

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: P458046

Luminaire Tested: **GALN-SA9B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458046
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-SA9B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 40901 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 364
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

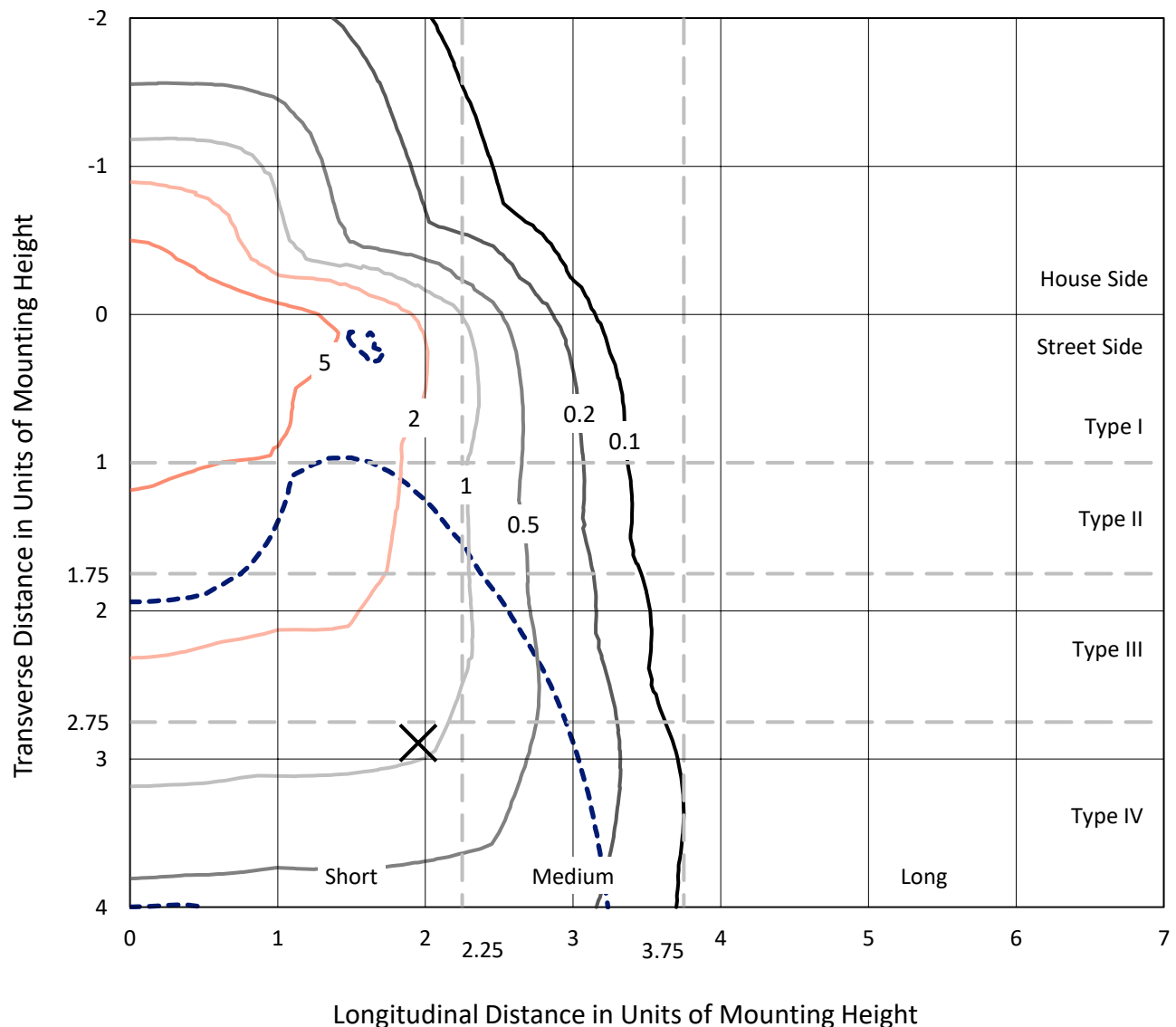


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



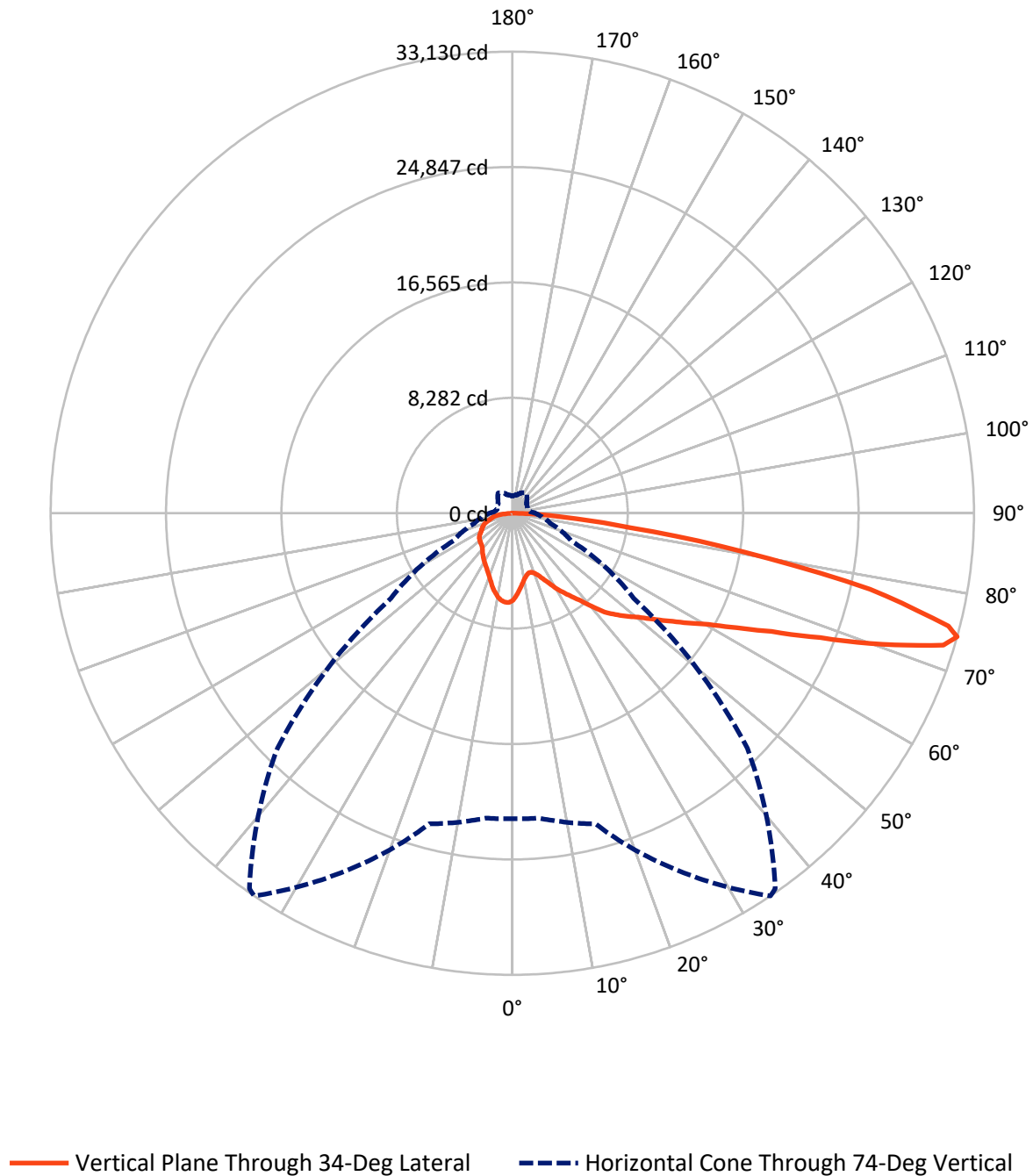
Based on 25 foot mounting height. Maximum calculated value = 10 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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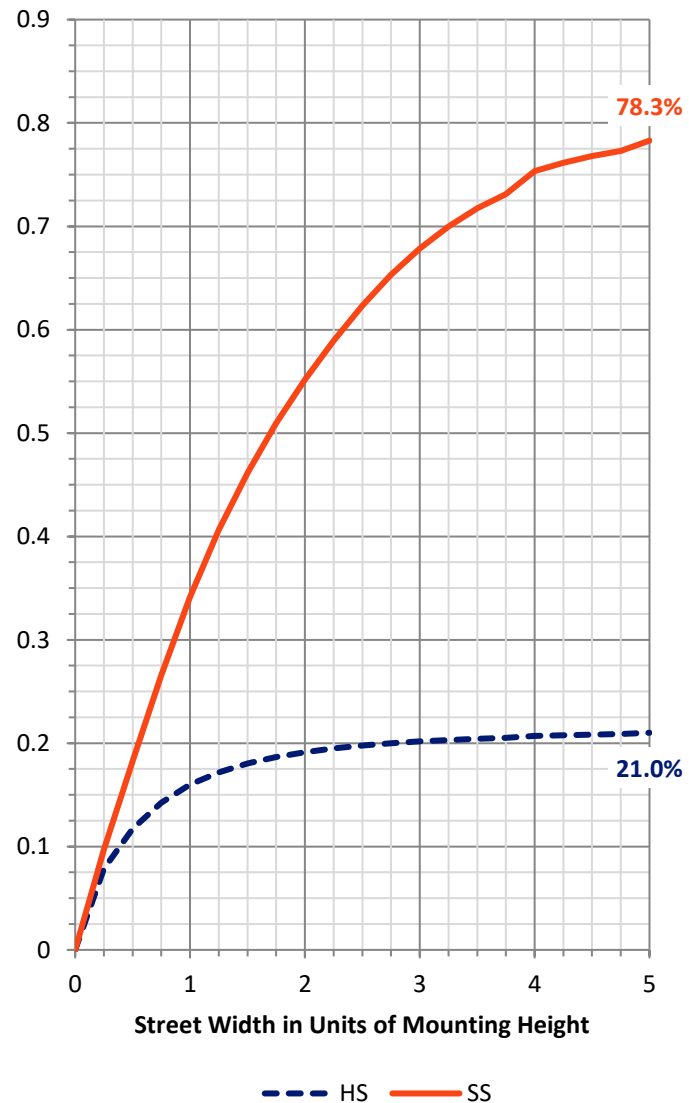
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8704.0	0.0	8704.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	32197.0	0.0	32197.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	40901.0	0.0	40901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.9	1.4
10°-20°	1554.7	3.8
20°-30°	2563.3	6.3
30°-40°	3839.5	9.4
40°-50°	5581.6	13.6
50°-60°	7796.2	19.1
60°-70°	9760.4	23.9
70°-80°	8071.1	19.7
80°-90°	1166.2	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°	40901.0	100.0
0°-180°	40901.0	100.0

Coefficient of Utilization



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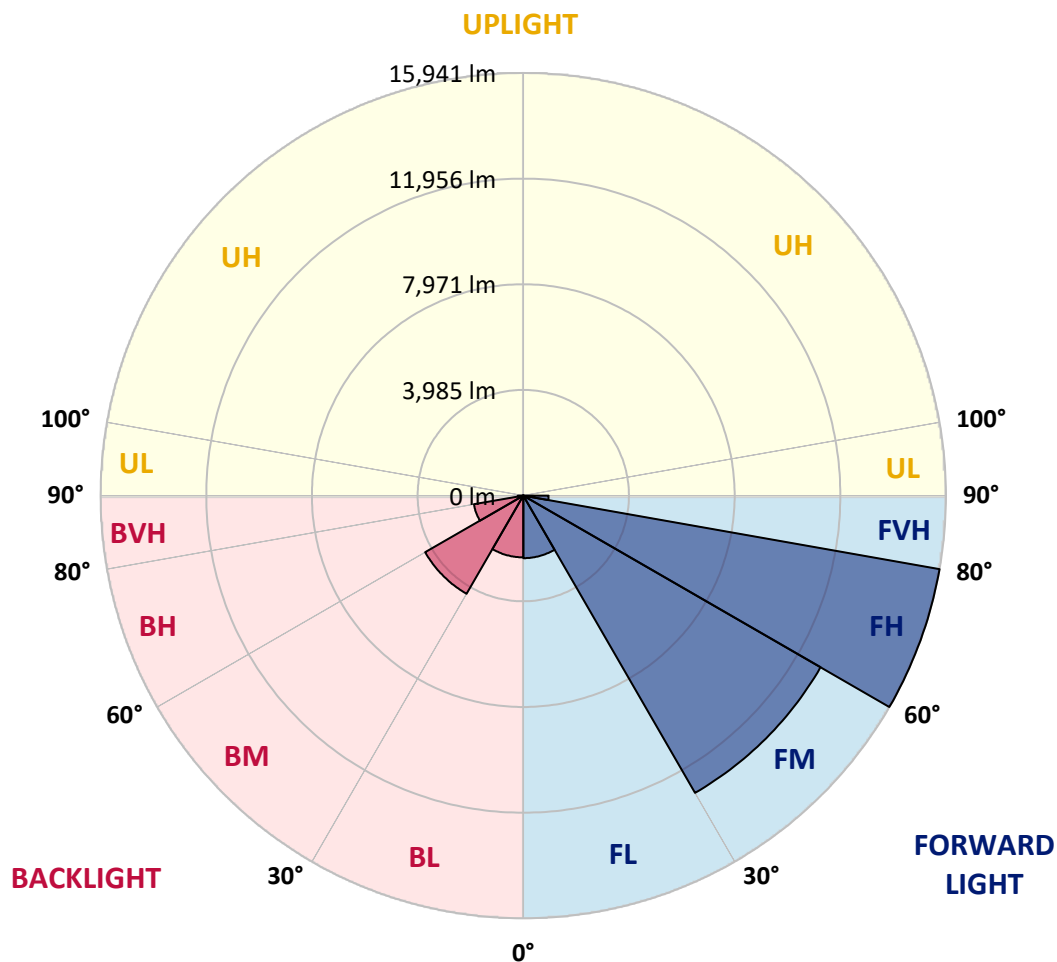
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2357.8	5.8			
FM	(30°-60°)	12942.8	31.6			
FH	(60°-80°)	15941.0	39.0			G5
FVH	(80°-90°)	955.4	2.3			G5
BL	(0°-30°)	2328.2	5.7	B3/2500		
BM	(30°-60°)	4274.6	10.5	B3/5000		
BH	(60°-80°)	1890.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	210.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8
2.5°	5771.2	5800.7	5816.5	5873.2	5886.8	5904.9	5952.5	6015.9	6097.5	6170.0	6233.4
5°	5290.8	5336.2	5363.3	5413.2	5510.6	5519.7	5646.6	5791.6	5957.0	6111.1	6238.0
7.5°	4835.4	4885.2	4907.9	4998.5	5127.7	5148.1	5333.9	5562.7	5839.2	6072.6	6267.4
10°	4493.2	4518.2	4568.0	4636.0	4790.1	4803.7	5046.1	5352.0	5710.0	6054.4	6317.3
12.5°	4307.4	4321.0	4332.4	4404.9	4556.7	4577.1	4830.9	5177.5	5608.1	6068.0	6398.9
15°	4334.6	4339.2	4289.3	4302.9	4425.3	4454.7	4706.2	5062.0	5544.6	6102.0	6521.2
17.5°	4563.5	4547.6	4425.3	4361.8	4447.9	4461.5	4681.3	5016.7	5515.2	6165.5	6648.1
20°	4923.8	4901.1	4690.4	4549.9	4599.7	4611.1	4762.9	5050.7	5544.6	6269.7	6845.2
22.5°	5372.4	5363.3	5043.9	4873.9	4871.6	4871.6	4951.0	5173.0	5633.0	6412.4	7051.4
25°	6000.1	5952.5	5535.6	5315.8	5254.6	5250.1	5241.0	5374.7	5746.3	6564.3	7296.1
27.5°	6643.6	6562.0	6190.4	5852.8	5721.4	5705.5	5646.6	5660.2	5891.3	6736.5	7574.8
30°	7221.4	7169.3	6820.3	6446.4	6290.1	6253.8	6090.7	6015.9	6133.7	7046.9	8019.0
32.5°	7663.2	7631.5	7359.6	7019.7	6788.6	6781.8	6543.9	6482.7	6512.1	7423.0	8526.5
35°	8021.2	8032.6	7894.3	7599.8	7334.7	7296.1	7137.5	7060.5	6974.4	7966.8	9165.5
37.5°	8510.7	8535.6	8526.5	8272.7	7948.7	7957.8	7921.5	7794.6	7565.8	8574.1	9874.7
40°	9049.9	9068.1	9065.8	8968.4	8798.4	8807.5	8793.9	8648.9	8306.7	9346.8	10663.2
42.5°	9795.4	9709.3	9485.0	9582.4	9682.1	9725.2	9818.1	9679.9	9210.8	10171.5	11404.2
45°	10629.3	10466.1	9958.6	10003.9	10373.2	10454.8	10966.9	10776.5	10191.9	11118.7	12276.6
47.5°	11154.9	10994.1	10565.8	10556.7	11046.2	11125.5	12031.8	11961.6	11084.7	12140.6	13341.5
50°	11624.0	11601.3	11118.7	11234.2	11712.3	11830.2	13192.0	13126.3	11975.2	13346.1	14501.7
52.5°	12319.6	12136.1	11750.9	11988.8	12621.0	12775.0	14343.0	14150.4	12793.2	14411.0	15627.8
55°	12632.3	12589.2	12566.6	12772.8	13640.6	13751.6	15462.4	15020.5	13491.1	15312.8	16484.3
57.5°	13468.4	13389.1	13613.4	13753.9	14841.5	15011.5	16631.6	15929.2	14102.9	16028.9	16901.2
60°	14551.5	14508.4	14714.6	14968.4	16182.9	16441.2	17963.9	16704.1	14594.6	16389.1	16672.4
62.5°	16169.3	16164.8	16126.3	16670.1	18084.0	18321.9	19493.4	17458.6	14671.6	16119.5	15489.6
65°	18489.6	18408.0	18072.7	18666.3	20449.6	20728.3	21086.3	17880.1	14207.1	14735.0	13042.4
67.5°	20916.4	20911.8	20639.9	21410.3	23846.2	24133.9	23078.0	17787.2	12917.8	11936.7	9262.9
70°	22928.5	22831.0	23177.7	25230.6	28185.3	28518.4	24820.5	16692.8	10289.4	7883.0	5503.8
72.5°	23411.1	23415.6	24136.2	28176.3	32352.3	32404.4	25448.1	13529.6	6886.0	4348.2	2753.0
74°	21924.7	21963.2	23080.3	28323.5	33129.5	32893.8	23843.9	10633.8	4656.4	2839.2	1984.9
75°	20012.3	19769.8	21385.4	27342.4	32322.8	32069.0	21965.5	8533.3	3552.9	2268.1	1737.9
77.5°	10699.5	10946.5	13439.0	20404.3	26259.3	25967.0	14893.6	4092.2	1919.2	1579.3	1250.8
80°	3808.9	4200.9	5904.9	10676.8	16835.5	16926.1	7108.1	1876.2	1350.5	1164.7	883.7
82.5°	1554.4	1597.4	2535.5	4738.0	8549.2	8630.7	2902.6	1114.8	965.3	802.1	528.0
85°	607.3	625.4	1121.6	2129.9	3648.1	3886.0	1003.8	589.1	593.7	460.0	269.6
87.5°	203.9	231.1	460.0	709.2	1239.4	1214.5	292.3	174.5	213.0	199.4	83.8
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°	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8	6244.8
2.5°	6265.2	6308.2	6337.7	6369.4	6398.9	6407.9	6401.1	6421.5	6423.8	6426.0	6428.3
5°	6301.4	6360.3	6417.0	6448.7	6462.3	6451.0	6412.4	6392.1	6373.9	6360.3	6364.9
7.5°	6351.3	6435.1	6487.2	6500.8	6464.6	6412.4	6317.3	6242.5	6194.9	6163.2	6160.9
10°	6428.3	6509.9	6552.9	6514.4	6414.7	6287.8	6138.3	5997.8	5891.3	5859.6	5857.3
12.5°	6525.7	6618.6	6616.4	6503.1	6328.6	6102.0	5859.6	5696.4	5551.4	5478.9	5508.4
15°	6652.6	6722.9	6657.2	6453.2	6176.8	5866.4	5567.3	5345.2	5182.1	5105.0	5109.6
17.5°	6799.9	6861.1	6686.6	6364.9	5963.8	5565.0	5218.3	5007.6	4878.4	4821.8	4817.3
20°	6983.5	7001.6	6686.6	6210.8	5689.6	5213.8	4883.0	4735.7	4663.2	4633.7	4642.8
22.5°	7180.6	7144.3	6650.4	5993.3	5329.4	4846.7	4624.7	4559.0	4522.7	4518.2	4522.7
25°	7402.6	7300.7	6575.6	5698.7	4953.2	4529.5	4400.3	4411.7	4418.5	4418.5	4434.3
27.5°	7674.5	7470.6	6451.0	5327.1	4513.6	4234.9	4198.7	4278.0	4314.2	4321.0	4332.4
30°	8032.6	7656.4	6244.8	4862.6	4139.8	3969.8	4033.3	4139.8	4180.6	4205.5	4200.9
32.5°	8458.5	7860.3	5966.1	4398.1	3838.4	3784.0	3861.1	3969.8	4015.1	4028.7	4010.6
35°	8959.3	8091.5	5599.0	3963.0	3575.6	3607.3	3697.9	3731.9	3772.7	3772.7	3781.8
37.5°	9498.6	8277.3	5150.4	3564.2	3371.6	3487.2	3552.9	3521.2	3503.1	3480.4	3491.7
40°	10046.9	8415.5	4568.0	3170.0	3167.7	3362.6	3380.7	3290.1	3217.6	3194.9	3183.6
42.5°	10525.0	8501.6	4042.3	2864.1	2975.1	3240.2	3253.8	3108.8	2993.2	2925.3	2902.6
45°	11089.2	8601.3	3528.0	2610.3	2796.1	3142.8	3176.8	2981.9	2812.0	2669.2	2633.0
47.5°	11861.9	8827.9	3122.4	2413.2	2666.9	3081.6	3129.2	2877.7	2653.3	2467.5	2438.1
50°	12734.3	9138.3	2807.4	2279.5	2567.2	3027.2	3086.1	2771.2	2506.1	2299.9	2277.2
52.5°	13534.1	9306.0	2535.5	2159.4	2469.8	2927.5	3029.5	2694.1	2361.1	2132.2	2111.8
55°	13971.4	9034.1	2268.1	2041.6	2336.1	2798.4	2950.2	2587.6	2220.6	2043.8	2014.4
57.5°	14030.3	8472.1	2025.7	1914.7	2195.6	2639.8	2802.9	2458.5	2129.9	1982.6	1957.7
60°	13574.9	7633.8	1837.6	1810.4	2052.9	2460.7	2637.5	2345.2	2037.0	1914.7	1889.7
62.5°	12442.0	6722.9	1706.2	1715.3	1907.9	2272.7	2515.1	2236.4	1948.7	1839.9	1817.2
65°	10493.3	5549.1	1579.3	1617.8	1778.7	2125.4	2404.1	2145.8	1860.3	1783.2	1762.9
67.5°	7289.3	4006.1	1475.1	1515.9	1656.4	1975.9	2274.9	2048.4	1760.6	1719.8	1688.1
70°	4035.5	2465.3	1352.7	1400.3	1529.5	1808.2	2129.9	1901.1	1615.6	1597.4	1552.1
72.5°	2120.9	1570.3	1214.5	1266.6	1357.3	1592.9	1907.9	1740.2	1472.8	1395.8	1336.9
74°	1656.4	1287.0	1121.6	1176.0	1237.2	1466.0	1776.5	1624.6	1370.9	1280.2	1234.9
75°	1443.4	1146.5	1042.3	1112.5	1166.9	1379.9	1674.5	1543.1	1314.2	1228.1	1187.3
77.5°	1019.6	858.8	852.0	935.8	965.3	1210.0	1509.1	1404.8	1171.5	1080.8	1042.3
80°	716.0	643.5	675.2	727.3	768.1	1069.5	1400.3	1214.5	960.7	854.2	840.6
82.5°	466.8	421.5	482.6	530.2	543.8	788.5	1130.7	922.2	700.2	568.7	528.0
85°	215.3	210.7	276.4	269.6	267.4	385.2	670.7	539.3	403.3	301.4	283.2
87.5°	54.4	52.1	68.0	56.6	68.0	58.9	61.2	15.9	2.3	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)