

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: P194504

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194504
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-06-LED-E1-SL3-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 28766 lumens
Efficiency: N/A
Efficacy: 115.5 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): 249
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

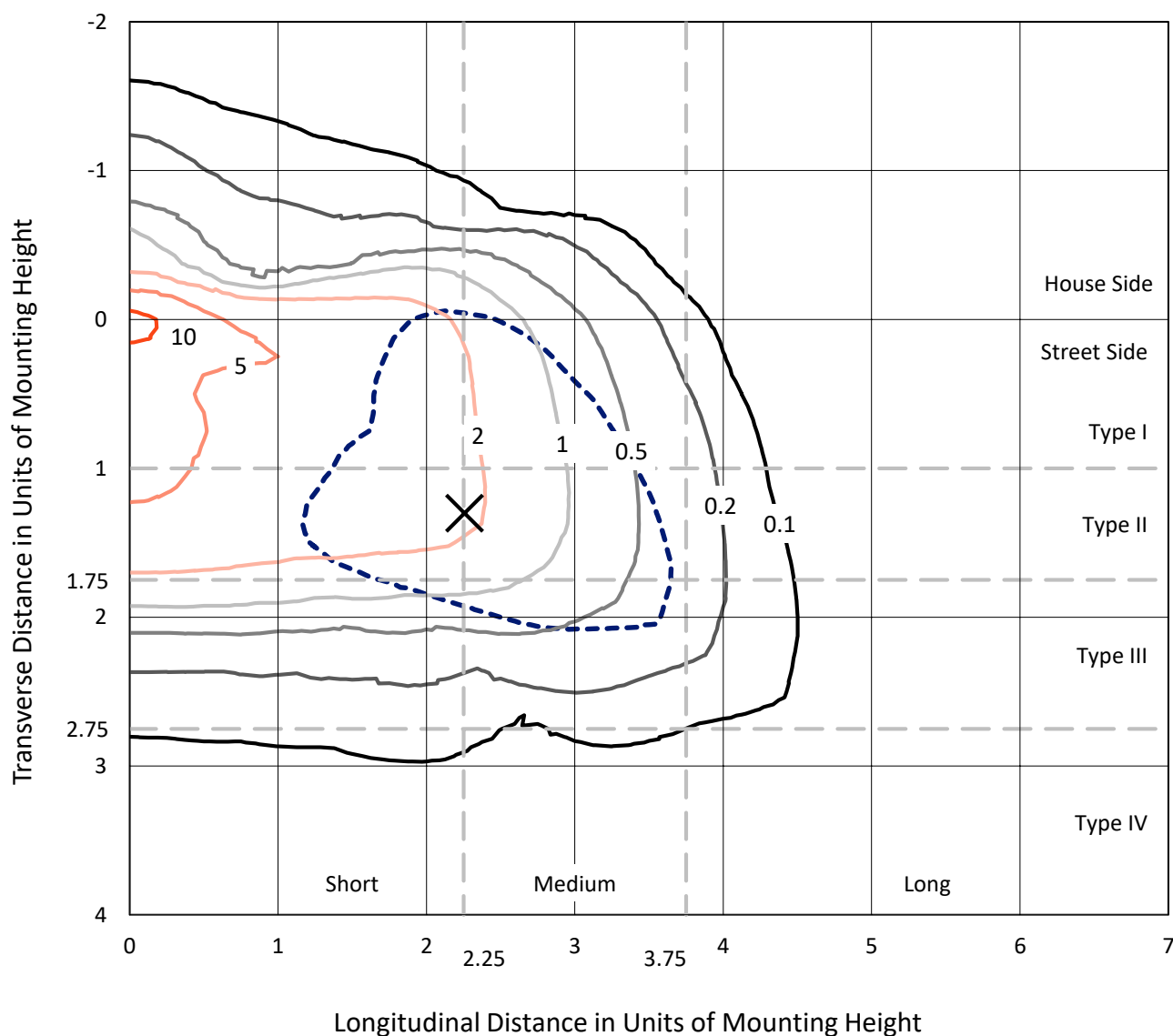


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

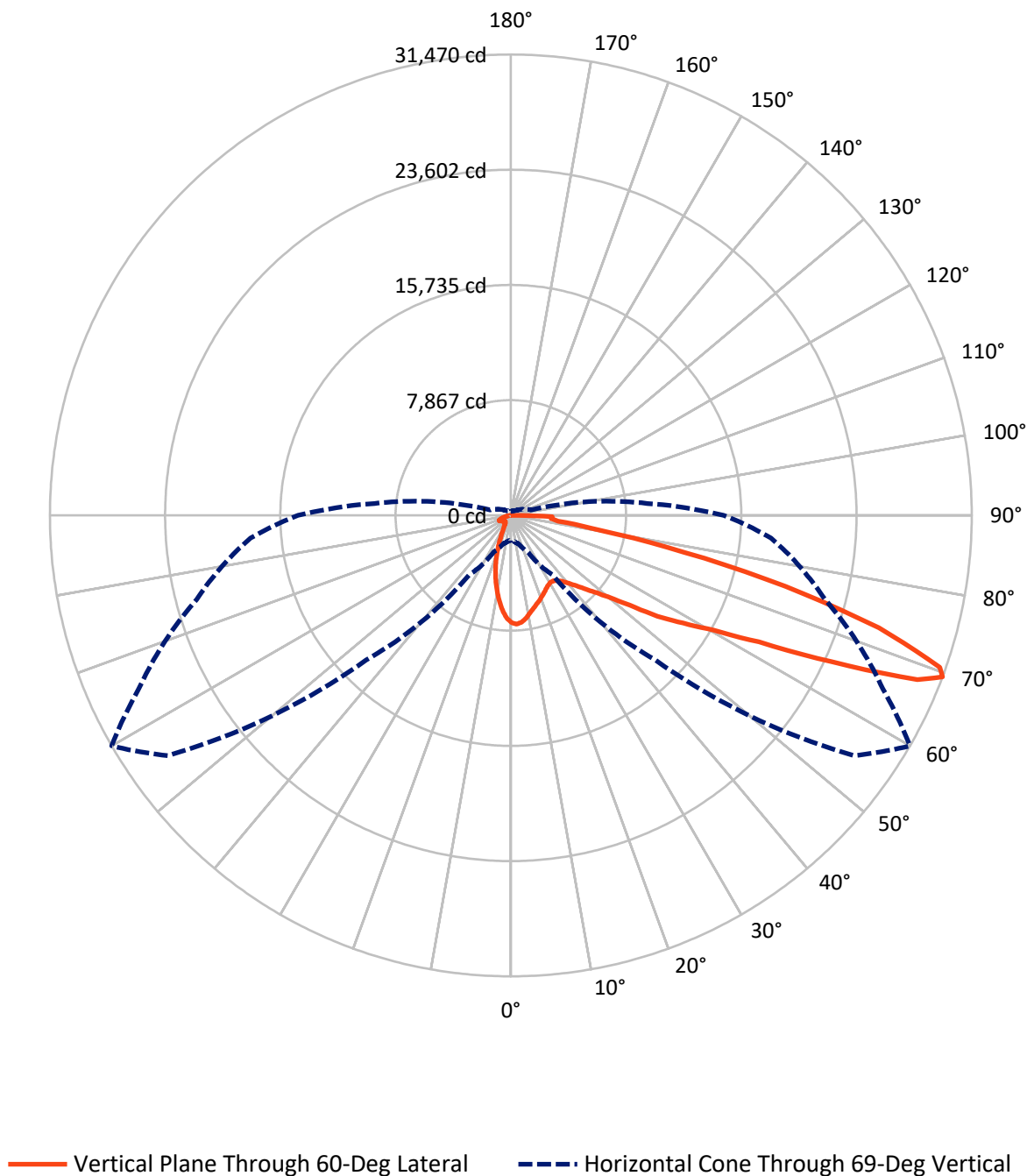


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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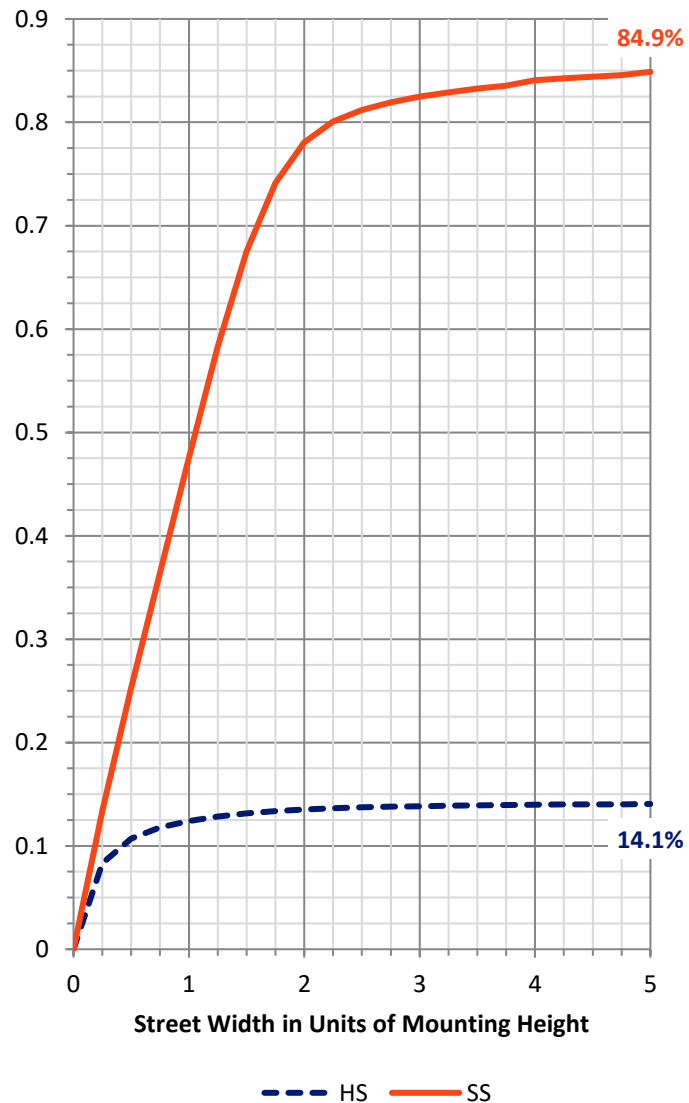
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4092.5	0.0	4092.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24673.5	0.0	24673.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	28766.0	0.0	28766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.8	2.2
10°-20°	1320.5	4.6
20°-30°	1682.5	5.8
30°-40°	2313.1	8.0
40°-50°	3753.1	13.0
50°-60°	6019.1	20.9
60°-70°	8010.9	27.8
70°-80°	4325.3	15.0
80°-90°	721.7	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°	28766.0	100.0
0°-180°	28766.0	100.0

Coefficient of Utilization



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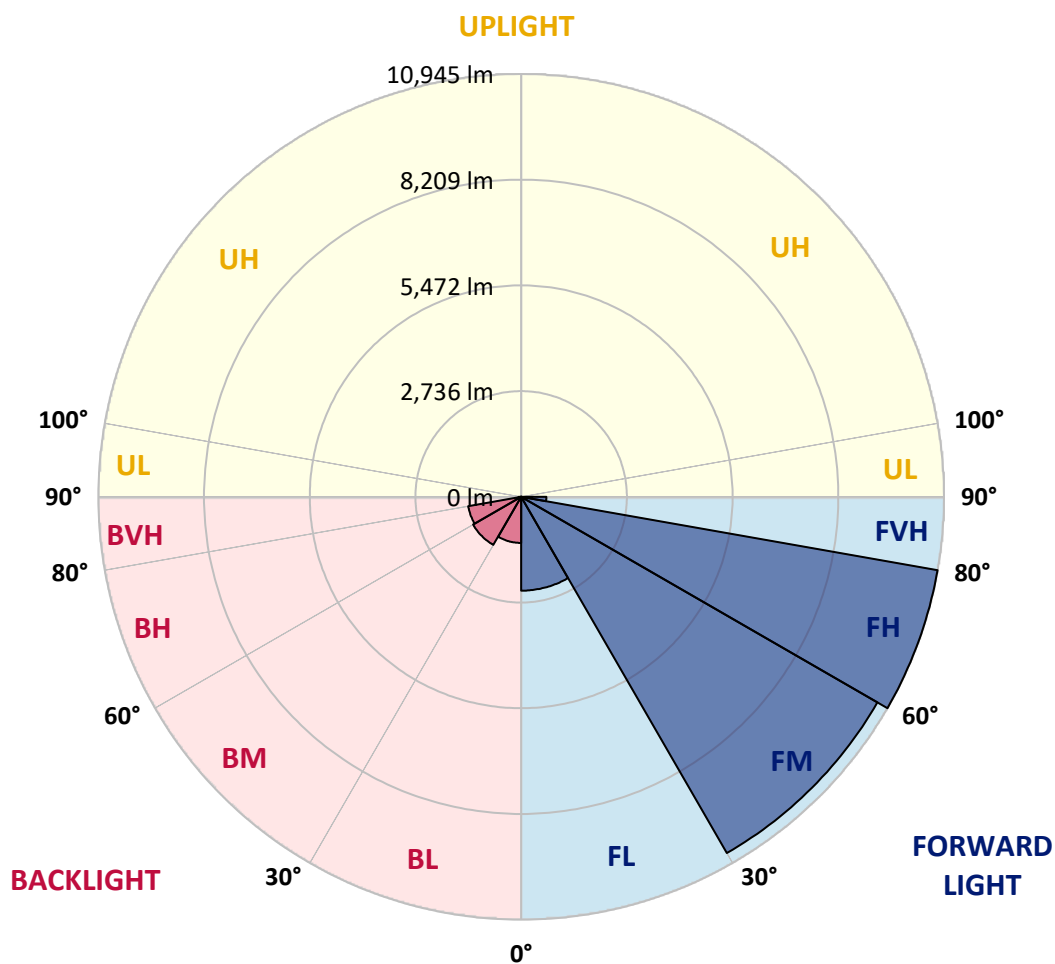
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2428.9	8.4			
FM	(30°-60°)	10647.5	37.0			
FH	(60°-80°)	10944.9	38.0			G4/12000
FVH	(80°-90°)	652.2	2.3			G4/750
BL	(0°-30°)	1193.9	4.2	B3/2500		
BM	(30°-60°)	1437.8	5.0	B2/2500		
BH	(60°-80°)	1391.3	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°	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0
2.5°	7480.1	7496.8	7489.8	7485.6	7498.2	7478.7	7438.4	7425.9	7406.4	7360.6	7282.8
5°	7199.4	7249.4	7246.6	7284.2	7346.7	7363.4	7345.3	7348.1	7311.9	7255.0	7125.7
7.5°	6714.4	6735.3	6746.4	6828.4	6942.3	7034.0	7111.9	7136.9	7120.2	7071.6	6904.8
10°	6214.2	6230.9	6257.3	6353.1	6497.7	6624.1	6771.4	6856.2	6892.3	6884.0	6697.8
12.5°	5784.8	5801.5	5836.2	5944.6	6116.9	6272.5	6486.5	6592.1	6678.3	6729.7	6529.6
15°	5399.9	5436.0	5469.4	5594.4	5787.6	5991.9	6233.6	6367.0	6500.4	6615.8	6380.9
17.5°	5099.7	5135.9	5155.3	5269.3	5474.9	5725.1	6008.5	6165.5	6332.3	6521.3	6233.6
20°	4926.0	4942.7	4934.4	4998.3	5183.1	5448.5	5784.8	5966.8	6168.3	6432.3	6086.3
22.5°	4877.4	4878.8	4848.2	4841.3	4960.8	5184.5	5545.8	5766.7	6014.1	6374.0	5959.9
25°	4995.5	4991.4	4908.0	4839.9	4852.4	4983.0	5315.1	5572.2	5884.9	6361.5	5862.6
27.5°	5258.2	5270.7	5147.0	5019.1	4892.7	4888.5	5140.0	5411.0	5779.2	6418.5	5820.9
30°	5626.4	5647.2	5515.2	5352.6	5115.0	4919.1	5072.0	5315.1	5713.9	6536.6	5814.0
32.5°	6029.4	6051.6	5951.6	5780.6	5469.4	5108.1	5119.2	5323.5	5711.2	6701.9	5861.2
35°	6458.7	6483.8	6432.3	6287.8	5941.8	5456.9	5299.8	5458.3	5801.5	6954.8	5987.7
37.5°	6938.2	6977.1	6991.0	6853.4	6483.8	5916.8	5595.8	5713.9	6005.7	7306.4	6219.7
40°	7628.8	7683.0	7678.8	7481.5	7104.9	6538.0	6053.0	6083.6	6324.0	7776.1	6590.8
42.5°	8951.6	8962.8	8616.8	8187.4	7788.6	7191.1	6592.1	6567.1	6763.1	8370.8	7136.9
45°	10634.4	10588.6	9818.7	8989.2	8502.8	7941.4	7293.9	7171.6	7320.3	9096.2	7820.5
47.5°	12030.9	11925.3	10952.6	9807.6	9258.7	8757.1	8117.9	7903.9	7985.9	9918.8	8704.3
50°	12515.9	12436.7	11630.8	10488.5	9974.4	9752.0	9132.3	8829.4	8851.6	10899.8	9739.5
52.5°	12411.7	12400.6	11862.8	10937.4	10644.2	10797.0	10569.1	10159.2	9942.4	11989.3	10856.8
55°	12165.7	12189.4	11994.8	11459.8	11409.8	11805.8	12446.4	12143.5	11469.6	13088.4	12011.5
57.5°	11311.1	11372.3	11800.3	12117.1	12642.4	13231.5	13958.3	13872.1	13113.4	14276.5	13384.4
60°	9112.8	9254.6	10402.4	11989.3	13911.0	15753.6	16078.8	15878.7	14808.7	15750.8	15197.8
62.5°	6385.1	6532.4	7897.0	10380.1	13702.6	18602.3	19869.5	19006.6	17243.2	17922.8	17544.8
65°	3418.4	3489.2	4531.4	7202.2	11568.2	19190.0	25409.8	24096.6	21097.9	20600.5	19552.7
67.5°	1885.7	1924.6	2323.4	3636.5	7409.2	16898.6	28939.3	29931.5	25915.6	22383.3	19187.3
69°	1705.0	1741.1	2002.4	2754.1	4958.0	13972.2	28594.7	31469.7	28027.7	22206.8	17836.6
70°	1667.5	1700.8	1935.7	2538.8	4013.1	11516.8	27440.0	31076.5	28530.8	21574.6	16658.2
72.5°	1500.7	1536.9	1764.8	2280.3	3429.5	5741.7	21735.7	26275.5	25903.1	18706.5	12635.4
75°	1399.3	1432.7	1819.0	2233.0	3283.6	3633.7	14329.3	19365.1	19041.4	13085.6	6813.1
77.5°	598.9	596.1	843.5	1889.8	3332.2	3518.4	7699.6	12097.6	11037.4	5593.0	1956.5
80°	400.2	393.3	400.2	555.8	3055.7	3537.9	4033.9	6140.5	4638.4	1425.7	964.4
82.5°	344.6	339.1	351.6	339.1	1074.1	4038.1	3429.5	3265.5	2205.3	810.1	478.0
85°	232.1	222.3	302.9	304.3	507.2	3587.9	3863.0	2758.3	1784.2	480.8	236.2
87.5°	111.2	108.4	176.5	215.4	297.4	1457.7	4334.1	2826.4	1799.5	246.0	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°	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0	7330.0
2.5°	7259.1	7202.2	7146.6	7079.9	7010.4	6932.6	6893.7	6854.8	6845.1	6833.9	6795.0
5°	7059.0	6978.5	6839.5	6686.6	6525.4	6368.4	6248.9	6173.9	6116.9	6087.7	6036.3
7.5°	6800.6	6682.5	6439.3	6175.3	5904.3	5657.0	5443.0	5308.2	5180.3	5120.6	5052.5
10°	6554.6	6378.2	6000.2	5611.1	5222.0	4848.2	4496.7	4247.9	4027.0	3903.3	3815.8
12.5°	6343.4	6101.6	5577.8	5051.1	4517.5	3985.3	3458.7	3044.6	2698.6	2516.5	2423.4
15°	6137.8	5845.9	5176.2	4507.8	3822.7	3098.8	2406.7	1937.1	1650.8	1536.9	1498.0
17.5°	5951.6	5577.8	4773.2	3960.3	3105.7	2230.3	1617.5	1359.0	1249.2	1211.7	1199.2
20°	5750.1	5306.8	4354.9	3387.8	2358.1	1559.1	1263.1	1149.2	1104.7	1093.6	1088.0
22.5°	5555.5	5040.0	3954.7	2775.0	1693.9	1203.4	1085.3	1038.0	1031.1	1040.8	1040.8
25°	5390.2	4801.0	3522.6	2134.4	1243.7	1013.0	971.3	960.2	986.6	1022.7	1029.7
27.5°	5266.5	4605.1	3062.6	1575.8	990.8	881.0	879.6	897.7	963.0	1032.5	1046.4
30°	5181.7	4418.9	2570.7	1136.7	831.0	775.4	797.6	836.5	932.4	1031.1	1057.5
32.5°	5138.7	4281.3	2058.0	879.6	711.5	680.9	718.4	765.7	860.1	951.9	986.6
35°	5172.0	4179.8	1574.4	733.7	628.1	604.5	643.4	689.2	744.8	783.7	810.1
37.5°	5297.1	4139.5	1188.1	657.3	571.1	548.9	579.5	605.9	628.1	639.2	651.7
40°	5566.6	4182.6	951.9	618.4	539.2	511.4	523.9	533.6	547.5	558.6	564.2
42.5°	5964.1	4311.9	853.2	603.1	522.5	482.2	479.4	483.6	501.6	522.5	526.6
45°	6519.9	4539.7	846.3	612.8	514.1	458.6	446.1	451.6	479.4	511.4	516.9
47.5°	7230.0	4887.1	901.8	642.0	521.1	446.1	425.2	432.2	466.9	510.0	516.9
50°	8090.1	5372.1	994.9	685.1	551.7	448.8	418.3	422.4	458.6	505.8	512.8
52.5°	9105.9	6059.9	1096.4	726.7	583.6	466.9	423.8	414.1	447.4	489.1	497.5
55°	10235.6	6942.3	1200.6	764.3	600.3	489.1	434.9	403.0	426.6	461.3	468.3
57.5°	11622.4	8176.3	1381.2	800.4	611.4	504.4	446.1	391.9	400.2	425.2	430.8
60°	13499.7	9921.6	1699.5	860.1	636.4	510.0	444.7	382.1	373.8	387.7	390.5
62.5°	15749.5	11817.0	1964.9	935.2	678.1	514.1	436.3	375.2	351.6	351.6	354.3
65°	17084.8	12324.1	1817.6	997.7	712.9	510.0	426.6	368.2	334.9	319.6	321.0
67.5°	15952.3	10838.7	1557.7	1010.2	711.5	490.5	411.3	355.7	318.2	294.6	293.2
69°	14533.6	9351.8	1441.0	976.9	678.1	465.5	391.9	341.8	305.7	280.7	279.3
70°	13390.0	8444.5	1364.6	940.7	642.0	447.4	376.6	329.3	296.0	272.4	269.6
72.5°	9735.4	5533.3	1165.9	808.7	529.4	375.2	325.2	289.0	264.0	250.1	247.3
75°	4864.9	2638.8	946.3	655.9	405.8	300.1	266.8	241.8	229.3	226.5	225.1
77.5°	1598.0	1208.9	676.7	489.1	301.5	234.8	215.4	197.3	194.5	202.9	200.1
80°	878.2	703.1	429.4	323.8	205.7	172.3	169.5	159.8	164.0	177.9	175.1
82.5°	447.4	365.5	265.4	194.5	139.0	123.7	134.8	129.2	134.8	147.3	145.9
85°	220.9	200.1	168.1	118.1	91.7	79.2	95.9	100.0	102.8	112.6	112.6
87.5°	127.8	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)