

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: P193168

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T2R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65121.8 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

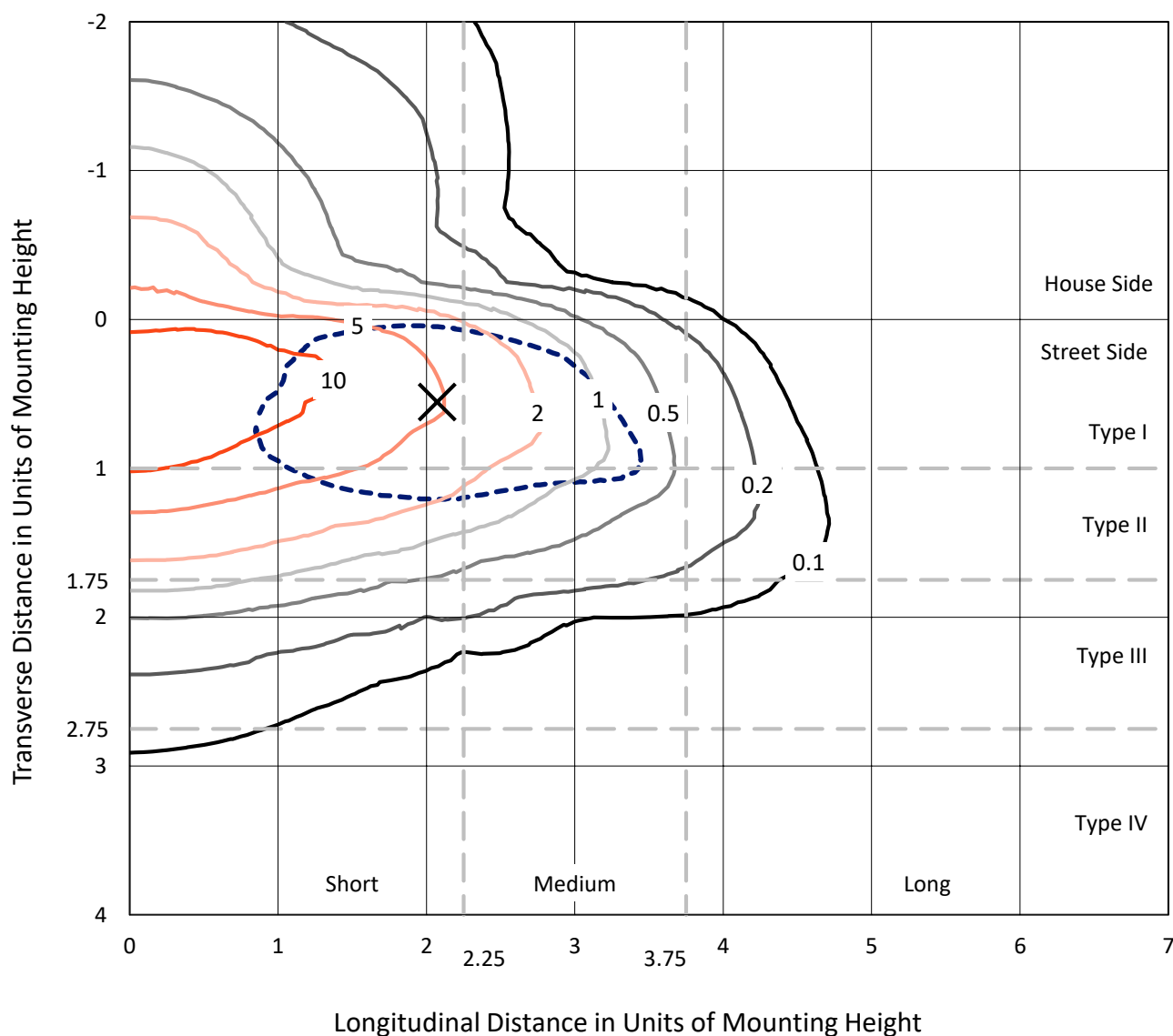


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

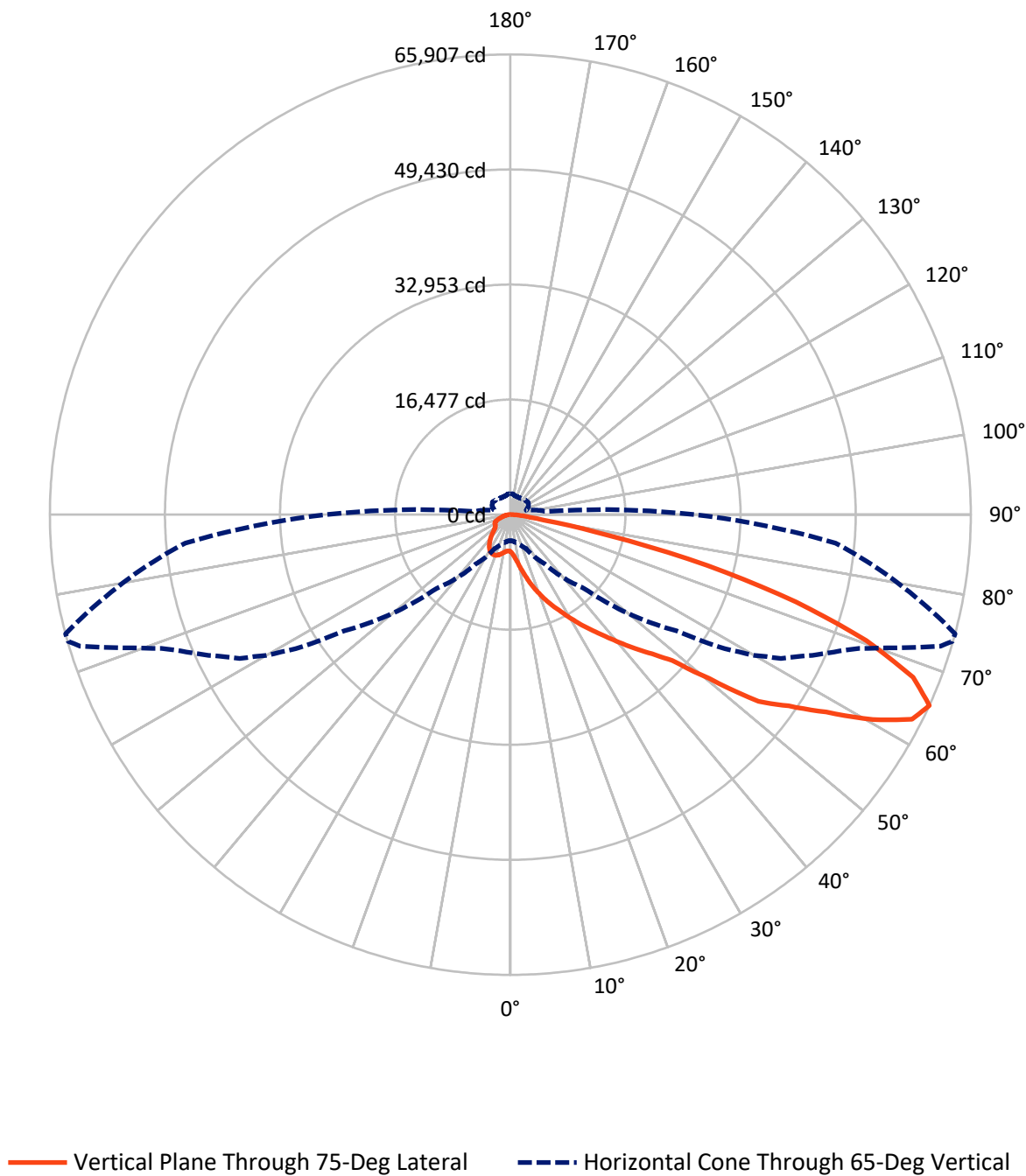


Based on 30 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10040.3	0.0	10040.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	55081.5	0.0	55081.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	65121.8	0.0	65121.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.2	1.0
10°-20°	2555.9	3.9
20°-30°	5244.0	8.1
30°-40°	8822.7	13.5
40°-50°	12190.5	18.7
50°-60°	15217.4	23.4
60°-70°	13694.0	21.0
70°-80°	5740.4	8.8
80°-90°	1002.9	1.5
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°	65121.8	100.0
0°-180°	65121.8	100.0

Coefficient of Utilization



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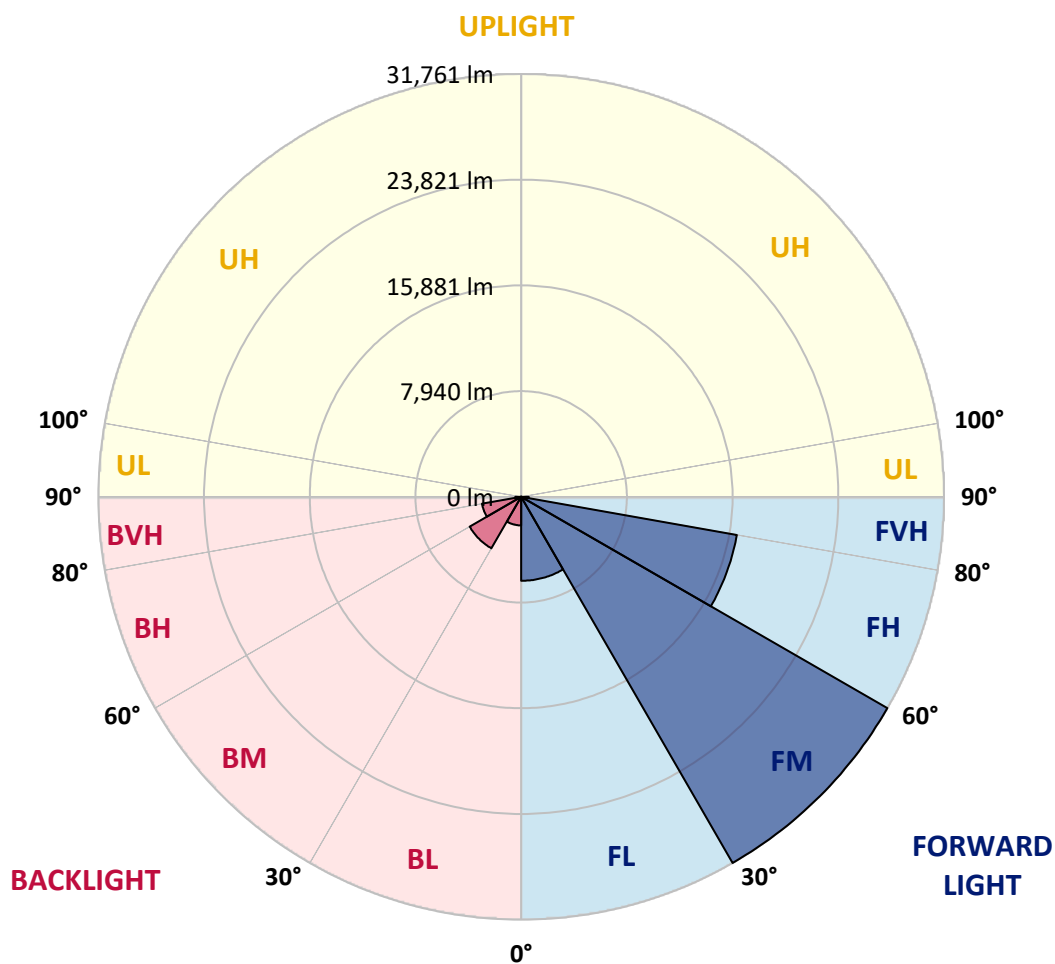
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6306.9	9.7			
FM	(30°-60°)	31761.5	48.8			
FH	(60°-80°)	16449.5	25.3			G5
FVH	(80°-90°)	563.7	0.9			G4/750
BL	(0°-30°)	2147.2	3.3	B3/2500		
BM	(30°-60°)	4469.0	6.9	B3/5000		
BH	(60°-80°)	2984.8	4.6	B4/5000		G4/5000
BVH	(80°-90°)	439.2	0.7			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4
2.5°	6719.6	6645.5	6664.0	6540.7	6389.7	6192.5	5973.6	5970.5	5973.6	5952.0	5871.9
5°	9317.9	9228.6	9194.6	8917.2	8510.3	7930.9	7302.2	7234.3	7206.5	7135.6	6972.3
7.5°	11213.6	11164.2	11111.8	10902.2	10532.4	9885.1	9040.5	8895.7	8756.9	8723.0	8538.1
10°	12437.3	12425.0	12313.9	12258.5	12027.4	11466.3	10643.4	10504.6	10353.6	10301.2	10107.0
12.5°	13405.1	13402.1	13349.7	13365.0	13164.7	12757.8	12048.9	11922.5	11811.6	11651.3	11512.5
15°	14074.0	14077.1	14154.1	14240.5	14209.6	13935.3	13269.5	13214.1	13118.4	13007.6	12844.2
17.5°	14622.7	14638.1	14718.2	14875.4	15044.9	15023.3	14496.3	14450.1	14366.8	14215.8	14129.5
20°	15861.7	15920.2	15766.2	15766.2	15784.6	15867.9	15615.3	15578.1	15461.1	15380.9	15313.1
22.5°	17954.7	18022.6	17674.3	17319.7	16971.5	16718.7	16465.9	16512.2	16432.0	16376.6	16336.5
25°	20673.3	20725.7	20161.6	19563.6	18854.8	17930.0	17304.3	17276.5	17233.4	17199.5	17181.0
27.5°	23231.7	23253.2	22720.0	21844.6	21021.6	19693.1	18155.1	18121.0	18068.8	18004.0	17948.6
30°	25420.1	25413.9	24865.3	24029.9	23148.4	21678.1	19446.5	19341.7	19187.6	19011.8	18876.2
32.5°	27315.8	27306.5	26705.4	25839.4	24914.6	23644.7	21215.9	21000.0	20759.6	20417.5	20211.0
35°	28807.7	28801.5	28234.3	27331.2	26270.9	25497.2	23244.1	22978.9	22673.7	22214.5	21896.9
37.5°	29371.7	29371.7	29054.2	28437.8	27500.7	26970.5	25497.2	25176.6	24849.9	24329.0	23971.4
40°	29041.8	29048.0	29115.9	29001.8	28545.6	28138.7	27599.3	27408.2	27127.8	26659.3	26286.2
42.5°	27935.3	27969.3	28419.2	28970.9	29199.1	29134.3	29464.2	29377.8	29180.6	28820.0	28524.1
45°	26532.8	26637.6	27130.8	28172.6	29380.9	29994.3	31026.9	31036.1	30999.1	30805.0	30576.9
47.5°	24606.4	24754.4	25404.8	26813.4	28955.6	30829.6	32614.3	32697.6	32774.6	32648.2	32543.4
50°	22048.1	22223.8	23197.7	25065.6	28089.5	31695.8	35613.5	35989.5	36340.8	36297.8	36368.6
52.5°	19307.9	19514.4	20707.3	22787.7	26600.7	31896.2	37530.7	38144.0	38757.4	39259.9	39793.1
55°	16835.8	16724.9	17917.7	20109.2	24153.3	30993.0	39253.7	39993.5	40677.8	41294.2	41929.3
57.5°	13485.4	13667.1	14863.1	17030.0	20913.8	28443.9	40440.4	41522.4	42505.5	43525.8	44425.9
60°	9857.4	10039.2	11336.8	13537.7	17396.8	24578.6	39534.2	41174.1	42749.1	44311.8	45532.4
62.5°	5952.0	6087.6	7231.3	9327.1	13414.5	19995.2	35496.3	37647.8	39965.7	41833.6	43704.6
65°	3705.0	3782.0	4204.3	5357.1	8615.2	14927.8	29001.8	31347.5	33844.1	36214.5	38159.5
67.5°	3033.0	3060.8	3137.8	3384.5	4731.4	9734.0	21585.7	23663.2	25916.4	28209.6	30373.4
70°	2727.8	2709.4	2709.4	2724.8	3033.0	5233.8	14132.5	15485.8	17362.8	19357.1	21336.0
72.5°	2462.8	2444.3	2410.4	2364.2	2475.2	3193.3	7305.2	8325.4	9678.6	11450.9	13346.6
75°	2213.1	2188.5	2148.4	2089.8	2166.9	2410.4	3507.7	3936.2	4595.8	5539.0	6596.2
77.5°	1954.2	1923.4	1886.4	1843.2	1941.9	1874.1	2055.9	2210.1	2462.8	2765.0	3162.5
80°	1661.4	1633.7	1621.3	1599.8	1716.9	1427.2	1451.8	1547.3	1695.2	1858.6	2043.5
82.5°	1300.7	1300.7	1350.1	1359.3	1488.7	1026.4	1085.0	1168.2	1245.2	1331.6	1417.8
85°	856.9	863.0	1029.6	1094.2	1174.4	690.4	813.8	841.6	903.1	952.4	989.5
87.5°	268.1	289.7	628.8	696.6	675.0	391.4	499.4	511.7	554.8	588.7	619.5
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4
2.5°	5871.9	5834.9	5801.0	5797.9	5773.3	5739.3	5751.6	5699.3	5702.3	5674.6	5643.8
5°	6904.4	6879.8	6756.5	6722.6	6630.2	6571.6	6562.3	6438.9	6423.6	6352.8	6275.7
7.5°	8390.1	8310.0	8137.4	8054.1	7896.9	7779.8	7724.4	7561.0	7480.9	7295.9	7212.6
10°	9946.8	9845.1	9632.3	9515.2	9364.2	9176.1	9074.4	8837.1	8744.7	8575.1	8371.7
12.5°	11389.3	11287.6	11068.7	10979.4	10779.0	10578.6	10467.7	10199.5	10079.2	9807.9	9647.7
15°	12723.9	12622.1	12431.1	12338.6	12138.2	11975.0	11827.0	11562.0	11420.1	11167.4	10957.7
17.5°	14018.5	13910.7	13744.2	13661.0	13466.7	13300.3	13140.1	12890.4	12745.5	12492.7	12304.8
20°	15220.7	15140.5	15020.3	14909.3	14715.1	14564.0	14372.9	14157.3	13947.6	13762.8	13583.8
22.5°	16268.6	16237.8	16108.3	16059.0	15892.7	15763.2	15596.6	15384.0	15232.9	14998.7	14832.3
25°	17171.7	17162.6	17100.8	17085.4	16968.3	16845.0	16808.0	16632.3	16493.7	16287.2	16114.5
27.5°	17948.6	17957.8	17942.3	17985.5	17954.7	17899.2	17902.2	17843.6	17763.6	17591.0	17440.0
30°	18811.6	18762.2	18790.0	18851.6	18870.1	18876.2	18978.0	19011.8	19005.7	18891.7	18817.7
32.5°	20032.1	19915.0	19807.2	19797.9	19859.6	19884.2	20056.8	20146.2	20223.3	20250.9	20263.3
35°	21588.7	21354.5	21129.5	21009.3	20904.5	20932.2	21055.6	21200.3	21369.9	21487.0	21625.8
37.5°	23549.0	23262.5	22864.9	22581.2	22510.3	22356.3	22436.4	22550.4	22716.8	22898.8	23139.2
40°	25925.6	25491.1	25044.1	24668.0	24464.6	24181.0	24178.0	24156.3	24258.1	24427.6	24766.7
42.5°	28212.7	27827.5	27352.7	26958.2	26693.1	26314.0	26237.0	26036.6	26082.8	26230.8	26560.6
45°	30355.0	30037.4	29747.7	29291.6	29066.6	28656.6	28527.1	28289.9	28157.2	28225.1	28554.9
47.5°	32429.4	32225.9	31923.9	31628.0	31455.4	31088.5	30922.1	30752.5	30583.1	30576.9	30922.1
50°	36473.5	36365.6	36008.0	35699.8	35783.0	35333.0	35360.6	34904.5	35111.0	35135.7	35860.1
52.5°	40273.9	40650.0	40915.1	41238.7	41448.4	41488.4	41627.1	41833.6	42083.3	42576.4	43248.4
55°	42450.1	42921.7	43195.9	43442.6	43849.4	43935.8	44167.0	44441.3	44660.2	45215.0	45785.2
57.5°	45036.2	45911.7	46337.0	46728.4	47277.0	47486.7	47872.0	48171.0	48454.6	49111.1	49801.5
60°	46629.7	47696.2	48562.4	49182.0	49869.3	50362.5	50945.1	51413.6	52079.3	52865.3	53894.9
62.5°	45363.0	46928.7	48078.5	49141.9	50075.8	51019.0	51854.3	52729.7	53740.7	54930.5	56527.1
65°	40317.1	41910.6	43880.2	44983.7	46219.8	47674.7	48944.7	50362.5	51740.3	53472.6	55833.6
67.5°	32457.1	34309.6	36522.7	37635.5	39056.5	40680.8	42104.9	43837.1	45446.2	47545.3	50464.2
70°	23395.0	25790.0	27651.8	28813.8	30472.1	32145.8	33520.5	35536.3	36868.0	39019.4	42037.1
72.5°	14813.8	16703.2	18984.3	20448.3	21921.7	23616.9	25022.5	26761.0	28003.1	29963.5	32697.6
75°	7964.8	9358.0	11361.6	12751.6	14329.8	15778.5	17424.5	18589.6	19508.1	21058.6	23277.9
77.5°	3732.8	4580.3	5594.5	6664.0	7733.6	8849.5	9934.4	10877.7	11272.2	12159.9	13469.8
80°	2265.5	2539.8	2835.8	3165.6	3612.5	3973.1	4450.9	4796.2	4820.8	5101.4	5502.0
82.5°	1513.5	1615.2	1704.6	1787.8	1901.7	1991.2	2092.9	2213.1	2262.4	2327.2	2456.5
85°	1032.6	1081.8	1100.4	1152.8	1140.4	1171.3	1211.3	1251.4	1273.0	1269.9	1328.5
87.5°	635.1	659.6	672.0	684.3	675.0	662.6	681.2	702.7	709.0	690.4	696.6
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4
2.5°	5649.9	5622.2	5594.5	5575.9	5569.8	5406.4	5335.5	5289.3	5190.7	5110.5	5045.8
5°	6232.4	6173.9	6127.7	6072.2	6041.4	5628.4	5477.3	5372.5	5199.8	5098.2	5005.7
7.5°	7169.6	7006.1	6910.6	6802.7	6710.2	5964.4	5714.7	5551.4	5310.9	5175.3	5070.5
10°	8232.9	8063.5	7912.3	7745.9	7601.0	6411.4	6047.6	5794.8	5477.3	5301.6	5162.9
12.5°	9419.7	9253.1	9062.1	8849.5	8664.5	6978.4	6472.9	6112.3	5677.6	5443.4	5249.3
15°	10822.1	10529.4	10298.1	10051.6	9835.7	7656.6	6969.2	6469.9	5890.3	5572.9	5314.0
17.5°	12125.9	11817.7	11503.4	11287.6	11037.9	8417.9	7468.5	6833.5	6066.1	5656.2	5326.3
20°	13399.0	13063.0	12791.7	12502.0	12240.0	9206.9	8001.8	7154.1	6180.1	5659.2	5249.3
22.5°	14521.0	14311.4	14009.2	13694.9	13429.8	9996.0	8501.1	7425.4	6223.3	5588.3	5113.7
25°	15797.0	15575.1	15205.2	14940.1	14644.2	10800.5	8991.2	7634.9	6198.6	5455.8	4904.0
27.5°	17159.3	16912.9	16533.7	16256.3	15898.8	11635.9	9441.2	7786.1	6106.2	5240.0	4623.6
30°	18580.4	18355.3	17982.4	17701.9	17341.3	12520.4	9943.6	7887.8	5921.2	4941.0	4296.8
32.5°	20106.1	19918.2	19548.2	19255.5	18870.1	13479.1	10412.2	7918.6	5640.7	4586.4	3951.6
35°	21554.8	21425.4	21114.2	20839.8	20439.0	14385.3	10908.5	7903.2	5307.9	4198.2	3637.1
37.5°	23185.5	23108.4	22954.3	22606.0	22115.8	15615.3	11503.4	7838.4	4901.0	3812.8	3396.8
40°	24923.9	24930.0	24763.6	24526.2	24070.1	17107.0	12212.2	7712.1	4457.1	3473.8	3178.0
42.5°	26764.0	26859.5	26779.5	26609.9	26172.2	18611.2	13059.9	7557.9	4025.5	3144.1	2962.1
45°	28872.3	28989.4	29112.7	28863.1	28437.8	20596.3	14175.8	7357.5	3560.1	2869.7	2814.2
47.5°	31304.3	31489.3	31600.2	31603.4	31178.0	23056.0	15988.1	7237.4	3147.1	2684.7	2743.3
50°	36436.5	36495.0	36757.0	37213.1	36886.5	28749.1	19153.7	7163.4	2866.6	2570.7	2690.8
52.5°	43831.0	44475.2	44928.3	44897.5	44453.7	32364.7	20898.3	6781.1	2700.2	2527.5	2666.3
55°	46842.4	47647.0	48485.3	48707.2	48362.1	35450.0	22547.4	6399.0	2620.0	2558.3	2675.4
57.5°	50855.7	52211.9	53361.5	53845.5	53346.2	39398.6	24717.4	6198.6	2595.4	2641.6	2734.0
60°	55543.9	57220.7	58731.1	59600.3	59600.3	43935.8	26967.5	6115.3	2561.5	2765.0	2832.6
62.5°	58555.4	61018.1	63299.2	64572.1	64535.1	47095.2	27966.1	5831.8	2484.3	2851.1	2968.3
65°	58567.7	61495.9	64402.6	65832.7	65906.8	46706.8	26317.1	5150.6	2342.6	2863.4	3103.9
67.5°	53685.3	56807.7	60195.2	61795.0	62164.8	42995.7	22781.6	4235.1	2111.4	2740.2	3153.2
70°	45341.4	48389.9	51848.2	53420.1	54076.7	36652.2	18349.2	3264.2	1815.5	2468.9	3051.5
72.5°	35721.3	38711.2	41118.5	42268.2	42779.9	28015.5	13362.0	2465.9	1488.7	2080.7	2777.2
75°	25290.7	27534.7	28813.8	29069.6	29149.8	16888.2	8118.9	1834.0	1226.8	1618.2	2345.7
77.5°	14274.4	15236.1	15131.2	15245.3	14295.9	6519.2	3535.4	1313.1	1010.9	1229.8	1818.6
80°	5572.9	5745.5	5397.2	5289.3	4851.6	2425.8	1559.6	915.5	807.5	930.9	1273.0
82.5°	2456.5	2536.8	2462.8	2481.3	2373.4	1251.4	933.9	662.6	616.4	681.2	844.6
85°	1353.1	1377.8	1371.6	1411.7	1353.1	499.4	443.8	406.9	431.6	462.3	542.5
87.5°	659.6	665.8	644.2	678.1	656.5	252.7	218.8	231.2	252.7	259.0	259.0
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):

	135°	145°	155°	165°	175°	180°
0°	5292.4	5292.4	5292.4	5292.4	5292.4	5292.4
2.5°	4999.6	4974.9	4978.0	4971.9	4959.5	4959.5
5°	4956.4	4931.8	4931.8	4925.6	4910.2	4913.3
7.5°	4999.6	4959.5	4944.1	4922.4	4901.0	4901.0
10°	5048.9	4978.0	4934.8	4897.9	4870.1	4870.1
12.5°	5085.9	4974.9	4904.0	4854.7	4827.0	4827.0
15°	5098.2	4953.4	4854.7	4796.2	4771.5	4768.4
17.5°	5058.1	4870.1	4749.9	4682.1	4651.2	4642.0
20°	4934.8	4719.1	4574.2	4497.1	4454.0	4438.5
22.5°	4749.9	4503.3	4333.8	4253.7	4198.2	4188.9
25°	4491.0	4225.9	4059.4	3982.4	3951.6	3942.3
27.5°	4188.9	3942.3	3800.6	3751.2	3723.4	3720.4
30°	3902.3	3692.6	3587.8	3550.8	3516.9	3510.8
32.5°	3634.1	3501.5	3461.5	3409.1	3328.9	3319.8
35°	3443.0	3430.6	3402.9	3285.8	3187.2	3159.4
37.5°	3325.9	3439.9	3298.1	3066.9	2996.0	2989.9
40°	3258.0	3344.3	3100.9	3020.7	3026.9	3020.7
42.5°	3103.9	3193.3	3107.0	3069.9	3094.7	3100.9
45°	2949.8	3048.5	3153.2	3128.5	3187.2	3187.2
47.5°	2863.4	3011.4	3150.2	3150.2	3236.5	3267.3
50°	2765.0	2980.6	3100.9	3144.1	3211.7	3187.2
52.5°	2758.7	2928.2	3030.0	3107.0	3137.8	3110.1
55°	2768.0	2885.1	2959.1	3045.4	3082.3	3085.5
57.5°	2780.3	2860.4	2909.7	2949.8	3060.8	3060.8
60°	2811.1	2838.9	2866.6	2888.2	3033.0	3036.1
62.5°	2860.4	2817.2	2811.1	2832.6	3017.6	3005.2
65°	2937.4	2786.4	2740.2	2761.7	3002.2	2965.2
67.5°	3042.4	2740.2	2650.8	2666.3	2989.9	2909.7
70°	3137.8	2666.3	2539.8	2524.4	2872.8	2730.9
72.5°	3147.1	2579.9	2385.7	2339.5	2496.7	2361.1
75°	2992.9	2521.3	2216.3	2080.7	2062.0	2043.5
77.5°	2697.1	2487.5	2018.9	1806.3	1769.2	1781.6
80°	2256.3	2361.1	1781.6	1528.9	1729.2	1707.6
82.5°	1686.1	2083.7	1513.5	1353.1	1350.1	1192.9
85°	937.0	1624.3	1233.0	1014.2	705.9	684.3
87.5°	262.0	903.1	863.0	573.3	391.4	406.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)