

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: P192912

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192912
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: GLEON-AF-04-LED-E1-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23224.1 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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



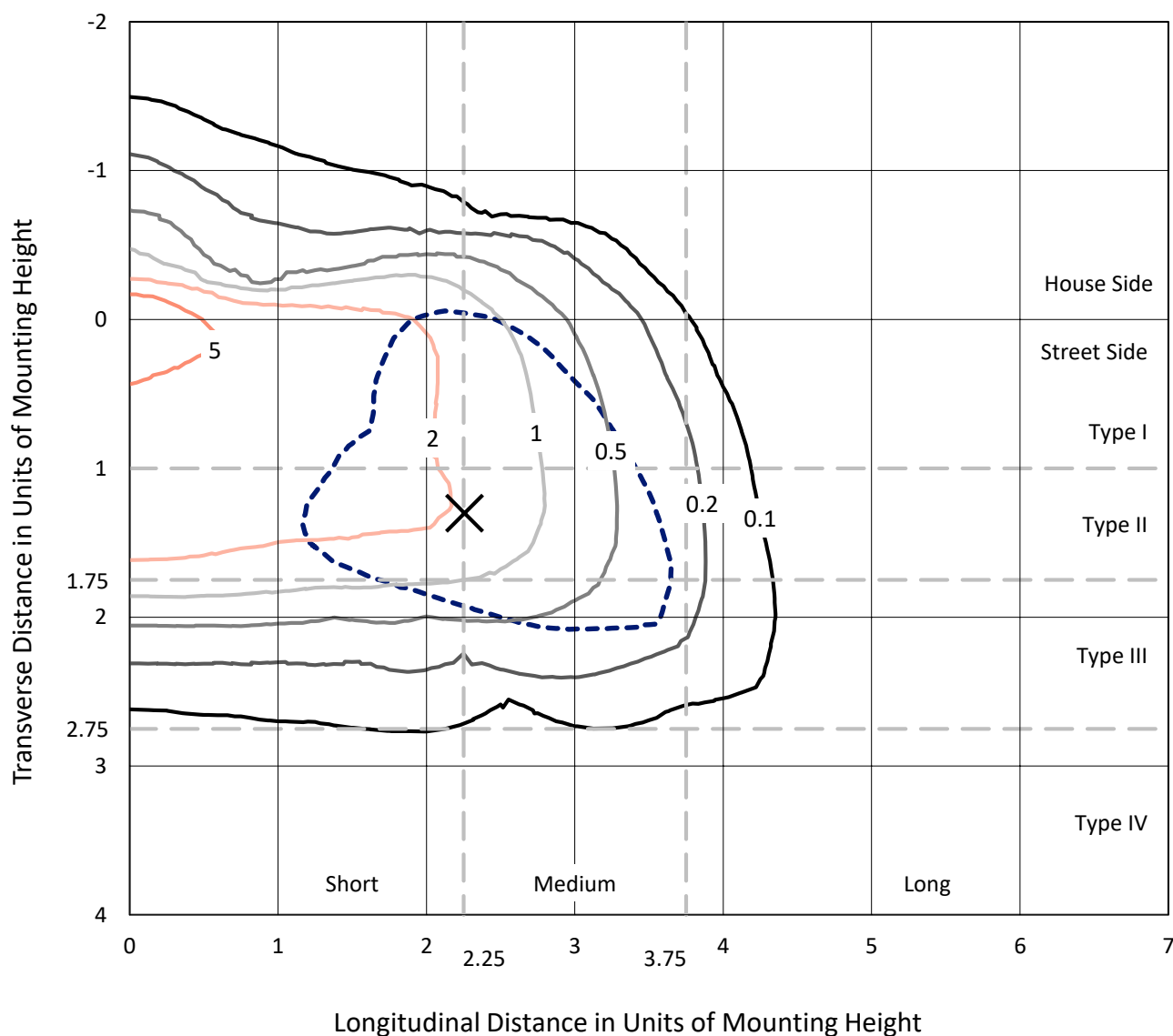
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

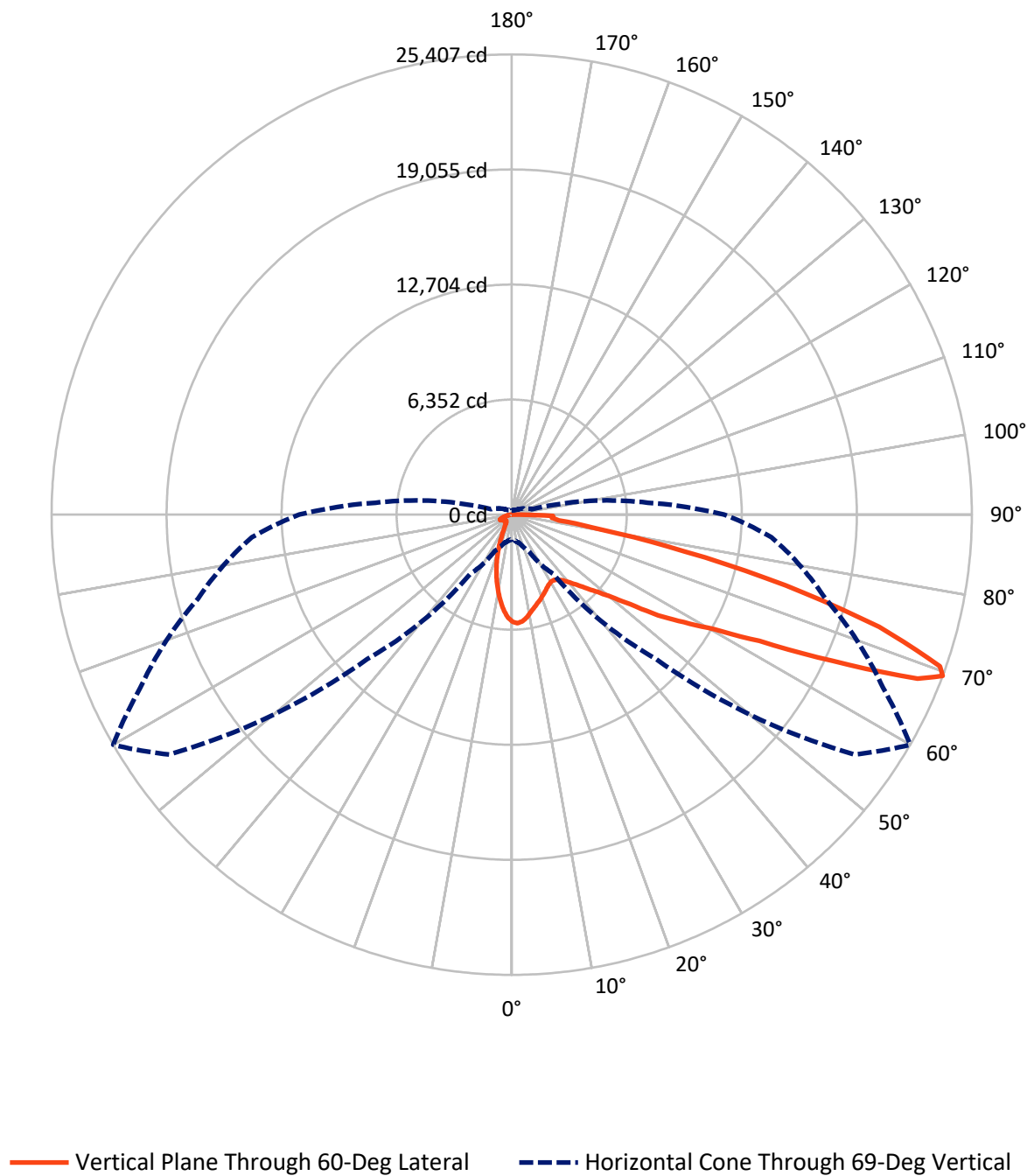


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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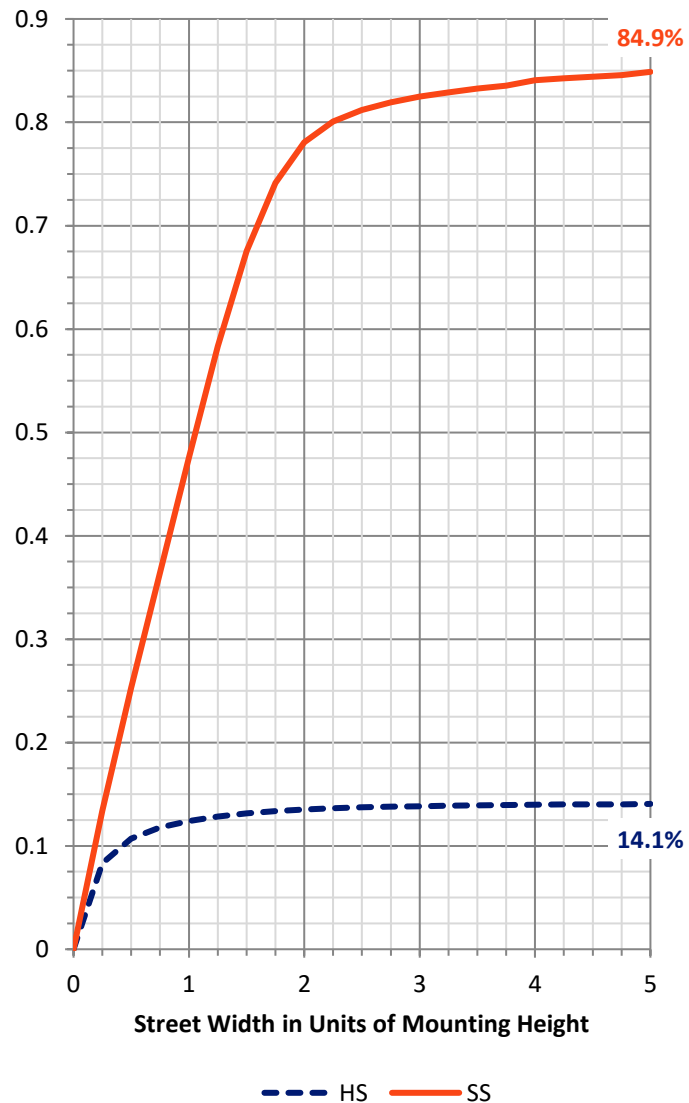
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3304.1	0.0	3304.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19920.1	0.0	19920.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	23224.1	0.0	23224.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.4	2.2
10°-20°	1066.1	4.6
20°-30°	1358.4	5.8
30°-40°	1867.4	8.0
40°-50°	3030.1	13.0
50°-60°	4859.5	20.9
60°-70°	6467.6	27.8
70°-80°	3492.0	15.0
80°-90°	582.7	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°	23224.1	100.0
0°-180°	23224.1	100.0

Coefficient of Utilization



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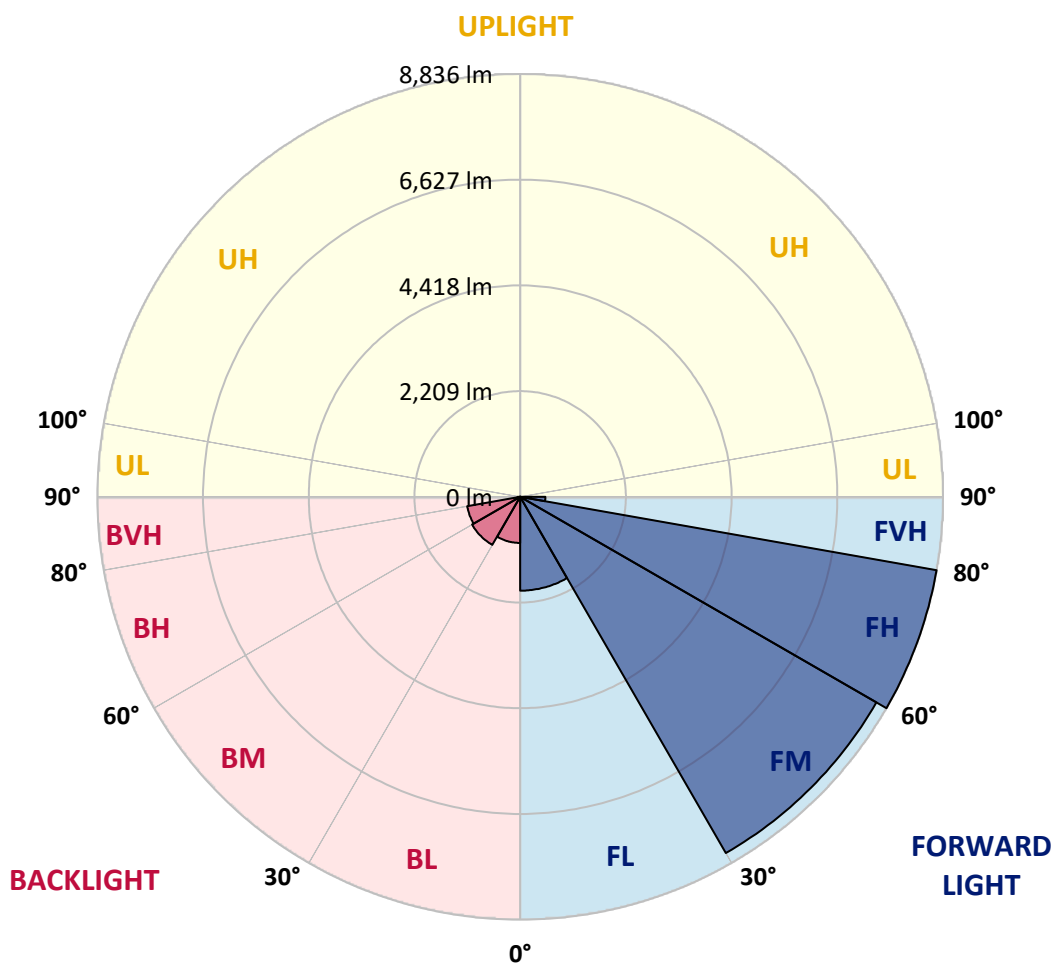
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1961.0	8.4			
FM	(30°-60°)	8596.2	37.0			
FH	(60°-80°)	8836.3	38.0			G4/12000
FVH	(80°-90°)	526.6	2.3			G4/750
BL	(0°-30°)	963.9	4.2	B2/1000		
BM	(30°-60°)	1160.8	5.0	B2/2500		
BH	(60°-80°)	1123.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	56.1	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°	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9
2.5°	6039.0	6052.5	6046.9	6043.5	6053.6	6037.8	6005.3	5995.3	5979.5	5942.5	5879.7
5°	5812.4	5852.8	5850.5	5880.9	5931.3	5944.8	5930.1	5932.4	5903.3	5857.3	5752.9
7.5°	5420.9	5437.8	5446.7	5512.9	5604.9	5678.9	5741.7	5761.9	5748.4	5709.3	5574.6
10°	5016.9	5030.6	5051.8	5129.1	5245.9	5347.9	5466.9	5535.3	5564.5	5557.7	5407.5
12.5°	4670.4	4683.8	4711.8	4799.3	4938.5	5064.1	5236.9	5322.1	5391.7	5433.3	5271.6
15°	4359.6	4388.7	4415.7	4516.7	4672.6	4837.5	5032.7	5140.4	5248.2	5341.2	5151.6
17.5°	4117.2	4146.4	4162.1	4254.1	4420.2	4622.1	4851.0	4977.8	5112.3	5264.9	5032.7
20°	3977.0	3990.4	3983.8	4035.4	4184.6	4398.9	4670.4	4817.3	4979.9	5193.1	4913.8
22.5°	3937.8	3938.9	3914.2	3908.6	4005.1	4185.7	4477.3	4655.7	4855.5	5146.0	4811.7
25°	4033.1	4029.8	3962.4	3907.4	3917.6	4023.0	4291.1	4498.8	4751.1	5135.9	4733.2
27.5°	4245.2	4255.2	4155.4	4052.2	3950.2	3946.8	4149.7	4368.5	4665.8	5181.9	4699.6
30°	4542.5	4559.3	4452.8	4321.4	4129.6	3971.5	4094.8	4291.1	4613.2	5277.3	4693.9
32.5°	4867.8	4885.7	4805.0	4667.0	4415.7	4124.0	4133.0	4297.9	4610.8	5410.7	4732.0
35°	5214.5	5234.6	5193.1	5076.5	4797.1	4405.6	4278.8	4406.8	4683.8	5615.0	4834.1
37.5°	5601.5	5632.9	5644.2	5533.1	5234.6	4777.0	4517.8	4613.2	4848.7	5898.8	5021.4
40°	6159.1	6202.8	6199.5	6040.2	5736.1	5278.5	4886.8	4911.5	5105.6	6278.0	5321.0
42.5°	7227.1	7236.0	6956.7	6610.0	6288.1	5805.7	5322.1	5302.0	5460.1	6758.1	5761.9
45°	8585.7	8548.7	7927.1	7257.3	6864.8	6411.5	5888.7	5789.9	5910.1	7343.8	6313.9
47.5°	9713.1	9627.9	8842.6	7918.1	7475.0	7070.0	6553.9	6381.2	6447.4	8007.9	7027.4
50°	10104.8	10040.7	9390.1	8467.9	8052.7	7873.3	7373.0	7128.4	7146.3	8800.0	7863.2
52.5°	10020.5	10011.5	9577.4	8830.3	8593.6	8716.9	8532.9	8202.0	8026.9	9679.5	8765.3
55°	9822.0	9841.1	9683.9	9252.1	9211.6	9531.4	10048.6	9804.1	9259.9	10566.9	9697.5
57.5°	9132.0	9181.4	9527.0	9782.7	10206.8	10682.5	11269.2	11199.6	10587.1	11526.1	10805.8
60°	7357.2	7471.7	8398.3	9679.5	11231.1	12718.7	12981.2	12819.6	11955.8	12716.3	12270.0
62.5°	5155.0	5274.0	6375.6	8380.4	11062.7	15018.4	16041.7	15344.9	13921.3	14469.9	14164.7
65°	2759.8	2817.0	3658.4	5814.7	9339.6	15493.1	20514.5	19454.3	17033.4	16631.8	15785.9
67.5°	1522.4	1553.7	1875.8	2935.9	5981.8	13643.1	23364.1	24165.1	20922.9	18071.1	15490.8
69°	1376.5	1405.7	1616.6	2223.5	4002.8	11280.4	23085.8	25407.0	22628.1	17928.6	14400.4
70°	1346.3	1373.2	1562.7	2049.7	3240.0	9298.1	22153.6	25089.5	23034.2	17418.1	13448.9
72.5°	1211.5	1240.7	1424.7	1841.0	2768.7	4635.6	17548.3	21213.4	20912.8	15102.6	10201.2
75°	1129.7	1156.6	1468.6	1802.9	2650.9	2933.7	11568.7	15634.4	15373.0	10564.6	5500.5
77.5°	483.5	481.3	681.0	1525.7	2690.3	2840.5	6216.3	9767.0	8910.9	4515.5	1579.6
80°	323.1	317.5	323.1	448.7	2467.0	2856.2	3256.8	4957.5	3744.8	1151.0	778.6
82.5°	278.2	273.7	283.8	273.7	867.2	3260.2	2768.7	2636.4	1780.4	654.0	385.9
85°	187.4	179.5	244.5	245.8	409.5	2896.7	3118.8	2226.9	1440.5	388.2	190.7
87.5°	89.7	87.5	142.5	173.9	240.1	1176.8	3499.1	2281.9	1452.8	198.6	90.9
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°	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9	5917.9
2.5°	5860.6	5814.7	5769.8	5715.9	5659.8	5597.1	5565.5	5534.2	5526.4	5517.4	5485.9
5°	5699.1	5634.1	5521.9	5398.4	5268.3	5141.5	5045.0	4984.5	4938.5	4914.9	4873.4
7.5°	5490.4	5395.1	5198.8	4985.6	4766.9	4567.1	4394.4	4285.5	4182.3	4134.1	4079.0
10°	5291.9	5149.4	4844.2	4530.1	4216.0	3914.2	3630.3	3429.5	3251.2	3151.4	3080.7
12.5°	5121.3	4926.2	4503.2	4078.0	3647.2	3217.5	2792.3	2458.0	2178.6	2031.6	1956.5
15°	4955.4	4719.7	4178.9	3639.3	3086.2	2501.8	1943.0	1563.9	1332.8	1240.7	1209.4
17.5°	4805.0	4503.2	3853.6	3197.4	2507.4	1800.6	1305.8	1097.2	1008.6	978.3	968.1
20°	4642.3	4284.4	3516.0	2735.1	1903.9	1258.7	1019.8	927.8	891.9	883.0	878.5
22.5°	4485.2	4069.1	3192.9	2240.4	1367.6	971.6	876.1	838.0	832.4	840.3	840.3
25°	4351.7	3876.1	2843.9	1723.2	1004.1	817.8	784.2	775.2	796.5	825.7	831.4
27.5°	4252.0	3717.9	2472.6	1272.3	799.9	711.3	710.1	724.7	777.5	833.5	844.8
30°	4183.4	3567.6	2075.5	917.7	670.9	626.0	644.0	675.3	752.8	832.4	853.8
32.5°	4148.7	3456.5	1661.5	710.1	574.3	549.7	580.0	618.2	694.5	768.5	796.5
35°	4175.6	3374.6	1271.1	592.3	507.1	488.1	519.4	556.4	601.4	632.7	654.0
37.5°	4276.5	3342.0	959.2	530.7	461.1	443.1	467.8	489.2	507.1	516.0	526.2
40°	4494.2	3376.8	768.5	499.2	435.3	412.9	423.0	430.8	442.1	451.0	455.5
42.5°	4815.0	3481.1	688.9	486.9	421.8	389.3	387.0	390.4	405.1	421.8	425.2
45°	5263.8	3665.1	683.2	494.7	415.0	370.2	360.1	364.6	387.0	412.9	417.4
47.5°	5837.0	3945.6	728.1	518.3	420.6	360.1	343.3	348.9	377.0	411.7	417.4
50°	6531.5	4337.1	803.3	553.1	445.3	362.4	337.7	341.0	370.2	408.4	414.0
52.5°	7351.6	4892.5	885.1	586.7	471.2	377.0	342.2	334.4	361.2	394.9	401.6
55°	8263.8	5604.9	969.3	617.0	484.7	394.9	351.2	325.4	344.3	372.5	378.0
57.5°	9383.3	6601.1	1115.1	646.2	493.7	407.2	360.1	316.5	323.1	343.3	347.8
60°	10898.9	8010.2	1372.1	694.5	513.8	411.7	359.0	308.5	301.8	313.0	315.2
62.5°	12715.3	9540.4	1586.3	755.0	547.5	415.0	352.3	302.8	283.8	283.8	286.0
65°	13793.4	9949.9	1467.4	805.5	575.5	411.7	344.3	297.3	270.4	258.1	259.2
67.5°	12879.1	8750.6	1257.6	815.6	574.3	396.1	332.0	287.3	256.9	237.8	236.8
69°	11733.7	7550.2	1163.4	788.7	547.5	375.9	316.5	276.0	246.8	226.6	225.5
70°	10810.3	6817.6	1101.7	759.5	518.3	361.2	304.1	265.9	239.0	219.9	217.7
72.5°	7859.8	4467.3	941.3	653.0	427.4	302.8	262.6	233.4	213.2	201.9	199.7
75°	3927.7	2130.4	763.9	529.5	327.6	242.3	215.3	195.2	185.0	182.9	181.7
77.5°	1290.2	976.0	546.3	394.9	243.4	189.6	173.9	159.3	157.2	163.8	161.6
80°	709.0	567.7	346.7	261.3	166.1	139.1	136.9	129.0	132.4	143.5	141.4
82.5°	361.2	295.0	214.2	157.2	112.2	99.9	108.8	104.4	108.8	118.9	117.8
85°	178.4	161.6	135.7	95.4	74.1	63.9	77.3	80.8	83.0	90.9	90.9
87.5°	103.2	95.4	71.8	44.9	37.0	33.7	44.9	43.7	51.6	56.0	54.9
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)