

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: P192873

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192873
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-05-LED-E1-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 24581.1 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 279
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

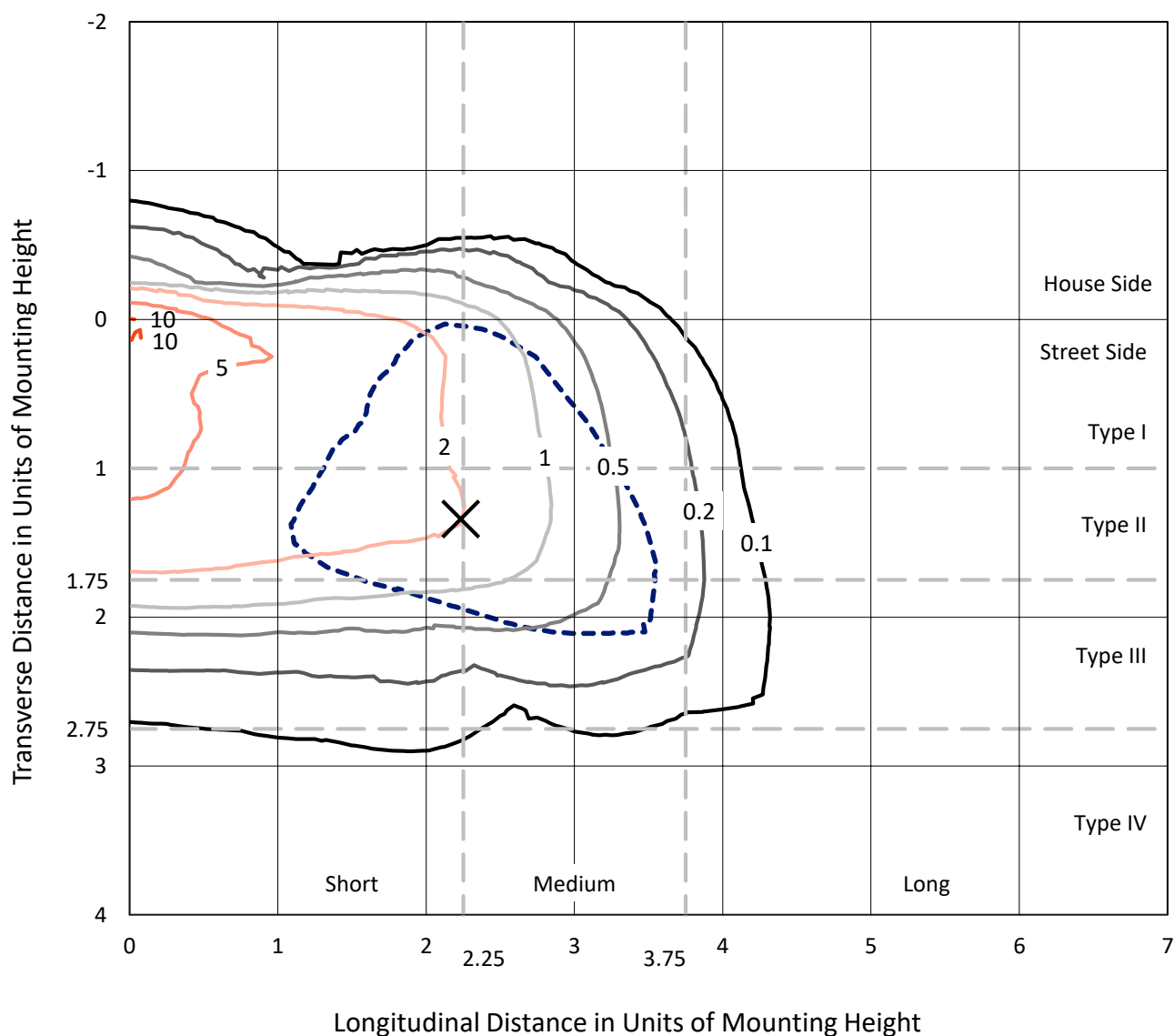


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

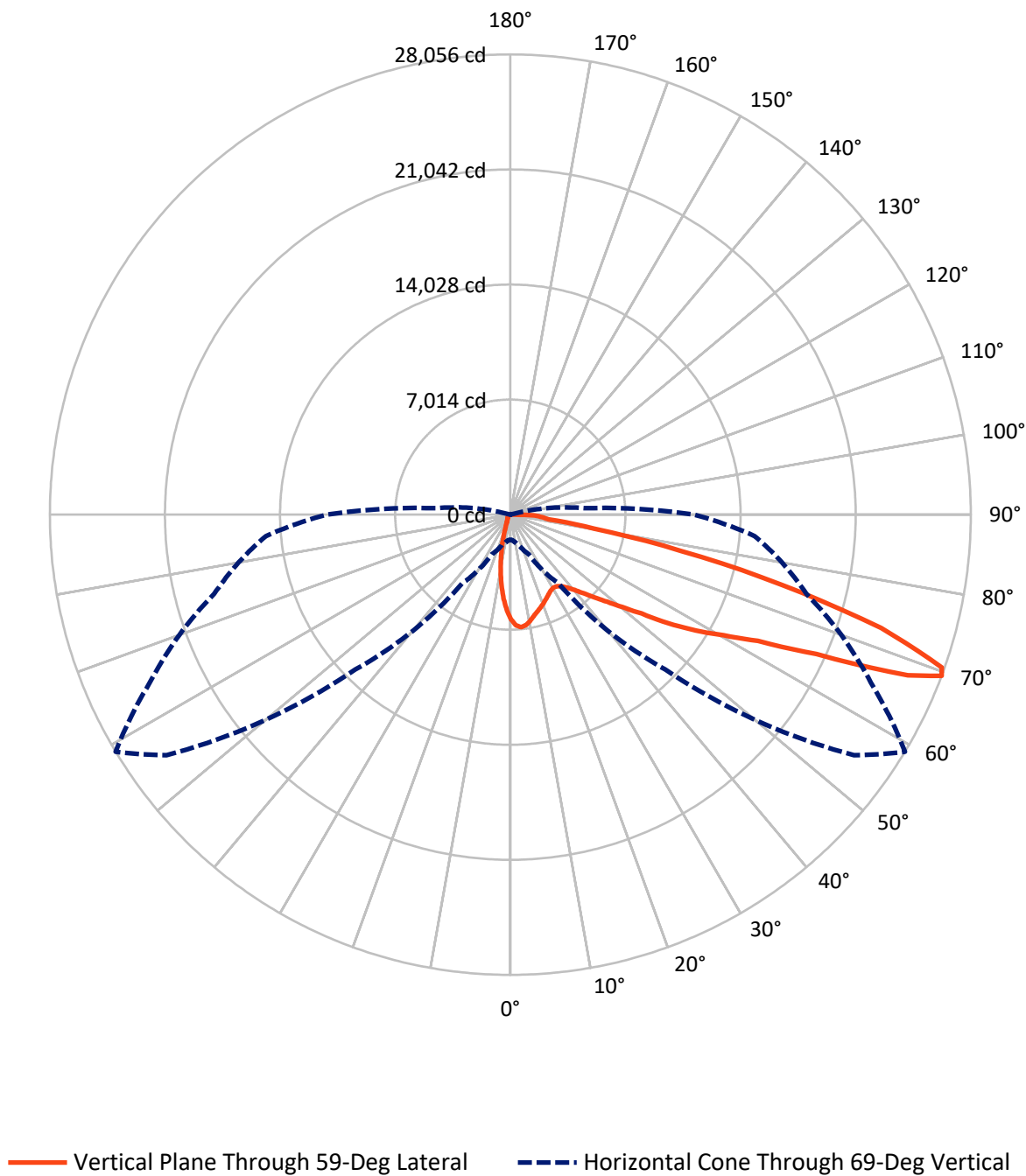


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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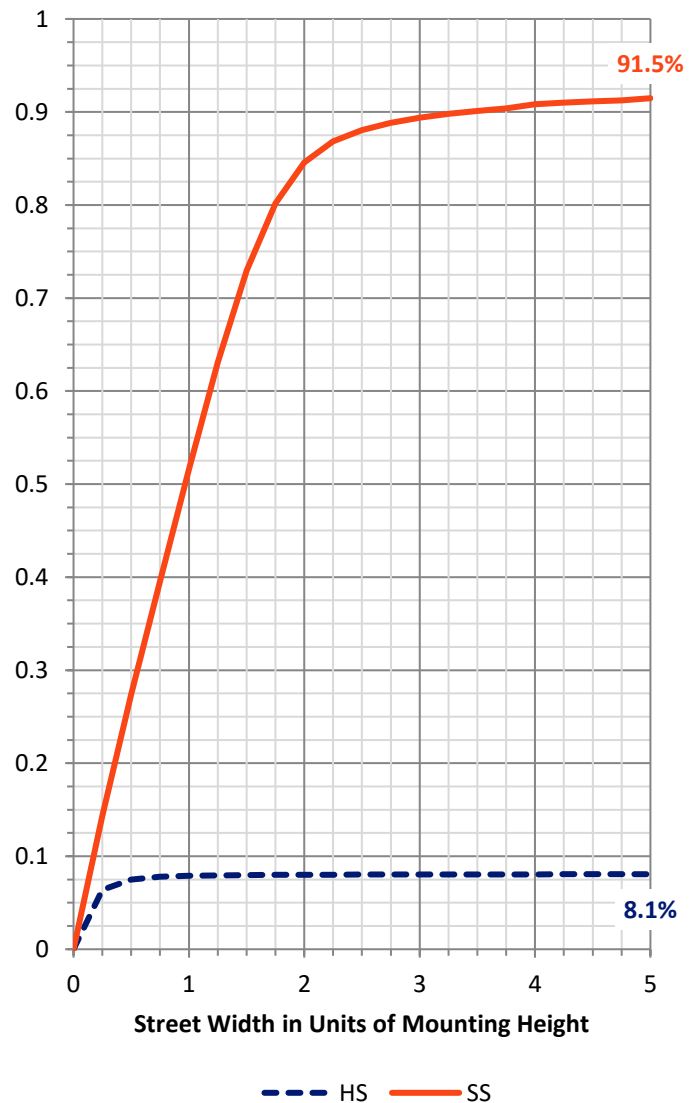
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.8	0.0	2001.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	22579.3	0.0	22579.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	24581.1	0.0	24581.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.3	2.1
10°-20°	1073.1	4.4
20°-30°	1444.0	5.9
30°-40°	2096.6	8.5
40°-50°	3491.0	14.2
50°-60°	5445.8	22.2
60°-70°	6738.8	27.4
70°-80°	3415.2	13.9
80°-90°	357.3	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°	24581.1	100.0
0°-180°	24581.1	100.0

Coefficient of Utilization



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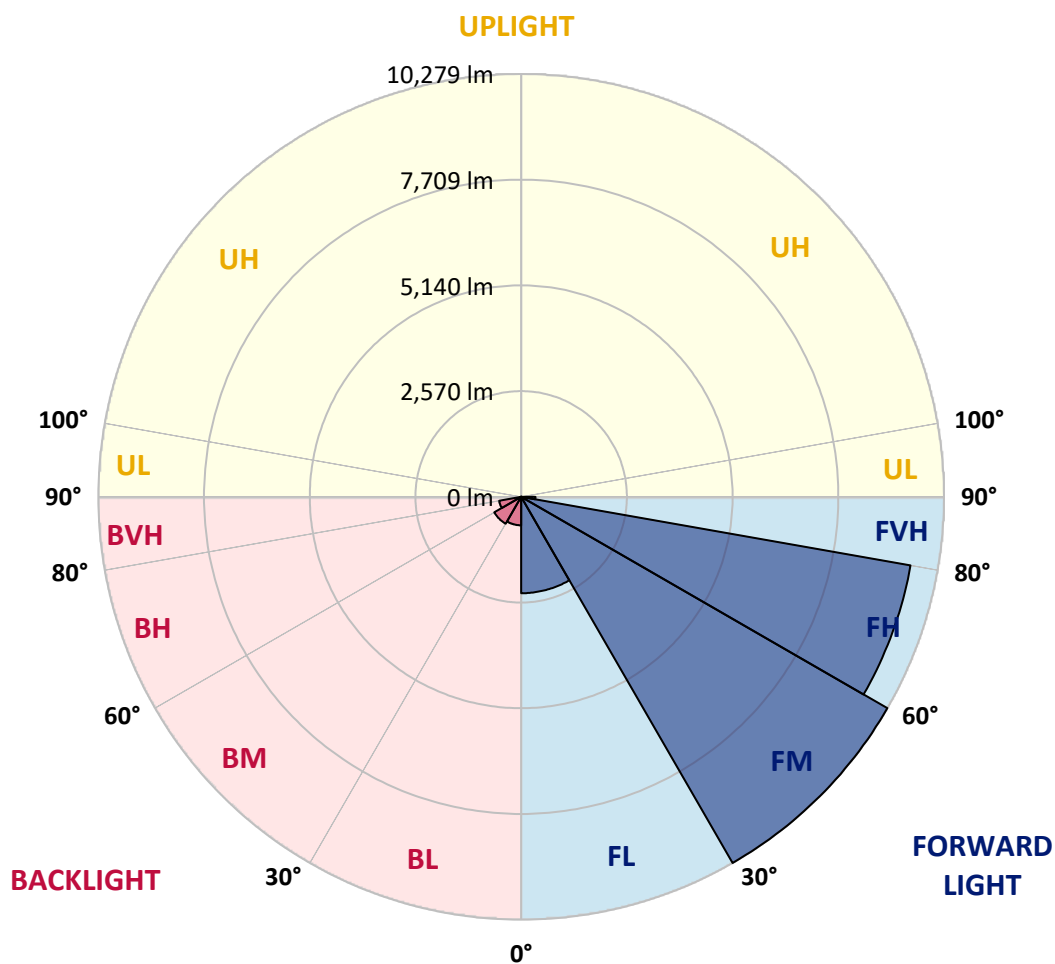
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2343.5	9.5			
FM	(30°-60°)	10279.1	41.8			
FH	(60°-80°)	9610.3	39.1			G4/12000
FVH	(80°-90°)	346.3	1.4			G3/500
BL	(0°-30°)	692.9	2.8	B2/1000		
BM	(30°-60°)	754.3	3.1	B1/1000		
BH	(60°-80°)	543.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.0	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°	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1
2.5°	7012.5	7009.7	6979.2	6965.3	6940.2	6887.3	6805.4	6762.3	6692.7	6571.8	6409.2
5°	6948.6	6981.8	7000.0	7001.5	7019.5	7000.0	6926.4	6890.2	6794.3	6599.7	6307.7
7.5°	6514.9	6527.3	6578.8	6623.3	6709.5	6791.4	6817.9	6802.6	6745.6	6537.1	6149.3
10°	6050.7	6063.2	6124.3	6182.7	6299.5	6426.0	6559.4	6587.1	6610.8	6448.2	5996.4
12.5°	5650.4	5662.8	5725.4	5801.7	5938.0	6093.7	6300.9	6346.7	6451.0	6363.4	5874.1
15°	5305.6	5311.2	5372.3	5466.8	5629.5	5829.6	6064.6	6138.1	6298.0	6303.6	5767.0
17.5°	5012.3	5026.3	5063.7	5154.1	5332.0	5579.5	5853.2	5958.9	6146.6	6253.6	5662.8
20°	4833.0	4846.8	4845.5	4895.6	5055.4	5319.5	5641.9	5768.5	5996.4	6202.1	5569.7
22.5°	4798.2	4798.2	4762.1	4755.2	4849.7	5070.7	5422.3	5576.7	5861.6	6179.9	5504.4
25°	4921.9	4916.4	4826.1	4752.3	4756.6	4888.6	5209.7	5393.1	5747.6	6195.2	5469.6
27.5°	5183.3	5176.3	5062.3	4921.9	4809.4	4808.0	5048.5	5245.9	5657.2	6267.4	5483.5
30°	5544.7	5541.8	5418.1	5241.7	5037.3	4849.7	4992.8	5172.2	5598.9	6398.1	5515.5
32.5°	5939.5	5935.3	5842.1	5656.0	5397.3	5037.3	5051.3	5201.4	5615.6	6571.8	5593.3
35°	6357.8	6350.9	6310.6	6147.9	5863.0	5383.4	5243.1	5359.8	5721.3	6831.8	5746.3
37.5°	6811.0	6817.9	6847.1	6691.5	6392.5	5868.6	5564.1	5643.3	5933.9	7184.9	5995.0
40°	7479.6	7478.1	7487.9	7283.6	6995.9	6462.0	6013.1	6038.1	6289.7	7653.3	6373.1
42.5°	8693.0	8608.2	8351.1	7934.1	7645.0	7140.4	6578.8	6552.4	6724.8	8232.9	6902.7
45°	10323.5	10142.7	9475.6	8676.3	8306.6	7904.9	7275.2	7190.5	7300.2	8929.3	7556.1
47.5°	11725.9	11538.4	10594.6	9449.2	9008.5	8630.5	8091.2	7938.2	7974.4	9709.1	8384.4
50°	12202.7	12111.0	11286.7	10121.9	9688.2	9543.7	9037.7	8851.4	8800.1	10611.1	9345.0
52.5°	12037.3	12030.4	11481.3	10558.4	10311.1	10488.9	10229.0	10013.5	9824.5	11562.0	10322.0
55°	11771.8	11806.5	11560.6	10940.6	10932.3	11352.0	11858.0	11678.7	11131.0	12594.8	11164.4
57.5°	11039.3	11188.0	11516.0	11663.4	12005.4	12434.9	13214.7	13320.4	12672.6	13385.6	11863.6
60°	8957.1	9283.8	10356.8	11767.7	13388.4	14458.8	14852.0	14942.4	13937.4	14043.1	12807.4
62.5°	6357.8	6691.5	8052.2	10438.8	13409.3	17117.7	17291.5	16937.1	15330.2	15017.4	14435.2
65°	3374.9	3632.0	4744.0	7535.2	11625.8	17734.9	21557.4	20501.0	17787.7	16934.3	16538.1
67.5°	1726.4	1804.2	2246.3	3687.6	7992.5	15752.8	25381.3	26124.9	22023.1	18835.8	16436.6
69°	1527.6	1573.5	1866.8	2666.0	5117.9	13342.5	25567.5	28055.6	24240.0	18677.4	14936.9
70°	1479.0	1519.2	1786.2	2413.0	4000.4	11189.5	24854.4	27886.0	24807.2	18074.1	13816.5
72.5°	1255.2	1290.0	1590.2	2132.2	3251.2	5554.4	20189.6	23629.8	22260.7	15056.4	10001.0
75°	839.5	953.5	1526.3	1998.8	3024.7	3155.3	13310.5	17076.0	15862.6	10155.3	5209.7
77.5°	201.6	216.9	430.9	1590.2	2766.1	2777.2	6845.7	10615.4	8658.2	3619.5	1231.6
80°	108.3	104.3	121.0	315.5	2575.7	2606.3	3081.6	5152.6	3091.4	600.5	405.9
82.5°	76.5	72.3	77.8	132.1	810.3	2374.1	2229.6	2332.3	1281.6	230.7	182.1
85°	27.8	26.4	43.0	119.5	254.3	1364.9	2290.7	1923.7	1038.3	105.7	133.4
87.5°	9.8	8.3	16.7	65.3	77.8	581.0	1413.6	1453.9	408.6	63.9	62.5
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°	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1	6398.1
2.5°	6341.2	6255.0	6096.5	5933.9	5783.7	5603.1	5512.6	5423.7	5386.3	5372.3	5306.9
5°	6157.7	6011.7	5675.4	5337.6	5026.3	4695.4	4477.1	4302.0	4199.2	4149.1	4069.9
7.5°	5922.7	5683.6	5173.5	4652.3	4167.1	3689.0	3334.6	3062.1	2874.5	2784.2	2702.1
10°	5694.8	5376.5	4650.9	3940.7	3281.8	2647.9	2158.6	1804.2	1577.6	1473.4	1406.7
12.5°	5490.5	5077.6	4146.4	3246.9	2420.0	1677.6	1180.1	897.9	757.5	708.9	685.3
15°	5308.4	4802.4	3669.6	2588.2	1638.8	959.1	644.9	549.0	526.8	526.8	524.0
17.5°	5136.1	4532.7	3209.5	1969.6	1028.5	586.6	490.7	478.1	478.1	483.7	483.7
20°	4970.6	4275.7	2764.7	1413.6	647.7	465.7	443.4	440.7	443.4	450.3	450.3
22.5°	4828.8	4042.0	2349.1	970.2	481.0	419.8	408.6	404.5	405.9	410.0	412.8
25°	4723.2	3844.8	1957.2	657.4	414.2	382.3	369.8	362.7	357.3	357.3	360.0
27.5°	4656.5	3677.8	1577.6	478.1	372.5	347.5	328.0	317.0	304.4	297.4	300.3
30°	4607.8	3519.5	1221.8	390.6	333.6	308.5	283.5	265.5	247.5	239.1	241.9
32.5°	4589.8	3391.6	913.2	344.7	298.9	271.1	240.5	216.9	197.4	190.4	191.9
35°	4638.4	3290.2	668.5	311.4	271.1	236.3	201.6	175.2	159.8	155.7	157.2
37.5°	4766.3	3235.9	500.4	283.5	246.1	207.1	168.2	143.1	133.4	133.4	134.8
40°	5008.1	3234.5	401.7	264.1	223.8	179.3	139.0	121.0	115.4	118.1	119.5
42.5°	5361.3	3308.2	350.2	246.1	204.4	152.9	115.4	102.8	101.5	104.3	105.7
45°	5843.5	3443.0	322.5	230.7	183.4	127.9	97.4	88.9	88.9	93.1	94.5
47.5°	6434.3	3640.4	298.9	215.5	162.6	107.1	83.4	77.8	79.2	83.4	84.7
50°	7146.0	3889.2	275.3	198.8	147.4	88.9	72.3	68.1	69.5	75.1	76.5
52.5°	7956.4	4224.2	255.7	183.4	127.9	73.6	61.1	58.4	61.1	66.7	68.1
55°	8651.2	4524.4	232.1	171.0	102.8	61.1	50.0	50.0	52.8	59.8	61.1
57.5°	9320.0	4838.5	211.3	147.4	80.7	48.6	41.7	43.0	47.3	54.2	55.6
60°	10301.2	5370.9	186.3	123.7	61.1	38.9	34.8	36.2	41.7	48.6	50.0
62.5°	11967.8	6181.4	161.2	102.8	47.3	30.6	27.8	30.6	37.4	45.9	47.3
65°	13471.7	6510.8	132.1	86.2	36.2	23.6	23.6	27.8	36.2	44.5	45.9
67.5°	12633.6	5480.8	102.8	68.1	27.8	18.0	19.4	26.4	34.8	44.5	45.9
69°	11172.8	4481.4	87.5	54.2	23.6	16.7	18.0	26.4	34.8	43.0	44.5
70°	10034.4	3783.5	77.8	45.9	20.9	16.7	18.0	25.0	34.8	43.0	44.5
72.5°	6720.6	2043.2	62.5	33.4	19.4	15.3	15.3	25.0	33.4	41.7	43.0
75°	2888.4	564.4	50.0	23.6	16.7	13.8	13.8	23.6	32.0	40.3	43.0
77.5°	528.2	143.1	40.3	20.9	16.7	13.8	12.4	22.3	30.6	38.9	40.3
80°	209.9	70.9	32.0	18.0	15.3	12.4	11.2	20.9	29.2	37.4	38.9
82.5°	126.5	40.3	26.4	16.7	15.3	11.2	9.8	18.0	27.8	36.2	37.4
85°	102.8	27.8	20.9	16.7	13.8	11.2	8.3	16.7	25.0	34.8	36.2
87.5°	50.0	19.4	19.4	15.3	13.8	11.2	8.3	15.3	23.6	33.4	34.8
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)