

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: P194556

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194556
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-SL4-7060-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA 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: 38718 lumens
Efficiency: N/A
Efficacy: 87.0 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): 445
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

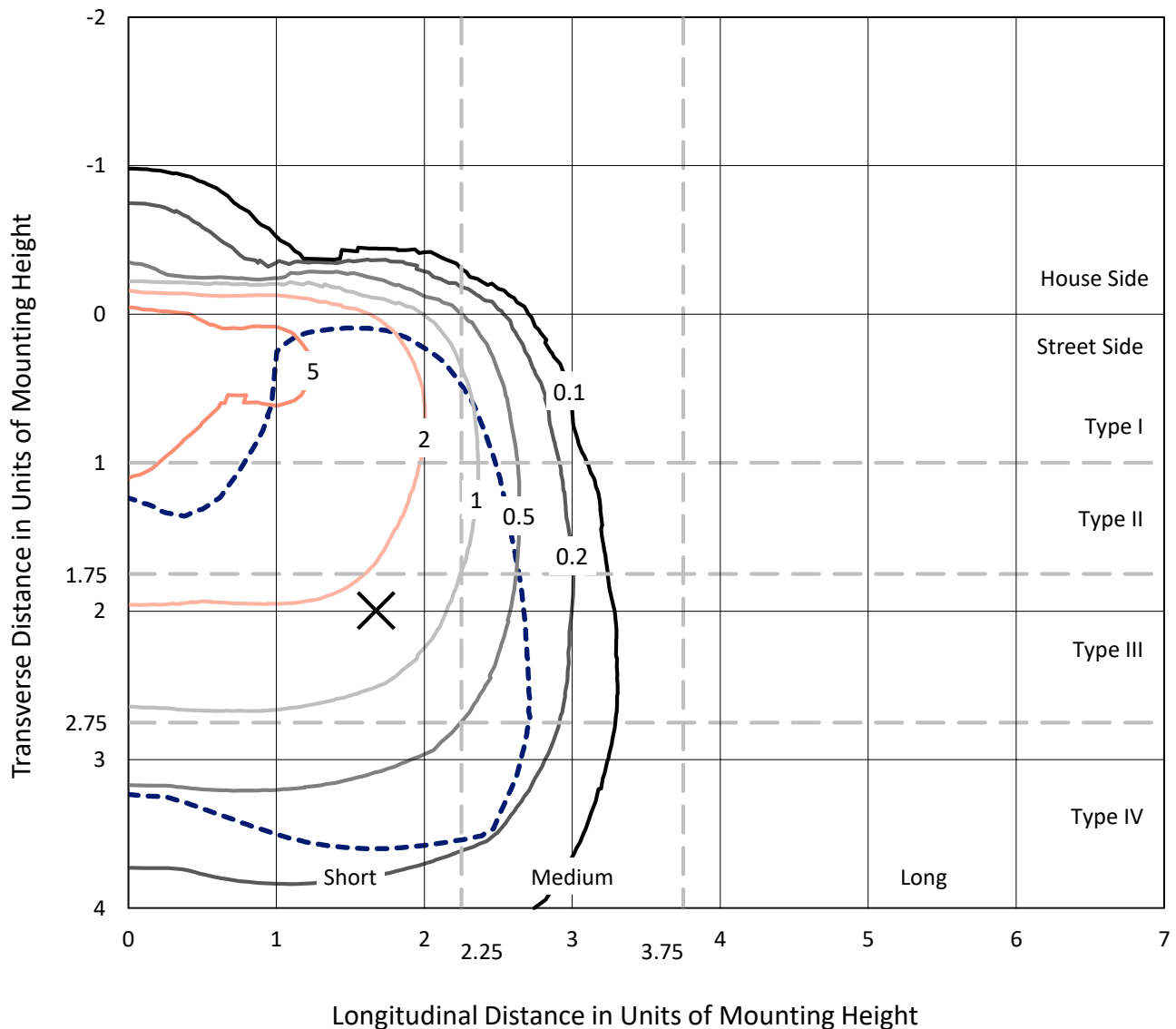


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

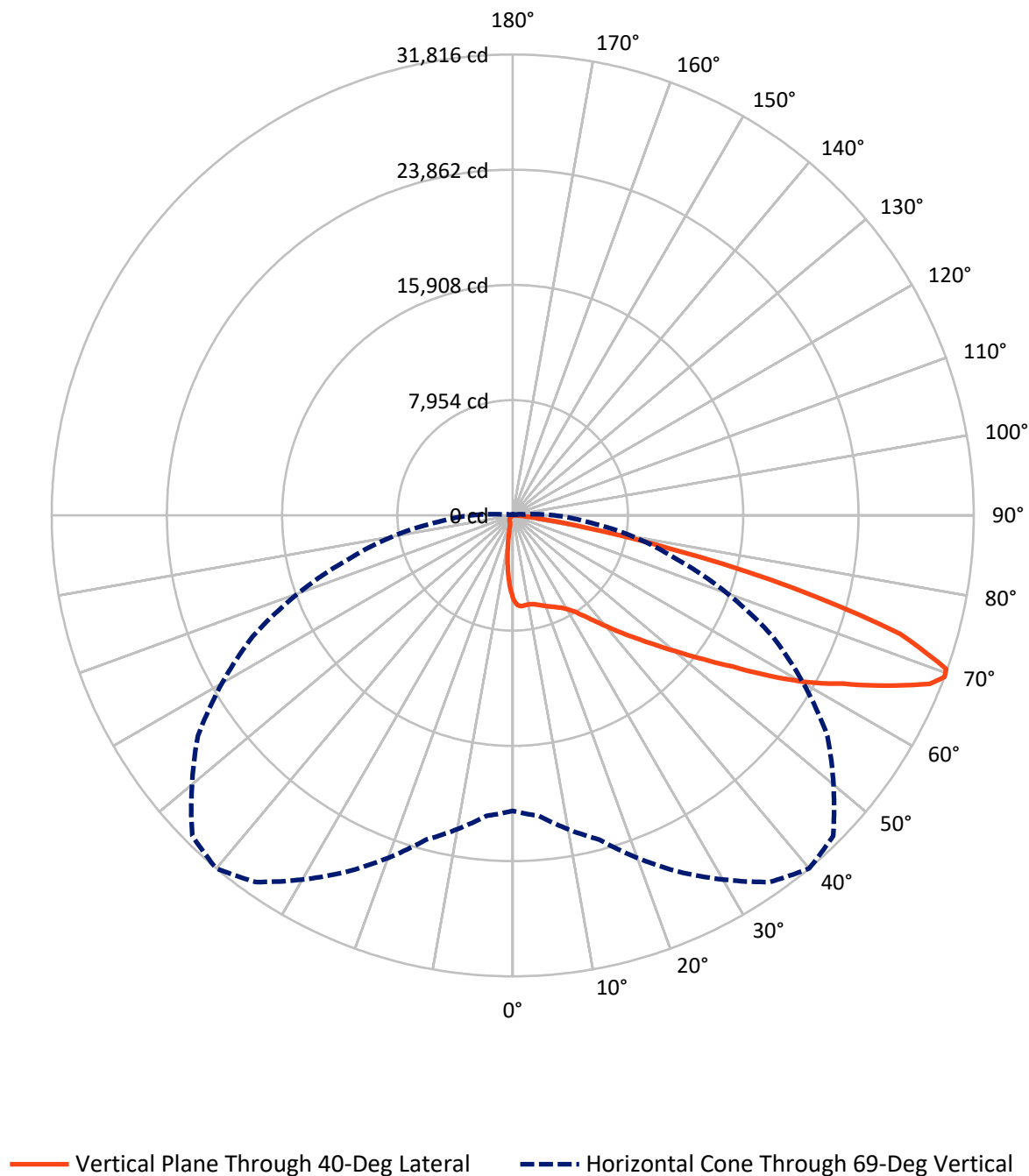


Based on 30 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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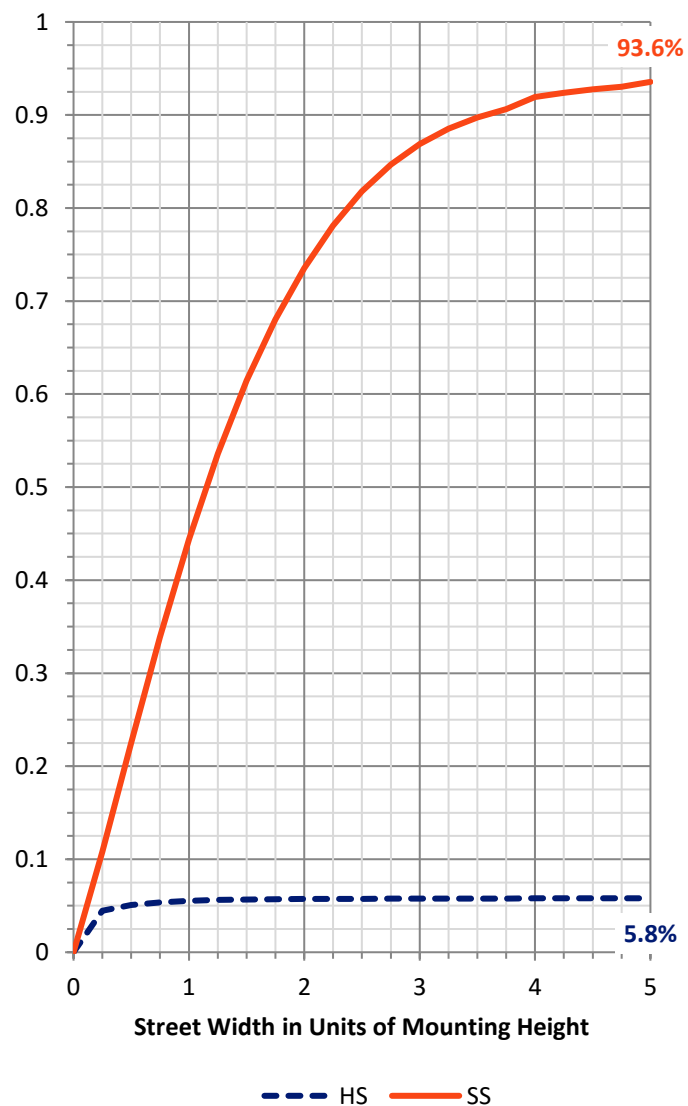
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2265.2	0.0	2265.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	36452.8	0.0	36452.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	38718.0	0.0	38718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.0	1.2
10°-20°	1153.4	3.0
20°-30°	1942.7	5.0
30°-40°	3180.3	8.2
40°-50°	5506.6	14.2
50°-60°	8673.5	22.4
60°-70°	11327.2	29.3
70°-80°	5834.0	15.1
80°-90°	631.1	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°	38718.0	100.0
0°-180°	38718.0	100.0

Coefficient of Utilization



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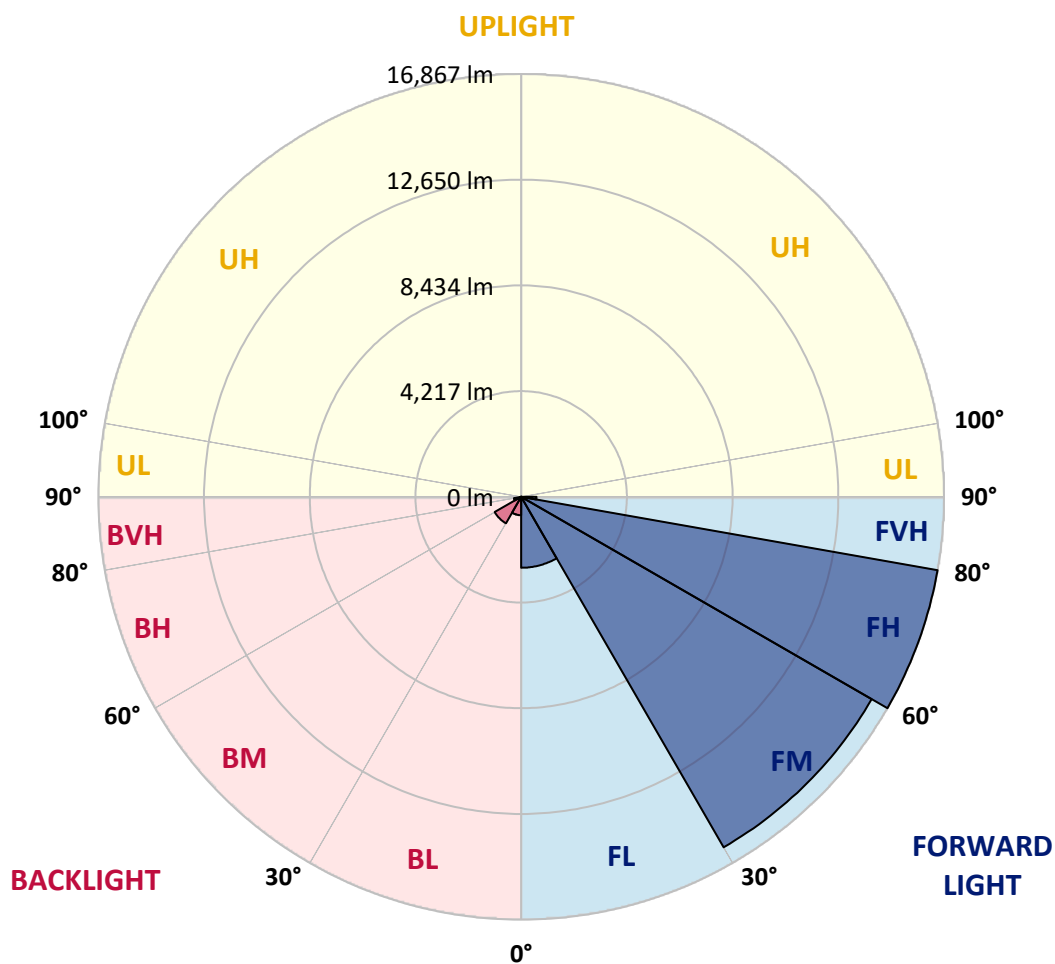
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2831.4	7.3			
FM	(30°-60°)	16143.0	41.7			
FH	(60°-80°)	16867.2	43.6			G5
FVH	(80°-90°)	611.3	1.6			G4/750
BL	(0°-30°)	733.8	1.9	B2/1000		
BM	(30°-60°)	1217.5	3.1	B2/2500		
BH	(60°-80°)	294.1	0.8	B1/500		G1/500
BVH	(80°-90°)	19.8	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°	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7
2.5°	6351.6	6317.0	6296.3	6268.6	6234.1	6204.1	6192.6	6107.3	6026.7	5916.0	5789.3
5°	6469.1	6457.6	6420.8	6383.9	6342.4	6296.3	6270.9	6169.5	6054.3	5893.0	5671.7
7.5°	6480.7	6466.8	6420.8	6370.0	6312.4	6257.1	6213.3	6111.9	6005.9	5842.3	5572.6
10°	6462.2	6446.1	6411.5	6356.2	6284.8	6231.8	6188.0	6091.2	6001.3	5853.8	5554.2
12.5°	6441.5	6425.4	6409.2	6381.6	6319.3	6282.5	6245.6	6153.4	6072.7	5948.3	5621.0
15°	6462.2	6453.0	6471.5	6459.9	6425.4	6393.1	6356.2	6273.3	6199.5	6095.8	5743.2
17.5°	6549.8	6549.8	6607.4	6614.3	6582.1	6536.0	6483.0	6400.0	6337.8	6250.2	5888.4
20°	6754.9	6748.0	6821.8	6835.6	6757.2	6685.8	6607.4	6506.0	6457.6	6402.3	6031.3
22.5°	7107.5	7075.3	7119.1	7105.2	6950.8	6840.2	6743.4	6619.0	6593.6	6568.2	6190.3
25°	7566.2	7547.7	7577.7	7441.7	7169.8	7020.0	6904.7	6764.1	6764.1	6789.5	6370.0
27.5°	8232.2	8163.1	8061.7	7822.0	7414.1	7222.8	7098.3	6948.5	6987.7	7082.2	6607.4
30°	8914.4	8838.3	8605.6	8236.8	7711.4	7510.9	7365.7	7208.9	7301.1	7474.0	6925.5
32.5°	9587.3	9502.1	9172.5	8707.0	8137.7	7937.2	7796.6	7623.8	7778.2	8068.6	7391.0
35°	10239.6	10163.5	9783.2	9234.7	8704.7	8538.7	8409.7	8259.9	8458.1	8863.7	8047.8
37.5°	10972.4	10889.5	10426.2	9831.6	9393.7	9273.9	9179.4	9029.6	9375.3	9969.9	8962.8
40°	11873.6	11733.0	11108.4	10516.1	10191.2	10133.5	10069.0	10048.3	10585.3	11408.0	10181.9
42.5°	12906.0	12675.6	11822.8	11237.5	11066.9	11108.4	11092.3	11184.5	12099.4	13196.4	11666.1
45°	13938.5	13641.2	12618.0	12007.2	12030.3	12175.5	12265.3	12634.1	13996.1	15247.6	13263.3
47.5°	14814.3	14521.6	13380.8	12839.2	13115.8	13401.5	13645.8	14344.1	15945.9	17266.4	14505.5
50°	15563.3	15286.7	14189.7	13754.1	14376.4	14837.3	15233.7	16268.5	18043.1	18803.6	15376.6
52.5°	16176.3	15992.0	15028.6	14802.8	15816.8	16492.1	17072.8	18312.7	19900.6	20052.7	16054.2
55°	16773.2	16641.9	15929.7	16049.6	17508.4	18428.0	19163.2	20481.4	21500.1	21094.4	16704.1
57.5°	17460.0	17340.2	16957.6	17630.6	19732.4	20889.3	21691.4	22403.5	22908.2	22159.2	17317.1
60°	18160.6	18091.5	18100.7	19386.7	22286.0	23396.8	23839.3	24023.7	24291.0	23161.7	17351.7
62.5°	18829.0	18960.3	19407.4	21341.0	24731.2	25583.9	25807.5	25989.5	25676.1	23320.7	16031.1
65°	19960.6	20174.9	21241.9	23956.8	27420.7	28333.4	28563.8	27939.3	25895.0	21265.0	13039.7
67.5°	20513.7	20905.5	22809.1	26395.1	30029.6	31043.6	30958.3	28066.0	23237.8	16215.5	8368.2
69°	20398.4	20815.6	23170.9	27141.8	30896.1	31815.7	31274.1	26515.0	19796.9	11746.8	5137.1
70°	19942.1	20363.9	22984.3	27114.2	31006.7	31735.0	30688.7	24599.8	16738.7	8589.4	3212.7
72.5°	16653.4	17017.5	20405.4	24507.6	28563.8	27971.5	25673.8	17042.9	8156.2	2339.2	723.7
75°	10251.1	10453.9	14641.4	18462.5	21573.8	20052.7	17105.1	8478.8	2431.4	661.4	401.0
77.5°	5415.9	5508.1	8015.6	10882.6	13675.8	11315.8	8766.9	3307.2	1120.1	414.8	290.4
80°	3201.2	3270.3	4316.6	4975.7	5918.3	4943.5	3505.4	2030.4	802.0	260.4	258.1
82.5°	1832.2	1876.0	3129.7	2765.6	2332.3	1991.2	1744.6	1924.4	481.7	175.2	267.3
85°	673.0	682.2	1760.8	2104.1	1387.4	825.1	866.5	1594.8	129.1	110.6	209.7
87.5°	313.4	306.5	905.7	1288.3	811.2	523.2	675.3	350.3	50.7	71.4	57.6
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°	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7	5784.7
2.5°	5715.5	5630.3	5475.8	5316.8	5155.5	5031.0	4908.9	4812.1	4779.8	4719.9	4724.5
5°	5540.4	5383.7	5061.0	4733.7	4392.7	4111.5	3846.5	3632.1	3528.4	3422.4	3422.4
7.5°	5388.3	5160.1	4655.4	4123.0	3572.2	3109.0	2691.8	2378.4	2205.5	2067.3	2065.0
10°	5330.7	5021.8	4316.6	3553.8	2786.3	2154.8	1659.3	1341.3	1177.7	1071.7	1067.1
12.5°	5356.0	4973.4	4056.2	3028.3	2065.0	1385.1	961.0	755.9	686.8	654.5	654.5
15°	5429.8	4959.6	3795.8	2514.4	1458.8	866.5	638.4	583.1	578.5	578.5	578.5
17.5°	5519.6	4964.2	3528.4	2014.3	993.3	620.0	550.8	543.9	548.5	548.5	548.5
20°	5611.8	4966.5	3240.3	1551.0	700.6	539.3	518.5	516.2	520.9	520.9	523.2
22.5°	5724.7	4978.0	2952.3	1159.2	578.5	509.3	493.2	493.2	495.5	495.5	493.2
25°	5853.8	5001.1	2652.7	859.6	527.8	488.6	474.8	472.5	474.8	472.5	470.1
27.5°	6015.1	5033.4	2318.5	673.0	504.7	467.8	456.3	456.3	454.0	451.7	449.4
30°	6217.9	5070.2	1942.8	571.6	481.7	449.4	437.9	435.6	433.3	428.7	428.7
32.5°	6526.8	5150.9	1571.8	518.5	456.3	424.1	414.8	414.8	410.2	405.6	403.3
35°	7001.5	5309.9	1239.9	486.3	428.7	396.4	384.9	384.9	380.3	378.0	375.7
37.5°	7658.3	5551.9	963.3	456.3	401.0	366.4	354.9	352.6	348.0	343.4	341.1
40°	8531.8	5851.5	758.2	428.7	373.4	336.5	327.3	322.7	313.4	306.5	306.5
42.5°	9628.8	6192.6	615.3	398.7	341.1	308.8	301.9	295.0	278.9	271.9	269.6
45°	10776.5	6499.1	520.9	364.1	308.8	281.2	276.6	265.0	244.3	237.4	237.4
47.5°	11603.9	6570.6	458.6	331.9	278.9	251.2	248.9	228.2	209.7	205.1	202.8
50°	12120.1	6430.0	407.9	299.6	251.2	223.6	216.6	191.3	179.8	175.2	172.8
52.5°	12468.1	6178.8	366.4	271.9	225.9	198.2	182.1	163.6	154.4	149.8	149.8
55°	12747.0	5823.8	325.0	246.6	205.1	177.5	154.4	140.6	131.4	126.8	126.8
57.5°	12825.4	5342.2	283.5	225.9	184.4	156.7	131.4	122.1	110.6	108.3	108.3
60°	12256.1	4473.3	251.2	200.5	165.9	136.0	115.2	103.7	92.2	89.9	87.6
62.5°	10755.8	3461.6	221.2	177.5	145.2	117.5	99.1	85.3	76.1	76.1	76.1
65°	8204.5	2320.8	193.6	154.4	126.8	99.1	85.3	69.1	64.5	64.5	66.8
67.5°	4911.2	1262.9	165.9	131.4	108.3	83.0	71.4	59.9	57.6	59.9	59.9
69°	2878.5	742.1	149.8	117.5	94.5	73.7	62.2	53.0	57.6	59.9	59.9
70°	1776.9	500.1	138.3	106.0	85.3	66.8	57.6	50.7	55.3	57.6	57.6
72.5°	495.5	258.1	110.6	83.0	69.1	55.3	46.1	46.1	53.0	55.3	55.3
75°	322.7	191.3	85.3	62.2	53.0	43.8	39.2	43.8	50.7	53.0	53.0
77.5°	267.3	156.7	69.1	50.7	43.8	41.5	36.9	39.2	46.1	48.4	48.4
80°	244.3	110.6	55.3	46.1	39.2	36.9	34.6	32.3	41.5	43.8	43.8
82.5°	232.8	87.6	48.4	41.5	36.9	32.3	30.0	32.3	36.9	39.2	41.5
85°	145.2	57.6	43.8	39.2	32.3	30.0	30.0	30.0	34.6	36.9	36.9
87.5°	53.0	46.1	39.2	32.3	27.7	27.7	27.7	27.7	30.0	34.6	34.6
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)