

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: P299913

Luminaire Tested: **GLNA-AF-07-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL3-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27664.2 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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

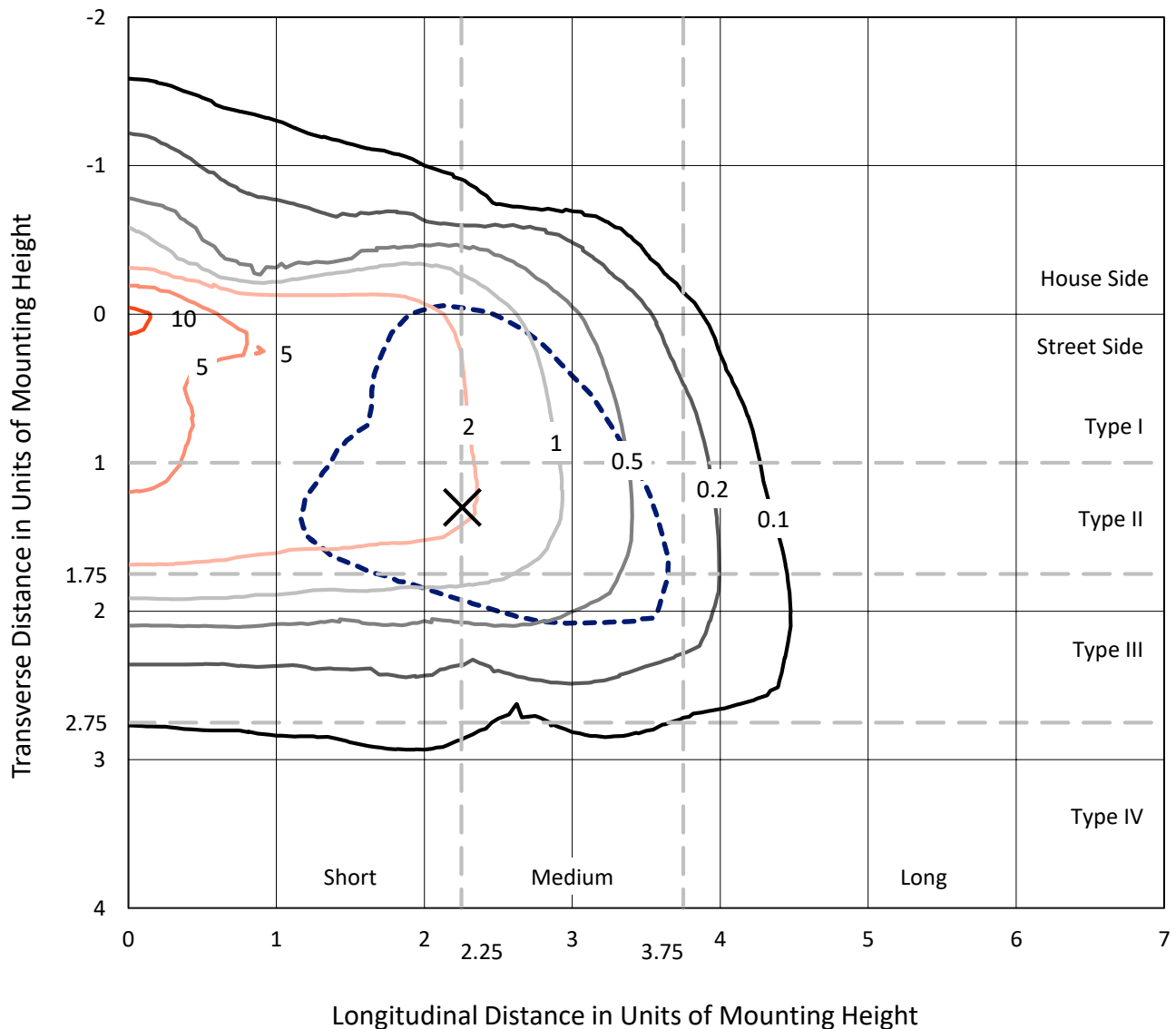


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

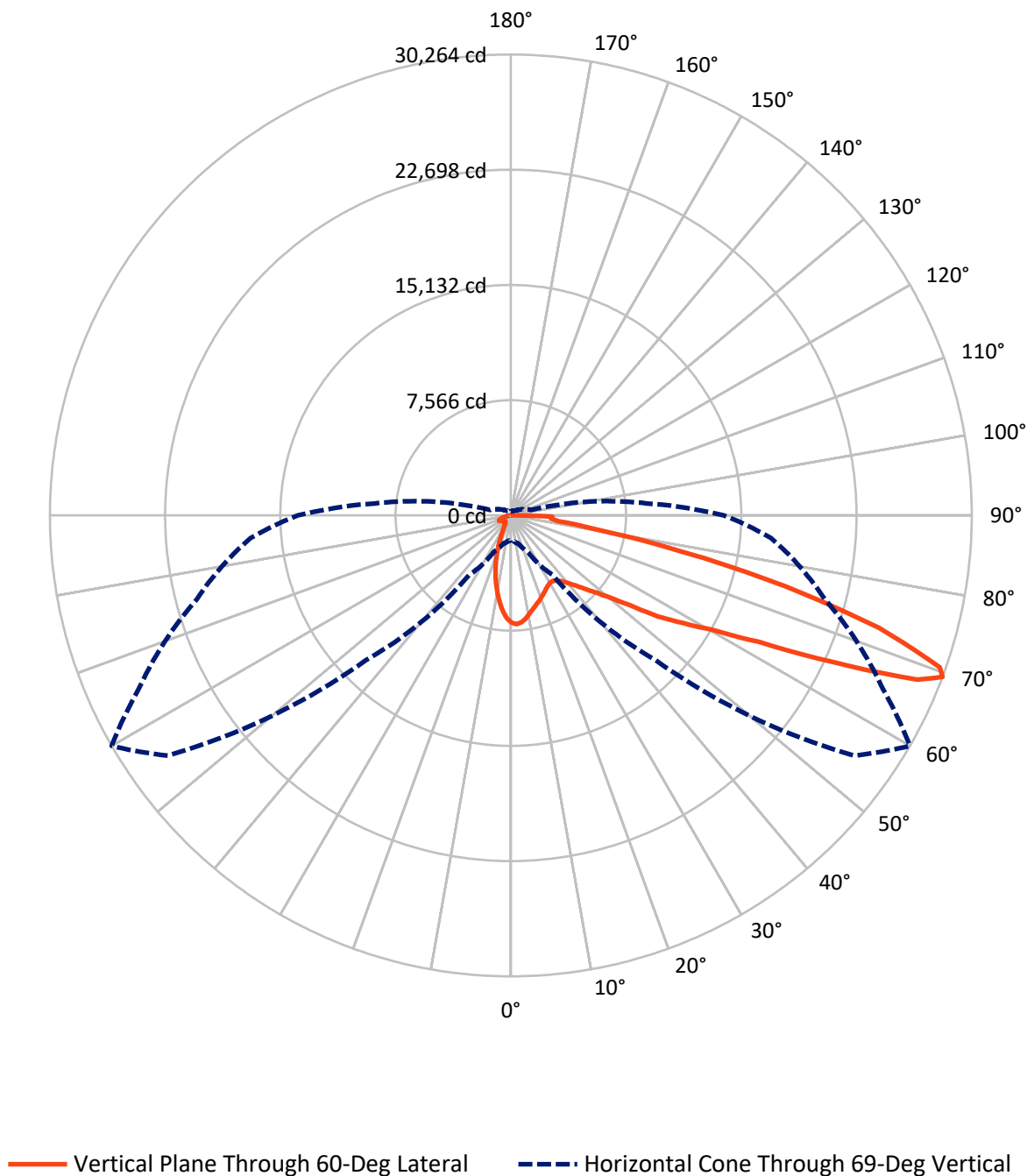


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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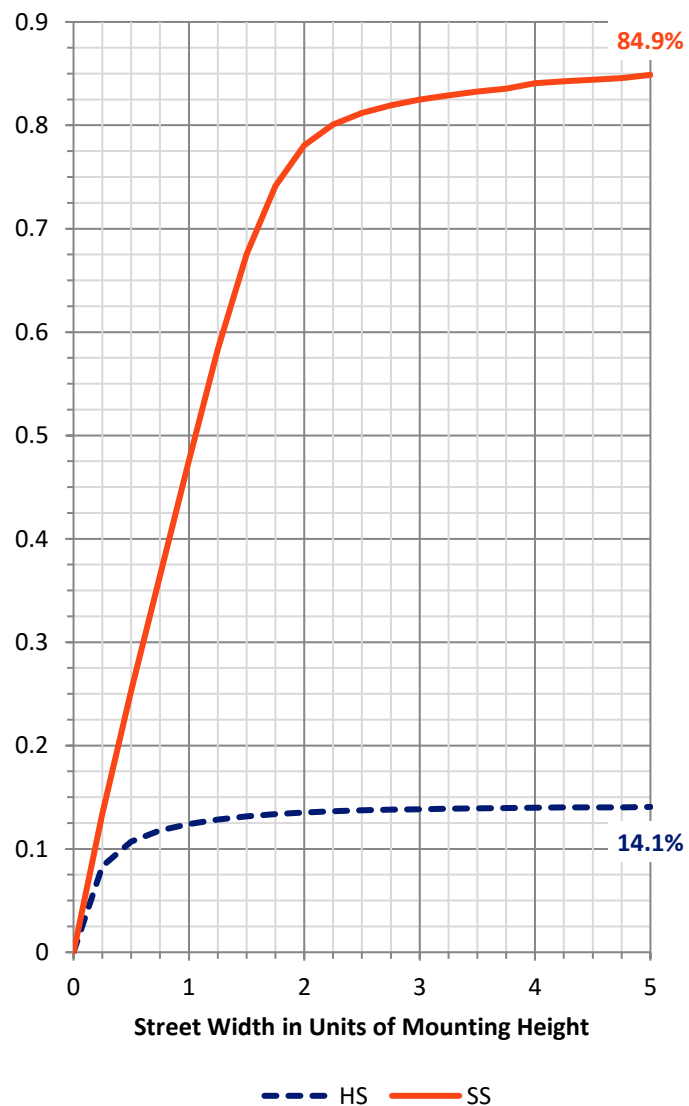
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3935.7	0.0	3935.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	23728.5	0.0	23728.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	27664.2	0.0	27664.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.0	2.2
10°-20°	1269.9	4.6
20°-30°	1618.1	5.8
30°-40°	2224.5	8.0
40°-50°	3609.4	13.0
50°-60°	5788.5	20.9
60°-70°	7704.1	27.8
70°-80°	4159.6	15.0
80°-90°	694.1	2.5
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°	27664.2	100.0
0°-180°	27664.2	100.0

Coefficient of Utilization



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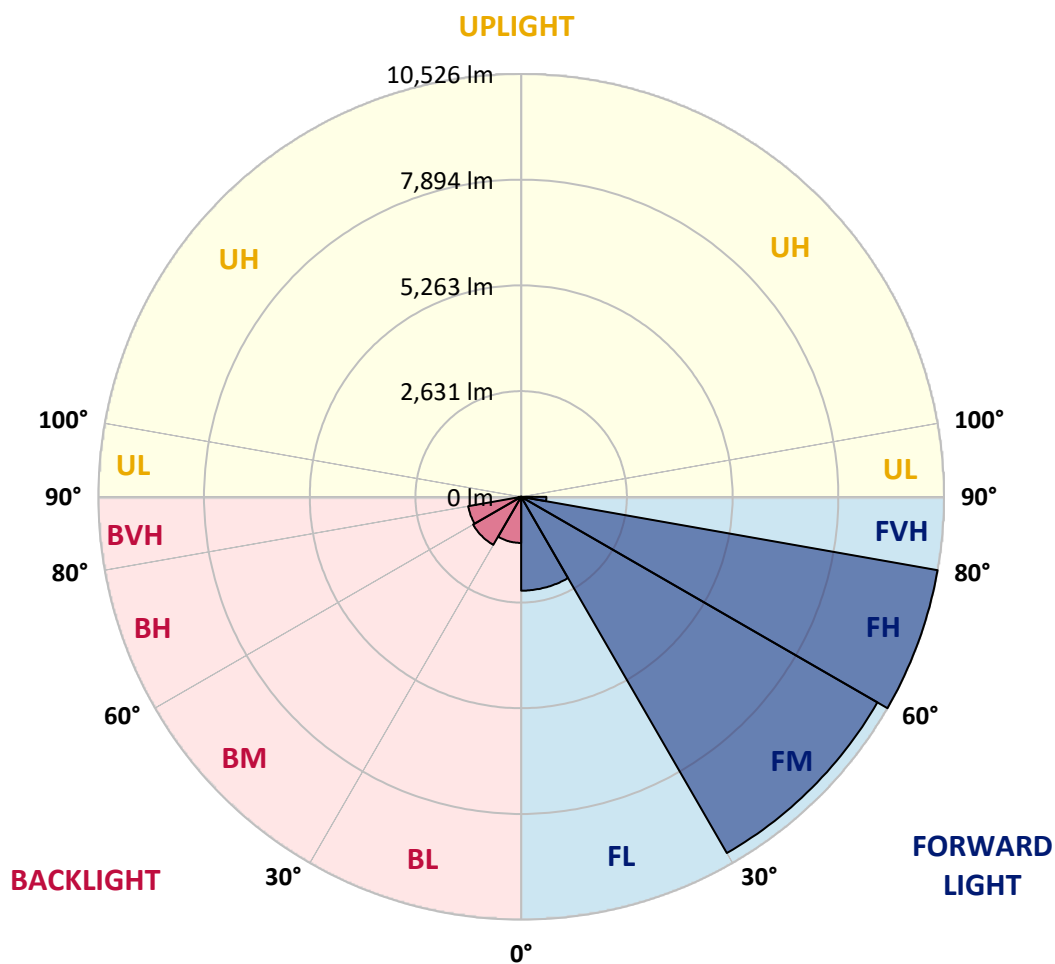
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2335.9	8.4			
FM	(30°-60°)	10239.7	37.0			
FH	(60°-80°)	10525.7	38.0			G4/12000
FVH	(80°-90°)	627.2	2.3			G4/750
BL	(0°-30°)	1148.2	4.2	B3/2500		
BM	(30°-60°)	1382.7	5.0	B2/2500		
BH	(60°-80°)	1338.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	66.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3
2.5°	7193.6	7209.6	7202.9	7198.9	7211.0	7192.3	7153.5	7141.5	7122.8	7078.7	7003.8
5°	6923.6	6971.8	6969.1	7005.2	7065.3	7081.3	7064.0	7066.6	7031.9	6977.1	6852.8
7.5°	6457.3	6477.3	6488.0	6566.8	6676.4	6764.6	6839.5	6863.5	6847.5	6800.7	6640.3
10°	5976.2	5992.2	6017.6	6109.8	6248.8	6370.4	6512.0	6593.6	6628.3	6620.3	6441.2
12.5°	5563.2	5579.3	5612.7	5716.9	5882.6	6032.3	6238.1	6339.7	6422.5	6472.0	6279.5
15°	5193.1	5227.8	5259.9	5380.2	5565.9	5762.4	5994.9	6123.2	6251.5	6362.4	6136.5
17.5°	4904.4	4939.2	4957.9	5067.5	5265.2	5505.8	5778.4	5929.4	6089.8	6271.5	5994.9
20°	4737.4	4753.4	4745.4	4806.9	4984.6	5239.8	5563.2	5738.3	5932.1	6186.0	5853.2
22.5°	4690.6	4691.9	4662.5	4655.9	4770.8	4985.9	5333.4	5545.9	5783.7	6129.9	5731.6
25°	4804.2	4800.2	4720.0	4654.5	4666.5	4792.2	5111.6	5358.8	5659.5	6117.8	5638.1
27.5°	5056.8	5068.8	4949.9	4826.9	4705.3	4701.3	4943.2	5203.8	5557.9	6172.6	5598.0
30°	5410.9	5430.9	5304.0	5147.6	4919.1	4730.7	4877.7	5111.6	5495.1	6286.2	5591.3
32.5°	5798.4	5819.8	5723.6	5559.2	5259.9	4912.4	4923.1	5119.6	5492.4	6445.2	5636.7
35°	6211.4	6235.4	6186.0	6047.0	5714.2	5247.9	5096.9	5249.2	5579.3	6688.4	5758.3
37.5°	6672.4	6709.8	6723.2	6590.9	6235.4	5690.2	5381.5	5495.1	5775.7	7026.5	5981.5
40°	7336.6	7388.7	7384.7	7194.9	6832.8	6287.5	5821.2	5850.6	6081.7	7478.2	6338.3
42.5°	8608.8	8619.5	8286.7	7873.8	7490.3	6915.6	6339.7	6315.6	6504.0	8050.2	6863.5
45°	10227.1	10183.0	9442.7	8644.9	8177.1	7637.3	7014.5	6896.9	7039.9	8747.8	7521.0
47.5°	11570.1	11468.6	10533.1	9432.0	8904.1	8421.7	7807.0	7601.2	7680.0	9538.9	8370.9
50°	12036.5	11960.4	11185.3	10086.8	9592.3	9378.5	8782.5	8491.2	8512.6	10482.4	9366.5
52.5°	11936.3	11925.6	11408.4	10518.4	10236.5	10383.5	10164.3	9770.1	9561.6	11530.1	10440.9
55°	11699.8	11722.5	11535.4	11020.9	10972.8	11353.7	11969.7	11678.4	11030.3	12587.1	11551.4
57.5°	10877.9	10936.7	11348.3	11653.0	12158.1	12724.8	13423.7	13340.8	12611.2	13729.7	12871.8
60°	8763.8	8900.1	10003.9	11530.1	13378.2	15150.2	15462.9	15270.5	14241.5	15147.6	14615.7
62.5°	6140.5	6282.2	7594.5	9982.6	13177.8	17889.8	19108.5	18278.6	16582.8	17236.3	16872.8
65°	3287.4	3355.6	4357.8	6926.3	11125.1	18455.0	24436.6	23173.7	20289.9	19811.4	18803.8
67.5°	1813.4	1850.8	2234.4	3497.2	7125.4	16251.4	27830.9	28785.0	24923.0	21526.0	18452.4
69°	1639.7	1674.5	1925.7	2648.7	4768.1	13437.0	27499.5	30264.4	26954.2	21356.3	17153.4
70°	1603.6	1635.7	1861.5	2441.5	3859.4	11075.7	26389.0	29886.2	27438.0	20748.2	16020.2
72.5°	1443.3	1478.0	1697.2	2193.0	3298.1	5521.8	20903.2	25269.1	24911.0	17990.0	12151.5
75°	1345.7	1377.8	1749.3	2147.5	3157.8	3494.6	13780.5	18623.4	18312.0	12584.4	6552.1
77.5°	576.0	573.3	811.2	1817.4	3204.6	3383.6	7404.7	11634.3	10614.7	5378.8	1881.6
80°	384.9	378.2	384.9	534.5	2938.6	3402.4	3879.4	5905.3	4460.7	1371.1	927.4
82.5°	331.4	326.1	338.1	326.1	1033.0	3883.4	3298.1	3140.4	2120.8	779.1	459.7
85°	223.2	213.8	291.3	292.7	487.8	3450.5	3715.1	2652.7	1715.9	462.4	227.2
87.5°	106.9	104.2	169.7	207.1	286.0	1401.8	4168.1	2718.1	1730.6	236.5	108.2
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°	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3	7049.3
2.5°	6981.1	6926.3	6872.9	6808.7	6741.9	6667.1	6629.6	6592.2	6582.9	6572.2	6534.8
5°	6788.7	6711.2	6577.5	6430.5	6275.5	6124.5	6009.6	5937.4	5882.6	5854.6	5805.1
7.5°	6540.1	6426.5	6192.7	5938.8	5678.2	5440.3	5234.5	5104.9	4981.9	4924.5	4859.0
10°	6303.6	6133.9	5770.4	5396.2	5022.0	4662.5	4324.4	4085.2	3872.8	3753.8	3669.6
12.5°	6100.5	5867.9	5364.1	4857.6	4344.5	3832.7	3326.2	2928.0	2595.2	2420.1	2330.6
15°	5902.7	5622.0	4977.9	4335.1	3676.3	2980.1	2314.6	1862.9	1587.6	1478.0	1440.6
17.5°	5723.6	5364.1	4590.4	3808.6	2986.7	2144.8	1555.5	1307.0	1201.4	1165.3	1153.3
20°	5529.8	5103.5	4188.1	3258.0	2267.8	1499.4	1214.7	1105.2	1062.4	1051.7	1046.4
22.5°	5342.7	4847.0	3803.3	2668.7	1629.0	1157.3	1043.7	998.3	991.6	1000.9	1000.9
25°	5183.7	4617.1	3387.7	2052.6	1196.0	974.2	934.1	923.4	948.8	983.6	990.2
27.5°	5064.8	4428.7	2945.3	1515.4	952.8	847.2	845.9	863.3	926.1	992.9	1006.3
30°	4983.3	4249.6	2472.3	1093.1	799.1	745.7	767.1	804.5	896.7	991.6	1017.0
32.5°	4941.8	4117.3	1979.1	845.9	684.2	654.8	690.9	736.3	827.2	915.4	948.8
35°	4973.9	4019.8	1514.1	705.6	604.0	581.3	618.7	662.8	716.3	753.7	779.1
37.5°	5094.2	3981.0	1142.6	632.1	549.2	527.9	557.3	582.7	604.0	614.7	626.7
40°	5353.4	4022.4	915.4	594.7	518.5	491.8	503.8	513.2	526.5	537.2	542.6
42.5°	5735.6	4146.7	820.5	580.0	502.5	463.7	461.0	465.1	482.4	502.5	506.5
45°	6270.2	4365.9	813.8	589.3	494.5	441.0	429.0	434.3	461.0	491.8	497.1
47.5°	6953.0	4700.0	867.3	617.4	501.1	429.0	408.9	415.6	449.0	490.4	497.1
50°	7780.2	5166.3	956.8	658.8	530.5	431.6	402.2	406.3	441.0	486.4	493.1
52.5°	8757.1	5827.8	1054.4	698.9	561.3	449.0	407.6	398.2	430.3	470.4	478.4
55°	9843.6	6676.4	1154.6	735.0	577.3	470.4	418.3	387.5	410.3	443.7	450.4
57.5°	11177.3	7863.1	1328.3	769.7	588.0	485.1	429.0	376.9	384.9	408.9	414.3
60°	12982.7	9541.6	1634.4	827.2	612.0	490.4	427.6	367.5	359.5	372.8	375.5
62.5°	15146.2	11364.3	1889.6	899.4	652.1	494.5	419.6	360.8	338.1	338.1	340.8
65°	16430.5	11852.1	1748.0	959.5	685.5	490.4	410.3	354.1	322.1	307.4	308.7
67.5°	15341.3	10423.6	1498.1	971.5	684.2	471.7	395.6	342.1	306.0	283.3	282.0
69°	13976.9	8993.7	1385.8	939.5	652.1	447.7	376.9	328.7	294.0	269.9	268.6
70°	12877.1	8121.0	1312.3	904.7	617.4	430.3	362.2	316.7	284.6	261.9	259.3
72.5°	9362.5	5321.4	1121.2	777.8	509.2	360.8	312.7	278.0	253.9	240.5	237.9
75°	4678.6	2537.7	910.1	630.8	390.2	288.7	256.6	232.5	220.5	217.8	216.5
77.5°	1536.8	1162.6	650.8	470.4	290.0	225.8	207.1	189.8	187.1	195.1	192.4
80°	844.6	676.2	412.9	311.4	197.8	165.7	163.0	153.7	157.7	171.1	168.4
82.5°	430.3	351.5	255.2	187.1	133.6	118.9	129.6	124.3	129.6	141.7	140.3
85°	212.5	192.4	161.7	113.6	88.2	76.2	92.2	96.2	98.9	108.2	108.2
87.5°	122.9	113.6	85.5	53.5	44.1	40.1	53.5	52.1	61.5	66.8	65.5
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)