

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: P192594

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-5NQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35516.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 333
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: 25 FT

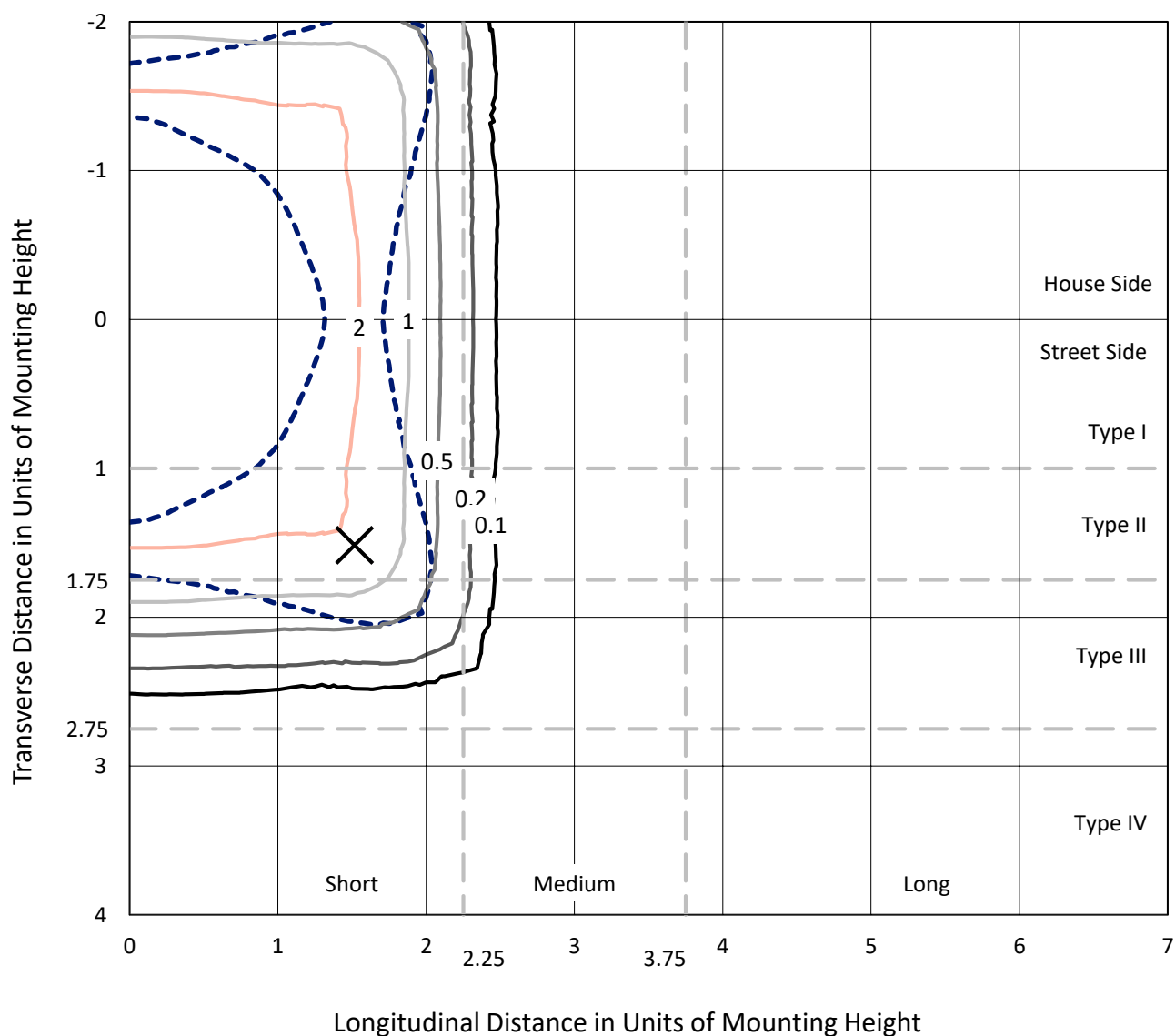


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

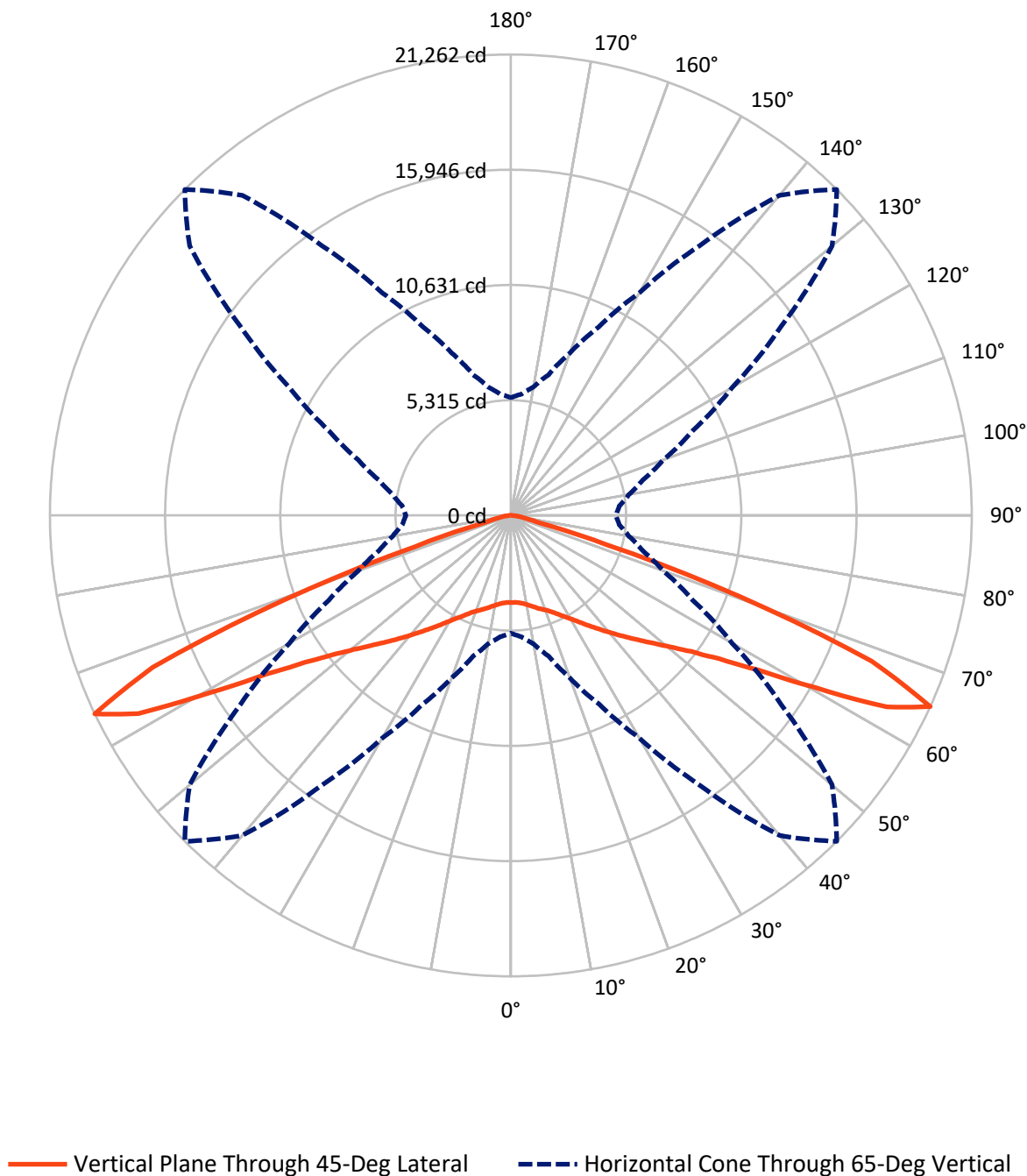


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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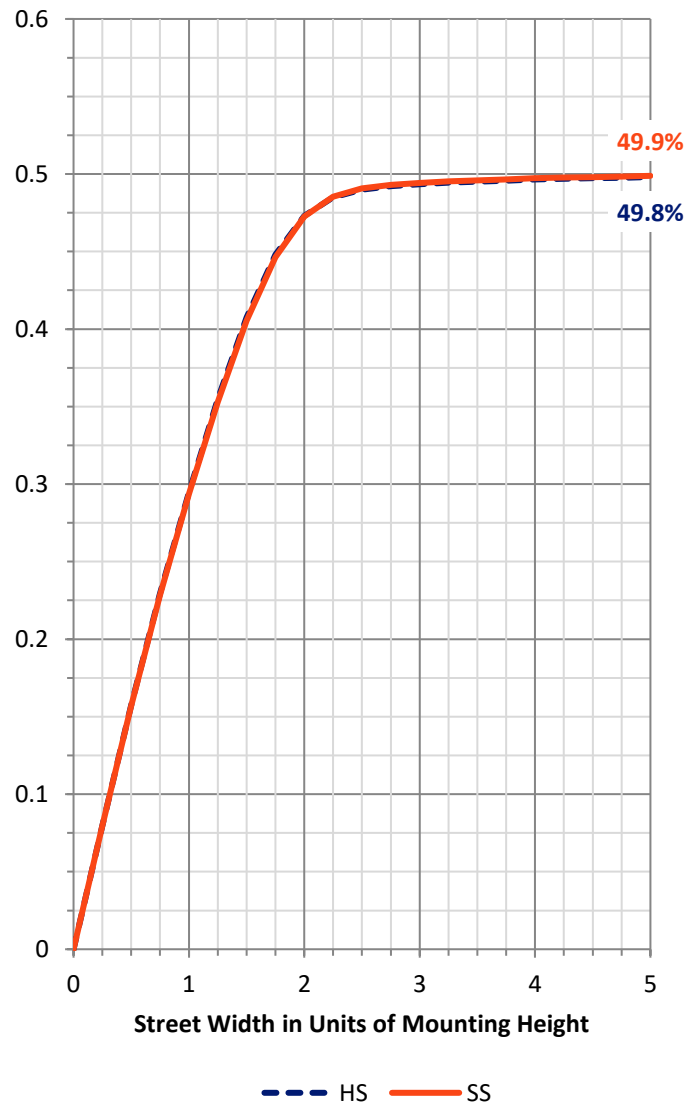
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17758.5	0.0	17758.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17758.5	0.0	17758.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35516.9	0.0	35516.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	1.1
10°-20°	1256.2	3.5
20°-30°	2349.0	6.6
30°-40°	3972.7	11.2
40°-50°	6495.8	18.3
50°-60°	10329.4	29.1
60°-70°	9337.1	26.3
70°-80°	1181.7	3.3
80°-90°	203.3	0.6
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°	35516.9	100.0
0°-180°	35516.9	100.0

Coefficient of Utilization



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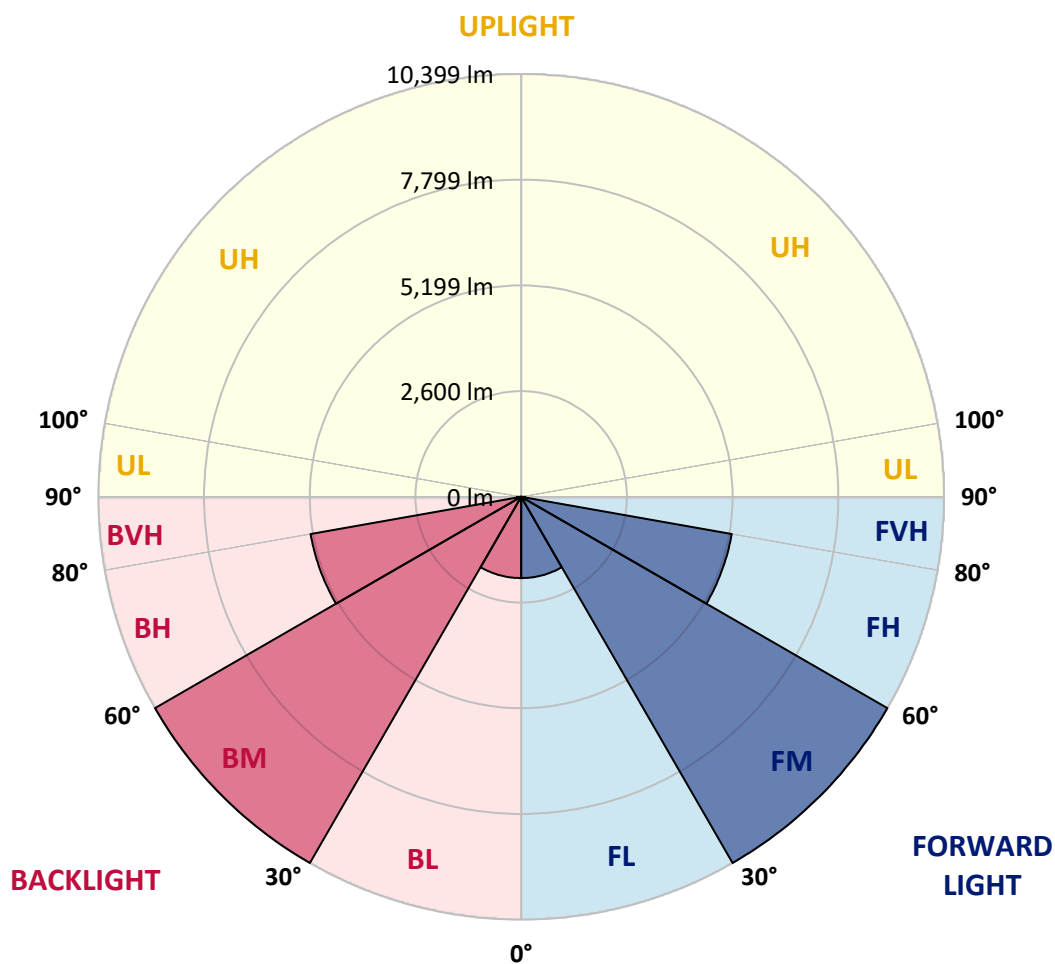
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1998.5	5.6			
FM	(30°-60°)	10399.0	29.3			
FH	(60°-80°)	5259.4	14.8			G3/7500
FVH	(80°-90°)	101.6	0.3			G2/225
BL	(0°-30°)	1998.5	5.6	B3/2500		
BM	(30°-60°)	10399.0	29.3	B5		
BH	(60°-80°)	5259.4	14.8	B5		G3/7500
BVH	(80°-90°)	101.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8
2.5°	4022.1	4025.4	4028.7	4025.4	4028.7	4023.8	4020.4	4025.4	4020.4	4015.4	4018.8
5°	4057.1	4058.7	4058.7	4053.7	4058.7	4055.3	4050.3	4057.1	4052.0	4047.1	4050.3
7.5°	4115.2	4122.0	4116.9	4111.9	4115.2	4111.9	4108.5	4110.3	4108.5	4103.6	4105.3
10°	4193.4	4198.4	4195.1	4193.4	4196.7	4195.1	4191.7	4190.1	4191.7	4186.7	4186.7
12.5°	4288.2	4286.6	4284.9	4286.6	4291.6	4291.6	4289.8	4291.6	4294.9	4296.5	4293.3
15°	4381.4	4384.7	4384.7	4384.7	4394.7	4403.0	4407.9	4411.4	4418.0	4419.6	4413.0
17.5°	4497.7	4497.7	4496.1	4497.7	4507.8	4521.1	4526.1	4532.7	4539.4	4544.4	4536.1
20°	4627.5	4630.9	4630.9	4634.2	4647.6	4662.5	4662.5	4665.8	4662.5	4665.8	4660.8
22.5°	4785.5	4795.6	4795.6	4797.2	4810.5	4828.8	4823.8	4828.8	4820.5	4827.2	4820.5
25°	4991.8	5006.8	5003.5	5003.5	5013.5	5025.2	5026.8	5036.8	5035.1	5043.4	5038.4
27.5°	5224.7	5248.0	5254.6	5252.9	5259.6	5271.3	5274.6	5286.3	5279.6	5286.3	5282.9
30°	5504.2	5514.1	5527.4	5532.5	5540.7	5552.4	5552.4	5554.0	5545.8	5555.8	5560.8
32.5°	5793.6	5811.9	5825.1	5855.1	5870.1	5878.4	5876.7	5880.2	5871.8	5885.0	5895.1
35°	6176.2	6189.5	6211.1	6234.5	6254.3	6252.7	6247.7	6249.4	6249.4	6261.0	6271.1
37.5°	6637.0	6640.2	6668.5	6701.9	6711.8	6701.9	6671.9	6665.3	6650.3	6665.3	6681.9
40°	7124.4	7135.9	7192.5	7214.2	7219.1	7200.8	7157.6	7132.7	7099.3	7117.7	7140.9
42.5°	7634.9	7658.3	7709.9	7748.1	7764.7	7753.0	7693.2	7654.9	7611.6	7621.7	7645.0
45°	8200.6	8228.8	8301.9	8338.5	8370.3	8351.9	8293.7	8235.4	8167.2	8172.3	8208.8
47.5°	8832.6	8860.9	8955.7	9017.2	9033.9	9030.6	8965.7	8885.8	8792.7	8789.4	8820.9
50°	9541.2	9569.5	9687.6	9782.4	9830.6	9825.6	9749.1	9636.0	9522.9	9524.5	9564.5
52.5°	10233.2	10268.0	10391.2	10554.2	10649.1	10717.2	10670.7	10564.2	10426.2	10429.5	10466.1
55°	10881.9	10940.1	11081.5	11302.8	11479.1	11670.4	11725.2	11721.9	11638.8	11662.0	11698.6
57.5°	11196.4	11282.7	11500.7	11850.0	12209.2	12598.5	12927.9	13174.1	13278.9	13436.9	13400.3
60°	10600.8	10738.9	11059.9	11573.9	12284.1	13096.0	13965.8	14815.9	15541.0	16088.3	15774.0
62.5°	8679.5	8859.2	9248.5	9907.2	10981.7	12280.8	13945.9	15955.2	18144.2	19465.0	18521.8
65°	5430.9	5617.2	6013.2	6718.5	7975.9	9591.1	11850.0	15180.2	19270.4	21261.6	19341.9
67.5°	2117.6	2218.9	2433.5	2884.3	3829.1	5266.3	7533.5	11312.7	16204.8	17949.6	15903.7
70°	1061.2	1071.2	1111.1	1194.3	1397.2	1814.8	2761.2	5244.7	9293.4	11224.5	8959.0
72.5°	766.8	768.5	788.5	825.0	889.9	983.2	1162.7	1605.1	3022.4	4619.3	2832.8
75°	587.2	593.9	605.6	625.4	660.4	706.9	771.8	924.9	1146.1	1329.0	1117.8
77.5°	452.5	465.8	474.0	492.3	513.9	545.6	563.9	622.1	723.7	761.9	750.2
80°	344.2	355.9	374.2	389.2	404.2	419.2	412.6	439.1	492.3	524.0	507.3
82.5°	219.6	232.8	286.2	299.4	306.0	316.1	304.4	306.0	329.3	349.3	329.3
85°	141.4	149.6	181.3	198.0	199.6	206.3	201.2	189.7	189.7	172.9	194.6
87.5°	64.9	66.5	81.5	96.4	99.8	89.8	88.2	84.7	68.2	64.9	69.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8	4018.8
2.5°	4017.1	4020.4	4022.1	4027.1	4028.7	4028.7	4030.3	4033.8
5°	4048.7	4053.7	4055.3	4062.0	4063.7	4062.0	4065.3	4066.9
7.5°	4105.3	4113.6	4116.9	4123.6	4118.5	4125.2	4126.8	4126.8
10°	4188.5	4196.7	4198.4	4205.1	4201.8	4205.1	4205.1	4201.8
12.5°	4298.3	4299.9	4294.9	4299.9	4293.3	4296.5	4291.6	4288.2
15°	4419.6	4414.6	4403.0	4403.0	4393.0	4394.7	4393.0	4391.3
17.5°	4537.7	4527.7	4519.4	4516.1	4507.8	4506.2	4501.2	4501.2
20°	4667.4	4662.5	4657.5	4650.8	4642.5	4634.2	4632.6	4635.9
22.5°	4823.8	4822.1	4822.1	4818.9	4807.2	4798.8	4793.9	4793.9
25°	5033.5	5018.5	5018.5	5016.7	5011.8	5006.8	4996.9	5001.8
27.5°	5269.6	5261.3	5267.9	5266.3	5261.3	5261.3	5254.6	5254.6
30°	5560.8	5557.4	5567.5	5559.1	5542.4	5540.7	5534.1	5525.8
32.5°	5896.7	5893.5	5908.4	5898.4	5871.8	5856.9	5843.5	5836.8
35°	6271.1	6272.7	6290.9	6284.3	6254.3	6244.3	6221.1	6217.7
37.5°	6680.2	6706.8	6738.4	6745.0	6720.1	6713.4	6688.6	6675.2
40°	7160.9	7195.9	7244.1	7255.7	7229.1	7224.1	7189.2	7170.9
42.5°	7673.3	7733.2	7793.0	7803.0	7776.3	7749.8	7716.4	7703.3
45°	8245.5	8317.0	8395.2	8415.1	8375.2	8343.6	8300.3	8300.3
47.5°	8887.4	8977.3	9065.5	9120.4	9083.9	9050.5	8998.9	8965.7
50°	9646.1	9769.1	9883.9	9940.4	9882.2	9819.0	9729.2	9699.3
52.5°	10597.5	10730.6	10830.4	10800.4	10710.5	10622.4	10524.3	10484.4
55°	11811.8	11856.7	11856.7	11743.5	11563.9	11415.9	11261.2	11209.6
57.5°	13330.4	13157.4	12891.3	12553.7	12129.4	11760.2	11510.7	11392.6
60°	15115.3	14283.6	13343.8	12420.6	11662.0	11036.6	10665.7	10496.0
62.5°	16304.5	14128.9	12245.9	10763.7	9672.6	8919.2	8406.7	8207.2
65°	15238.4	11783.5	9261.8	7488.6	6299.3	5532.5	5025.2	4838.8
67.5°	11161.4	7383.8	4932.0	3534.7	2589.9	2066.0	1858.1	1771.5
70°	5010.2	2600.0	1593.5	1244.3	1072.9	984.8	946.5	933.2
72.5°	1510.4	1092.8	921.5	831.7	763.5	720.2	688.7	685.3
75°	911.6	758.5	673.7	620.5	577.2	542.3	525.6	520.6
77.5°	637.1	557.2	517.4	479.1	445.8	419.2	404.2	392.6
80°	447.4	409.1	390.9	369.3	347.7	322.8	301.1	291.0
82.5°	299.4	291.0	291.0	277.7	259.5	236.2	193.0	183.0
85°	193.0	191.3	194.6	189.7	176.4	151.4	124.8	118.1
87.5°	89.8	91.4	101.5	99.8	96.4	79.9	63.3	59.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)