

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: P194178

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194178
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-10-LED-E1-5NQ-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40042 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

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

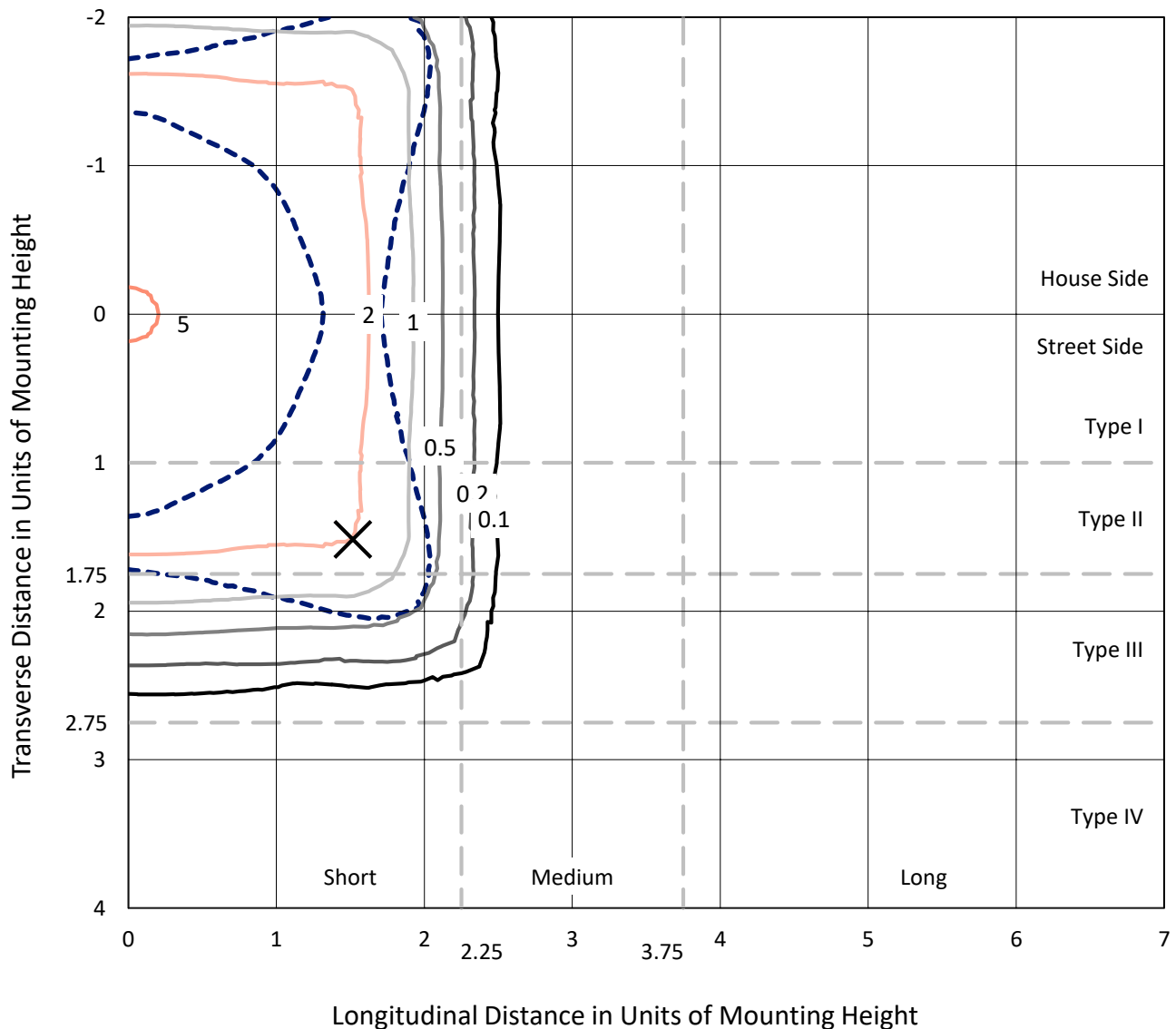


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

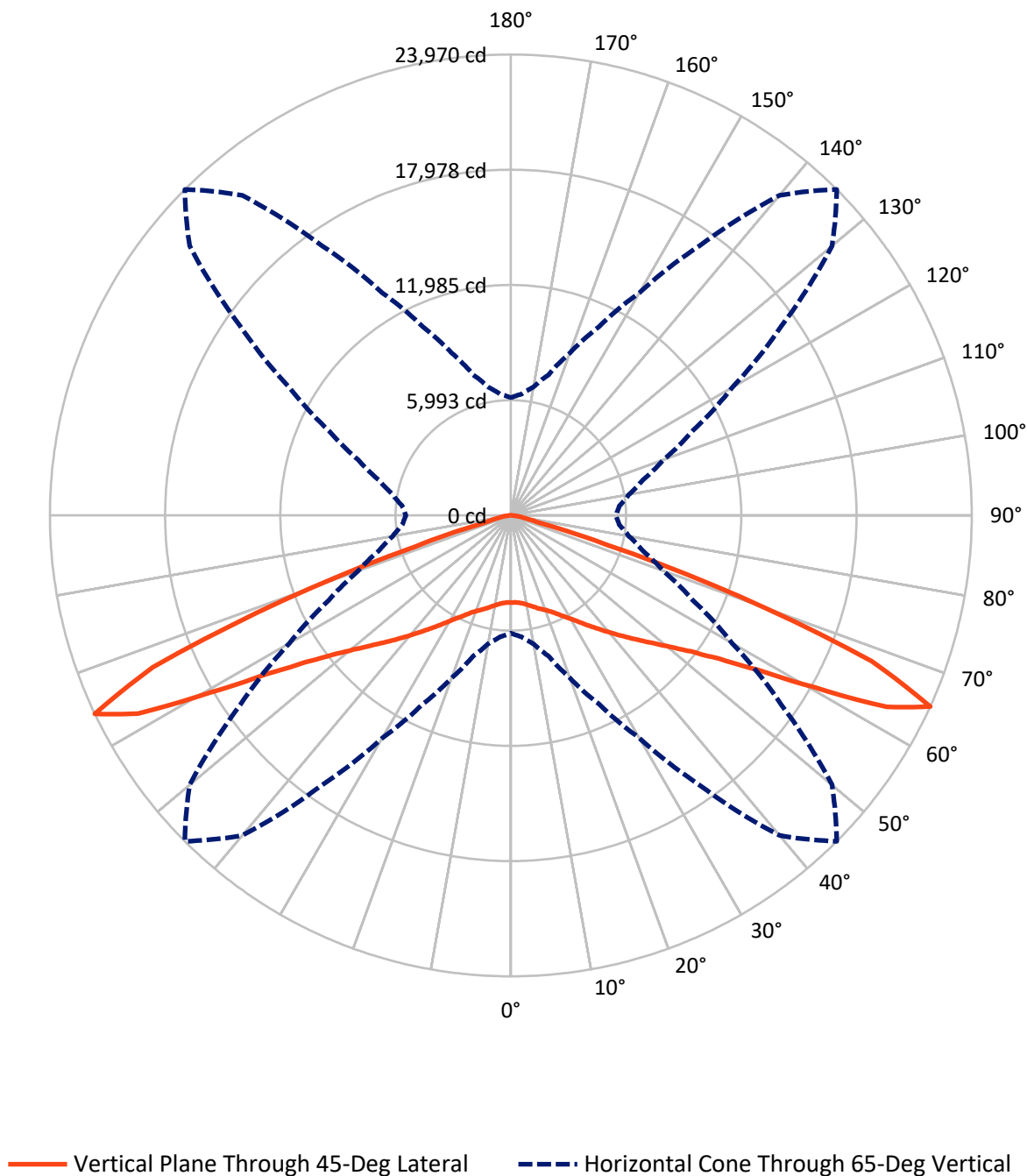


Based on 30 foot mounting height. Maximum calculated value = 5 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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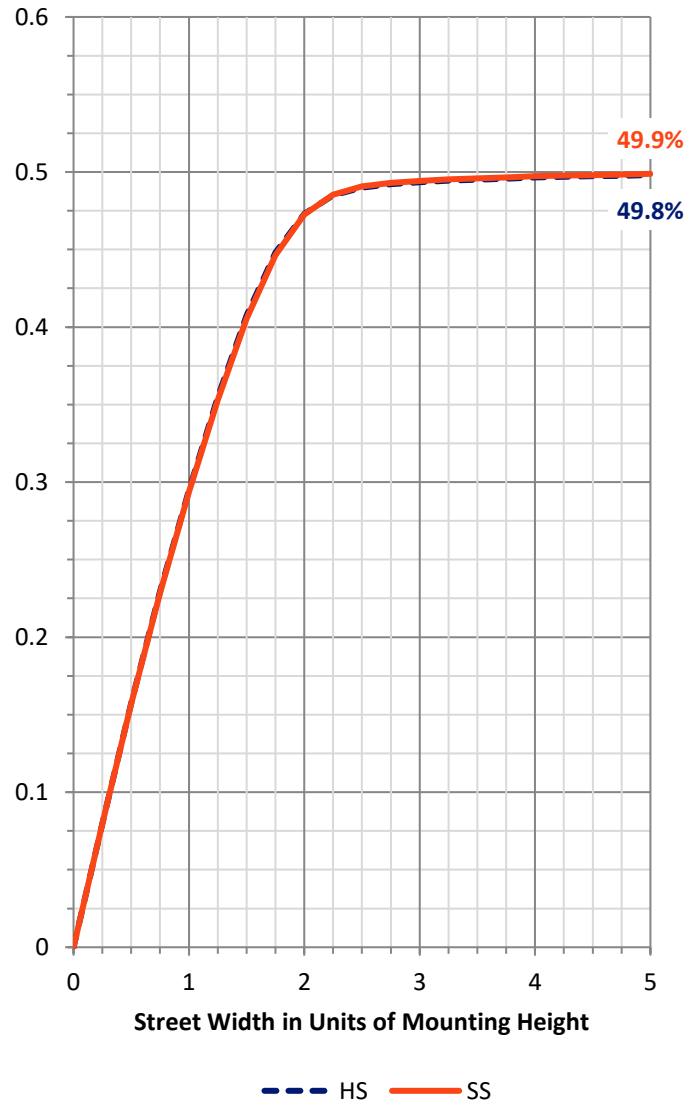
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20021.0	0.0	20021.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20021.0	0.0	20021.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40042.0	0.0	40042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.6	1.1
10°-20°	1416.3	3.5
20°-30°	2648.2	6.6
30°-40°	4478.9	11.2
40°-50°	7323.5	18.3
50°-60°	11645.4	29.1
60°-70°	10526.7	26.3
70°-80°	1332.2	3.3
80°-90°	229.2	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°	40042.0	100.0
0°-180°	40042.0	100.0

Coefficient of Utilization



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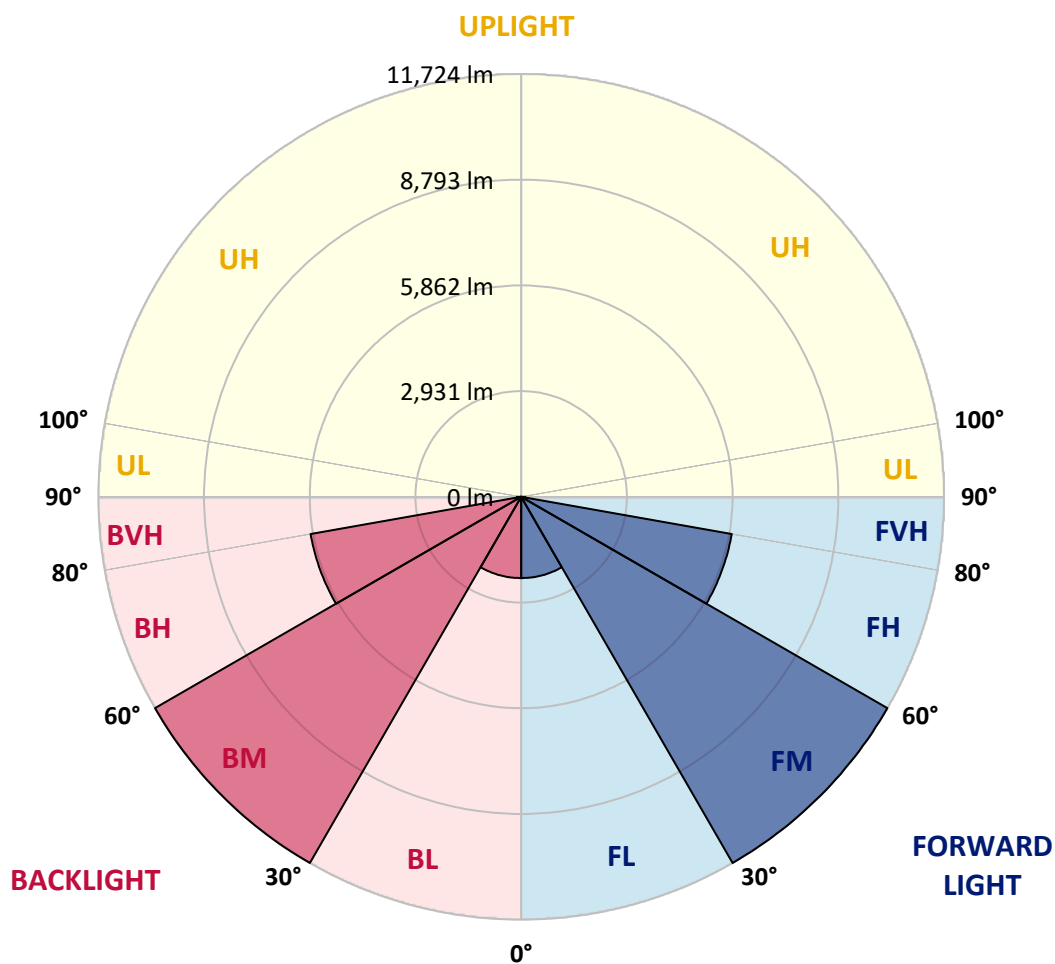
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2253.1	5.6			
FM	(30°-60°)	11723.9	29.3			
FH	(60°-80°)	5929.5	14.8			G3/7500
FVH	(80°-90°)	114.6	0.3			G2/225
BL	(0°-30°)	2253.1	5.6	B3/2500		
BM	(30°-60°)	11723.9	29.3	B5		
BH	(60°-80°)	5929.5	14.8	B5		G3/7500
BVH	(80°-90°)	114.6	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°	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8
2.5°	4534.5	4538.3	4542.0	4538.3	4542.0	4536.4	4532.6	4538.3	4532.6	4527.0	4530.8
5°	4573.9	4575.8	4575.8	4570.2	4575.8	4572.0	4566.4	4573.9	4568.3	4562.7	4566.4
7.5°	4639.5	4647.0	4641.4	4635.8	4639.5	4635.8	4632.0	4633.9	4632.0	4626.4	4628.3
10°	4727.7	4733.3	4729.6	4727.7	4731.4	4729.6	4725.8	4723.9	4725.8	4720.2	4720.2
12.5°	4834.6	4832.7	4830.8	4832.7	4838.3	4838.3	4836.5	4838.3	4842.1	4844.0	4840.2
15°	4939.6	4943.3	4943.3	4943.3	4954.6	4964.0	4969.6	4973.3	4980.9	4982.7	4975.2
17.5°	5070.9	5070.9	5069.0	5070.9	5082.1	5097.1	5102.7	5110.2	5117.7	5123.4	5114.0
20°	5217.1	5220.9	5220.9	5224.6	5239.6	5256.5	5256.5	5260.3	5256.5	5260.3	5254.6
22.5°	5395.3	5406.5	5406.5	5408.4	5423.4	5444.1	5438.4	5444.1	5434.7	5442.2	5434.7
25°	5627.8	5644.7	5641.0	5641.0	5652.2	5665.3	5667.2	5678.5	5676.6	5686.0	5680.3
27.5°	5890.4	5916.6	5924.1	5922.3	5929.8	5942.9	5946.6	5959.8	5952.3	5959.8	5956.0
30°	6205.4	6216.7	6231.7	6237.3	6246.7	6259.8	6259.8	6261.7	6252.3	6263.6	6269.2
32.5°	6531.7	6552.4	6567.4	6601.1	6618.0	6627.4	6625.5	6629.3	6619.9	6634.9	6646.1
35°	6963.1	6978.1	7002.4	7028.7	7051.2	7049.3	7043.7	7045.6	7045.6	7058.7	7070.0
37.5°	7482.5	7486.3	7518.2	7555.7	7566.9	7555.7	7521.9	7514.4	7497.5	7514.4	7533.2
40°	8032.0	8045.1	8108.9	8133.3	8138.9	8118.3	8069.5	8041.4	8003.9	8024.5	8050.7
42.5°	8607.7	8634.0	8692.1	8735.2	8754.0	8740.9	8673.4	8630.2	8581.5	8592.7	8619.0
45°	9245.3	9277.2	9359.7	9401.0	9436.6	9416.0	9350.3	9284.7	9207.8	9213.4	9254.7
47.5°	9958.0	9989.8	10096.7	10166.1	10184.9	10181.1	10108.0	10018.0	9912.9	9909.2	9944.8
50°	10756.8	10788.7	10921.9	11028.8	11083.1	11077.5	10991.3	10863.7	10736.2	10738.1	10783.1
52.5°	11537.0	11576.4	11715.1	11898.9	12005.8	12082.7	12030.2	11910.2	11754.5	11758.3	11799.5
55°	12268.3	12334.0	12493.4	12742.8	12941.6	13157.2	13219.1	13215.4	13121.6	13147.9	13189.1
57.5°	12622.8	12720.3	12966.0	13359.8	13764.9	14203.7	14575.0	14852.5	14970.7	15148.8	15107.6
60°	11951.4	12107.1	12469.0	13048.5	13849.2	14764.4	15745.2	16703.5	17521.1	18138.1	17783.7
62.5°	9785.4	9988.0	10426.8	11169.4	12380.9	13845.5	15722.7	17988.1	20456.0	21945.0	20881.7
65°	6122.9	6333.0	6779.3	7574.4	8992.2	10813.1	13359.8	17114.2	21725.6	23970.3	21806.2
67.5°	2387.3	2501.7	2743.6	3251.8	4317.0	5937.3	8493.3	12754.1	18269.4	20236.6	17929.9
70°	1196.5	1207.7	1252.7	1346.5	1575.3	2046.0	3113.0	5912.9	10477.4	12654.7	10100.5
72.5°	864.5	866.4	888.9	930.2	1003.3	1108.3	1310.8	1809.7	3407.5	5207.8	3193.7
75°	662.0	669.5	682.6	705.1	744.5	797.0	870.1	1042.7	1292.1	1498.4	1260.2
77.5°	510.1	525.1	534.5	555.1	579.5	615.1	635.7	701.4	815.8	858.9	845.8
80°	388.2	401.3	421.9	438.8	455.7	472.6	465.1	495.1	555.1	590.7	572.0
82.5°	247.5	262.5	322.6	337.6	345.1	356.3	343.2	345.1	371.3	393.8	371.3
85°	159.4	168.8	204.4	223.2	225.0	232.5	226.9	213.8	213.8	195.0	219.4
87.5°	73.1	75.0	91.9	108.8	112.5	101.3	99.4	95.6	76.9	73.1	78.8
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°	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8
2.5°	4528.9	4532.6	4534.5	4540.2	4542.0	4542.0	4543.9	4547.7
5°	4564.5	4570.2	4572.0	4579.5	4581.4	4579.5	4583.3	4585.2
7.5°	4628.3	4637.7	4641.4	4648.9	4643.3	4650.8	4652.7	4652.7
10°	4722.1	4731.4	4733.3	4740.8	4737.1	4740.8	4740.8	4737.1
12.5°	4845.8	4847.7	4842.1	4847.7	4840.2	4844.0	4838.3	4834.6
15°	4982.7	4977.1	4964.0	4964.0	4952.7	4954.6	4952.7	4950.8
17.5°	5115.9	5104.6	5095.2	5091.5	5082.1	5080.2	5074.6	5074.6
20°	5262.1	5256.5	5250.9	5243.4	5234.0	5224.6	5222.8	5226.5
22.5°	5438.4	5436.6	5436.6	5432.8	5419.7	5410.3	5404.7	5404.7
25°	5674.7	5657.8	5657.8	5656.0	5650.3	5644.7	5633.5	5639.1
27.5°	5941.0	5931.6	5939.1	5937.3	5931.6	5931.6	5924.1	5924.1
30°	6269.2	6265.4	6276.7	6267.3	6248.6	6246.7	6239.2	6229.8
32.5°	6648.0	6644.3	6661.1	6649.9	6619.9	6603.0	6588.0	6580.5
35°	7070.0	7071.8	7092.5	7085.0	7051.2	7040.0	7013.7	7009.9
37.5°	7531.3	7561.3	7596.9	7604.4	7576.3	7568.8	7540.7	7525.7
40°	8073.3	8112.6	8167.0	8180.1	8150.1	8144.5	8105.1	8084.5
42.5°	8650.9	8718.4	8785.9	8797.1	8767.1	8737.1	8699.6	8684.6
45°	9296.0	9376.6	9464.7	9487.2	9442.2	9406.6	9357.8	9357.8
47.5°	10019.8	10121.1	10220.5	10282.4	10241.1	10203.6	10145.5	10108.0
50°	10875.0	11013.8	11143.2	11206.9	11141.3	11070.0	10968.7	10935.0
52.5°	11947.7	12097.7	12210.2	12176.5	12075.2	11975.8	11865.2	11820.1
55°	13316.6	13367.3	13367.3	13239.8	13037.2	12870.3	12695.9	12637.8
57.5°	15028.8	14833.8	14533.7	14153.0	13674.8	13258.5	12977.2	12844.1
60°	17041.0	16103.4	15043.8	14003.0	13147.9	12442.7	12024.6	11833.3
62.5°	18381.9	15929.0	13806.1	12135.2	10905.0	10055.5	9477.9	9252.8
65°	17179.8	13284.8	10441.8	8442.7	7101.8	6237.3	5665.3	5455.3
67.5°	12583.4	8324.5	5560.3	3985.1	2919.9	2329.1	2094.7	1997.2
70°	5648.5	2931.1	1796.6	1402.7	1209.6	1110.2	1067.1	1052.1
72.5°	1702.8	1232.1	1038.9	937.7	860.8	812.0	776.4	772.6
75°	1027.7	855.1	759.5	699.5	650.7	611.4	592.6	587.0
77.5°	718.2	628.2	583.2	540.1	502.6	472.6	455.7	442.6
80°	504.5	461.3	440.7	416.3	391.9	363.8	339.4	328.2
82.5°	337.6	328.2	328.2	313.2	292.5	266.3	217.5	206.3
85°	217.5	215.7	219.4	213.8	198.8	170.7	140.6	133.1
87.5°	101.3	103.1	114.4	112.5	108.8	90.0	71.3	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)