

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: P192966

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41079.3 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 511
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

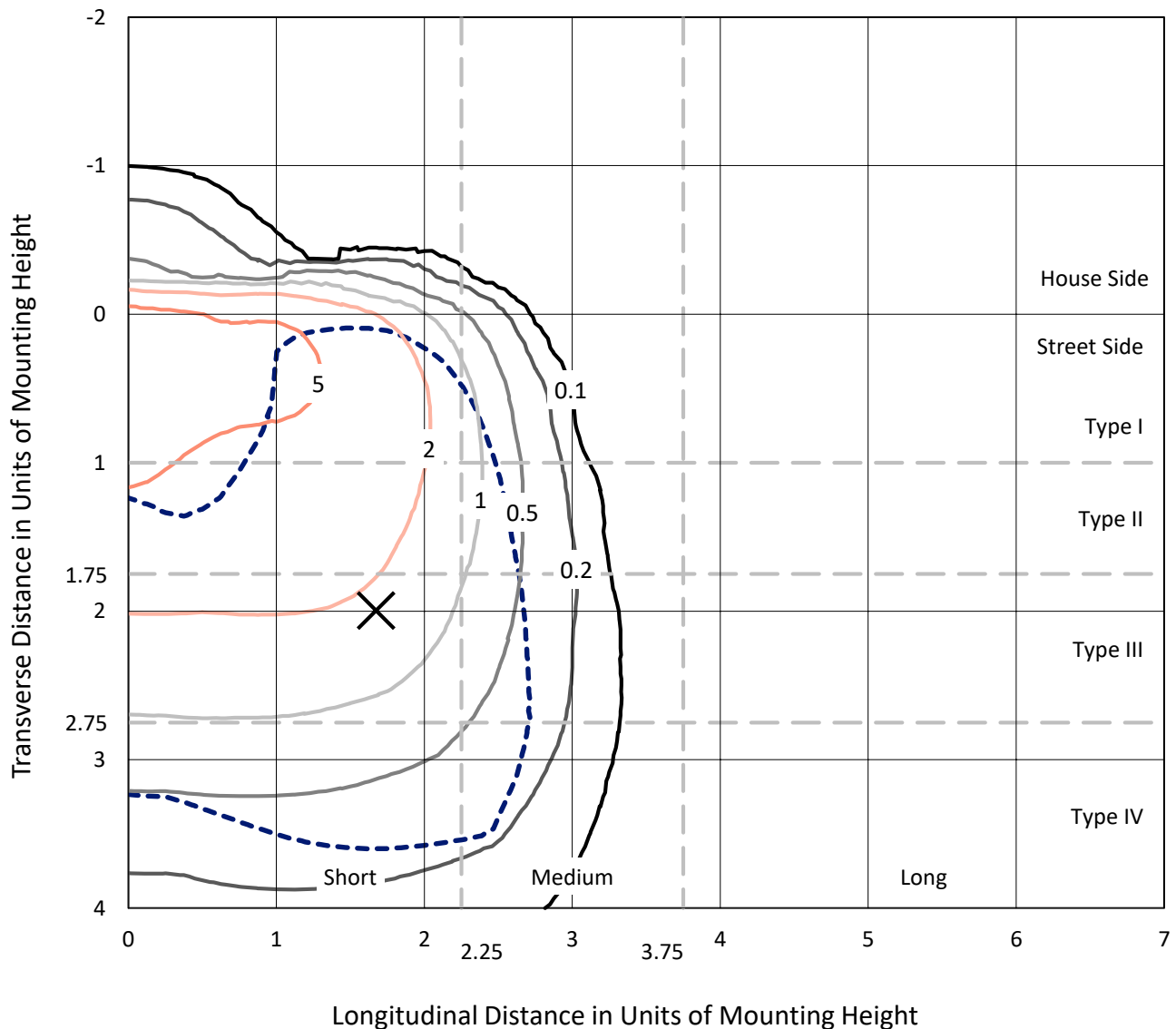


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

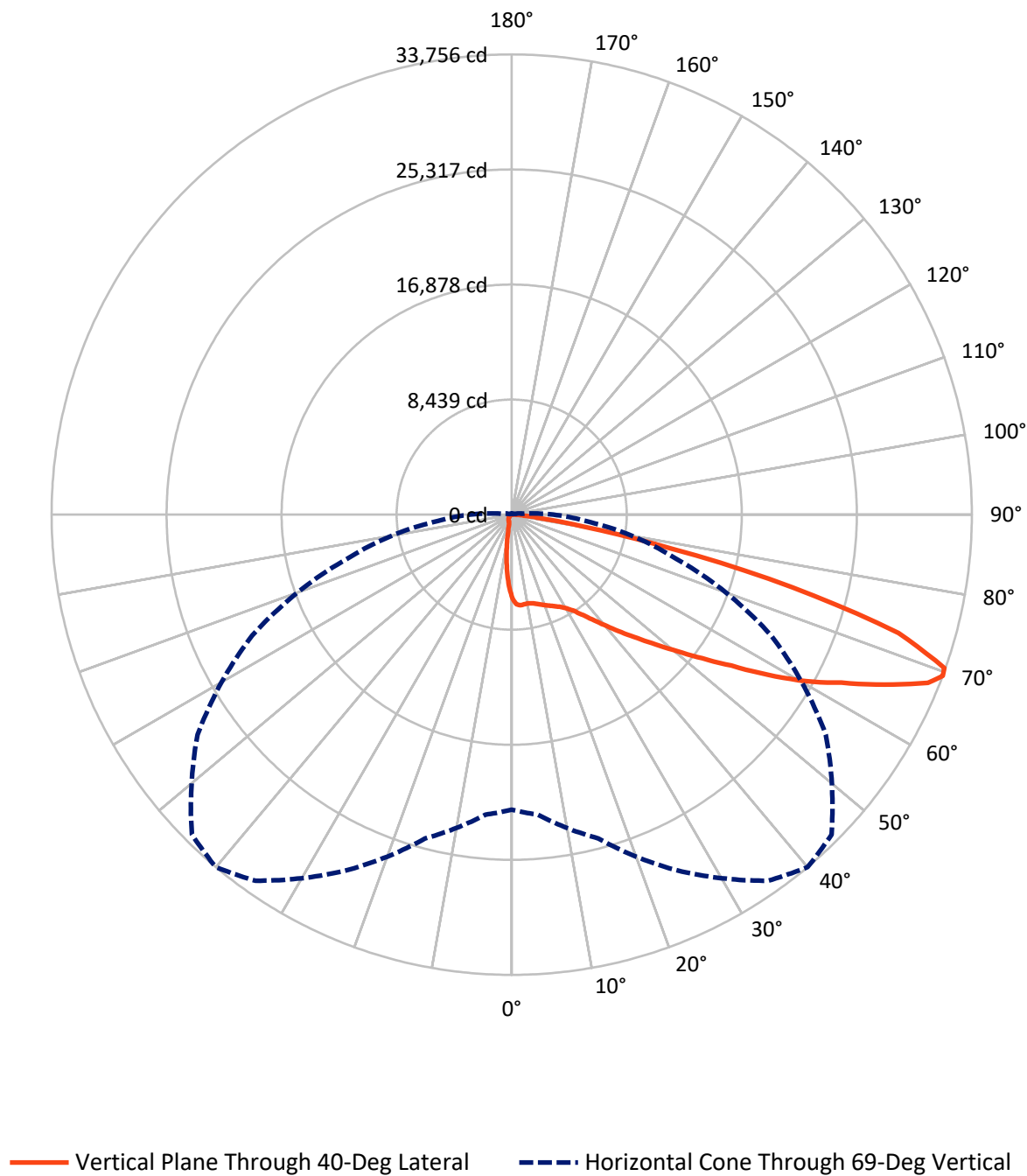


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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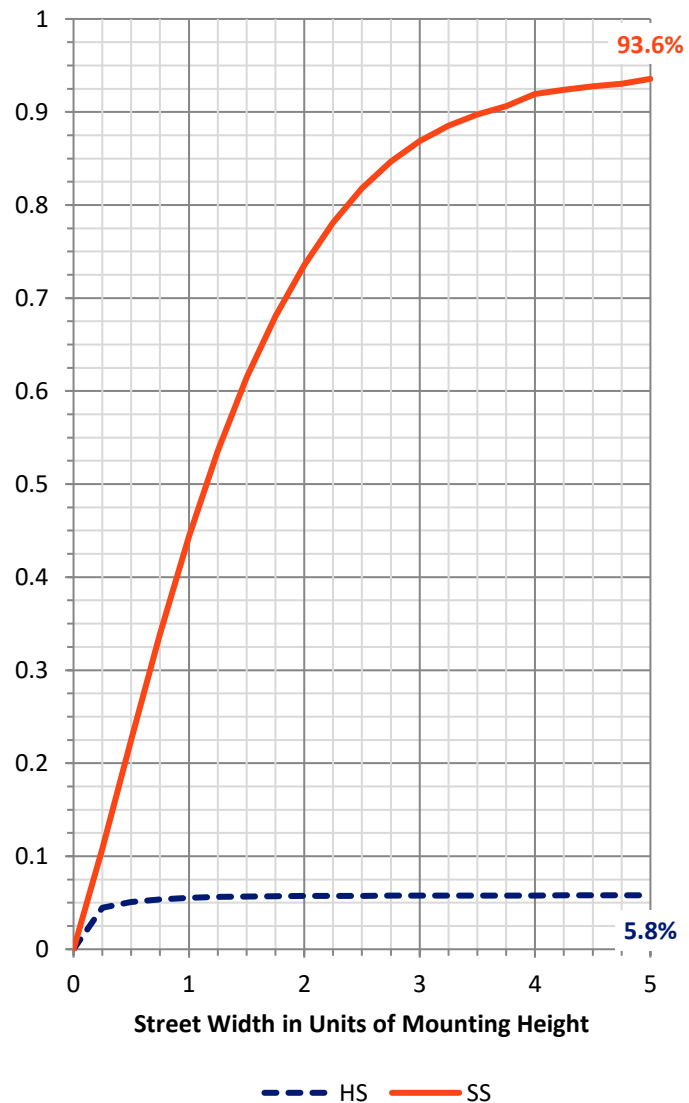
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2403.4	0.0	2403.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	38675.9	0.0	38675.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	41079.3	0.0	41079.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.6	1.2
10°-20°	1223.8	3.0
20°-30°	2061.2	5.0
30°-40°	3374.3	8.2
40°-50°	5842.5	14.2
50°-60°	9202.5	22.4
60°-70°	12018.1	29.3
70°-80°	6189.8	15.1
80°-90°	669.6	1.6
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°	41079.3	100.0
0°-180°	41079.3	100.0

Coefficient of Utilization



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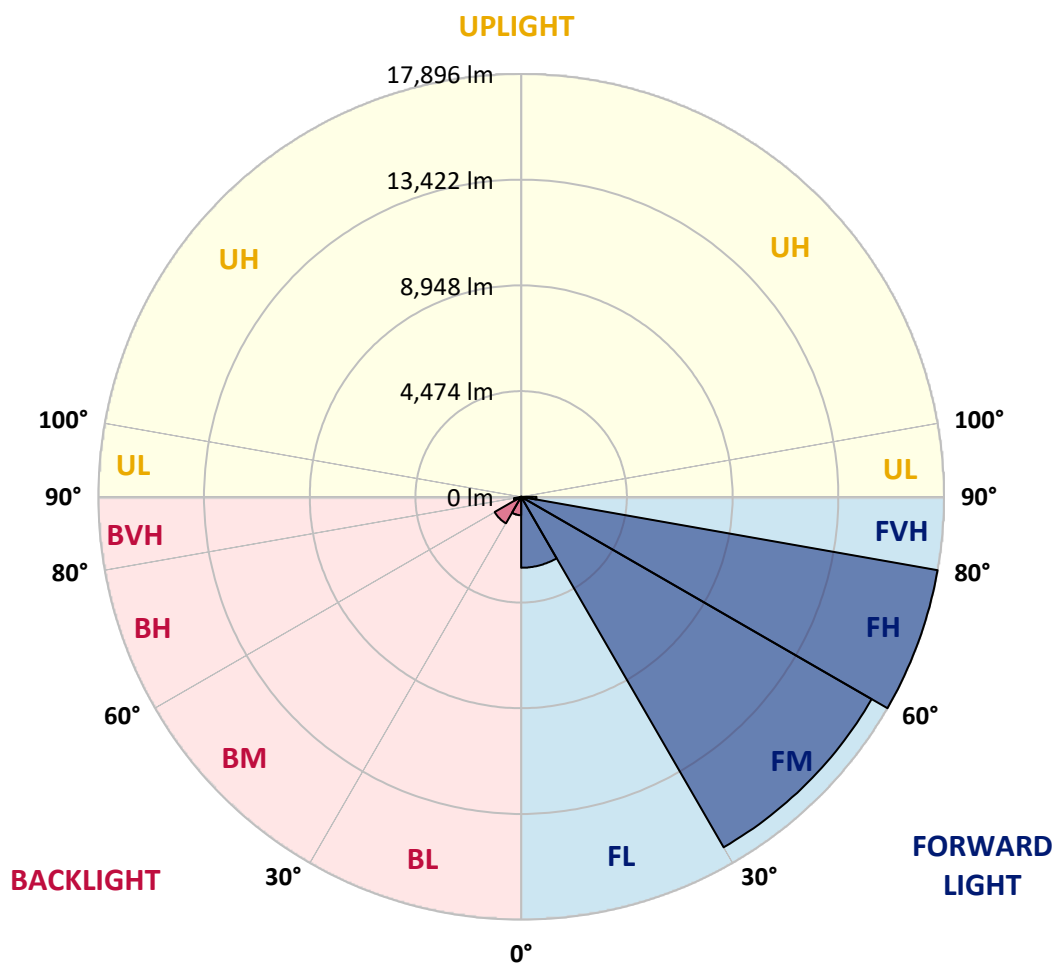
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3004.1	7.3			
FM	(30°-60°)	17127.5	41.7			
FH	(60°-80°)	17895.8	43.6			G5
FVH	(80°-90°)	648.5	1.6			G4/750
BL	(0°-30°)	778.5	1.9	B2/1000		
BM	(30°-60°)	1291.8	3.1	B2/2500		
BH	(60°-80°)	312.1	0.8	B1/500		G1/500
BVH	(80°-90°)	21.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4
2.5°	6739.0	6702.3	6680.3	6650.9	6614.2	6582.5	6570.3	6479.8	6394.2	6276.8	6142.3
5°	6863.6	6851.4	6812.4	6773.2	6729.2	6680.3	6653.4	6545.8	6423.6	6252.4	6017.7
7.5°	6875.9	6861.3	6812.4	6758.6	6697.4	6638.7	6592.2	6484.6	6372.2	6198.6	5912.4
10°	6856.3	6839.2	6802.6	6743.9	6668.1	6611.9	6565.4	6462.6	6367.3	6210.9	5892.9
12.5°	6834.3	6817.2	6800.1	6770.8	6704.7	6665.6	6626.5	6528.7	6443.1	6311.1	5963.8
15°	6856.3	6846.5	6866.2	6854.0	6817.2	6783.1	6743.9	6655.8	6577.6	6467.6	6093.5
17.5°	6949.2	6949.2	7010.4	7017.7	6983.6	6934.5	6878.3	6790.4	6724.4	6631.4	6247.5
20°	7166.9	7159.5	7237.8	7252.5	7169.4	7093.5	7010.4	6902.8	6851.4	6792.7	6399.1
22.5°	7541.0	7506.7	7553.2	7538.6	7374.8	7257.3	7154.7	7022.6	6995.8	6968.8	6567.8
25°	8027.6	8008.0	8039.9	7895.5	7607.0	7448.1	7325.9	7176.7	7176.7	7203.6	6758.6
27.5°	8734.3	8660.9	8553.4	8299.0	7866.2	7663.2	7531.2	7372.3	7413.9	7514.1	7010.4
30°	9458.0	9377.4	9130.4	8739.1	8181.7	7969.0	7814.9	7648.5	7746.4	7929.8	7347.8
32.5°	10172.0	10081.6	9731.9	9238.0	8634.0	8421.2	8272.1	8088.7	8252.6	8560.7	7841.7
35°	10864.0	10783.4	10379.8	9798.0	9235.5	9059.4	8922.5	8763.5	8973.9	9404.3	8538.6
37.5°	11641.6	11553.6	11062.1	10431.2	9966.6	9839.5	9739.3	9580.3	9947.1	10577.9	9509.4
40°	12597.7	12448.6	11785.9	11157.4	10812.8	10751.5	10683.1	10661.1	11230.9	12103.7	10802.9
42.5°	13693.1	13448.6	12543.8	11922.8	11741.9	11785.9	11768.8	11866.5	12837.3	14001.2	12377.7
45°	14788.6	14473.1	13387.5	12739.5	12764.0	12918.0	13013.4	13404.6	14849.8	16177.5	14072.1
47.5°	15717.7	15407.2	14196.8	13622.2	13915.7	14218.9	14478.1	15218.9	16918.4	18319.5	15390.1
50°	16512.5	16219.0	15055.2	14593.0	15253.1	15742.2	16162.8	17260.7	19143.6	19950.4	16314.4
52.5°	17162.9	16967.3	15945.2	15705.6	16781.4	17497.9	18114.1	19429.6	21114.4	21275.7	17033.3
55°	17796.1	17656.9	16901.2	17028.4	18576.1	19551.8	20331.8	21730.5	22811.2	22380.8	17722.8
57.5°	18524.9	18397.7	17991.8	18705.8	20935.8	22163.4	23014.3	23769.8	24305.3	23510.6	18373.2
60°	19268.2	19194.8	19204.6	20569.0	23645.2	24823.7	25293.2	25488.8	25772.4	24574.3	18409.9
62.5°	19977.3	20116.7	20591.0	22642.6	26239.4	27144.2	27381.4	27574.6	27242.0	24743.0	17008.8
65°	21177.9	21405.3	22537.5	25417.8	29093.0	30061.3	30305.8	29643.2	27474.4	22561.9	13835.0
67.5°	21764.8	22180.4	24200.2	28004.9	31861.0	32936.9	32846.4	29777.6	24655.0	17204.4	8878.5
69°	21642.5	22085.1	24584.1	28797.1	32780.4	33755.9	33181.4	28132.1	21004.3	12463.2	5450.4
70°	21158.4	21605.8	24386.0	28767.9	32897.8	33670.4	32560.4	26100.1	17759.5	9113.4	3408.6
72.5°	17669.1	18055.4	21649.8	26002.3	30305.8	29677.4	27239.5	18082.3	8653.6	2482.0	767.8
75°	10876.2	11091.5	15534.4	19588.5	22889.5	21275.7	18148.3	8995.9	2579.7	701.8	425.4
77.5°	5746.3	5844.1	8504.4	11546.3	14509.8	12006.0	9301.6	3508.9	1188.4	440.1	308.1
80°	3396.5	3469.7	4579.8	5279.2	6279.2	5245.0	3719.1	2154.3	850.9	276.3	273.9
82.5°	1943.9	1990.3	3320.6	2934.2	2474.5	2112.6	1851.1	2041.7	511.0	185.8	283.6
85°	714.0	723.8	1868.2	2232.5	1472.0	875.3	919.4	1692.1	136.9	117.4	222.6
87.5°	332.5	325.3	960.9	1366.9	860.8	555.0	716.4	371.7	53.7	75.8	61.0
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°	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4	6137.4
2.5°	6064.1	5973.6	5809.8	5641.0	5469.9	5337.9	5208.3	5105.5	5071.4	5007.8	5012.7
5°	5878.2	5712.0	5369.6	5022.4	4660.6	4362.2	4081.1	3853.7	3743.7	3631.1	3631.1
7.5°	5716.9	5474.8	4939.3	4374.4	3790.1	3298.5	2856.0	2523.5	2340.0	2193.4	2190.8
10°	5655.8	5328.1	4579.8	3770.5	2956.2	2286.2	1760.5	1423.1	1249.5	1137.1	1132.2
12.5°	5682.7	5276.7	4303.5	3213.0	2190.8	1469.5	1019.6	802.1	728.6	694.5	694.5
15°	5760.9	5262.0	4027.3	2667.7	1547.7	919.4	677.3	618.6	613.7	613.7	613.7
17.5°	5856.3	5267.0	3743.7	2137.1	1054.0	657.7	584.4	577.1	582.0	582.0	582.0
20°	5954.1	5269.5	3438.0	1645.7	743.3	572.2	550.1	547.7	552.7	552.7	555.0
22.5°	6073.8	5281.6	3132.4	1229.9	613.7	540.4	523.3	523.3	525.7	525.7	523.3
25°	6210.9	5306.0	2814.4	912.1	560.0	518.4	503.6	501.3	503.6	501.3	498.8
27.5°	6382.0	5340.4	2459.9	714.0	535.5	496.4	484.1	484.1	481.8	479.2	476.8
30°	6597.2	5379.5	2061.2	606.4	511.0	476.8	464.6	462.1	459.7	454.8	454.8
32.5°	6924.9	5465.0	1667.7	550.1	484.1	449.9	440.1	440.1	435.3	430.4	427.9
35°	7428.5	5633.7	1315.5	515.9	454.8	420.5	408.3	408.3	403.5	401.0	398.6
37.5°	8125.4	5890.5	1022.1	484.1	425.4	388.8	376.5	374.1	369.2	364.4	361.8
40°	9052.1	6208.3	804.4	454.8	396.2	356.9	347.2	342.3	332.5	325.3	325.3
42.5°	10216.1	6570.3	652.9	423.1	361.8	327.7	320.3	313.0	295.9	288.6	286.0
45°	11433.8	6895.5	552.7	386.3	327.7	298.3	293.5	281.3	259.2	251.9	251.9
47.5°	12311.6	6971.3	486.6	352.2	295.9	266.5	264.1	242.1	222.6	217.7	215.1
50°	12859.3	6822.1	432.7	317.8	266.5	237.2	229.9	203.0	190.7	185.8	183.3
52.5°	13228.6	6555.5	388.8	288.6	239.6	210.4	193.2	173.6	163.8	159.0	159.0
55°	13524.4	6179.0	344.8	261.6	217.7	188.3	163.8	149.1	139.5	134.5	134.5
57.5°	13607.5	5668.0	300.8	239.6	195.6	166.3	139.5	129.6	117.4	114.9	114.9
60°	13003.6	4746.1	266.5	212.7	176.0	144.2	122.3	110.1	97.8	95.4	92.9
62.5°	11411.8	3672.6	234.7	188.3	154.0	124.7	105.1	90.4	80.8	80.8	80.8
65°	8704.9	2462.2	205.4	163.8	134.5	105.1	90.4	73.3	68.5	68.5	70.9
67.5°	5210.7	1339.9	176.0	139.5	114.9	88.1	75.8	63.6	61.0	63.6	63.6
69°	3054.1	787.3	159.0	124.7	100.3	78.2	66.0	56.3	61.0	63.6	63.6
70°	1885.3	530.6	146.7	112.4	90.4	70.9	61.0	53.7	58.7	61.0	61.0
72.5°	525.7	273.9	117.4	88.1	73.3	58.7	48.9	48.9	56.3	58.7	58.7
75°	342.3	203.0	90.4	66.0	56.3	46.4	41.5	46.4	53.7	56.3	56.3
77.5°	283.6	166.3	73.3	53.7	46.4	44.0	39.2	41.5	48.9	51.4	51.4
80°	259.2	117.4	58.7	48.9	41.5	39.2	36.7	34.2	44.0	46.4	46.4
82.5°	246.9	92.9	51.4	44.0	39.2	34.2	31.8	34.2	39.2	41.5	44.0
85°	154.0	61.0	46.4	41.5	34.2	31.8	31.8	31.8	36.7	39.2	39.2
87.5°	56.3	48.9	41.5	34.2	29.4	29.4	29.4	29.4	31.8	36.7	36.7
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)