

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: P192738

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-RW-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38377.3 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 323
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



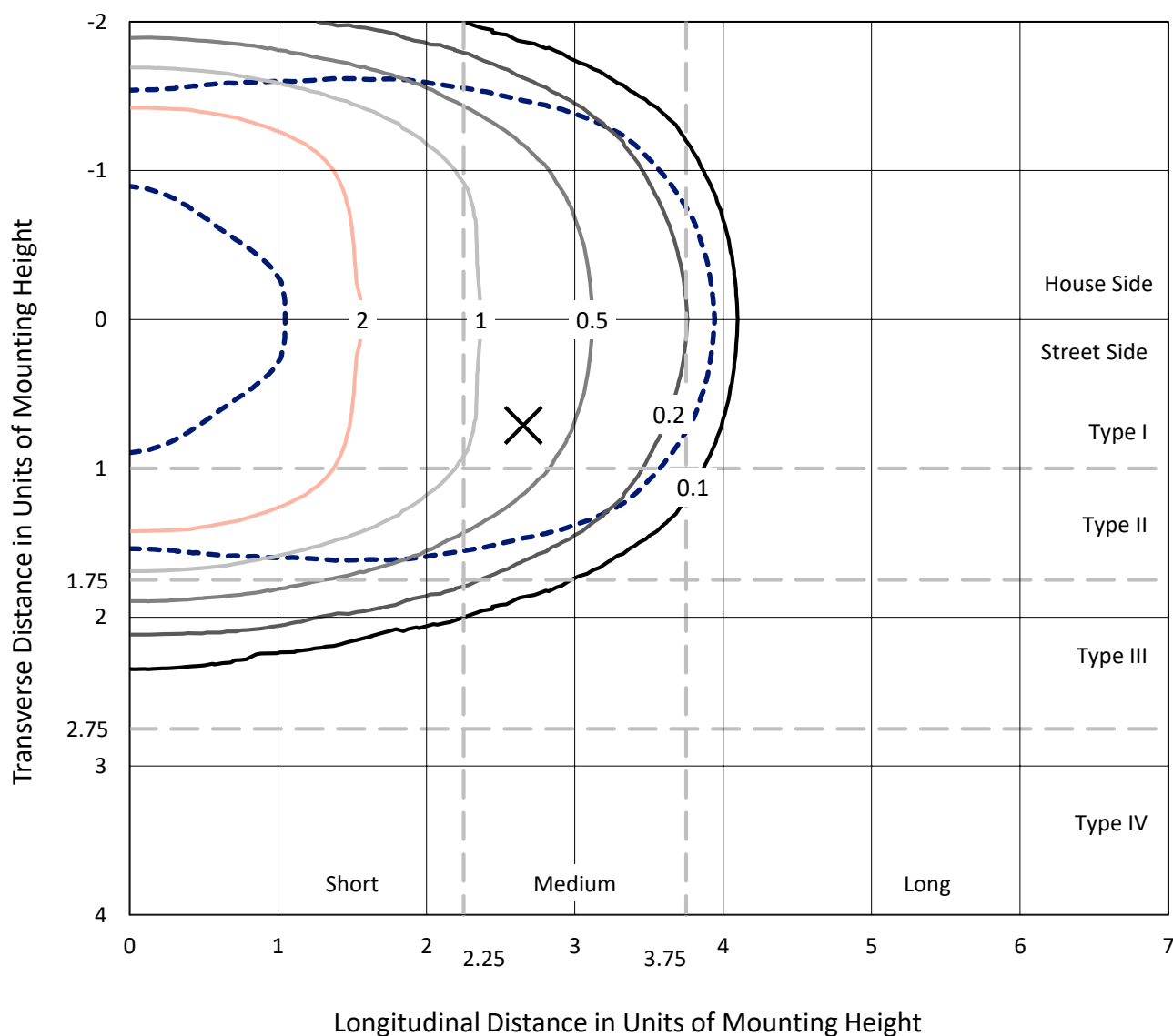
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

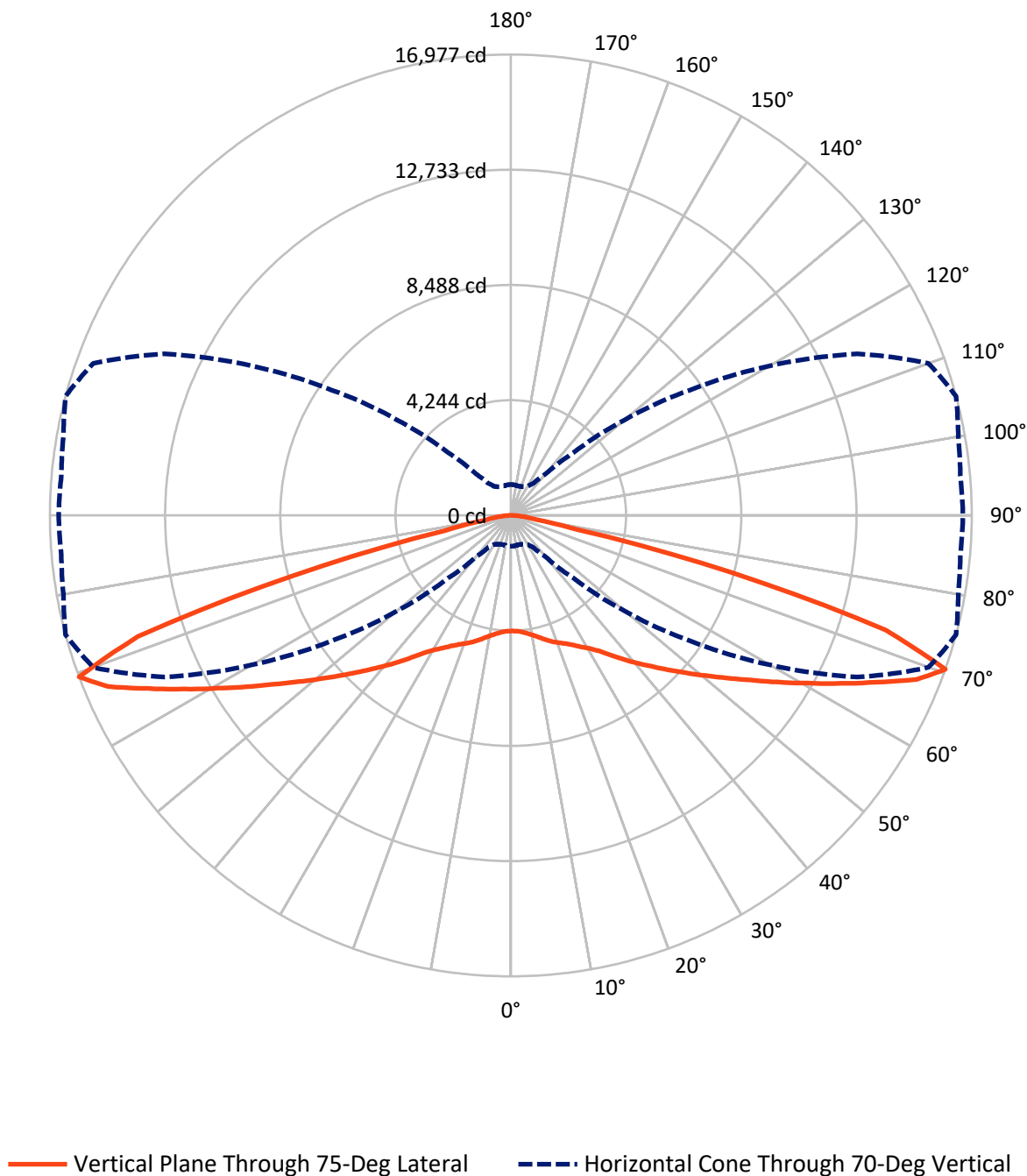


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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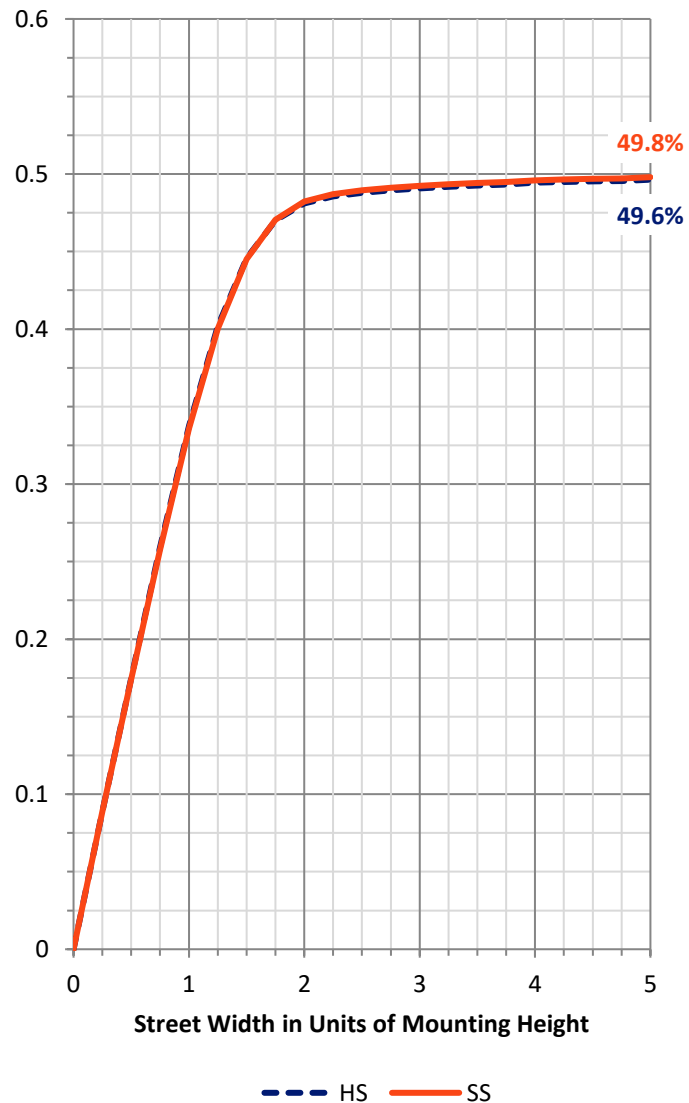
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19188.6	0.0	19188.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19188.6	0.0	19188.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	38377.3	0.0	38377.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	1.1
10°-20°	1268.6	3.3
20°-30°	2387.6	6.2
30°-40°	4228.0	11.0
40°-50°	7070.6	18.4
50°-60°	9853.0	25.7
60°-70°	9137.0	23.8
70°-80°	3641.4	9.5
80°-90°	382.8	1.0
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°	38377.3	100.0
0°-180°	38377.3	100.0

Coefficient of Utilization



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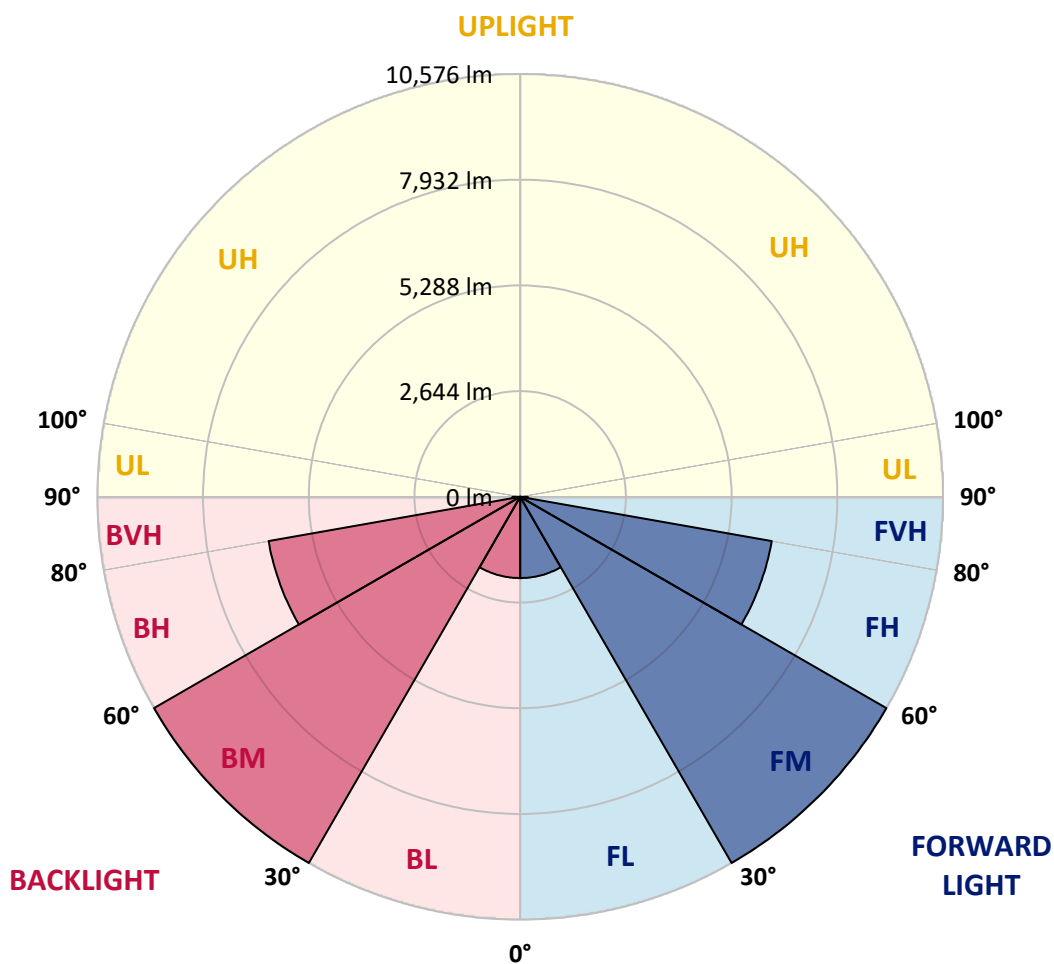
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2032.2	5.3			
FM	(30°-60°)	10575.8	27.6			
FH	(60°-80°)	6389.2	16.6			G3/7500
FVH	(80°-90°)	191.4	0.5			G2/225
BL	(0°-30°)	2032.2	5.3	B3/2500		
BM	(30°-60°)	10575.8	27.6	B5		
BH	(60°-80°)	6389.2	16.6	B5		G5
BVH	(80°-90°)	191.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0
2.5°	4249.6	4246.1	4249.6	4247.9	4251.5	4251.5	4255.1	4262.4	4262.4	4267.7	4266.0
5°	4208.0	4206.2	4211.6	4217.1	4222.5	4233.4	4244.2	4260.6	4273.2	4282.3	4291.3
7.5°	4126.4	4126.4	4133.6	4146.3	4159.0	4182.6	4208.0	4240.6	4273.2	4300.5	4324.1
10°	4059.2	4063.0	4072.0	4093.7	4115.5	4151.8	4186.2	4233.4	4278.7	4324.1	4360.3
12.5°	4019.3	4024.8	4041.1	4073.7	4110.0	4159.0	4211.6	4271.5	4322.2	4376.6	4412.9
15°	4032.0	4035.7	4059.2	4099.2	4146.3	4208.0	4278.7	4349.4	4409.2	4467.3	4516.3
17.5°	4102.8	4108.2	4135.5	4180.8	4229.8	4302.3	4378.4	4458.3	4532.6	4597.9	4657.8
20°	4229.8	4235.2	4269.7	4318.6	4376.6	4451.0	4527.1	4610.6	4694.1	4762.9	4830.2
22.5°	4409.2	4418.3	4451.0	4500.0	4565.3	4645.0	4735.8	4824.7	4904.4	4967.9	5027.8
25°	4645.0	4665.1	4695.9	4750.3	4819.2	4891.7	4989.7	5080.4	5156.6	5216.5	5260.0
27.5°	4978.8	5006.0	5029.6	5082.2	5149.3	5218.2	5316.2	5396.0	5468.5	5526.6	5559.2
30°	5421.3	5448.5	5472.1	5522.9	5584.7	5649.9	5742.4	5813.1	5858.5	5903.9	5902.0
32.5°	5958.2	5987.3	5996.3	6050.8	6114.2	6184.9	6268.4	6308.3	6344.5	6350.0	6317.4
35°	6558.7	6573.1	6609.4	6682.0	6754.5	6812.6	6892.4	6912.3	6912.3	6885.1	6812.6
37.5°	7217.0	7226.1	7276.8	7358.5	7432.9	7492.7	7547.1	7587.1	7567.1	7509.1	7387.6
40°	7938.9	7955.2	8027.9	8100.4	8183.7	8240.0	8298.0	8305.4	8285.3	8200.1	8035.0
42.5°	8628.1	8642.6	8715.2	8829.5	8938.3	9016.3	9070.7	9081.6	9018.1	8940.1	8735.2
45°	9221.3	9259.4	9353.6	9487.8	9645.6	9756.3	9830.7	9861.5	9805.3	9703.8	9466.1
47.5°	9691.0	9729.1	9863.4	10022.9	10218.8	10398.4	10521.7	10587.0	10572.5	10496.3	10236.9
50°	10035.7	10071.9	10217.1	10413.0	10641.5	10864.5	11074.9	11230.9	11285.3	11250.9	11013.3
52.5°	10075.6	10135.4	10305.9	10568.8	10866.4	11171.1	11470.4	11735.1	11914.7	11941.9	11766.0
55°	9518.6	9578.5	9814.3	10204.3	10646.9	11143.9	11622.7	12068.9	12422.6	12603.9	12511.5
57.5°	8205.6	8312.6	8561.0	9018.1	9669.2	10413.0	11176.4	11969.2	12689.2	13169.9	13262.3
60°	6288.4	6415.3	6665.7	7151.8	7877.3	8764.2	9783.5	10955.2	12226.6	13307.7	13953.4
62.5°	4033.9	4153.6	4416.6	4839.2	5430.4	6391.7	7485.5	8876.7	10585.2	12292.0	13830.0
65°	2073.2	2138.4	2276.3	2532.1	2992.7	3711.0	4692.2	6079.7	8033.2	10139.0	12362.6
67.5°	1313.2	1325.9	1356.7	1392.9	1510.8	1759.4	2216.5	3081.6	4688.7	6885.1	9487.8
70°	1135.4	1135.4	1120.9	1115.4	1130.0	1164.4	1235.1	1436.5	1978.8	3268.4	5472.1
72.5°	1039.3	1028.4	1003.0	983.2	979.4	979.4	993.9	1024.8	1111.8	1331.4	2142.0
75°	957.6	926.8	892.4	868.8	859.8	850.7	848.8	854.3	872.4	906.9	1023.0
77.5°	857.9	818.1	778.2	754.6	743.6	731.0	720.0	707.4	698.2	709.2	760.0
80°	738.1	692.8	662.0	647.5	636.7	618.5	594.9	573.2	553.2	549.6	580.3
82.5°	594.9	542.4	544.1	549.6	529.6	504.2	478.9	455.3	420.7	402.6	420.7
85°	480.6	453.4	440.8	475.2	446.3	408.1	368.2	326.4	272.0	228.6	248.4
87.5°	186.9	186.9	279.3	429.8	386.3	315.6	270.3	230.3	143.2	110.7	112.4
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°	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0	4257.0
2.5°	4264.2	4267.7	4266.0	4264.2	4264.2	4262.4	4264.2	4264.2
5°	4296.8	4305.9	4305.9	4309.5	4309.5	4311.4	4313.1	4311.4
7.5°	4345.8	4362.1	4373.0	4385.6	4387.6	4389.4	4393.0	4389.4
10°	4394.7	4427.4	4451.0	4474.6	4485.4	4489.1	4492.7	4492.7
12.5°	4456.4	4501.8	4543.5	4585.3	4605.2	4616.1	4616.1	4623.3
15°	4558.1	4603.4	4652.4	4708.5	4743.1	4761.2	4766.7	4766.7
17.5°	4701.3	4741.2	4783.0	4837.4	4880.8	4904.4	4909.9	4908.0
20°	4868.1	4906.3	4929.9	4964.3	5002.4	5029.6	5036.9	5036.9
22.5°	5058.6	5080.4	5084.1	5094.9	5125.8	5162.1	5178.4	5181.9
25°	5269.0	5274.5	5260.0	5260.0	5280.0	5314.4	5330.6	5332.5
27.5°	5541.1	5513.9	5477.6	5464.9	5477.6	5517.5	5537.5	5544.7
30°	5880.3	5815.0	5731.5	5686.2	5679.0	5731.5	5767.8	5773.3
32.5°	6268.4	6174.1	6063.5	5970.9	5947.4	5980.0	6023.6	6021.8
35°	6729.2	6616.6	6482.5	6364.6	6310.2	6342.8	6404.4	6411.7
37.5°	7260.6	7113.7	6959.5	6810.7	6725.5	6734.5	6799.9	6821.6
40°	7853.7	7663.2	7469.2	7269.7	7148.1	7124.5	7204.3	7217.0
42.5°	8488.5	8243.6	7998.8	7752.1	7596.1	7559.8	7652.3	7646.8
45°	9165.0	8853.1	8566.5	8294.4	8109.4	8055.0	8131.2	8131.2
47.5°	9892.4	9507.8	9166.9	8858.5	8657.1	8579.1	8651.7	8657.1
50°	10663.1	10255.1	9854.3	9511.4	9270.2	9170.4	9264.7	9279.3
52.5°	11430.4	11033.2	10628.7	10236.9	9945.0	9823.4	9932.2	9979.4
55°	12208.5	11818.6	11432.3	11049.5	10703.1	10559.8	10675.9	10735.7
57.5°	13030.1	12669.2	12301.1	11914.7	11580.9	11357.8	11481.2	11561.0
60°	13993.3	13684.9	13302.2	12875.9	12538.7	12311.9	12382.7	12453.4
62.5°	14755.1	14874.8	14550.2	14056.7	13623.3	13333.1	13402.0	13476.4
65°	14386.9	15614.8	15903.2	15404.5	14804.1	14352.4	14323.5	14361.5
67.5°	12025.4	14410.4	16149.9	16625.1	16122.7	15495.1	15379.0	15435.3
70°	8044.1	11015.1	14083.9	16369.3	16976.9	16733.9	16619.7	16654.1
72.5°	3863.3	6415.3	9554.9	12593.1	14443.1	15291.9	15564.0	15696.4
75°	1412.9	2546.5	4605.2	6939.5	8377.9	9698.3	10559.8	10911.7
77.5°	852.4	1028.4	1470.9	2214.5	2508.5	2807.8	2691.6	2749.7
80°	631.2	712.8	807.1	906.9	939.5	939.5	903.2	874.3
82.5°	442.6	495.2	540.5	594.9	609.4	582.3	478.9	380.9
85°	284.7	308.3	328.4	362.7	353.7	337.4	226.7	201.4
87.5°	130.6	148.7	156.0	172.3	165.1	157.8	112.4	94.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)