

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: P300447

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-AFL-8030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19568.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 193
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

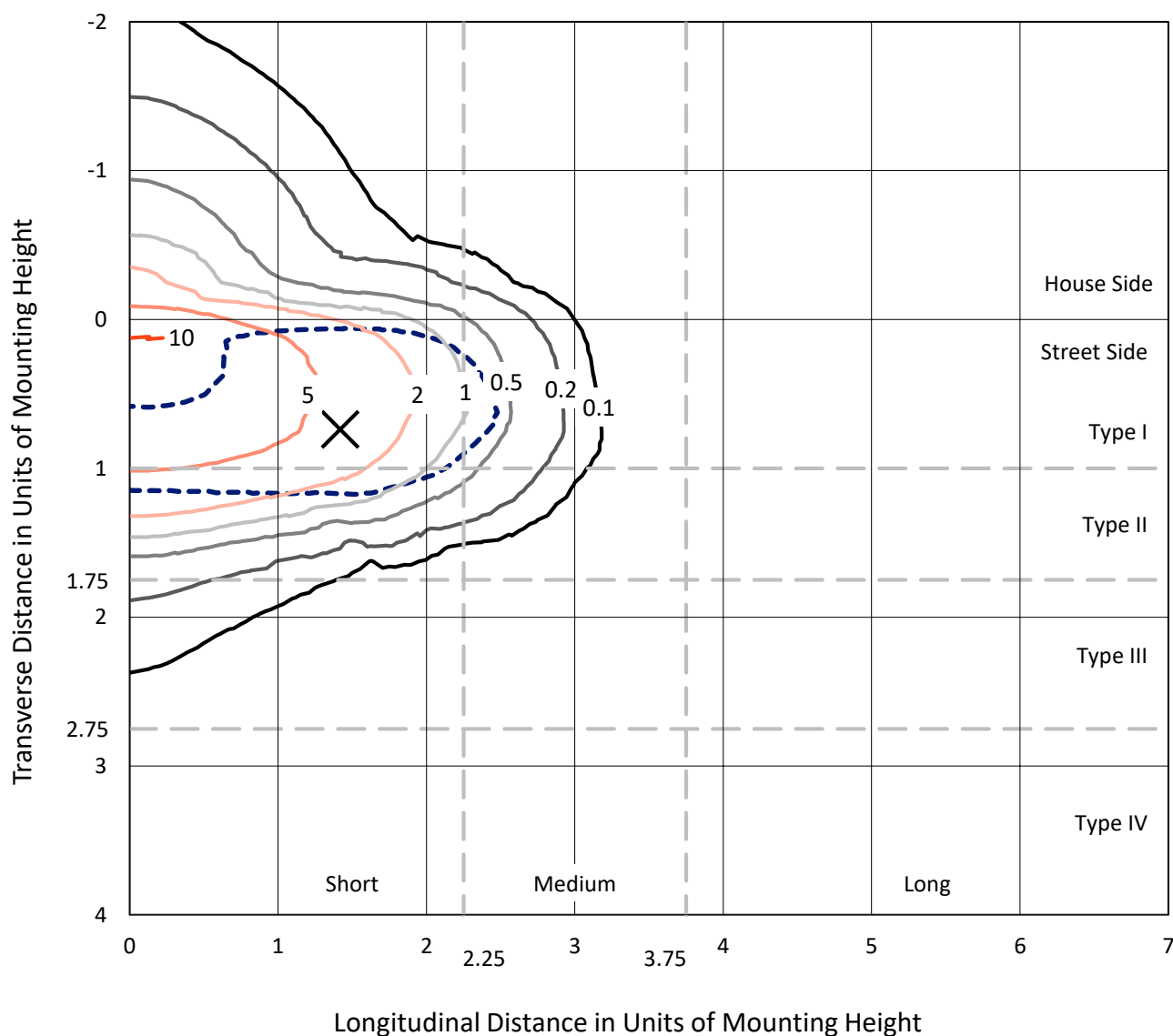


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

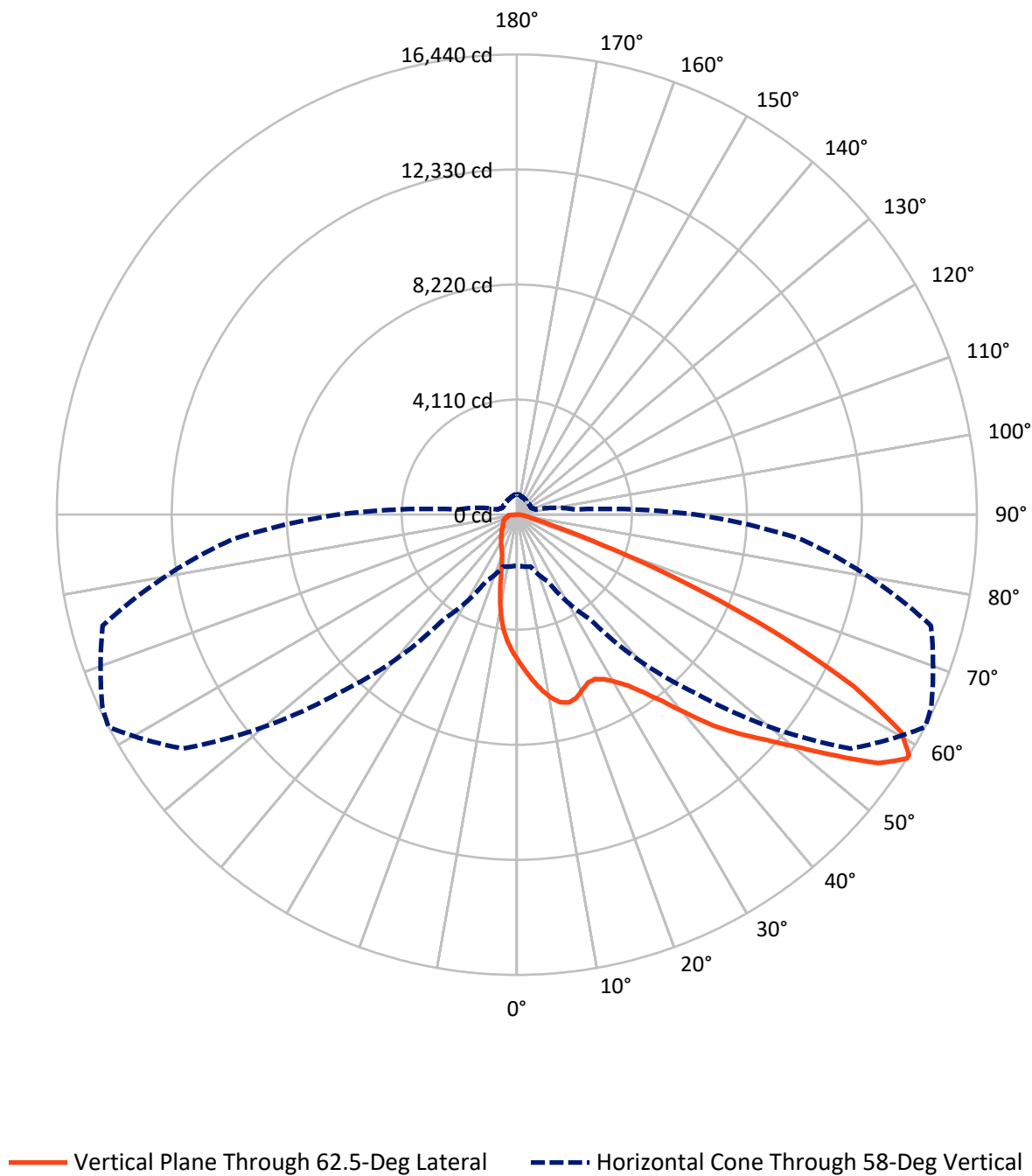


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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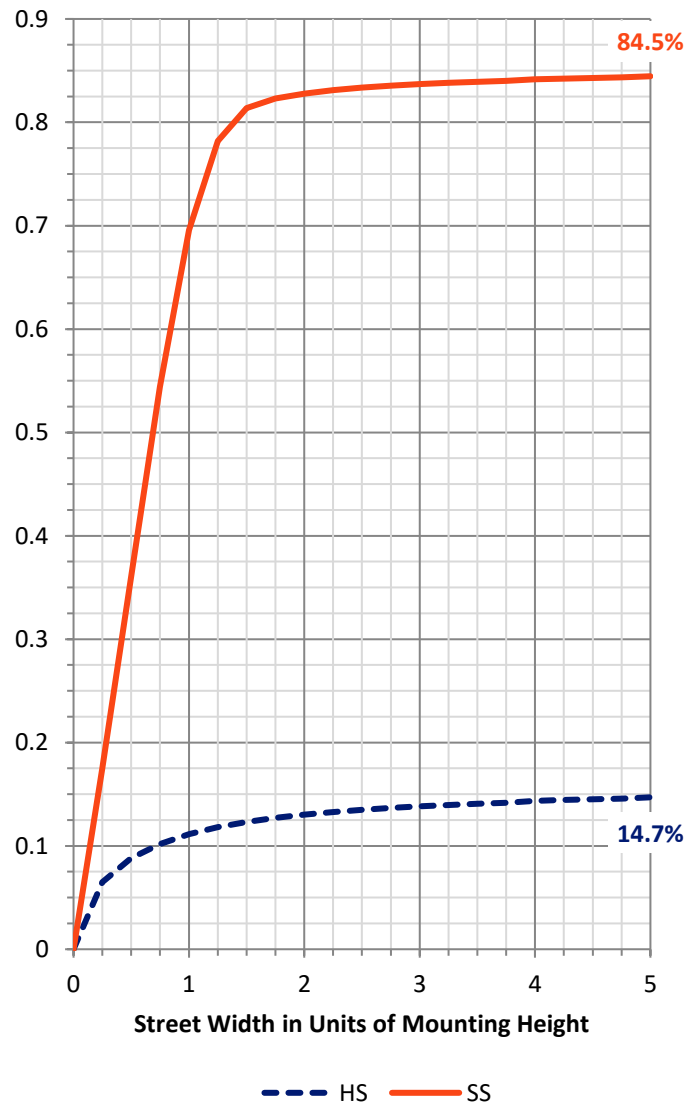
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.2	0.0	2984.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16584.1	0.0	16584.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	19568.3	0.0	19568.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.9	2.4
10°-20°	1188.3	6.1
20°-30°	1920.9	9.8
30°-40°	3049.5	15.6
40°-50°	4462.0	22.8
50°-60°	4666.9	23.8
60°-70°	2757.2	14.1
70°-80°	776.7	4.0
80°-90°	282.0	1.4
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°	19568.3	100.0
0°-180°	19568.3	100.0

Coefficient of Utilization



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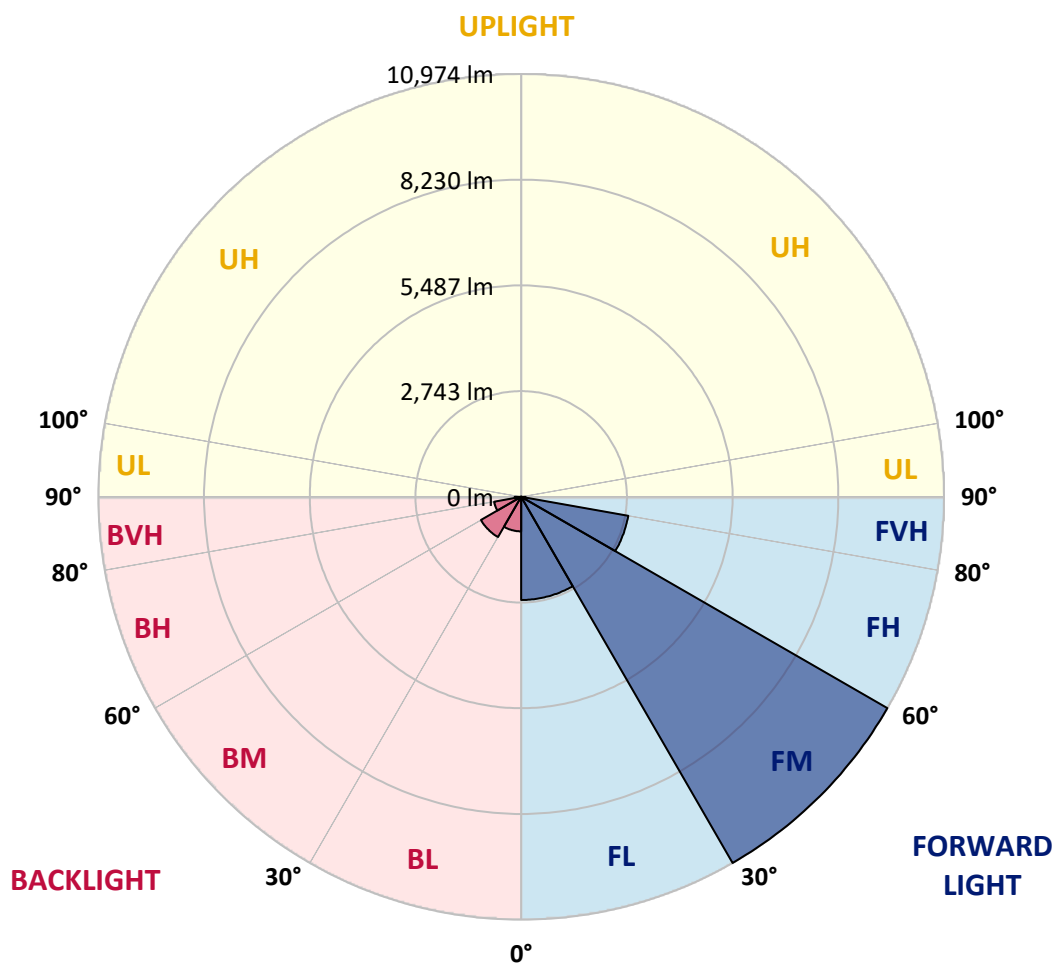
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2677.2	13.7			
FM	(30°-60°)	10973.8	56.1			
FH	(60°-80°)	2821.8	14.4			G2/5000
FVH	(80°-90°)	111.2	0.6			G2/225
BL	(0°-30°)	896.9	4.6	B2/1000		
BM	(30°-60°)	1204.5	6.2	B2/2500		
BH	(60°-80°)	712.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	170.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9
2.5°	5939.7	5891.8	5861.4	5834.7	5799.6	5725.0	5624.6	5561.0	5528.7	5419.1	5289.2
5°	6522.1	6479.7	6448.3	6412.4	6349.8	6232.7	6070.5	5941.5	5878.0	5658.7	5398.8
7.5°	6385.7	6403.2	6457.6	6552.5	6633.6	6617.9	6473.2	6309.2	6225.4	5920.4	5526.0
10°	5563.7	5594.2	5688.1	5910.2	6269.6	6638.2	6750.6	6637.2	6552.5	6179.3	5656.8
12.5°	5398.8	5397.9	5405.3	5464.2	5678.0	6196.8	6759.8	6874.1	6823.4	6426.2	5790.4
15°	5466.1	5467.9	5462.4	5487.3	5553.6	5759.1	6477.8	6965.3	7001.2	6675.0	5928.6
17.5°	5643.0	5638.4	5617.2	5617.2	5641.2	5721.3	6146.1	6880.5	7046.4	6895.3	6050.3
20°	5939.7	5918.5	5862.3	5810.7	5784.9	5828.2	6009.7	6685.2	6968.0	7087.8	6150.7
22.5°	6299.1	6282.5	6191.3	6080.7	5991.3	5990.4	6079.8	6514.7	6832.6	7269.4	6235.5
25°	6763.5	6736.8	6601.3	6424.4	6267.7	6207.8	6232.7	6506.4	6758.9	7466.6	6311.0
27.5°	7309.0	7260.1	7099.8	6844.6	6614.2	6493.5	6457.6	6656.6	6826.1	7710.7	6416.1
30°	7970.6	7914.4	7708.9	7376.3	7051.0	6852.9	6776.4	6922.9	7049.1	8008.4	6584.7
32.5°	8723.4	8642.3	8404.6	8037.9	7610.3	7308.1	7183.7	7274.9	7375.3	8366.8	6795.7
35°	9763.7	9667.0	9323.3	8817.4	8334.6	7919.0	7720.0	7786.3	7884.0	8901.3	7100.7
37.5°	10473.3	10430.0	10201.4	9726.0	9200.7	8722.5	8414.7	8453.4	8508.7	9569.3	7491.4
40°	10466.8	10484.3	10488.9	10493.5	10136.0	9678.0	9347.2	9306.7	9295.6	10302.8	7935.6
42.5°	9942.5	10014.4	10246.6	10717.4	10934.9	10724.8	10421.7	10304.6	10246.6	11167.1	8406.4
45°	9139.9	9178.6	9613.5	10533.2	11344.0	11761.5	11532.0	11163.4	11058.4	11961.4	8797.1
47.5°	8726.2	8768.6	9042.2	10044.8	11339.4	12599.1	12731.8	12029.6	11841.6	12652.5	9134.4
50°	7741.1	7829.6	8174.2	9195.2	10925.7	12984.2	13985.9	13061.6	12672.8	13325.2	9472.6
52.5°	5932.3	6068.7	6454.8	7798.3	9876.2	12793.5	14989.3	14313.0	13763.8	14021.8	9762.8
55°	3742.0	3843.4	4167.7	5507.5	7900.6	11801.1	15369.9	15666.6	15178.2	14681.6	10014.4
57.5°	2034.6	2079.7	2201.4	3040.8	5139.0	9607.1	14815.2	16436.9	16234.2	15241.8	10204.2
58°	1820.8	1851.2	1926.8	2635.4	4557.5	9007.2	14569.1	16439.7	16338.3	15323.8	10218.9
60°	1350.9	1335.2	1267.9	1503.8	2536.8	6222.6	13081.9	15781.8	16079.4	15424.2	10147.1
62.5°	1186.8	1149.1	1011.8	996.1	1233.8	2866.6	10009.8	13518.7	14221.7	14851.1	9710.3
65°	1115.0	1074.4	897.5	840.4	890.1	1212.6	5896.4	10138.8	11020.6	13113.2	8593.5
67.5°	1061.5	1009.0	824.7	746.4	750.1	801.7	2363.5	6385.7	7378.1	9956.3	6684.2
70°	1009.9	952.8	763.0	672.7	651.5	634.0	939.9	3196.5	4096.8	6288.9	4261.7
72.5°	954.6	898.4	708.6	614.6	573.1	515.1	613.7	1307.5	1826.3	2975.4	1933.2
75°	874.5	823.8	654.2	563.0	504.0	426.6	463.5	682.8	819.2	1185.0	931.6
77.5°	775.9	734.4	593.4	520.6	446.9	346.5	356.6	473.6	525.2	678.2	553.8
80°	557.5	572.2	528.0	468.1	398.1	281.0	273.7	345.5	373.2	435.8	360.3
82.5°	391.6	399.9	436.8	382.4	329.0	221.1	201.8	243.3	259.9	286.6	194.4
85°	270.0	260.8	299.5	266.3	237.7	147.4	138.2	164.9	175.1	177.8	100.4
87.5°	162.2	162.2	173.2	142.8	128.1	76.5	74.6	94.0	100.4	95.8	55.3
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°	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9	5197.9
2.5°	5211.8	5146.3	5007.2	4895.7	4754.7	4608.2	4526.2	4438.7	4378.8	4335.4	4404.6
5°	5251.4	5117.8	4830.3	4557.5	4256.2	3942.9	3705.2	3484.0	3330.1	3234.3	3324.6
7.5°	5314.0	5108.5	4650.6	4184.3	3643.4	3121.9	2655.6	2363.5	2193.1	2109.2	2161.7
10°	5385.9	5093.8	4439.6	3678.5	2904.4	2247.4	1899.1	1781.2	1742.5	1726.8	1734.2
12.5°	5445.8	5062.5	4180.6	3066.6	2181.1	1774.7	1674.3	1671.5	1679.8	1681.7	1684.4
15°	5488.2	5016.4	3796.4	2429.0	1744.3	1617.2	1611.6	1628.2	1643.9	1650.3	1654.0
17.5°	5516.8	4921.5	3362.4	1920.3	1562.8	1540.7	1553.6	1574.8	1591.4	1596.0	1599.6
20°	5514.0	4782.4	2845.5	1601.5	1464.2	1464.2	1486.3	1502.9	1503.8	1498.3	1501.1
22.5°	5485.4	4591.6	2344.2	1431.9	1376.7	1392.3	1414.4	1398.8	1334.3	1291.9	1294.6
25°	5437.5	4364.0	1914.8	1324.1	1295.6	1323.2	1316.8	1198.8	1106.7	1065.2	1065.2
27.5°	5395.1	4094.9	1584.9	1230.1	1214.5	1248.6	1134.3	1027.4	988.7	969.4	962.9
30°	5364.7	3804.7	1364.7	1139.8	1138.0	1113.1	984.1	954.6	948.2	932.5	927.0
32.5°	5372.1	3510.7	1223.7	1060.6	1067.0	952.8	912.2	918.7	913.2	896.6	889.2
35°	5432.9	3231.5	1131.5	988.7	969.4	860.6	869.9	881.8	880.0	857.0	849.6
37.5°	5541.6	2967.1	1070.7	928.8	845.9	814.6	829.3	847.7	843.1	827.5	821.9
40°	5655.9	2718.3	1021.0	881.8	773.1	783.2	796.1	806.3	810.9	815.5	811.8
42.5°	5767.4	2458.4	960.2	833.9	742.7	753.8	759.3	769.4	794.3	811.8	810.9
45°	5833.7	2214.3	897.5	765.7	718.7	725.2	721.5	741.8	772.2	800.7	801.7
47.5°	5907.5	2024.4	847.7	703.1	695.7	700.3	689.2	709.5	737.2	772.2	775.9
50°	5996.8	1911.1	808.1	653.3	664.4	664.4	661.6	680.0	718.7	759.3	766.7
52.5°	6098.2	1889.0	774.9	617.4	633.0	632.1	634.9	662.5	704.9	744.5	751.0
55°	6221.7	1948.9	739.0	590.7	602.6	606.3	615.5	646.9	682.8	727.9	730.7
57.5°	6365.4	2070.5	710.4	569.5	575.0	587.0	601.7	630.3	669.0	718.7	721.5
58°	6389.4	2096.3	705.8	567.6	569.5	583.3	599.9	627.5	666.2	720.6	723.3
60°	6390.3	2182.0	695.7	559.3	548.3	571.3	589.7	617.4	661.6	727.0	733.5
62.5°	6163.6	2181.1	688.3	547.3	526.2	554.7	575.9	608.2	657.0	742.7	755.6
65°	5427.4	1982.1	653.3	528.9	508.6	540.0	563.9	601.7	669.9	810.9	819.2
67.5°	4245.1	1624.5	587.9	503.1	485.6	525.2	556.6	600.8	683.7	826.5	832.1
70°	2806.8	1215.4	516.0	473.6	461.6	507.7	560.2	632.1	668.1	793.4	778.6
72.5°	1456.8	853.3	458.0	436.8	434.0	492.1	613.7	628.4	652.4	746.4	727.9
75°	764.8	592.5	407.3	396.2	400.8	488.4	724.3	611.8	632.1	714.1	749.1
77.5°	468.1	478.2	364.0	359.4	368.6	477.3	723.3	590.7	602.6	657.0	695.7
80°	313.3	387.9	330.8	331.7	338.2	436.8	649.6	557.5	566.7	621.1	660.7
82.5°	198.1	229.4	300.4	316.1	307.8	360.3	552.0	507.7	520.6	710.4	751.0
85°	100.4	143.7	260.8	304.1	277.4	252.5	447.8	445.1	451.5	512.3	535.4
87.5°	46.1	79.2	203.6	265.4	209.2	157.6	325.3	329.9	355.7	364.0	364.0
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)