	621.6	688.2	631.7	549.0	494.5
87.5°	90.8	105.0	189.7	187.7	133.2	70.6	137.2	66.6	36.3	22.2	28.3
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)