

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: P192903

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192903
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-05-LED-E1-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 23249.3 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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



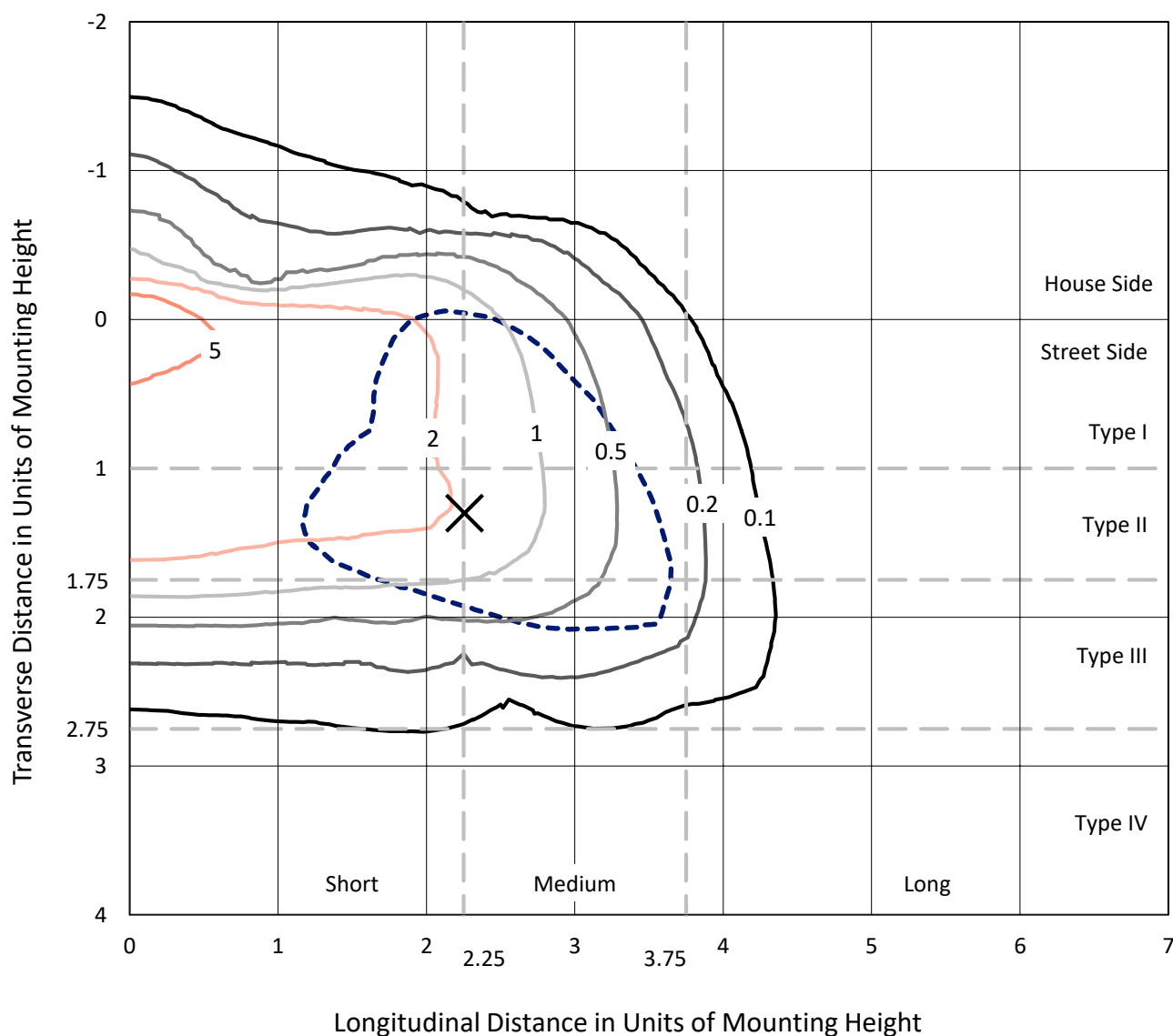
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

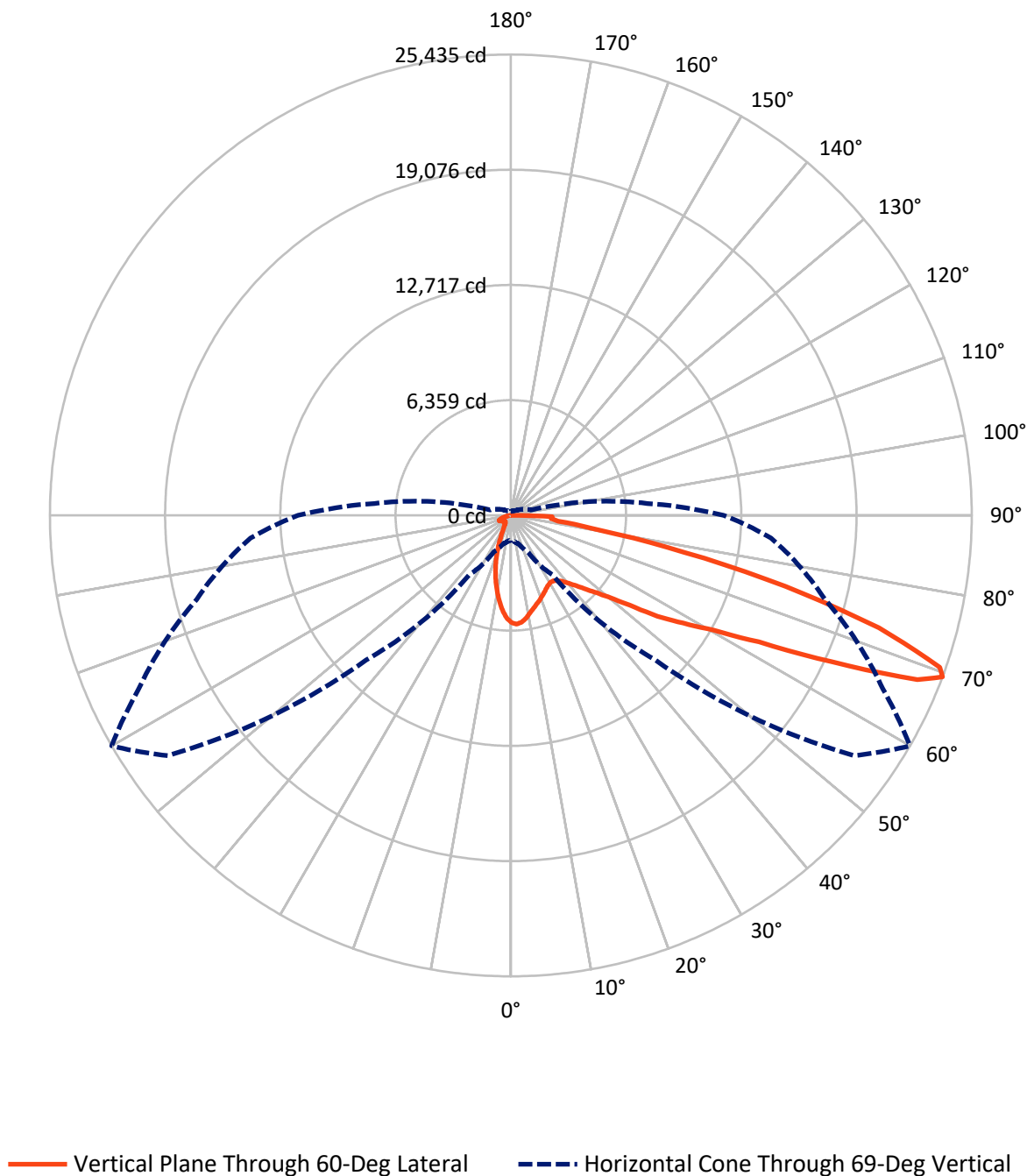


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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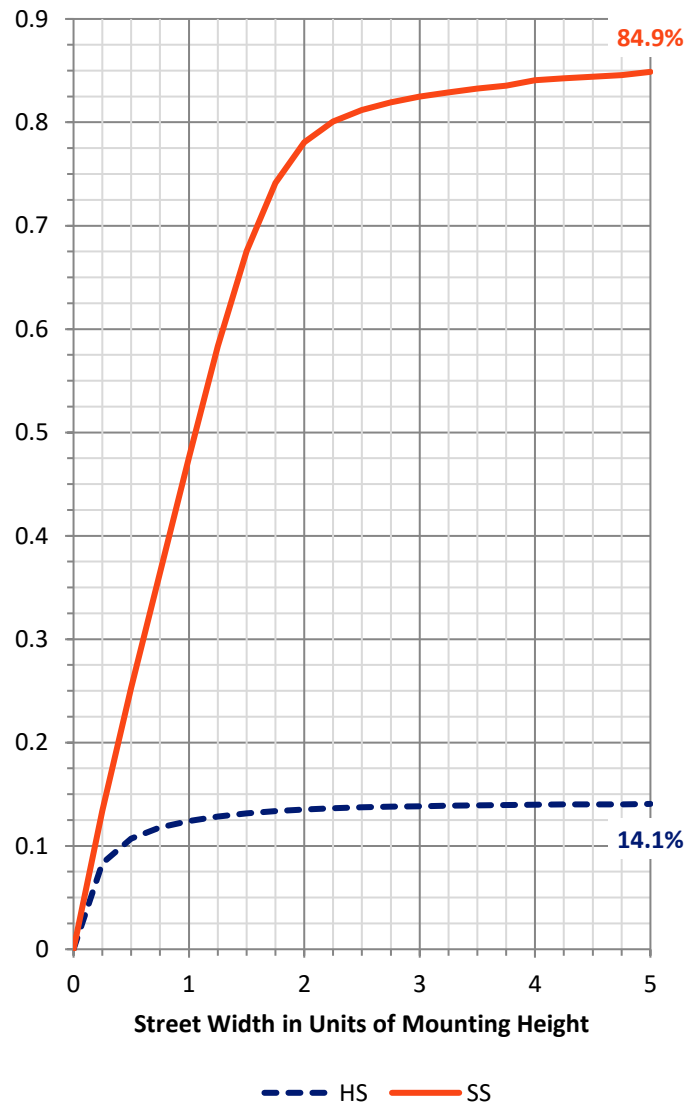
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.6	0.0	3307.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19941.6	0.0	19941.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	23249.3	0.0	23249.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.9	2.2
10°-20°	1067.2	4.6
20°-30°	1359.9	5.8
30°-40°	1869.4	8.0
40°-50°	3033.4	13.0
50°-60°	4864.7	20.9
60°-70°	6474.6	27.8
70°-80°	3495.8	15.0
80°-90°	583.3	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°	23249.3	100.0
0°-180°	23249.3	100.0

Coefficient of Utilization



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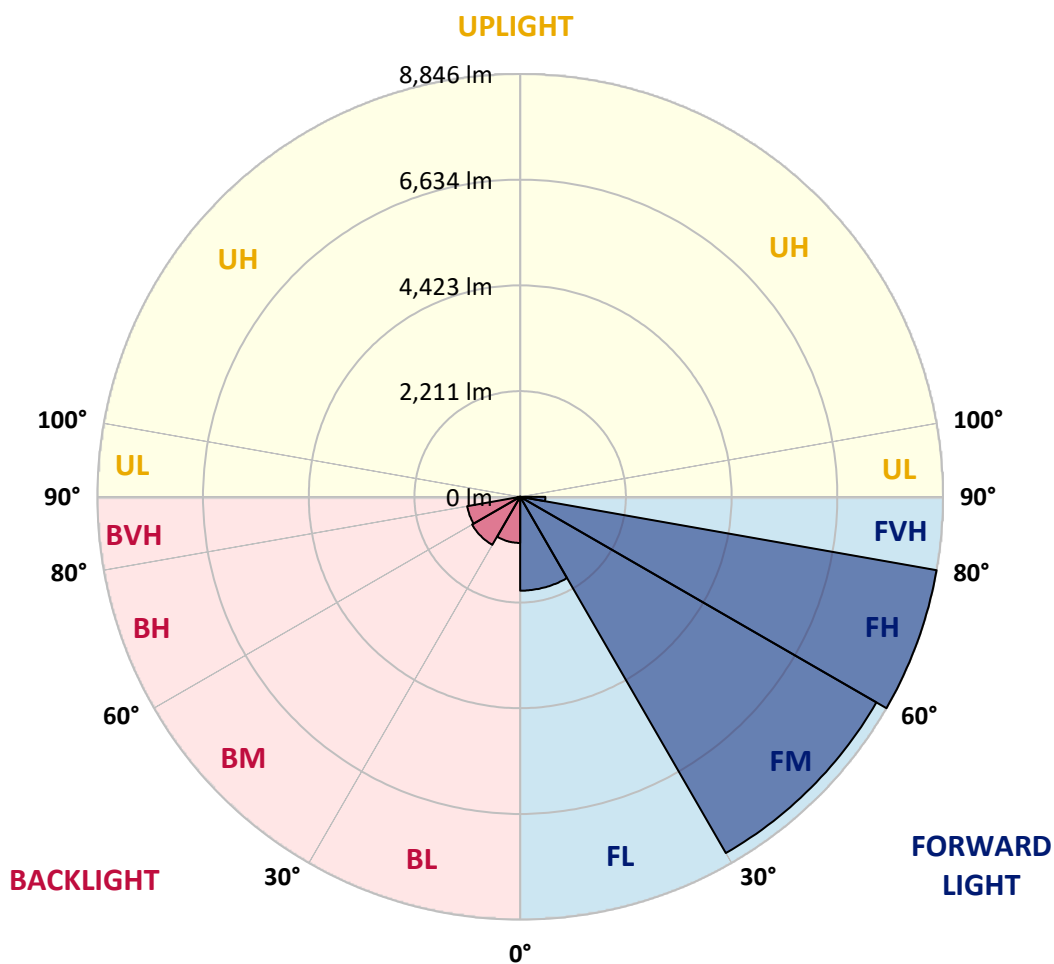
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1963.1	8.4			
FM	(30°-60°)	8605.5	37.0			
FH	(60°-80°)	8845.9	38.0			G4/12000
FVH	(80°-90°)	527.1	2.3			G4/750
BL	(0°-30°)	964.9	4.2	B2/1000		
BM	(30°-60°)	1162.0	5.0	B2/2500		
BH	(60°-80°)	1124.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	56.2	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°	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2
2.5°	6045.6	6059.1	6053.4	6050.0	6060.2	6044.4	6011.9	6001.7	5986.0	5948.9	5886.2
5°	5818.7	5859.1	5856.9	5887.2	5937.7	5951.3	5936.6	5938.9	5909.7	5863.6	5759.2
7.5°	5426.7	5443.7	5452.6	5518.8	5610.9	5685.1	5747.9	5768.2	5754.6	5715.4	5580.6
10°	5022.4	5035.9	5057.3	5134.7	5251.5	5353.7	5472.8	5541.3	5570.5	5563.8	5413.2
12.5°	4675.4	4688.9	4716.9	4804.5	4943.8	5069.6	5242.6	5327.9	5397.5	5439.2	5277.3
15°	4364.3	4393.6	4420.4	4521.5	4677.6	4842.7	5038.2	5146.0	5253.8	5347.0	5157.2
17.5°	4121.7	4150.9	4166.6	4258.7	4425.0	4627.1	4856.2	4983.1	5117.9	5270.6	5038.2
20°	3981.3	3994.8	3988.1	4039.8	4189.1	4403.5	4675.4	4822.4	4985.4	5198.8	4919.1
22.5°	3942.1	3943.1	3918.5	3912.8	4009.4	4190.2	4482.3	4660.8	4860.7	5151.6	4816.9
25°	4037.4	4034.1	3966.7	3911.7	3921.9	4027.4	4295.7	4503.5	4756.3	5141.5	4738.2
27.5°	4249.7	4259.9	4159.9	4056.6	3954.4	3951.1	4154.2	4373.3	4671.0	5187.5	4704.6
30°	4547.4	4564.2	4457.6	4326.1	4134.1	3975.7	4099.3	4295.7	4618.2	5283.0	4699.0
32.5°	4873.1	4891.0	4810.1	4672.0	4420.4	4128.5	4137.4	4302.5	4615.8	5416.6	4737.2
35°	5220.1	5240.3	5198.8	5081.9	4802.3	4410.4	4283.4	4411.5	4688.9	5621.1	4839.4
37.5°	5607.5	5639.0	5650.3	5539.0	5240.3	4782.1	4522.7	4618.2	4854.0	5905.1	5026.9
40°	6165.7	6209.5	6206.2	6046.7	5742.3	5284.1	4892.2	4916.8	5111.1	6284.8	5326.8
42.5°	7234.9	7243.9	6964.3	6617.2	6294.9	5811.9	5327.9	5307.7	5466.0	6765.5	5768.2
45°	8595.0	8557.9	7935.7	7265.2	6872.2	6418.4	5895.1	5796.2	5916.4	7351.7	6320.7
47.5°	9723.6	9638.3	8852.1	7926.8	7483.0	7077.7	6561.0	6388.1	6454.4	8016.6	7034.9
50°	10115.7	10051.7	9400.2	8477.0	8061.4	7881.9	7380.9	7136.0	7154.1	8809.5	7871.7
52.5°	10031.4	10022.4	9587.7	8839.8	8602.8	8726.3	8542.2	8210.9	8035.7	9689.9	8774.6
55°	9832.6	9851.7	9694.5	9262.1	9221.6	9541.7	10059.5	9814.6	9269.9	10578.4	9707.9
57.5°	9141.9	9191.3	9537.2	9793.4	10217.8	10694.0	11281.3	11211.7	10598.5	11538.6	10817.5
60°	7365.1	7479.8	8407.4	9689.9	11243.3	12732.4	12995.2	12833.5	11968.7	12730.2	12283.2
62.5°	5160.6	5279.6	6382.5	8389.5	11074.7	15034.7	16059.0	15361.6	13936.3	14485.6	14180.1
65°	2762.8	2820.1	3662.4	5820.9	9349.7	15509.8	20536.7	19475.4	17051.8	16649.7	15802.9
67.5°	1524.0	1555.6	1877.8	2939.1	5988.3	13657.9	23389.3	24191.2	20945.5	18090.6	15507.5
69°	1378.0	1407.3	1618.3	2225.9	4007.2	11292.6	23110.8	25434.5	22652.6	17948.0	14415.8
70°	1347.7	1374.7	1564.5	2051.9	3243.5	9308.2	22177.6	25116.6	23059.1	17437.0	13463.6
72.5°	1212.9	1242.2	1426.3	1842.9	2771.8	4640.6	17567.2	21236.4	20935.3	15119.0	10212.3
75°	1131.0	1157.9	1470.1	1804.8	2653.8	2936.9	11581.3	15651.3	15389.6	10576.1	5506.4
77.5°	484.0	481.9	681.7	1527.5	2693.1	2843.7	6223.0	9777.6	8920.7	4520.4	1581.3
80°	323.4	317.8	323.4	449.3	2469.7	2859.5	3260.3	4962.9	3748.9	1152.2	779.4
82.5°	278.5	274.0	284.2	274.0	868.2	3263.7	2771.8	2639.2	1782.3	654.8	386.3
85°	187.6	179.7	244.8	246.0	409.9	2899.8	3122.2	2229.3	1442.0	388.6	190.8
87.5°	89.8	87.6	142.6	174.0	240.4	1178.2	3502.9	2284.4	1454.4	198.8	91.0
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°	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2	5924.2
2.5°	5867.0	5820.9	5776.0	5722.1	5665.9	5603.1	5571.5	5540.2	5532.4	5523.3	5491.9
5°	5705.3	5640.2	5527.9	5404.3	5274.1	5147.1	5050.5	4989.9	4943.8	4920.3	4878.7
7.5°	5496.4	5400.9	5204.3	4991.0	4772.0	4572.1	4399.1	4290.2	4186.9	4138.5	4083.6
10°	5297.6	5155.0	4849.5	4535.1	4220.5	3918.5	3634.3	3433.3	3254.8	3154.8	3084.0
12.5°	5126.9	4931.4	4508.0	4082.4	3651.1	3221.0	2795.4	2460.6	2181.1	2033.9	1958.7
15°	4960.7	4724.8	4183.5	3643.2	3089.7	2504.4	1945.2	1565.5	1334.3	1242.2	1210.7
17.5°	4810.1	4508.0	3857.8	3200.7	2510.1	1802.6	1307.3	1098.4	1009.7	979.3	969.2
20°	4647.4	4289.1	3519.8	2738.0	1905.9	1260.1	1020.9	928.8	892.8	883.9	879.4
22.5°	4490.1	4073.4	3196.3	2242.8	1369.0	972.6	877.2	838.9	833.3	841.2	841.2
25°	4356.5	3880.3	2847.0	1725.1	1005.1	818.7	785.0	776.1	797.4	826.5	832.2
27.5°	4256.5	3721.9	2475.3	1273.5	800.8	712.1	710.9	725.5	778.3	834.4	845.6
30°	4188.0	3571.3	2077.7	918.7	671.6	626.7	644.6	676.1	753.6	833.3	854.6
32.5°	4153.2	3460.2	1663.3	710.9	575.0	550.3	580.6	618.9	695.2	769.3	797.4
35°	4180.2	3378.2	1272.5	592.9	507.6	488.5	520.0	557.0	602.0	633.3	654.8
37.5°	4281.3	3345.6	960.3	531.2	461.6	443.6	468.2	489.7	507.6	516.6	526.7
40°	4499.1	3380.5	769.3	499.8	435.7	413.3	423.4	431.2	442.5	451.5	455.9
42.5°	4820.3	3485.0	689.5	487.4	422.3	389.7	387.5	390.8	405.5	422.3	425.7
45°	5269.5	3669.2	684.0	495.3	415.5	370.6	360.5	365.0	387.5	413.3	417.8
47.5°	5843.4	3949.9	728.9	518.9	421.2	360.5	343.6	349.3	377.4	412.1	417.8
50°	6538.6	4341.9	804.1	553.7	445.9	362.7	338.0	341.4	370.6	408.8	414.4
52.5°	7359.6	4897.8	886.1	587.4	471.7	377.4	342.5	334.7	361.6	395.3	402.1
55°	8272.7	5610.9	970.3	617.7	485.2	395.3	351.5	325.7	344.8	372.9	378.5
57.5°	9393.4	6608.2	1116.3	647.0	494.2	407.6	360.5	316.8	323.4	343.6	348.2
60°	10910.7	8018.9	1373.5	695.2	514.4	412.1	359.4	308.8	302.1	313.3	315.5
62.5°	12729.0	9550.7	1588.1	755.8	548.1	415.5	352.7	303.2	284.2	284.2	286.4
65°	13808.3	9960.6	1469.0	806.4	576.2	412.1	344.8	297.6	270.6	258.3	259.4
67.5°	12893.0	8760.1	1259.0	816.5	575.0	396.5	332.4	287.5	257.2	238.0	237.0
69°	11746.4	7558.3	1164.6	789.5	548.1	376.2	316.8	276.3	247.0	226.8	225.7
70°	10822.0	6825.0	1102.9	760.3	518.9	361.6	304.4	266.1	239.2	220.1	217.9
72.5°	7868.3	4472.1	942.3	653.6	427.9	303.2	262.8	233.6	213.4	202.1	200.0
75°	3931.9	2132.7	764.9	530.1	327.9	242.5	215.7	195.5	185.3	183.0	181.9
77.5°	1291.6	977.1	547.0	395.3	243.7	189.8	174.0	159.5	157.3	164.0	161.7
80°	709.7	568.2	347.0	261.6	166.2	139.3	137.0	129.2	132.5	143.7	141.5
82.5°	361.6	295.3	214.4	157.3	112.3	100.0	108.9	104.5	108.9	119.1	117.9
85°	178.5	161.7	135.9	95.5	74.1	64.0	77.5	80.9	83.1	91.0	91.0
87.5°	103.4	95.5	71.9	44.9	37.0	33.7	44.9	43.8	51.7	56.2	55.0
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)