

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: P192856

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25969.8 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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

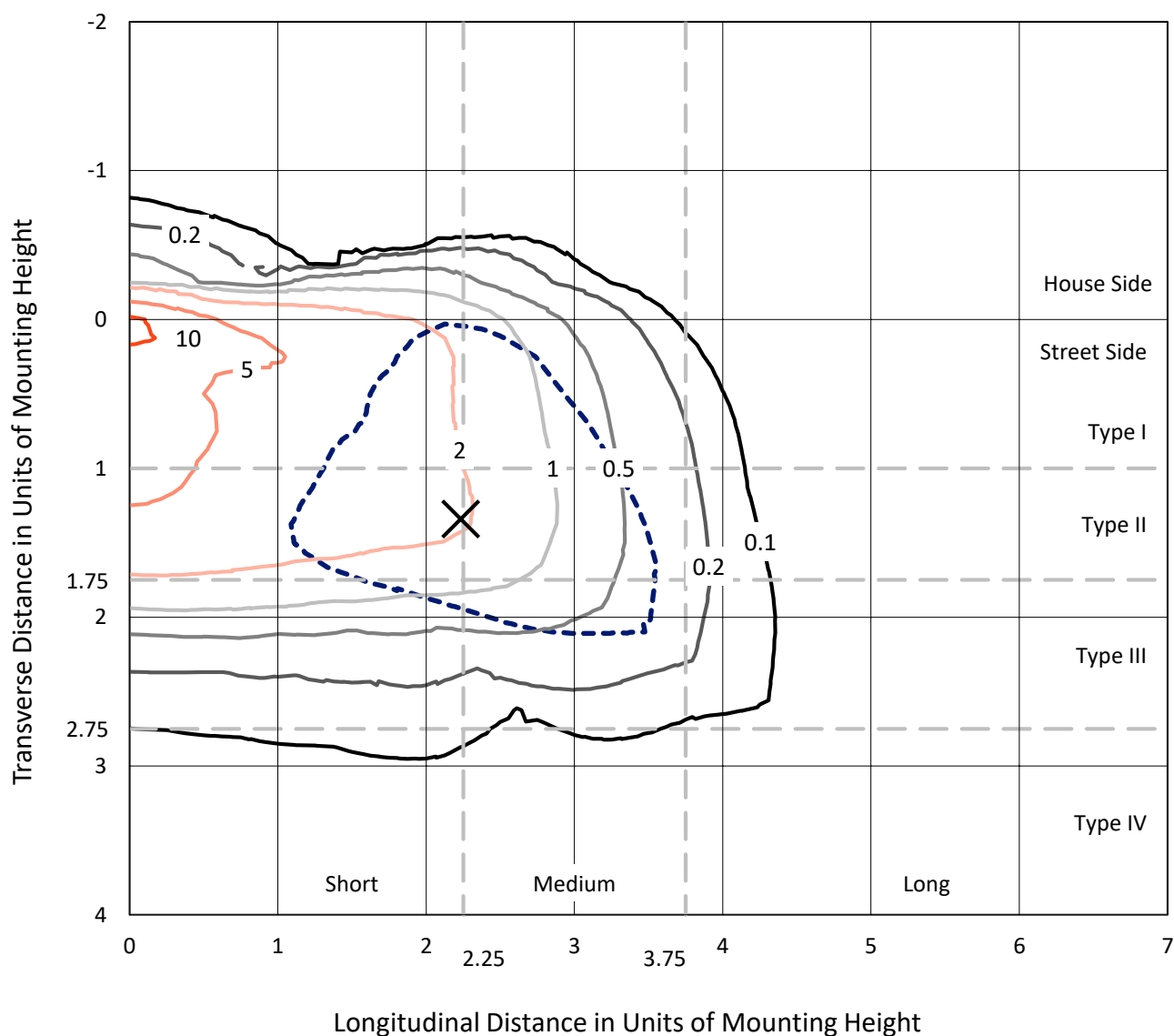


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

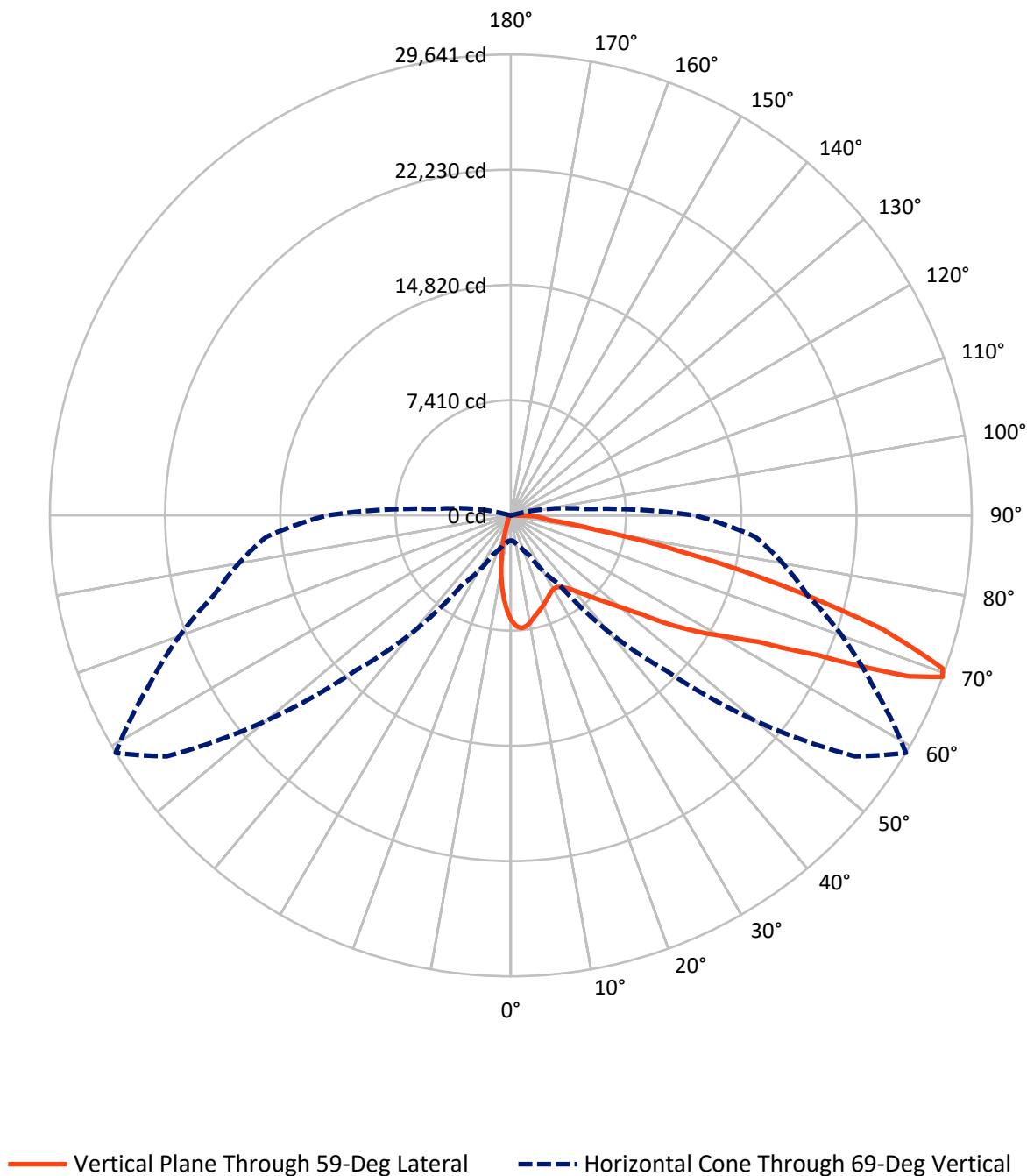


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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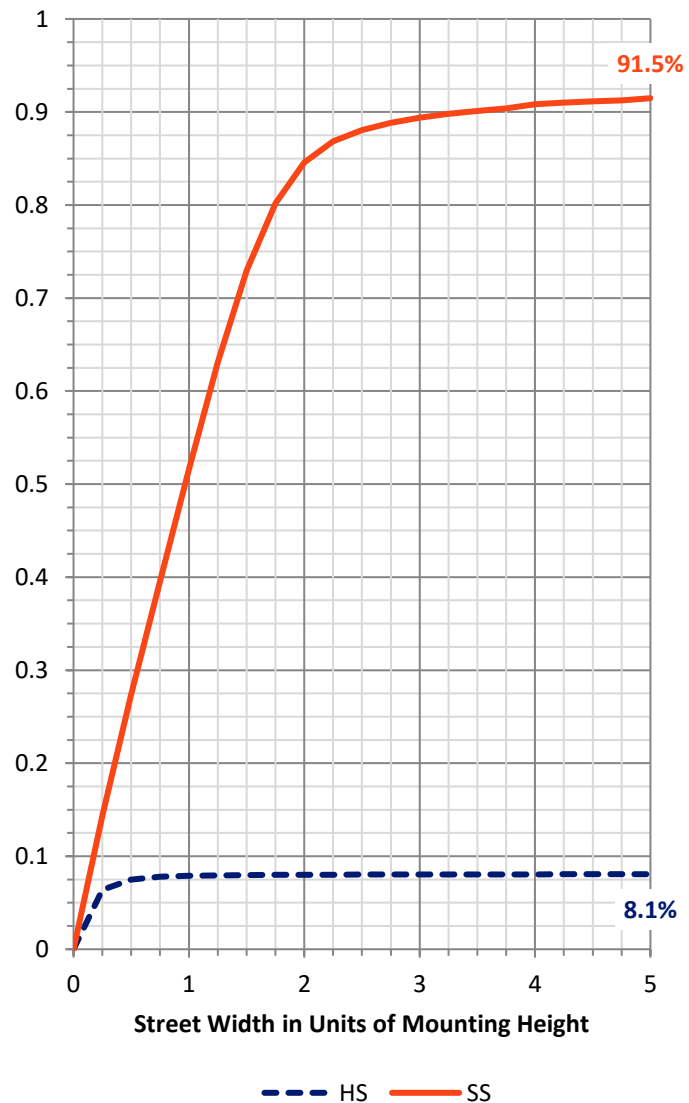
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2114.9	0.0	2114.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	23854.9	0.0	23854.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	25969.8	0.0	25969.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.7	2.1
10°-20°	1133.7	4.4
20°-30°	1525.6	5.9
30°-40°	2215.0	8.5
40°-50°	3688.2	14.2
50°-60°	5753.5	22.2
60°-70°	7119.5	27.4
70°-80°	3608.1	13.9
80°-90°	377.5	1.5
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°	25969.8	100.0
0°-180°	25969.8	100.0

Coefficient of Utilization



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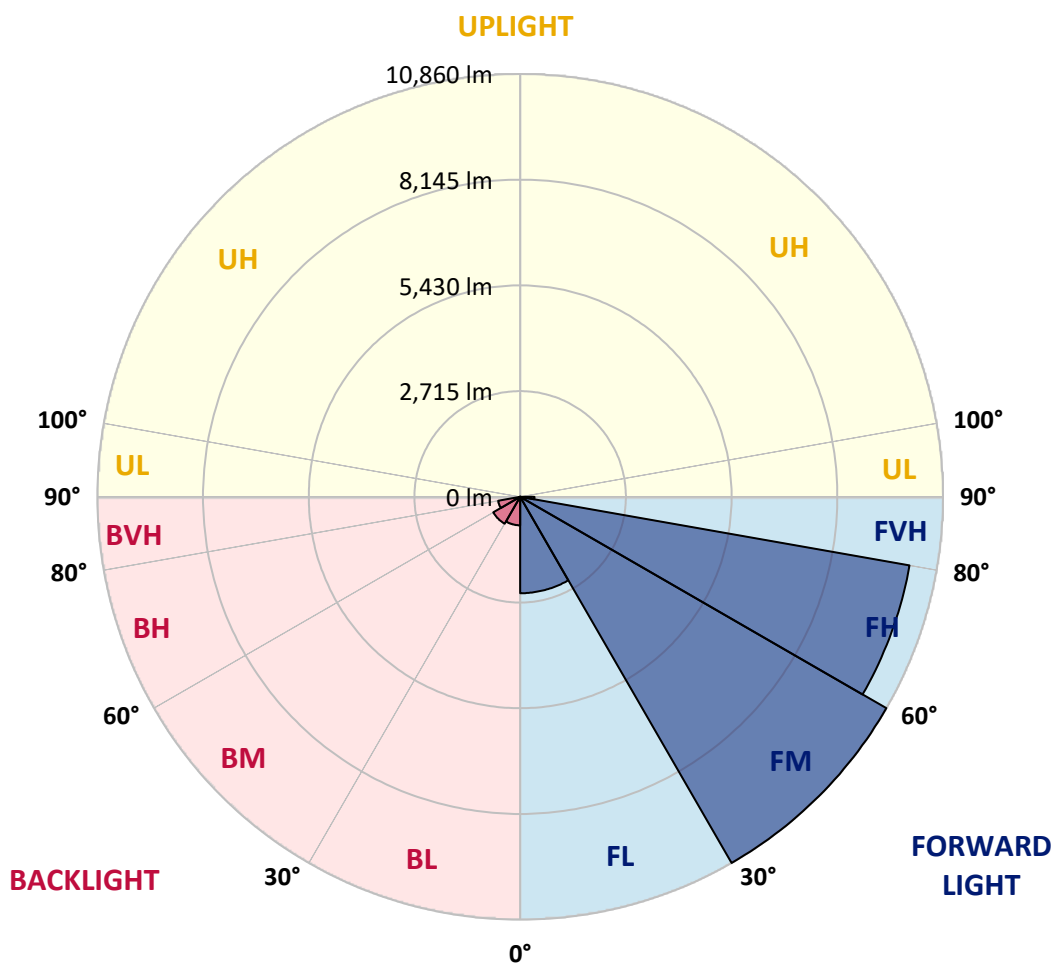
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2475.9	9.5			
FM	(30°-60°)	10859.8	41.8			
FH	(60°-80°)	10153.2	39.1			G4/12000
FVH	(80°-90°)	365.9	1.4			G3/500
BL	(0°-30°)	732.0	2.8	B2/1000		
BM	(30°-60°)	796.9	3.1	B1/1000		
BH	(60°-80°)	574.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6
2.5°	7408.7	7405.7	7373.5	7358.7	7332.3	7276.5	7190.0	7144.4	7070.9	6943.2	6771.4
5°	7341.1	7376.4	7395.4	7397.0	7416.0	7395.4	7317.6	7279.4	7178.2	6972.5	6664.2
7.5°	6882.9	6896.1	6950.5	6997.5	7088.5	7175.2	7203.1	7187.0	7126.8	6906.4	6496.8
10°	6392.4	6405.7	6470.4	6531.9	6655.3	6789.0	6930.0	6959.3	6984.3	6812.5	6335.2
12.5°	5969.5	5982.7	6048.8	6129.6	6273.5	6438.0	6656.8	6705.2	6815.4	6722.8	6205.9
15°	5605.3	5611.2	5675.8	5775.7	5947.5	6159.0	6407.2	6485.0	6653.9	6659.7	6092.9
17.5°	5295.5	5310.1	5349.8	5445.3	5633.2	5894.6	6184.0	6295.5	6493.9	6606.9	5982.7
20°	5106.0	5120.8	5119.3	5172.2	5341.0	5620.0	5960.7	6094.4	6335.2	6552.5	5884.3
22.5°	5069.3	5069.3	5031.2	5023.8	5123.7	5357.2	5728.7	5891.7	6192.7	6529.0	5815.4
25°	5199.9	5194.1	5098.7	5020.9	5025.3	5164.8	5504.1	5697.9	6072.3	6545.1	5778.6
27.5°	5476.1	5468.8	5348.3	5199.9	5081.1	5079.6	5333.7	5542.1	5976.9	6621.5	5793.3
30°	5857.9	5854.9	5724.3	5537.8	5321.9	5123.7	5274.9	5464.4	5915.2	6759.6	5827.2
32.5°	6275.0	6270.6	6172.2	5975.4	5702.2	5321.9	5336.6	5495.2	5932.8	6943.2	5909.3
35°	6717.0	6709.6	6667.1	6495.3	6194.2	5687.6	5539.2	5662.6	6044.4	7217.7	6070.9
37.5°	7195.7	7203.1	7233.9	7069.4	6753.8	6200.1	5878.4	5962.2	6269.1	7590.8	6333.8
40°	7902.0	7900.6	7910.9	7695.0	7391.1	6827.2	6352.8	6379.2	6645.0	8085.6	6733.1
42.5°	9184.2	9094.5	8822.9	8382.3	8076.9	7543.8	6950.5	6922.5	7104.7	8698.0	7292.6
45°	10906.7	10715.8	10010.9	9166.6	8775.8	8351.4	7686.2	7596.7	7712.6	9433.8	7982.9
47.5°	12388.5	12190.2	11193.1	9983.0	9517.5	9118.0	8548.2	8386.7	8424.9	10257.6	8858.0
50°	12892.1	12795.3	11924.3	10693.8	10235.5	10082.9	9548.2	9351.5	9297.2	11210.6	9872.8
52.5°	12717.3	12710.0	12130.0	11154.9	10893.4	11081.4	10806.9	10579.2	10379.5	12215.1	10905.1
55°	12436.9	12473.6	12213.6	11558.7	11549.9	11993.4	12527.8	12338.5	11759.9	13306.2	11795.1
57.5°	11663.0	11820.1	12166.7	12322.4	12683.6	13137.4	13961.1	14072.8	13388.5	14141.9	12533.7
60°	9463.2	9808.2	10941.9	12432.5	14144.8	15275.5	15691.2	15786.6	14724.9	14836.5	13530.8
62.5°	6717.0	7069.4	8507.2	11028.5	14166.8	18084.8	18268.3	17893.9	16196.3	15865.9	15250.5
65°	3565.5	3837.1	5012.0	7960.8	12282.7	18736.9	22775.2	21659.1	18792.6	17890.9	17472.4
67.5°	1823.9	1906.1	2373.1	3895.9	8444.0	16642.7	26815.2	27600.7	23267.2	19899.9	17365.2
69°	1613.9	1662.4	1972.2	2816.6	5407.1	14096.3	27011.9	29640.6	25609.5	19732.4	15780.7
70°	1562.5	1605.1	1887.0	2549.3	4226.3	11821.6	26258.6	29461.4	26208.7	19095.1	14597.0
72.5°	1326.1	1362.8	1680.0	2252.7	3434.9	5868.2	21330.2	24964.7	23518.3	15906.9	10566.0
75°	886.9	1007.4	1612.4	2111.8	3195.5	3333.5	14062.5	18040.8	16758.7	10729.0	5504.1
77.5°	212.9	229.1	455.3	1680.0	2922.3	2934.0	7232.4	11215.0	9147.4	3824.1	1301.1
80°	114.5	110.2	127.8	333.3	2721.2	2753.5	3255.7	5443.9	3266.0	634.4	428.9
82.5°	80.8	76.4	82.3	139.6	856.1	2508.3	2355.5	2464.2	1353.9	243.7	192.4
85°	29.4	27.9	45.6	126.3	268.8	1442.1	2420.1	2032.4	1097.0	111.6	141.0
87.5°	10.3	8.8	17.6	69.1	82.3	613.8	1493.5	1536.0	431.8	67.5	66.1
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°	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6	6759.6
2.5°	6699.3	6608.3	6441.0	6269.1	6110.6	5919.5	5824.2	5730.2	5690.6	5675.8	5606.7
5°	6505.6	6351.3	5995.9	5639.1	5310.1	4960.7	4730.1	4545.0	4436.4	4383.5	4299.8
7.5°	6257.4	6004.8	5465.8	4915.1	4402.6	3897.5	3522.9	3235.1	3036.9	2941.5	2854.8
10°	6016.5	5680.3	4913.6	4163.3	3467.2	2797.5	2280.6	1906.1	1666.7	1556.6	1486.2
12.5°	5800.7	5364.5	4380.6	3430.4	2556.6	1772.5	1246.7	948.7	800.4	749.0	724.0
15°	5608.3	5073.8	3876.8	2734.4	1731.4	1013.3	681.3	580.0	556.5	556.5	553.6
17.5°	5426.2	4788.9	3390.9	2080.9	1086.7	619.7	518.4	505.3	505.3	511.0	511.0
20°	5251.4	4517.3	2920.8	1493.5	684.3	492.0	468.5	465.6	468.5	475.9	475.9
22.5°	5101.7	4270.4	2481.9	1025.1	508.0	443.5	431.8	427.3	428.9	433.2	436.2
25°	4990.0	4061.9	2067.6	694.6	437.6	403.8	390.6	383.3	377.4	377.4	380.3
27.5°	4919.5	3885.7	1666.7	505.3	393.6	367.1	346.6	334.8	321.7	314.2	317.2
30°	4868.1	3718.3	1290.8	412.7	352.5	326.0	299.6	280.5	261.3	252.6	255.5
32.5°	4849.0	3583.1	964.9	364.2	315.8	286.4	254.0	229.1	208.5	201.1	202.6
35°	4900.5	3476.0	706.4	329.0	286.4	249.6	212.9	185.0	169.0	164.4	166.0
37.5°	5035.5	3418.7	528.7	299.6	259.9	218.8	177.6	151.3	141.0	141.0	142.5
40°	5291.1	3417.2	424.4	279.0	236.4	189.4	146.9	127.8	122.0	124.8	126.3
42.5°	5664.1	3495.1	370.1	259.9	215.9	161.4	122.0	108.7	107.2	110.2	111.6
45°	6173.7	3637.6	340.7	243.7	193.8	135.2	102.8	94.0	94.0	98.5	99.9
47.5°	6797.8	3846.0	315.8	227.6	171.9	113.1	88.1	82.3	83.7	88.1	89.6
50°	7549.7	4108.9	290.7	210.0	155.7	94.0	76.4	72.0	73.4	79.3	80.8
52.5°	8405.8	4462.8	270.2	193.8	135.2	77.8	64.6	61.7	64.6	70.5	72.0
55°	9140.1	4780.0	245.3	180.6	108.7	64.6	52.9	52.9	55.8	63.2	64.6
57.5°	9846.5	5111.9	223.2	155.7	85.2	51.4	44.0	45.6	49.9	57.3	58.8
60°	10883.2	5674.4	196.7	130.7	64.6	41.1	36.7	38.1	44.0	51.4	52.9
62.5°	12643.9	6530.5	170.3	108.7	49.9	32.3	29.4	32.3	39.7	48.5	49.9
65°	14232.8	6878.5	139.6	91.0	38.1	24.9	24.9	29.4	38.1	47.0	48.5
67.5°	13347.3	5790.4	108.7	72.0	29.4	19.1	20.5	27.9	36.7	47.0	48.5
69°	11804.0	4734.5	92.6	57.3	24.9	17.6	19.1	27.9	36.7	45.6	47.0
70°	10601.2	3997.4	82.3	48.5	22.1	17.6	19.1	26.4	36.7	45.6	47.0
72.5°	7100.3	2158.8	66.1	35.3	20.5	16.2	16.2	26.4	35.3	44.0	45.6
75°	3051.6	596.2	52.9	24.9	17.6	14.6	14.6	24.9	33.8	42.6	45.6
77.5°	558.0	151.3	42.6	22.1	17.6	14.6	13.2	23.5	32.3	41.1	42.6
80°	221.8	74.9	33.8	19.1	16.2	13.2	11.8	22.1	30.8	39.7	41.1
82.5°	133.7	42.6	27.9	17.6	16.2	11.8	10.3	19.1	29.4	38.1	39.7
85°	108.7	29.4	22.1	17.6	14.6	11.8	8.8	17.6	26.4	36.7	38.1
87.5°	52.9	20.5	20.5	16.2	14.6	11.8	8.8	16.2	24.9	35.3	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)