

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: P193187

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41590.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 374
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

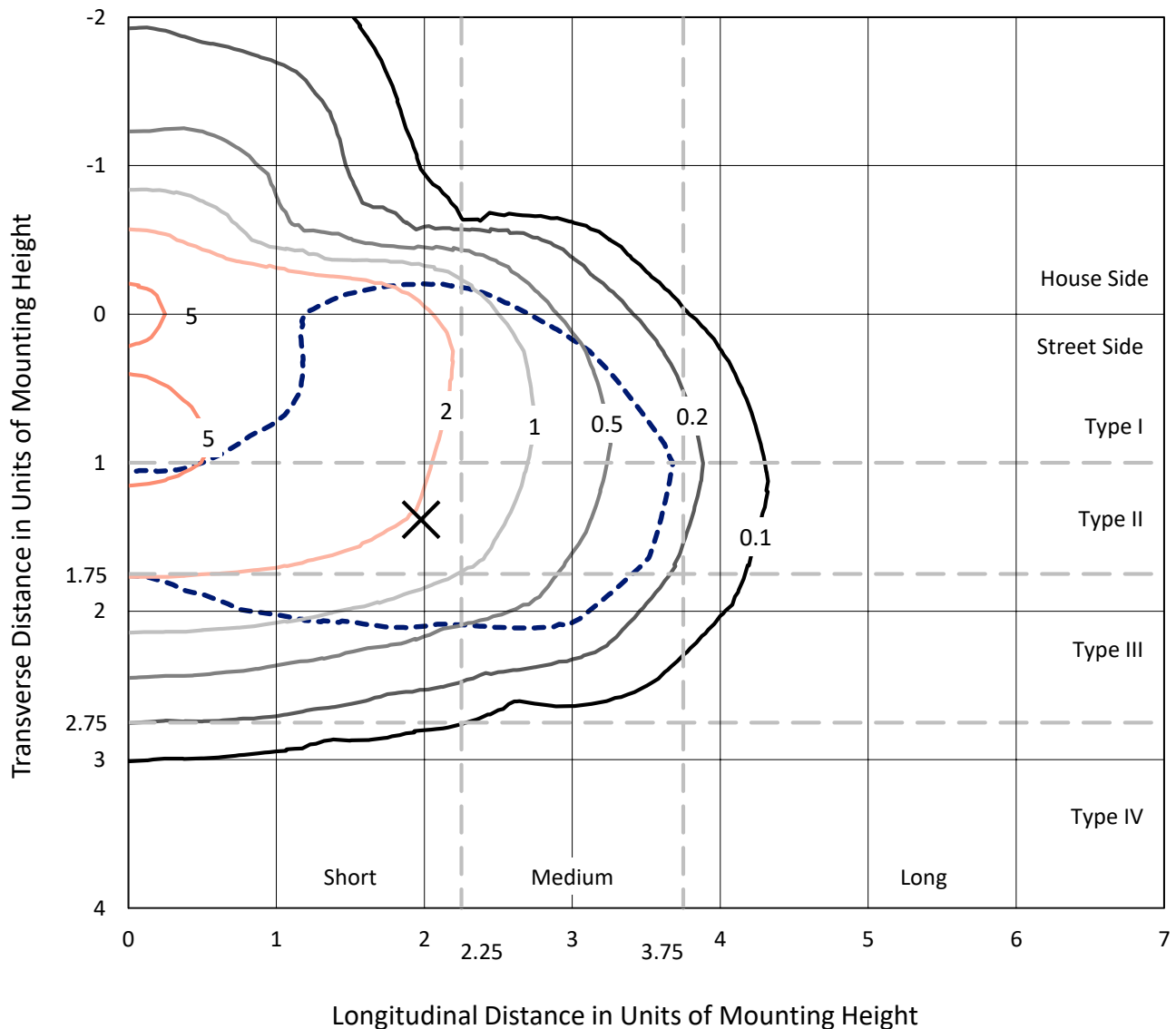


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

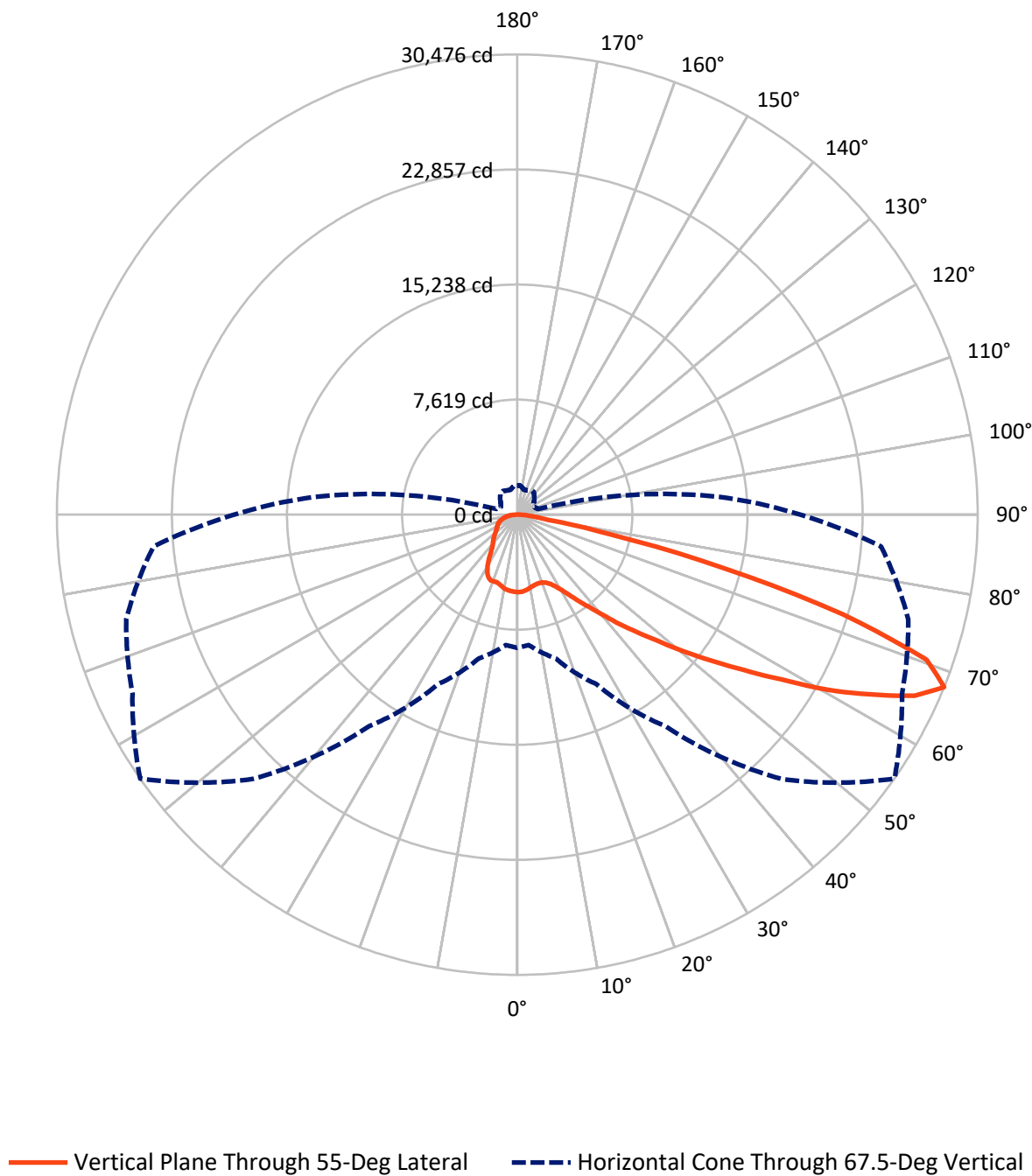


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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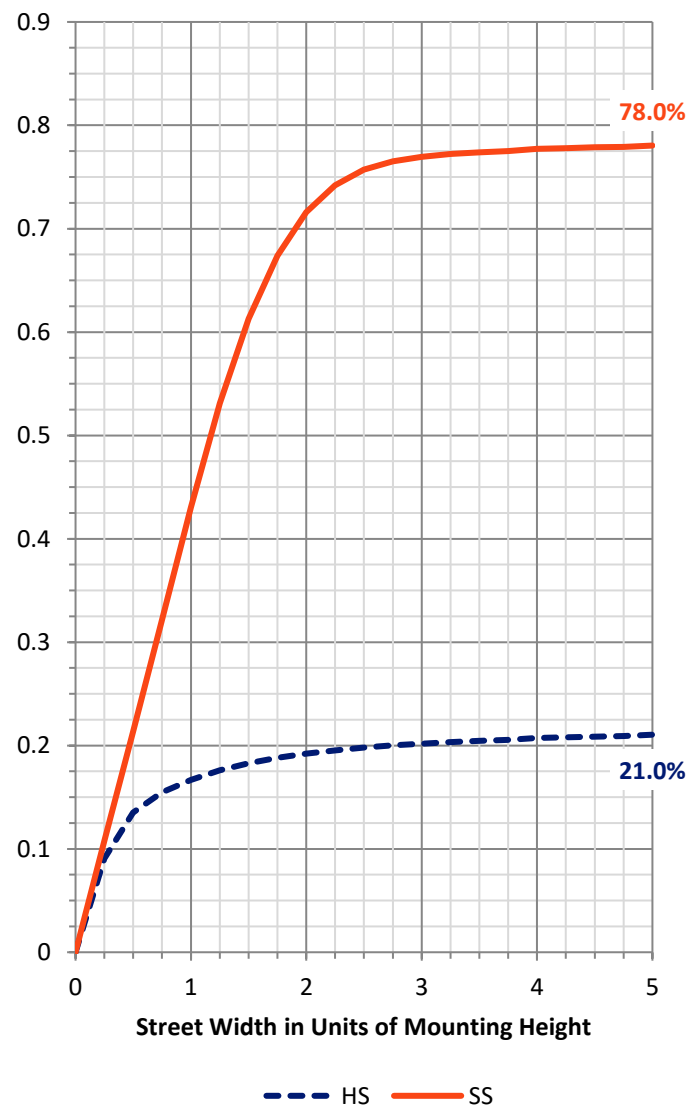
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8984.5	0.0	8984.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32606.2	0.0	32606.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	41590.6	0.0	41590.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.7	1.2
10°-20°	1355.7	3.3
20°-30°	2271.0	5.5
30°-40°	3734.6	9.0
40°-50°	6286.4	15.1
50°-60°	9894.4	23.8
60°-70°	11807.9	28.4
70°-80°	5070.5	12.2
80°-90°	691.3	1.7
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°	41590.6	100.0
0°-180°	41590.6	100.0

Coefficient of Utilization



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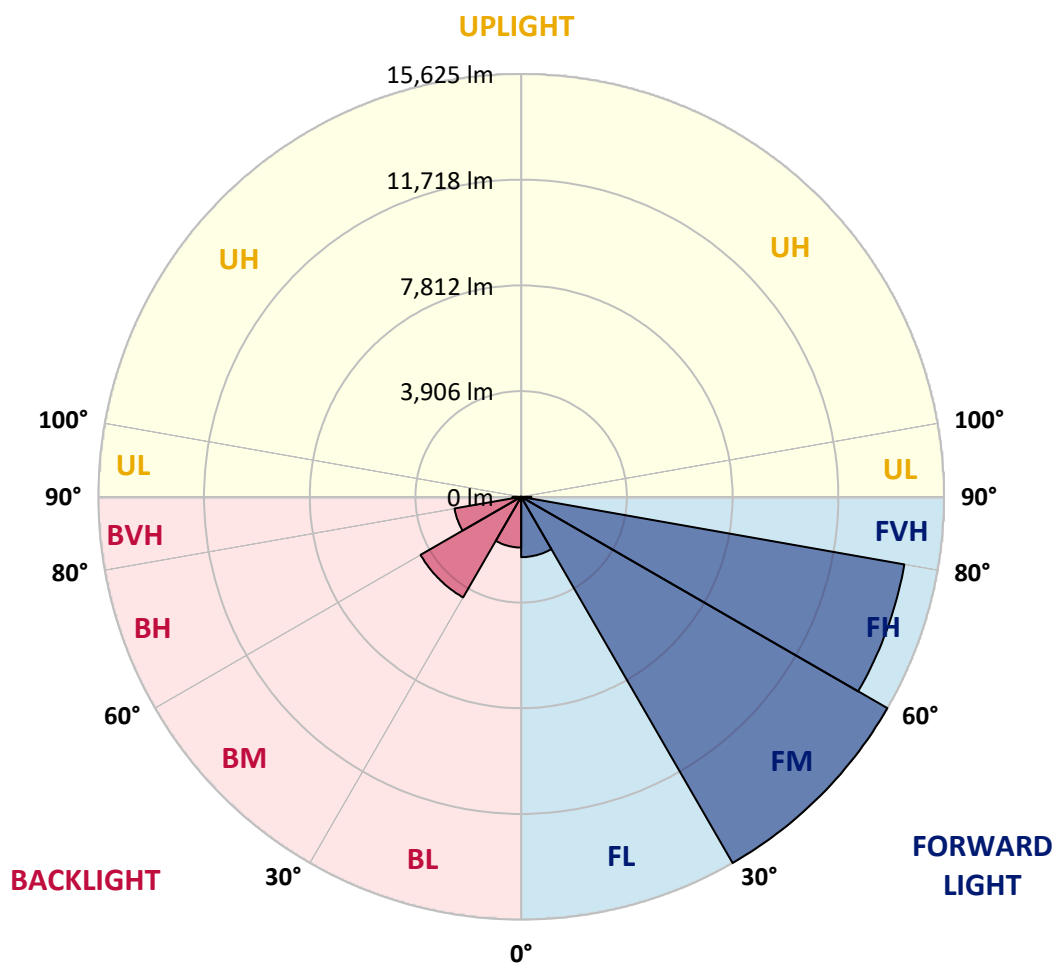
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2229.4	5.4			
FM	(30°-60°)	15624.5	37.6			
FH	(60°-80°)	14378.1	34.6			G5
FVH	(80°-90°)	374.2	0.9			G3/500
BL	(0°-30°)	1876.1	4.5	B3/2500		
BM	(30°-60°)	4290.9	10.3	B3/5000		
BH	(60°-80°)	2500.3	6.0	B4/5000		G4/5000
BVH	(80°-90°)	317.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6
2.5°	5084.4	5086.3	5090.4	5106.4	5120.6	5116.5	5118.6	5110.5	5108.5	5096.4	5108.5
5°	5020.1	5026.2	5028.1	5054.3	5070.2	5074.3	5068.3	5058.2	5046.2	5034.1	5040.2
7.5°	4873.5	4889.6	4891.5	4927.7	4953.9	4988.0	4990.0	4991.9	4985.9	4978.0	4990.0
10°	4781.0	4785.1	4783.1	4809.1	4829.3	4867.4	4889.6	4927.7	4943.8	4947.8	4955.8
12.5°	4775.0	4771.1	4765.1	4765.1	4759.0	4775.0	4815.2	4869.4	4907.6	4919.6	4929.7
15°	4839.3	4837.4	4817.2	4787.0	4749.0	4736.8	4771.1	4831.2	4881.4	4907.6	4917.6
17.5°	4984.0	4971.9	4939.7	4871.5	4789.1	4756.9	4761.0	4811.2	4869.4	4903.5	4913.6
20°	5249.2	5249.2	5180.8	5052.2	4905.6	4829.3	4793.1	4823.2	4879.5	4925.7	4939.7
22.5°	5707.1	5711.1	5596.6	5385.7	5138.6	4975.8	4885.5	4879.5	4945.7	4997.9	5014.1
25°	6355.9	6339.9	6179.1	5877.9	5502.2	5233.1	5076.3	5040.2	5096.4	5154.8	5174.7
27.5°	7111.3	7053.0	6862.2	6498.6	6012.4	5618.7	5377.6	5319.4	5373.7	5439.9	5460.0
30°	7858.6	7798.4	7571.3	7173.6	6633.2	6135.0	5789.5	5695.0	5771.4	5865.8	5877.9
32.5°	8606.0	8606.0	8352.8	7888.7	7300.1	6751.6	6337.9	6225.4	6352.0	6466.5	6492.6
35°	9499.9	9503.8	9258.7	8700.4	8067.4	7487.0	7031.0	6948.6	7139.4	7219.8	7282.0
37.5°	10598.7	10620.8	10305.4	9630.4	8937.3	8326.6	7784.2	7671.7	7862.7	8081.6	8282.5
40°	11785.9	11813.9	11466.4	10634.9	9941.7	9303.0	8716.3	8513.5	8830.9	9248.7	9507.8
42.5°	12919.0	13063.5	12728.0	11872.2	11127.0	10466.1	9871.5	9576.1	9973.9	10604.7	10829.7
45°	14556.1	14660.5	14076.0	13300.5	12599.4	11860.2	11072.8	10761.4	11317.8	12113.3	12159.6
47.5°	15646.9	15568.6	15271.2	14789.2	14345.2	13654.1	12468.8	12127.3	12866.7	13802.7	13543.7
50°	16227.4	16251.6	16211.4	16239.5	16255.6	15821.7	14180.4	13712.4	14594.3	15725.2	15128.6
52.5°	16769.8	16609.1	16741.7	17400.6	18196.1	18035.4	16042.6	15554.4	16446.4	17858.7	16804.0
55°	16757.7	16512.7	16944.6	18107.7	19833.3	20018.2	18133.9	17571.4	18405.0	20146.8	18579.7
57.5°	16165.1	16177.3	16842.1	18364.9	20974.4	21882.3	20560.5	19716.8	20482.2	22464.9	20201.0
60°	15349.7	15460.0	16418.3	18322.7	21888.4	23411.1	23537.6	22029.0	22517.1	24572.2	21542.8
62.5°	14033.8	14150.2	15472.1	17884.7	21749.8	24883.6	26229.5	24652.5	24644.5	25849.7	21936.5
65°	11958.7	11924.4	13312.5	16247.5	20586.6	25972.3	28903.2	26920.5	26247.6	25869.9	21145.1
67.5°	8818.9	8666.1	9857.4	12374.4	17111.3	24753.0	30476.1	28101.7	26793.9	24168.3	18726.5
70°	4576.1	4423.5	5387.7	7225.9	11253.6	19319.0	28734.5	27491.0	25586.7	20259.2	14670.6
72.5°	1956.7	1930.5	2322.2	3169.9	5444.0	11143.1	22531.2	23794.8	21954.7	15094.5	10086.4
75°	1315.8	1307.8	1454.4	1727.6	2448.8	4521.9	14100.1	16890.4	16062.7	9359.2	5673.0
77.5°	1032.5	1022.4	1108.9	1241.5	1587.0	1783.8	6257.5	9068.0	8393.0	4074.0	2482.9
80°	807.5	799.6	853.8	926.1	1141.0	1125.0	2059.1	3607.8	2792.3	1560.9	1207.4
82.5°	636.8	636.8	681.0	683.0	809.6	767.3	1074.8	1588.9	1394.1	910.0	739.2
85°	582.6	582.6	628.8	510.2	528.4	484.1	666.9	942.2	883.9	373.6	321.4
87.5°	293.3	285.2	528.4	452.0	287.3	257.1	325.5	456.0	490.1	206.9	160.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6	5128.6
2.5°	5104.5	5102.5	5106.4	5108.5	5124.6	5146.6	5156.7	5170.8	5178.8	5174.7
5°	5044.2	5048.3	5064.2	5076.3	5104.5	5140.6	5160.8	5176.8	5190.9	5184.8
7.5°	4994.0	5004.1	5028.1	5038.2	5054.3	5064.2	5062.3	5068.3	5080.3	5066.4
10°	4965.9	4978.0	4996.0	4981.9	4943.8	4889.6	4839.3	4813.2	4821.2	4811.2
12.5°	4937.8	4953.9	4939.7	4873.5	4767.0	4696.7	4658.5	4662.5	4680.5	4684.6
15°	4921.7	4927.7	4867.4	4742.8	4634.4	4624.4	4644.5	4640.5	4642.4	4642.4
17.5°	4921.7	4905.6	4793.1	4668.5	4622.3	4604.3	4542.0	4463.7	4429.5	4417.5
20°	4947.8	4905.6	4768.9	4686.6	4586.1	4431.5	4266.8	4122.2	4057.9	4039.8
22.5°	5026.2	4953.9	4837.4	4694.7	4409.3	4150.3	3889.1	3716.4	3599.9	3579.8
25°	5184.8	5104.5	4971.9	4588.3	4128.2	3758.5	3461.3	3268.4	3151.9	3135.8
27.5°	5462.1	5409.9	5044.2	4353.2	3754.4	3358.7	3083.7	2934.9	2848.5	2842.5
30°	5879.9	5853.8	5008.0	4005.7	3294.5	2971.1	2838.4	2752.1	2687.9	2685.8
32.5°	6546.9	6336.0	4889.6	3581.7	2874.6	2695.9	2641.7	2589.5	2539.1	2539.1
35°	7404.6	6725.6	4664.5	3127.8	2619.5	2543.2	2474.9	2392.6	2326.2	2322.2
37.5°	8413.1	6966.7	4260.8	2762.2	2499.0	2440.8	2340.4	2217.8	2101.3	2081.2
40°	9431.5	7039.0	3692.3	2537.2	2422.8	2338.2	2215.8	2071.1	1958.6	1952.6
42.5°	10365.7	6900.4	3089.7	2382.5	2346.4	2233.8	2105.3	1976.7	1888.3	1886.3
45°	11149.1	6540.8	2583.3	2235.9	2265.9	2139.4	2024.9	1920.4	1852.2	1838.1
47.5°	11886.4	6032.5	2227.8	2081.2	2185.6	2087.2	1990.8	1892.4	1826.0	1816.0
50°	12742.2	5484.2	1978.6	1930.5	2115.3	2069.2	2018.9	1916.4	1805.9	1793.9
52.5°	13778.6	5010.1	1783.8	1797.9	2061.0	2093.2	2091.2	1984.7	1791.9	1775.8
55°	14935.7	4483.8	1637.2	1689.4	2039.0	2137.4	2109.2	2049.0	1804.0	1779.9
57.5°	16074.8	3869.0	1534.8	1607.1	2006.9	2133.4	2022.9	1936.5	1832.1	1797.9
60°	16928.5	3043.4	1456.4	1534.8	1936.5	2067.0	1928.5	1814.0	1826.0	1799.9
62.5°	16984.8	2352.4	1362.0	1472.5	1830.1	2000.7	1866.2	1759.7	1852.2	1828.0
65°	15986.4	1777.8	1271.6	1398.2	1715.6	1958.6	1805.9	1729.6	1906.3	1880.3
67.5°	13459.2	1430.3	1195.3	1321.8	1601.0	1870.2	1751.8	1701.5	1954.6	1908.4
70°	9716.8	1219.4	1120.9	1229.3	1498.6	1769.8	1703.5	1651.2	1824.1	1751.8
72.5°	5982.4	1056.6	1036.6	1106.9	1420.3	1665.3	1631.1	1556.8	1643.3	1585.1
75°	2987.1	916.0	942.2	986.4	1309.8	1546.8	1510.6	1436.3	1448.3	1436.3
77.5°	1430.3	783.5	831.7	865.8	1167.1	1412.1	1374.1	1297.7	1283.7	1285.7
80°	906.0	654.9	701.1	725.2	1042.6	1255.5	1217.3	1141.0	1301.8	1207.4
82.5°	566.5	532.3	544.4	588.6	908.0	1092.8	1042.6	974.3	1173.1	928.0
85°	313.3	371.6	387.8	425.9	699.0	914.1	863.8	777.4	697.1	685.0
87.5°	186.9	220.9	227.0	255.1	470.1	660.9	584.5	554.5	460.0	458.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)