

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: P192913

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192913
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 28775.6 lumens
Efficiency: N/A
Efficacy: 103.1 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): 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

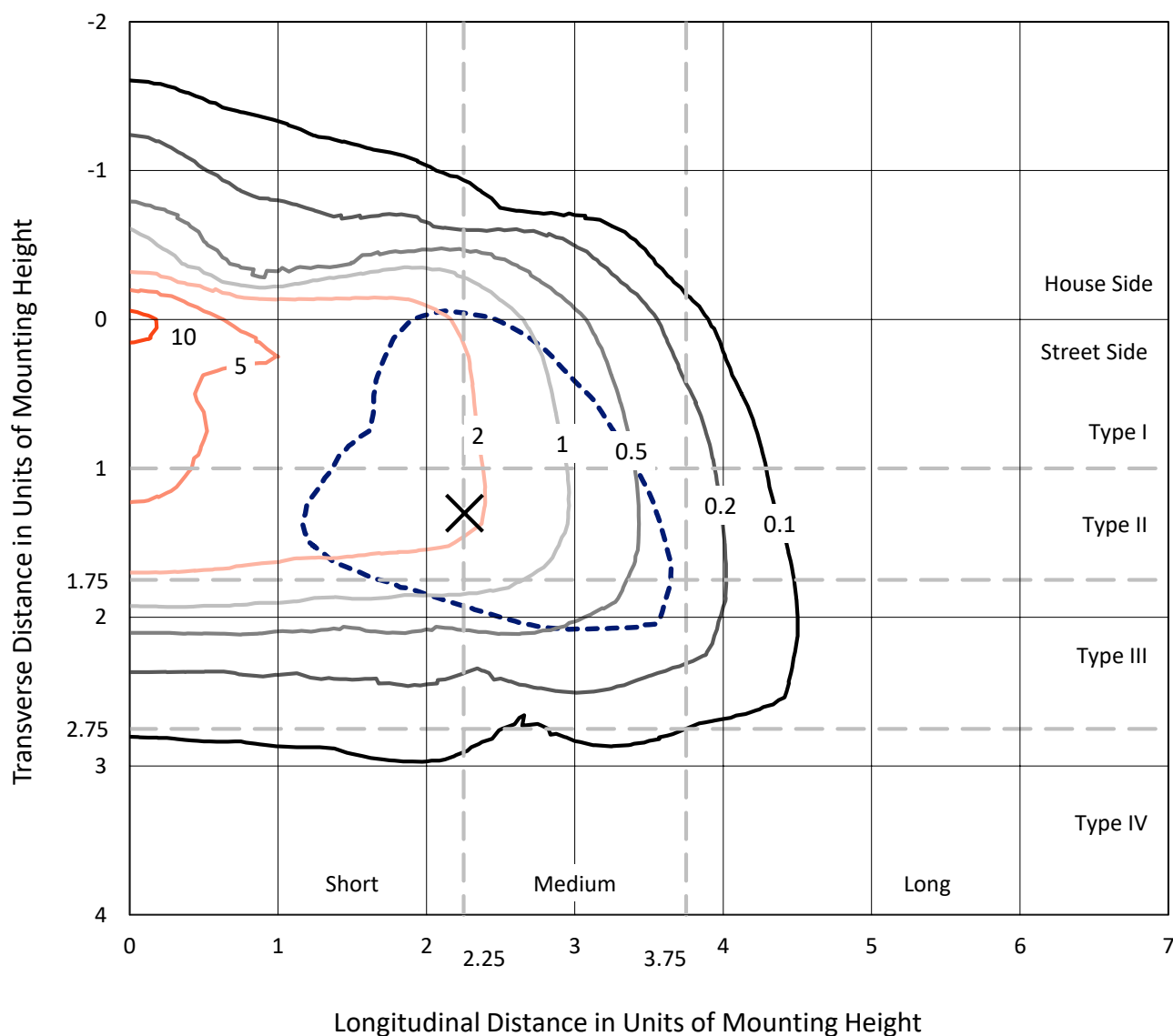


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

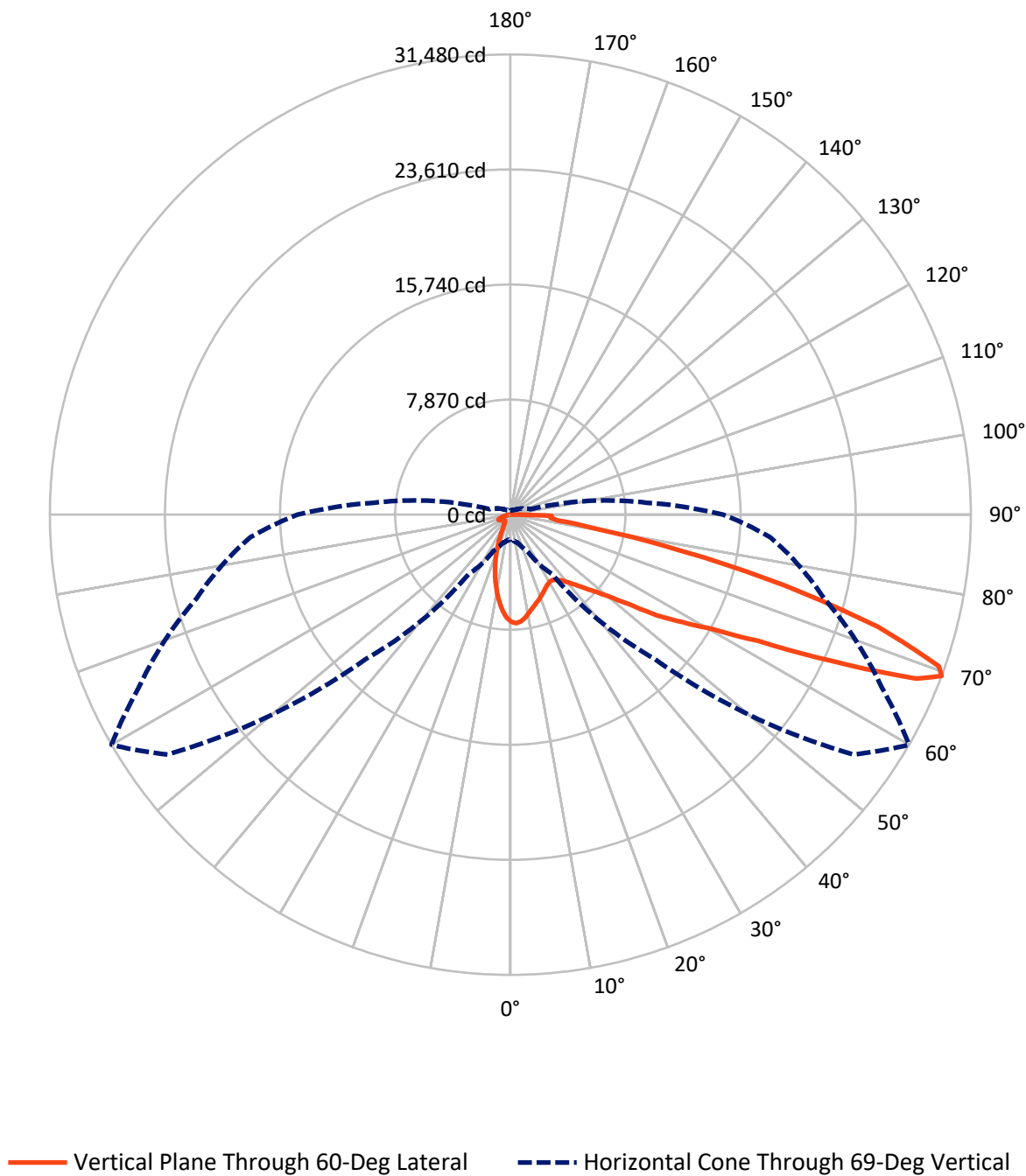


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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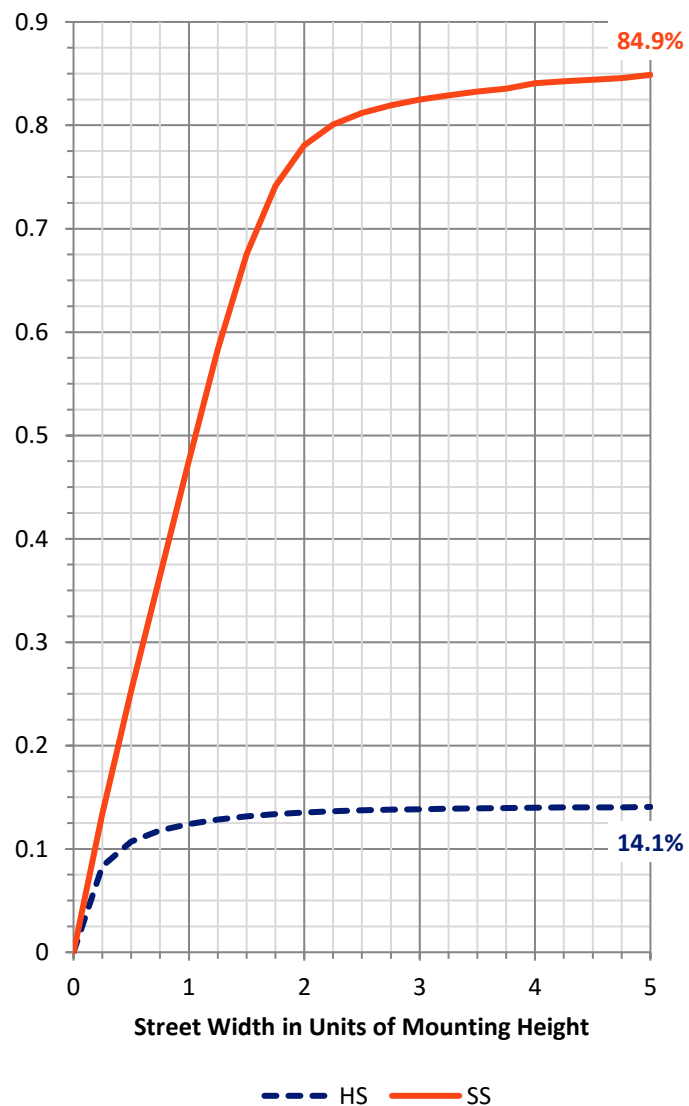
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4093.9	0.0	4093.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24681.8	0.0	24681.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	28775.6	0.0	28775.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.0	2.2
10°-20°	1320.9	4.6
20°-30°	1683.1	5.8
30°-40°	2313.8	8.0
40°-50°	3754.4	13.0
50°-60°	6021.1	20.9
60°-70°	8013.6	27.8
70°-80°	4326.7	15.0
80°-90°	721.9	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°	28775.6	100.0
0°-180°	28775.6	100.0

Coefficient of Utilization



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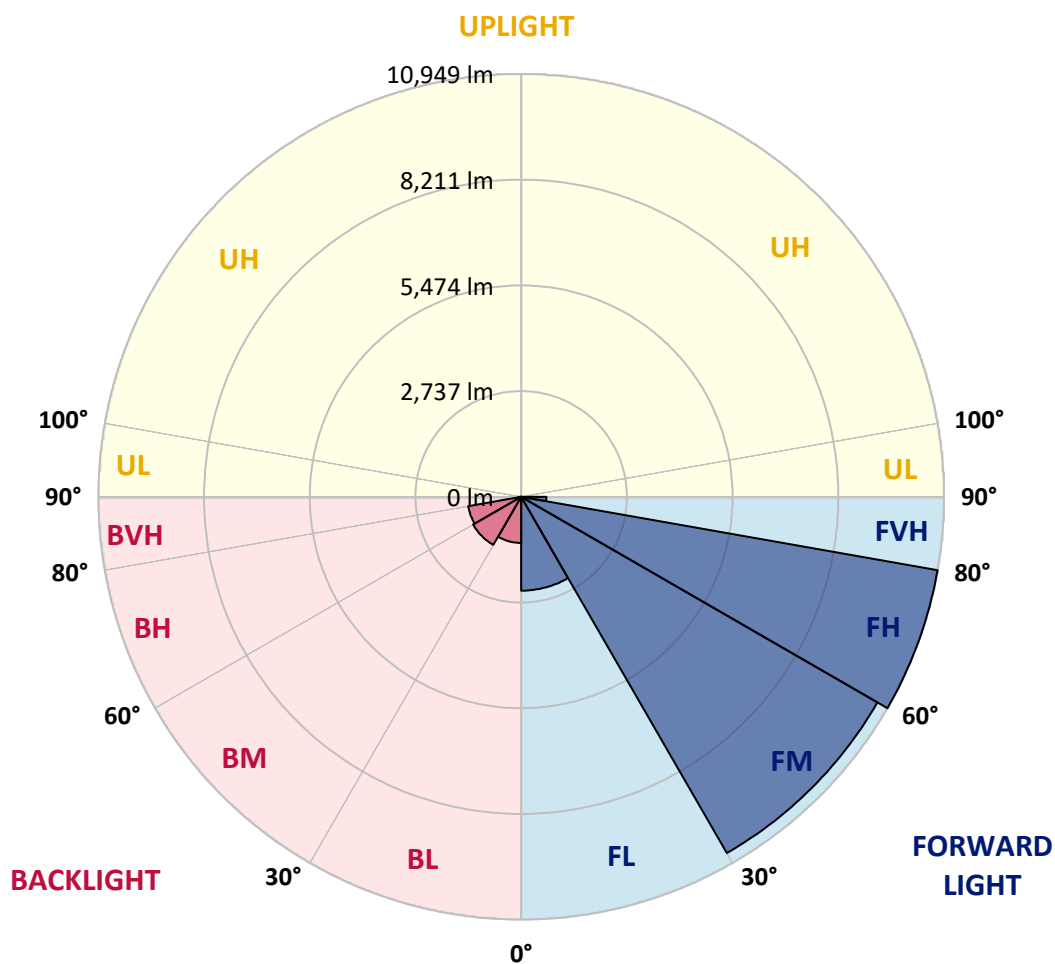
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2429.7	8.4			
FM	(30°-60°)	10651.1	37.0			
FH	(60°-80°)	10948.6	38.0			G4/12000
FVH	(80°-90°)	652.4	2.3			G4/750
BL	(0°-30°)	1194.3	4.2	B3/2500		
BM	(30°-60°)	1438.3	5.0	B2/2500		
BH	(60°-80°)	1391.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	69.5	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°	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5
2.5°	7482.6	7499.2	7492.4	7488.2	7500.6	7481.2	7440.9	7428.4	7408.9	7363.1	7285.2
5°	7201.9	7251.9	7249.1	7286.6	7349.1	7365.8	7347.8	7350.5	7314.4	7257.4	7128.1
7.5°	6716.7	6737.5	6748.6	6830.7	6944.6	7036.4	7114.2	7139.2	7122.6	7073.9	6907.2
10°	6216.3	6232.9	6259.4	6355.3	6499.9	6626.3	6773.6	6858.4	6894.6	6886.3	6700.0
12.5°	5786.7	5803.5	5838.2	5946.6	6118.9	6274.6	6488.7	6594.4	6680.5	6732.0	6531.8
15°	5401.7	5437.9	5471.1	5596.3	5789.5	5993.9	6235.8	6369.2	6502.6	6618.0	6383.0
17.5°	5101.5	5137.6	5157.0	5271.0	5476.7	5727.0	6010.6	6167.5	6334.5	6523.5	6235.8
20°	4927.7	4944.4	4936.0	4999.9	5184.9	5450.4	5786.7	5968.9	6170.4	6434.5	6088.4
22.5°	4879.1	4880.4	4849.8	4842.9	4962.4	5186.2	5547.6	5768.7	6016.2	6376.2	5961.8
25°	4997.2	4993.0	4909.7	4841.5	4854.1	4984.7	5316.9	5574.1	5886.8	6363.6	5864.6
27.5°	5260.0	5272.5	5148.8	5020.8	4894.4	4890.1	5141.7	5412.8	5781.1	6420.6	5822.9
30°	5628.3	5649.1	5517.0	5354.5	5116.7	4920.7	5073.7	5316.9	5715.9	6538.7	5816.0
32.5°	6031.4	6053.6	5953.5	5782.5	5471.1	5109.8	5120.9	5325.3	5713.0	6704.1	5863.2
35°	6460.9	6485.9	6434.5	6289.9	5943.8	5458.7	5301.6	5460.1	5803.5	6957.2	5989.7
37.5°	6940.4	6979.4	6993.2	6855.7	6485.9	5918.8	5597.7	5715.9	6007.7	7308.8	6221.8
40°	7631.3	7685.6	7681.4	7483.9	7107.4	6540.2	6055.0	6085.6	6326.1	7778.7	6592.9
42.5°	8954.7	8965.7	8619.7	8190.1	7791.2	7193.4	6594.4	6569.3	6765.4	8373.6	7139.2
45°	10638.0	10592.1	9822.0	8992.1	8505.7	7944.1	7296.4	7174.0	7322.8	9099.2	7823.2
47.5°	12035.0	11929.4	10956.3	9810.9	9261.8	8760.1	8120.5	7906.5	7988.6	9922.2	8707.2
50°	12520.1	12441.0	11634.7	10492.0	9977.7	9755.3	9135.3	8832.3	8854.6	10903.5	9742.7
52.5°	12415.9	12404.7	11866.7	10941.0	10647.8	10800.6	10572.7	10162.5	9945.8	11993.3	10860.4
55°	12169.9	12193.5	11998.9	11463.7	11413.7	11809.9	12450.6	12147.6	11473.5	13092.7	12015.5
57.5°	11314.9	11376.1	11804.3	12121.1	12646.5	13236.0	13963.0	13876.8	13117.7	14281.3	13388.8
60°	9115.9	9257.6	10405.9	11993.3	13915.7	15758.9	16084.2	15884.0	14813.7	15756.1	15202.9
62.5°	6387.2	6534.6	7899.6	10383.6	13707.2	18608.5	19876.2	19013.0	17249.0	17928.8	17550.7
65°	3419.5	3490.4	4532.9	7204.5	11572.0	19196.5	25418.3	24104.7	21104.9	20607.4	19559.3
67.5°	1886.3	1925.2	2324.2	3637.8	7411.7	16904.3	28949.0	29941.5	25924.3	22390.7	19193.7
69°	1705.5	1741.7	2003.0	2755.1	4959.8	13976.9	28604.3	31480.3	28037.1	22214.3	17842.6
70°	1668.1	1701.3	1936.3	2539.6	4014.4	11520.7	27449.1	31086.9	28540.2	21581.8	16663.7
72.5°	1501.2	1537.4	1765.3	2281.0	3430.6	5743.6	21743.0	26284.3	25911.7	18712.8	12639.6
75°	1399.7	1433.2	1819.6	2233.8	3284.7	3634.9	14334.0	19371.5	19047.7	13090.1	6815.4
77.5°	599.1	596.3	843.7	1890.4	3333.3	3519.6	7702.2	12101.7	11041.0	5594.9	1957.2
80°	400.3	393.4	400.3	556.0	3056.7	3539.0	4035.3	6142.5	4639.9	1426.2	964.6
82.5°	344.7	339.1	351.7	339.1	1074.4	4039.5	3430.6	3266.7	2206.0	810.3	478.2
85°	232.1	222.5	302.9	304.4	507.4	3589.0	3864.3	2759.3	1784.9	481.0	236.3
87.5°	111.2	108.3	176.6	215.5	297.5	1458.2	4335.5	2827.3	1800.1	246.1	112.6
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°	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5	7332.5
2.5°	7261.6	7204.5	7149.0	7082.3	7012.8	6934.9	6896.0	6857.1	6847.4	6836.3	6797.3
5°	7061.4	6980.8	6841.9	6688.9	6527.5	6370.6	6251.0	6176.0	6118.9	6089.8	6038.3
7.5°	6802.8	6684.7	6441.5	6177.3	5906.2	5658.9	5444.8	5310.0	5182.0	5122.3	5054.3
10°	6556.8	6380.3	6002.1	5612.9	5223.8	4849.8	4498.2	4249.3	4028.4	3904.6	3817.1
12.5°	6345.6	6103.7	5579.7	5052.8	4519.1	3986.7	3459.8	3045.6	2699.5	2517.4	2424.3
15°	6139.9	5847.9	5177.9	4509.2	3824.0	3099.8	2407.5	1937.7	1651.4	1537.4	1498.5
17.5°	5953.5	5579.7	4774.7	3961.6	3106.8	2231.0	1618.0	1359.5	1249.6	1212.1	1199.5
20°	5752.0	5308.6	4356.3	3388.9	2358.9	1559.6	1263.6	1149.5	1105.0	1094.0	1088.4
22.5°	5557.4	5041.7	3956.1	2776.0	1694.5	1203.8	1085.6	1038.4	1031.4	1041.1	1041.1
25°	5392.0	4802.6	3523.7	2135.2	1244.1	1013.4	971.7	960.5	986.9	1023.1	1030.0
27.5°	5268.3	4606.6	3063.6	1576.3	991.1	881.2	879.9	898.0	963.3	1032.8	1046.7
30°	5183.5	4420.3	2571.5	1137.1	831.3	775.6	797.9	836.8	932.7	1031.4	1057.8
32.5°	5140.3	4282.8	2058.7	879.9	711.8	681.1	718.6	765.9	860.4	952.2	986.9
35°	5173.8	4181.3	1574.9	733.9	628.4	604.6	643.5	689.4	745.0	783.9	810.3
37.5°	5298.8	4140.9	1188.5	657.5	571.3	549.0	579.6	606.1	628.4	639.3	651.9
40°	5568.5	4184.0	952.2	618.5	539.3	511.6	524.0	533.7	547.7	558.8	564.4
42.5°	5966.1	4313.3	853.6	603.3	522.7	482.4	479.5	483.7	501.8	522.7	526.8
45°	6522.1	4541.3	846.5	613.1	514.3	458.7	446.3	451.8	479.5	511.6	517.2
47.5°	7232.4	4888.8	902.2	642.2	521.2	446.3	425.3	432.3	467.1	510.1	517.2
50°	8092.9	5373.9	995.3	685.3	551.9	448.9	418.4	422.7	458.7	506.0	513.0
52.5°	9109.0	6061.9	1096.8	727.0	583.8	467.1	423.9	414.2	447.6	489.3	497.6
55°	10239.0	6944.6	1201.0	764.5	600.5	489.3	435.1	403.0	426.7	461.5	468.4
57.5°	11626.3	8179.0	1381.7	800.7	611.7	504.6	446.3	392.0	400.3	425.3	430.9
60°	13504.2	9924.9	1700.0	860.4	636.7	510.1	444.8	382.3	373.8	387.9	390.6
62.5°	15754.7	11820.9	1965.5	935.5	678.4	514.3	436.5	375.3	351.7	351.7	354.4
65°	17090.6	12328.3	1818.2	998.1	713.1	510.1	426.7	368.3	335.0	319.7	321.1
67.5°	15957.7	10842.4	1558.2	1010.5	711.8	490.7	411.5	355.8	318.3	294.7	293.3
69°	14538.5	9355.0	1441.4	977.3	678.4	465.7	392.0	342.0	305.8	280.8	279.3
70°	13394.4	8447.3	1364.9	941.0	642.2	447.6	376.7	329.4	296.1	272.5	269.7
72.5°	9738.6	5535.2	1166.3	808.9	529.6	375.3	325.3	289.1	264.1	250.2	247.5
75°	4866.5	2639.7	946.6	656.1	405.9	300.3	266.9	241.9	229.3	226.6	225.2
77.5°	1598.6	1209.3	677.0	489.3	301.7	234.9	215.5	197.4	194.6	202.9	200.2
80°	878.6	703.4	429.5	323.9	205.7	172.4	169.6	159.8	164.0	177.9	175.2
82.5°	447.6	365.6	265.5	194.6	139.0	123.7	134.8	129.3	134.8	147.4	146.0
85°	221.0	200.2	168.2	118.1	91.8	79.2	95.9	100.1	102.8	112.6	112.6
87.5°	127.9	118.1	88.9	55.6	45.9	41.7	55.6	54.2	63.9	69.5	68.1
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)