

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: P194538

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194538
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-10-LED-E1-SL4-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA 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: 31505 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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

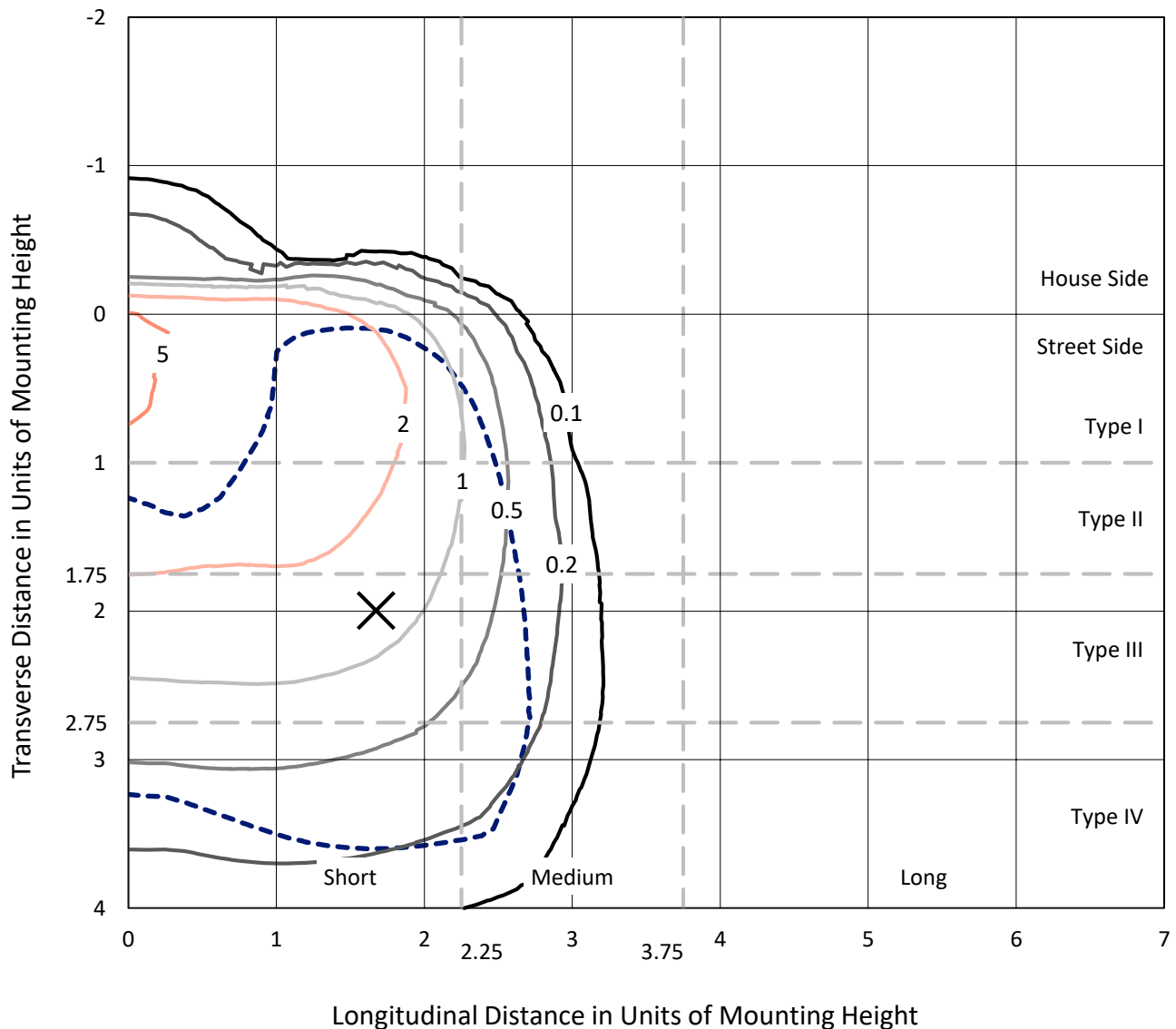


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

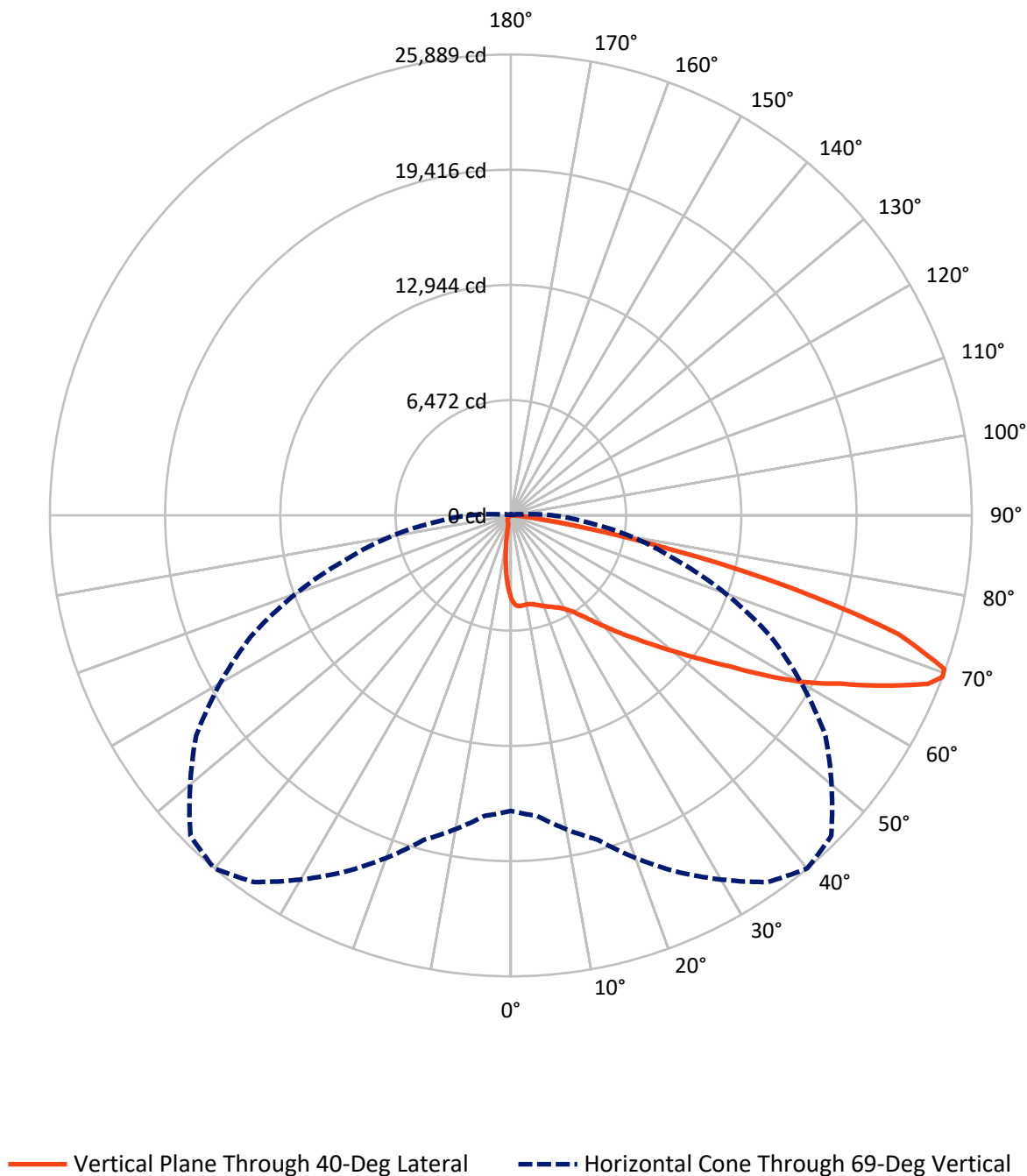


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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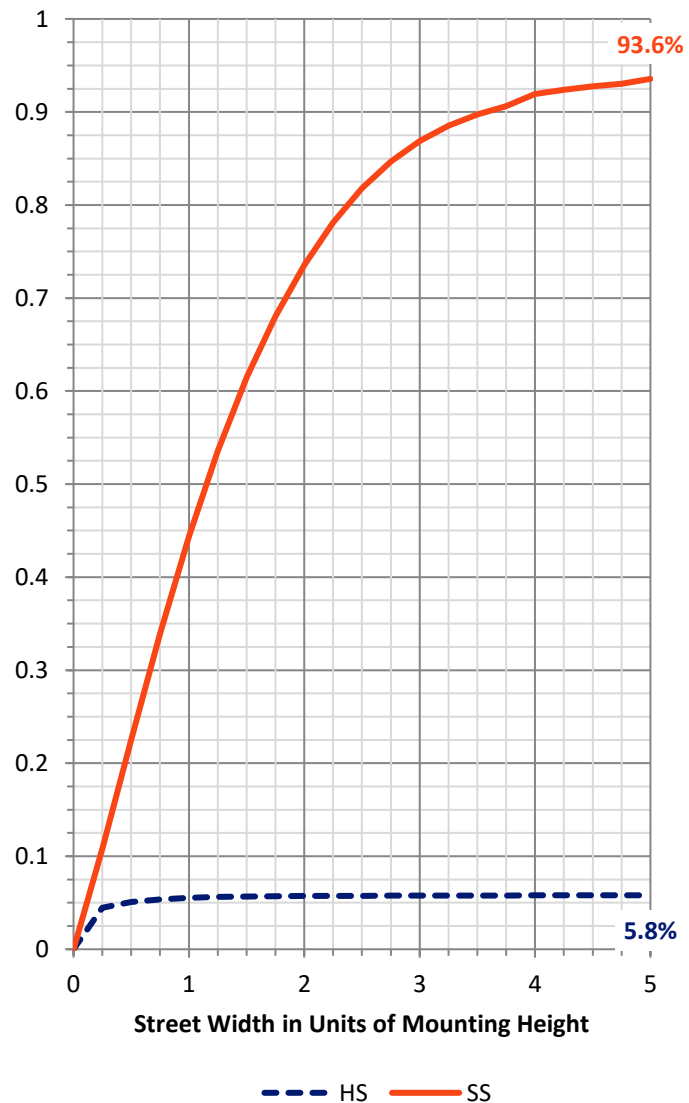
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1843.2	0.0	1843.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	29661.8	0.0	29661.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	31505.0	0.0	31505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	1.2
10°-20°	938.5	3.0
20°-30°	1580.8	5.0
30°-40°	2587.8	8.2
40°-50°	4480.8	14.2
50°-60°	7057.7	22.4
60°-70°	9217.0	29.3
70°-80°	4747.2	15.1
80°-90°	513.5	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°	31505.0	100.0
0°-180°	31505.0	100.0

Coefficient of Utilization



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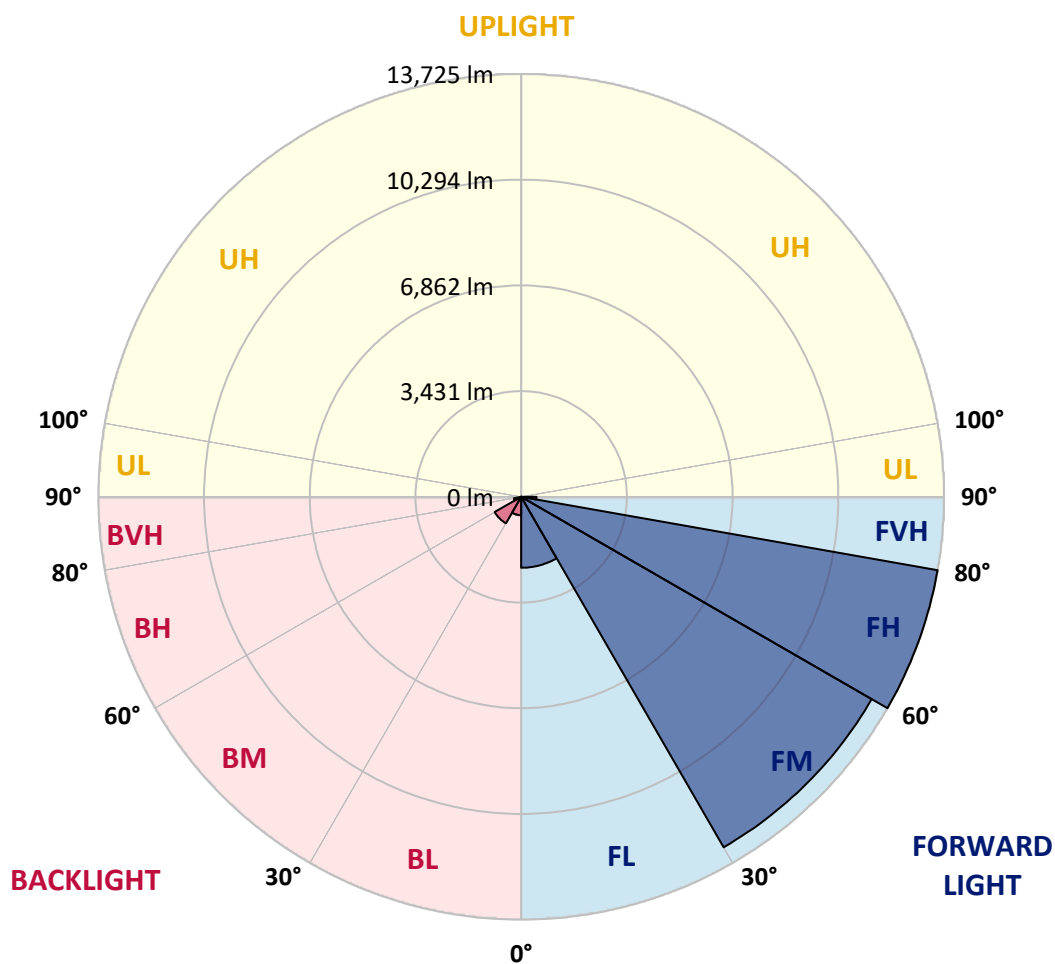
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2303.9	7.3			
FM	(30°-60°)	13135.6	41.7			
FH	(60°-80°)	13724.9	43.6			G5
FVH	(80°-90°)	497.4	1.6			G3/500
BL	(0°-30°)	597.1	1.9	B2/1000		
BM	(30°-60°)	990.7	3.1	B1/1000		
BH	(60°-80°)	239.3	0.8	B1/500		G1/500
BVH	(80°-90°)	16.1	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°	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0
2.5°	5168.3	5140.2	5123.3	5100.8	5072.7	5048.3	5038.9	4969.6	4903.9	4813.9	4710.8
5°	5264.0	5254.6	5224.6	5194.6	5160.8	5123.3	5102.7	5020.2	4926.4	4795.1	4615.1
7.5°	5273.4	5262.1	5224.6	5183.3	5136.5	5091.4	5055.8	4973.3	4887.0	4753.9	4534.5
10°	5258.3	5245.2	5217.1	5172.1	5113.9	5070.8	5035.2	4956.4	4883.3	4763.3	4519.5
12.5°	5241.5	5228.3	5215.2	5192.7	5142.1	5112.1	5082.1	5007.1	4941.4	4840.2	4573.9
15°	5258.3	5250.8	5265.8	5256.5	5228.3	5202.1	5172.1	5104.6	5044.6	4960.2	4673.3
17.5°	5329.6	5329.6	5376.5	5382.1	5355.9	5318.4	5275.2	5207.7	5157.1	5085.8	4791.4
20°	5496.5	5490.9	5550.9	5562.1	5498.4	5440.3	5376.5	5294.0	5254.6	5209.6	4907.7
22.5°	5783.4	5757.2	5792.8	5781.6	5655.9	5565.9	5487.1	5385.9	5365.2	5344.6	5037.1
25°	6156.6	6141.6	6166.0	6055.4	5834.1	5712.2	5618.4	5504.0	5504.0	5524.6	5183.3
27.5°	6698.6	6642.3	6559.8	6364.8	6032.8	5877.2	5775.9	5654.0	5685.9	5762.8	5376.5
30°	7253.7	7191.8	7002.4	6702.3	6274.8	6111.6	5993.5	5865.9	5941.0	6081.6	5635.3
32.5°	7801.3	7731.9	7463.7	7084.9	6621.7	6458.5	6344.1	6203.5	6329.1	6565.4	6014.1
35°	8332.0	8270.1	7960.7	7514.3	7083.0	6948.0	6843.0	6721.1	6882.4	7212.4	6548.6
37.5°	8928.3	8860.8	8483.9	8000.0	7643.7	7546.2	7469.3	7347.4	7628.7	8112.6	7293.1
40°	9661.6	9547.2	9039.0	8557.0	8292.6	8245.7	8193.2	8176.3	8613.3	9282.7	8285.1
42.5°	10501.7	10314.2	9620.3	9144.0	9005.2	9039.0	9025.8	9100.8	9845.3	10738.0	9492.8
45°	11341.8	11099.9	10267.3	9770.3	9789.1	9907.2	9980.4	10280.4	11388.7	12407.0	10792.4
47.5°	12054.4	11816.3	10888.0	10447.3	10672.3	10904.9	11103.7	11671.9	12975.2	14049.8	11803.2
50°	12663.9	12438.9	11546.2	11191.8	11698.1	12073.2	12395.7	13237.8	14681.7	15300.6	12512.0
52.5°	13162.7	13012.7	12228.8	12045.1	12870.2	13419.7	13892.2	14901.2	16193.2	16317.0	13063.4
55°	13648.5	13541.6	12962.1	13059.6	14246.7	14994.9	15593.1	16665.8	17494.7	17164.6	13592.2
57.5°	14207.3	14109.8	13798.5	14346.1	16056.3	16997.7	17650.3	18229.8	18640.5	18031.0	14091.0
60°	14777.4	14721.1	14728.6	15775.0	18134.2	19038.1	19398.1	19548.2	19765.7	18846.8	14119.2
62.5°	15321.2	15428.1	15791.9	17365.3	20123.9	20817.7	20999.6	21147.8	20892.7	18976.2	13044.6
65°	16242.0	16416.4	17284.7	19493.8	22312.3	23055.0	23242.5	22734.3	21070.9	17303.4	10610.5
67.5°	16692.1	17010.9	18559.9	21477.8	24435.2	25260.3	25190.9	22837.4	18908.7	13194.6	6809.2
69°	16598.3	16937.7	18854.3	22085.4	25140.3	25888.5	25447.9	21575.4	16108.8	9558.4	4180.0
70°	16227.0	16570.2	18702.4	22062.9	25230.3	25822.9	24971.5	20017.0	13620.3	6989.3	2614.2
72.5°	13550.9	13847.2	16603.9	19942.0	23242.5	22760.5	20890.9	13867.9	6636.7	1903.4	588.8
75°	8341.3	8506.4	11913.8	15023.0	17554.7	16317.0	13918.5	6899.2	1978.4	538.2	326.3
77.5°	4407.0	4482.0	6522.3	8855.2	11128.0	9207.7	7133.7	2691.1	911.4	337.6	236.3
80°	2604.8	2661.1	3512.4	4048.8	4815.8	4022.5	2852.3	1652.1	652.6	211.9	210.0
82.5°	1490.9	1526.5	2546.7	2250.4	1897.8	1620.3	1419.6	1565.9	391.9	142.5	217.5
85°	547.6	555.1	1432.7	1712.2	1128.9	671.4	705.1	1297.7	105.0	90.0	170.7
87.5°	255.0	249.4	737.0	1048.3	660.1	425.7	549.5	285.0	41.3	58.1	46.9
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°	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0	4707.0
2.5°	4650.7	4581.4	4455.7	4326.3	4195.1	4093.8	3994.4	3915.6	3889.4	3840.6	3844.4
5°	4508.2	4380.7	4118.2	3851.9	3574.3	3345.5	3129.9	2955.5	2871.1	2784.8	2784.8
7.5°	4384.5	4198.8	3788.1	3354.9	2906.7	2529.8	2190.4	1935.3	1794.7	1682.1	1680.3
10°	4337.6	4086.3	3512.4	2891.7	2267.2	1753.4	1350.2	1091.4	958.3	872.0	868.3
12.5°	4358.2	4046.9	3300.5	2464.1	1680.3	1127.1	782.0	615.1	558.8	532.6	532.6
15°	4418.2	4035.7	3088.6	2046.0	1187.1	705.1	519.5	474.5	470.7	470.7	470.7
17.5°	4491.3	4039.4	2871.1	1639.0	808.3	504.5	448.2	442.6	446.3	446.3	446.3
20°	4566.4	4041.3	2636.7	1262.1	570.1	438.8	421.9	420.1	423.8	423.8	425.7
22.5°	4658.3	4050.7	2402.3	943.3	470.7	414.4	401.3	401.3	403.2	403.2	401.3
25°	4763.3	4069.4	2158.5	699.5	429.4	397.6	386.3	384.4	386.3	384.4	382.6
27.5°	4894.5	4095.7	1886.6	547.6	410.7	380.7	371.3	371.3	369.4	367.6	365.7
30°	5059.6	4125.7	1580.9	465.1	391.9	365.7	356.3	354.4	352.6	348.8	348.8
32.5°	5310.9	4191.3	1279.0	421.9	371.3	345.1	337.6	337.6	333.8	330.1	328.2
35°	5697.2	4320.7	1008.9	395.7	348.8	322.6	313.2	313.2	309.4	307.5	305.7
37.5°	6231.6	4517.6	783.9	371.3	326.3	298.2	288.8	286.9	283.2	279.4	277.5
40°	6942.4	4761.4	617.0	348.8	303.8	273.8	266.3	262.5	255.0	249.4	249.4
42.5°	7835.0	5038.9	500.7	324.4	277.5	251.3	245.7	240.0	226.9	221.3	219.4
45°	8768.9	5288.4	423.8	296.3	251.3	228.8	225.0	215.7	198.8	193.2	193.2
47.5°	9442.1	5346.5	373.2	270.0	226.9	204.4	202.5	185.7	170.7	166.9	165.0
50°	9862.2	5232.1	331.9	243.8	204.4	181.9	176.3	155.7	146.3	142.5	140.6
52.5°	10145.4	5027.7	298.2	221.3	183.8	161.3	148.1	133.1	125.6	121.9	121.9
55°	10372.3	4738.9	264.4	200.7	166.9	144.4	125.6	114.4	106.9	103.1	103.1
57.5°	10436.1	4347.0	230.7	183.8	150.0	127.5	106.9	99.4	90.0	88.1	88.1
60°	9972.9	3640.0	204.4	163.2	135.0	110.6	93.8	84.4	75.0	73.1	71.3
62.5°	8752.0	2816.7	180.0	144.4	118.1	95.6	80.6	69.4	61.9	61.9	61.9
65°	6676.1	1888.4	157.5	125.6	103.1	80.6	69.4	56.3	52.5	52.5	54.4
67.5°	3996.3	1027.7	135.0	106.9	88.1	67.5	58.1	48.8	46.9	48.8	48.8
69°	2342.3	603.8	121.9	95.6	76.9	60.0	50.6	43.1	46.9	48.8	48.8
70°	1445.9	406.9	112.5	86.3	69.4	54.4	46.9	41.3	45.0	46.9	46.9
72.5°	403.2	210.0	90.0	67.5	56.3	45.0	37.5	37.5	43.1	45.0	45.0
75°	262.5	155.7	69.4	50.6	43.1	35.6	31.9	35.6	41.3	43.1	43.1
77.5°	217.5	127.5	56.3	41.3	35.6	33.8	30.0	31.9	37.5	39.4	39.4
80°	198.8	90.0	45.0	37.5	31.9	30.0	28.1	26.3	33.8	35.6	35.6
82.5°	189.4	71.3	39.4	33.8	30.0	26.3	24.4	26.3	30.0	31.9	33.8
85°	118.1	46.9	35.6	31.9	26.3	24.4	24.4	24.4	28.1	30.0	30.0
87.5°	43.1	37.5	31.9	26.3	22.5	22.5	22.5	22.5	24.4	28.1	28.1
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)