

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: P194758

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194758
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-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61380 lumens
Efficiency: N/A
Efficacy: 110.0 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): 558
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

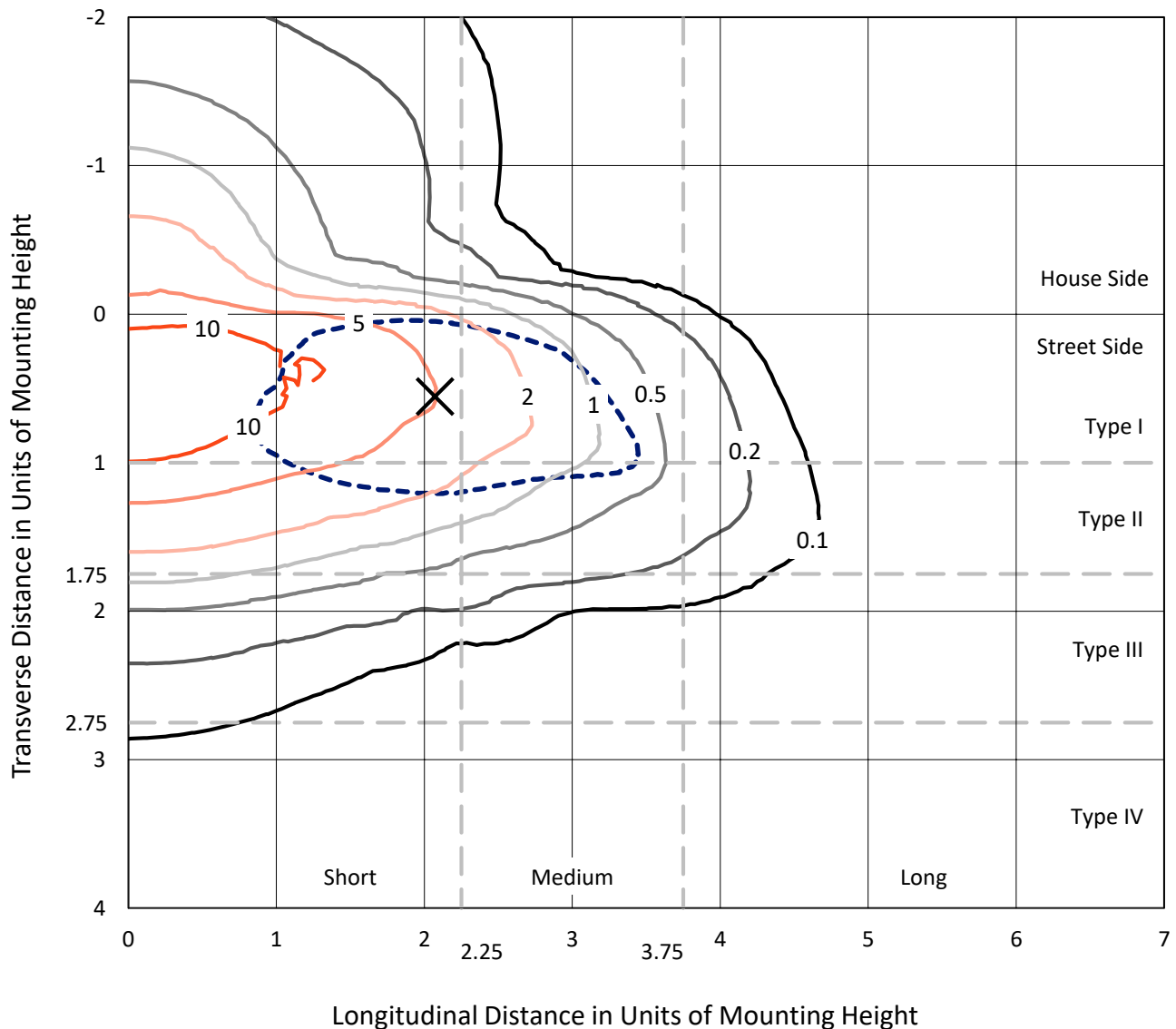


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

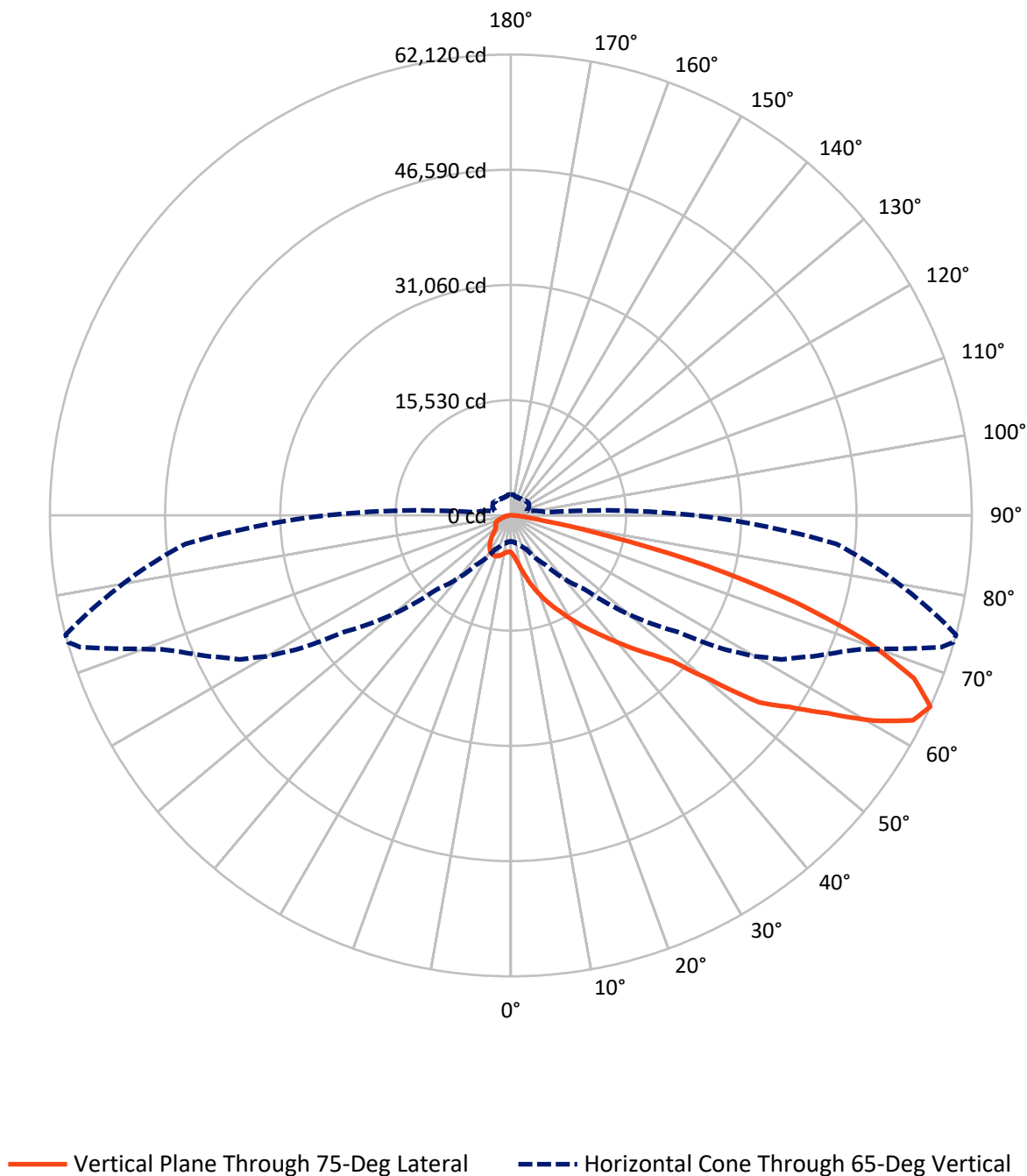


Based on 30 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9463.4	0.0	9463.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	51916.6	0.0	51916.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	61380.0	0.0	61380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.6	1.0
10°-20°	2409.1	3.9
20°-30°	4942.6	8.1
30°-40°	8315.7	13.5
40°-50°	11490.0	18.7
50°-60°	14343.0	23.4
60°-70°	12907.2	21.0
70°-80°	5410.6	8.8
80°-90°	945.2	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°	61380.0	100.0
0°-180°	61380.0	100.0

Coefficient of Utilization



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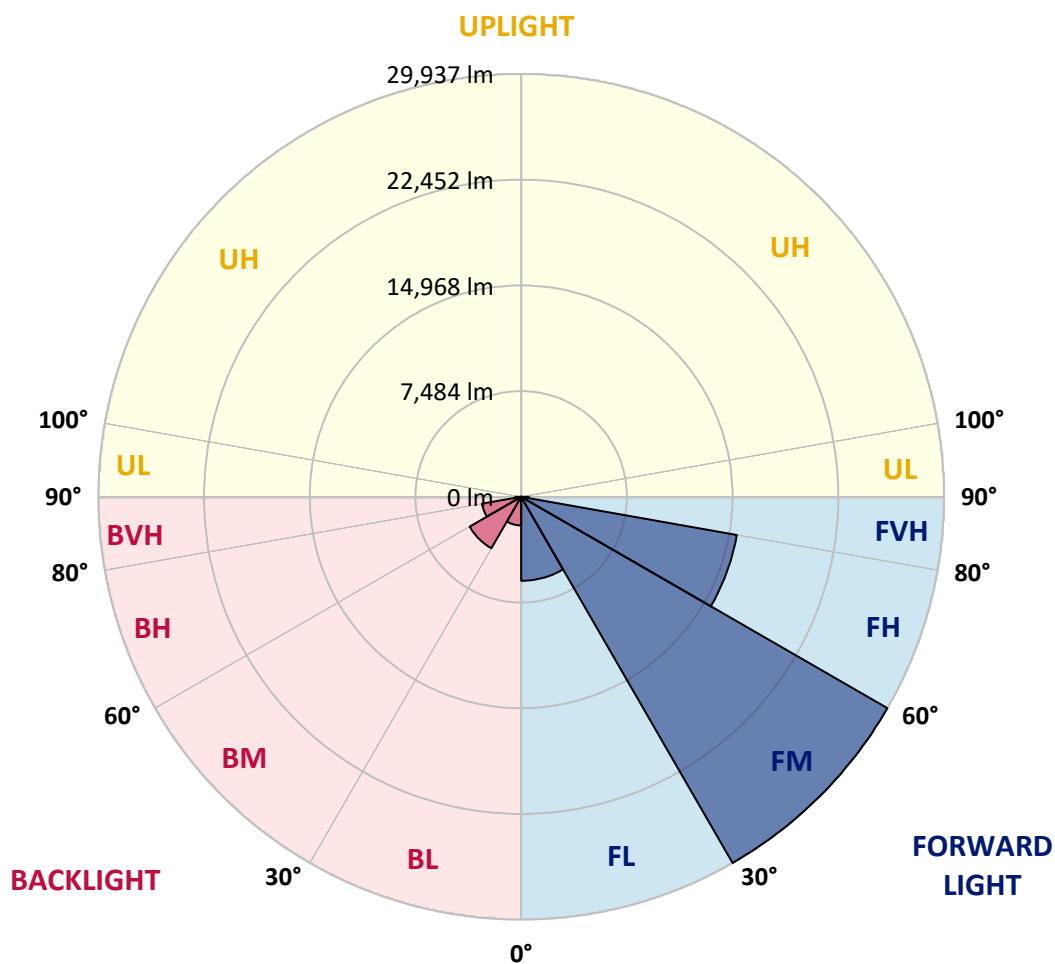
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5944.5	9.7			
FM	(30°-60°)	29936.5	48.8			
FH	(60°-80°)	15504.4	25.3			G5
FVH	(80°-90°)	531.3	0.9			G4/750
BL	(0°-30°)	2023.8	3.3	B3/2500		
BM	(30°-60°)	4212.3	6.9	B3/5000		
BH	(60°-80°)	2813.3	4.6	B4/5000		G4/5000
BVH	(80°-90°)	413.9	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°	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3
2.5°	6333.4	6263.7	6281.1	6164.9	6022.6	5836.6	5630.4	5627.5	5630.4	5610.0	5534.5
5°	8782.5	8698.3	8666.3	8404.9	8021.4	7475.2	6882.5	6818.6	6792.5	6725.6	6571.7
7.5°	10569.3	10522.8	10473.4	10275.8	9927.2	9317.1	8521.1	8384.5	8253.8	8221.8	8047.5
10°	11722.6	11711.0	11606.4	11554.1	11336.3	10807.5	10031.8	9901.1	9758.7	9709.3	9526.3
12.5°	12634.9	12632.0	12582.6	12597.1	12408.3	12024.8	11356.6	11237.5	11132.9	10981.8	10851.1
15°	13265.3	13268.2	13340.9	13422.2	13393.2	13134.6	12507.1	12454.8	12364.7	12260.1	12106.1
17.5°	13782.5	13797.0	13872.5	14020.7	14180.5	14160.1	13663.3	13619.8	13541.3	13399.0	13317.6
20°	14950.4	15005.6	14860.3	14860.3	14877.7	14956.2	14718.0	14683.1	14572.7	14497.2	14433.2
22.5°	16923.0	16986.9	16658.7	16324.6	15996.3	15758.0	15519.8	15563.4	15487.8	15435.5	15397.8
25°	19485.5	19534.8	19003.2	18439.6	17771.4	16899.8	16310.0	16283.9	16243.2	16211.2	16193.8
27.5°	21896.8	21917.1	21414.5	20589.4	19813.7	18561.6	17111.9	17079.9	17030.5	16969.5	16917.2
30°	23959.5	23953.7	23436.6	22649.3	21818.4	20432.6	18329.2	18230.4	18085.1	17919.5	17791.7
32.5°	25746.2	25737.5	25171.0	24354.6	23483.1	22286.1	19996.8	19793.4	19566.8	19244.3	19049.7
35°	27152.4	27146.6	26612.0	25760.8	24761.4	24032.2	21908.4	21658.6	21371.0	20938.1	20638.8
37.5°	27684.0	27684.0	27384.8	26803.8	25920.6	25420.9	24032.2	23730.0	23422.1	22931.1	22594.1
40°	27373.2	27379.0	27442.9	27335.4	26905.4	26521.9	26013.5	25833.4	25569.0	25127.4	24775.9
42.5°	26330.2	26362.2	26786.3	27306.4	27521.3	27460.3	27771.2	27689.9	27503.9	27164.0	26885.1
45°	25008.3	25107.1	25571.9	26553.9	27692.8	28270.9	29244.2	29252.9	29218.0	29035.0	28820.0
47.5°	23192.5	23332.0	23945.0	25272.7	27291.8	29058.2	30740.4	30818.8	30891.4	30772.3	30673.5
50°	20781.2	20946.8	21864.8	23625.4	26475.5	29874.6	33567.2	33921.6	34252.8	34212.1	34278.9
52.5°	18198.4	18393.1	19517.4	21478.4	25072.2	30063.4	35374.2	35952.4	36530.5	37004.1	37506.7
55°	15868.4	15763.8	16888.2	18953.8	22765.5	29212.2	36998.2	37695.5	38340.5	38921.5	39520.0
57.5°	12710.4	12881.8	14009.1	16051.5	19712.1	26809.6	38116.8	39136.5	40063.3	41024.9	41873.2
60°	9291.0	9462.4	10685.5	12759.8	16397.2	23166.4	37262.6	38808.2	40292.8	41765.7	42916.2
62.5°	5610.0	5737.9	6815.7	8791.3	12643.6	18846.3	33456.8	35484.6	37669.4	39429.9	41193.4
65°	3492.1	3564.7	3962.7	5049.3	8120.1	14070.1	27335.4	29546.3	31899.5	34133.7	35966.9
67.5°	2858.8	2884.9	2957.5	3190.0	4459.5	9174.8	20345.4	22303.5	24427.3	26588.8	28628.2
70°	2571.1	2553.7	2553.7	2568.2	2858.8	4933.1	13320.5	14595.9	16365.2	18244.9	20110.1
72.5°	2321.3	2303.9	2271.9	2228.3	2332.9	3009.8	6885.4	7847.1	9122.5	10793.0	12579.7
75°	2086.0	2062.7	2025.0	1969.8	2042.4	2271.9	3306.2	3710.0	4331.7	5220.7	6217.2
77.5°	1841.9	1812.9	1778.0	1737.3	1830.3	1766.4	1937.8	2083.1	2321.3	2606.0	2980.8
80°	1565.9	1539.8	1528.2	1507.8	1618.2	1345.1	1368.4	1458.4	1597.9	1751.9	1926.2
82.5°	1226.0	1226.0	1272.5	1281.2	1403.2	967.4	1022.6	1101.1	1173.7	1255.1	1336.4
85°	807.7	813.5	970.4	1031.4	1106.9	650.8	767.0	793.1	851.2	897.7	932.6
87.5°	252.8	273.1	592.7	656.6	636.2	369.0	470.6	482.3	522.9	554.9	584.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3
2.5°	5534.5	5499.6	5467.7	5464.8	5441.5	5409.6	5421.2	5371.8	5374.7	5348.5	5319.5
5°	6507.7	6484.5	6368.3	6336.3	6249.2	6194.0	6185.3	6069.0	6054.5	5987.7	5915.1
7.5°	7908.1	7832.5	7669.8	7591.4	7443.2	7332.8	7280.5	7126.6	7051.0	6876.7	6798.3
10°	9375.2	9279.3	9078.9	8968.5	8826.1	8648.9	8553.0	8329.3	8242.2	8082.4	7890.6
12.5°	10734.9	10639.0	10432.7	10348.5	10159.6	9970.8	9866.2	9613.4	9500.1	9244.5	9093.4
15°	11992.8	11897.0	11716.8	11629.7	11440.8	11286.9	11147.4	10897.6	10763.9	10525.7	10328.1
17.5°	13213.0	13111.4	12954.5	12876.0	12693.0	12536.1	12385.0	12149.7	12013.2	11774.9	11597.7
20°	14346.1	14270.5	14157.2	14052.7	13869.6	13727.3	13547.1	13343.8	13146.2	12971.9	12803.4
22.5°	15333.9	15304.8	15182.8	15136.3	14979.4	14857.4	14700.5	14500.1	14357.7	14136.9	13980.0
25°	16185.1	16176.4	16118.3	16103.8	15993.4	15877.1	15842.3	15676.7	15545.9	15351.3	15188.6
27.5°	16917.2	16925.9	16911.4	16952.1	16923.0	16870.7	16873.6	16818.4	16742.9	16580.2	16437.9
30°	17730.7	17684.2	17710.4	17768.5	17785.9	17791.7	17887.6	17919.5	17913.7	17806.2	17736.5
32.5°	18881.2	18770.8	18669.1	18660.4	18718.5	18741.7	18904.4	18988.7	19061.3	19087.4	19099.1
35°	20348.3	20127.5	19915.4	19802.1	19703.3	19729.5	19845.7	19982.2	20142.0	20252.4	20383.2
37.5°	22196.0	21925.9	21551.1	21283.8	21217.0	21071.7	21147.3	21254.7	21411.6	21583.0	21809.6
40°	24436.0	24026.3	23605.1	23250.6	23058.9	22791.6	22788.7	22768.4	22864.2	23024.0	23343.6
42.5°	26591.7	26228.5	25781.1	25409.2	25159.4	24802.0	24729.4	24540.6	24584.2	24723.6	25034.5
45°	28610.8	28311.6	28038.5	27608.5	27396.4	27010.0	26888.0	26664.3	26539.4	26603.3	26914.2
47.5°	30566.0	30374.3	30089.6	29810.7	29648.0	29302.3	29145.4	28985.6	28825.8	28820.0	29145.4
50°	34377.7	34276.0	33939.0	33648.5	33726.9	33302.8	33328.9	32899.0	33093.6	33116.8	33799.6
52.5°	37959.9	38314.3	38564.2	38869.2	39066.8	39104.5	39235.3	39429.9	39665.3	40130.1	40763.4
55°	40011.0	40455.5	40714.0	40946.5	41330.0	41411.3	41629.2	41887.8	42094.0	42617.0	43154.5
57.5°	42448.5	43273.6	43674.5	44043.5	44560.6	44758.1	45121.3	45403.1	45670.4	46289.2	46940.0
60°	43950.5	44955.7	45772.1	46356.0	47003.9	47468.7	48017.8	48459.4	49087.0	49827.8	50798.1
62.5°	42756.4	44232.3	45316.0	46318.3	47198.5	48087.6	48874.9	49700.0	50652.9	51774.3	53279.2
65°	38000.6	39502.6	41359.0	42399.1	43564.1	44935.4	46132.3	47468.7	48767.4	50400.1	52625.5
67.5°	30592.2	32338.2	34424.2	35473.0	36812.3	38343.4	39685.6	41318.3	42834.9	44813.3	47564.6
70°	22050.8	24308.2	26062.9	27158.2	28721.2	30298.8	31594.5	33494.5	34749.6	36777.4	39621.7
72.5°	13962.6	15743.5	17893.4	19273.4	20662.1	22260.0	23584.7	25223.3	26394.1	28241.8	30818.8
75°	7507.1	8820.3	10708.7	12019.0	13506.5	14871.9	16423.3	17521.5	18387.3	19848.6	21940.4
77.5°	3518.2	4317.2	5273.0	6281.1	7289.3	8340.9	9363.6	10252.6	10624.5	11461.2	12695.9
80°	2135.4	2393.9	2672.8	2983.7	3404.9	3744.9	4195.2	4520.6	4543.8	4808.2	5185.9
82.5°	1426.5	1522.3	1606.6	1685.0	1792.5	1876.8	1972.7	2086.0	2132.4	2193.5	2315.5
85°	973.3	1019.7	1037.2	1086.6	1074.9	1104.0	1141.8	1179.5	1199.9	1197.0	1252.2
87.5°	598.5	621.7	633.3	645.0	636.2	624.6	642.1	662.4	668.2	650.8	656.6
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°	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3
2.5°	5325.3	5299.2	5273.0	5255.6	5249.8	5095.8	5029.0	4985.4	4892.4	4816.9	4755.9
5°	5874.4	5819.2	5775.6	5723.3	5694.3	5305.0	5162.6	5063.8	4901.1	4805.3	4718.1
7.5°	6757.6	6603.6	6513.6	6411.9	6324.7	5621.6	5386.3	5232.3	5005.7	4877.9	4779.1
10°	7759.9	7600.1	7457.8	7300.9	7164.3	6042.9	5700.1	5461.9	5162.6	4997.0	4866.3
12.5°	8878.4	8721.5	8541.4	8340.9	8166.6	6577.5	6101.0	5761.1	5351.5	5130.7	4947.6
15°	10200.3	9924.3	9706.4	9474.0	9270.6	7216.6	6568.8	6098.1	5551.9	5252.7	5008.6
17.5°	11429.2	11138.7	10842.4	10639.0	10403.7	7934.2	7039.4	6440.9	5717.5	5331.1	5020.3
20°	12629.1	12312.4	12056.8	11783.7	11536.7	8678.0	7542.0	6743.1	5825.0	5334.0	4947.6
22.5°	13686.6	13489.0	13204.3	12908.0	12658.1	9421.7	8012.7	6998.7	5865.7	5267.2	4819.8
25°	14889.4	14680.2	14331.6	14081.7	13802.8	10180.0	8474.6	7196.3	5842.4	5142.3	4622.2
27.5°	16173.5	15941.1	15583.7	15322.2	14985.2	10967.3	8898.8	7338.6	5755.3	4938.9	4357.9
30°	17512.8	17300.7	16949.2	16684.8	16344.9	11801.1	9372.3	7434.5	5581.0	4657.1	4049.9
32.5°	18950.9	18773.7	18425.0	18149.0	17785.9	12704.6	9813.9	7463.6	5316.6	4323.0	3724.5
35°	20316.4	20194.3	19900.9	19642.3	19264.7	13558.8	10281.6	7449.0	5002.8	3956.9	3428.2
37.5°	21853.2	21780.6	21635.3	21307.0	20845.1	14718.0	10842.4	7388.0	4619.3	3593.8	3201.6
40°	23491.8	23497.6	23340.7	23117.0	22687.0	16124.1	11510.6	7268.9	4201.0	3274.2	2995.3
42.5°	25226.2	25316.3	25240.7	25080.9	24668.4	17541.8	12309.5	7123.7	3794.2	2963.3	2791.9
45°	27213.4	27323.8	27440.0	27204.7	26803.8	19412.8	13361.2	6934.8	3355.6	2704.8	2652.5
47.5°	29505.6	29679.9	29784.5	29787.4	29386.5	21731.2	15069.5	6821.5	2966.3	2530.5	2585.7
50°	34342.9	34398.1	34645.0	35075.0	34767.0	27097.2	18053.2	6751.8	2701.9	2423.0	2536.3
52.5°	41312.5	41919.7	42346.8	42317.7	41899.4	30505.0	19697.5	6391.5	2545.0	2382.3	2513.0
55°	44151.0	44909.2	45699.4	45908.6	45583.2	33413.2	21251.8	6031.3	2469.5	2411.4	2521.7
57.5°	47933.6	49211.9	50295.5	50751.7	50281.0	37134.8	23297.1	5842.4	2446.2	2489.8	2576.9
60°	52352.4	53932.9	55356.5	56175.7	56175.7	41411.3	25418.0	5764.0	2414.3	2606.0	2669.9
62.5°	55190.9	57512.2	59662.0	60861.9	60827.0	44389.2	26359.3	5496.7	2341.6	2687.3	2797.7
65°	55202.5	57962.5	60702.1	62050.1	62119.9	44023.1	24804.9	4854.7	2208.0	2699.0	2925.6
67.5°	50600.6	53543.6	56736.5	58244.3	58592.9	40525.2	21472.6	3991.8	1990.1	2582.8	2972.1
70°	42736.1	45609.4	48869.1	50350.7	50969.6	34546.2	17294.9	3076.7	1711.2	2327.1	2876.2
72.5°	33668.8	36486.9	38755.9	39839.6	40321.8	26405.7	12594.2	2324.2	1403.2	1961.0	2617.6
75°	23837.5	25952.5	27158.2	27399.3	27474.9	15917.8	7652.4	1728.6	1156.3	1525.3	2210.9
77.5°	13454.2	14360.6	14261.8	14369.3	13474.5	6144.6	3332.3	1237.6	952.9	1159.2	1714.1
80°	5252.7	5415.4	5087.1	4985.4	4572.8	2286.4	1470.1	862.9	761.2	877.4	1199.9
82.5°	2315.5	2391.0	2321.3	2338.7	2237.0	1179.5	880.3	624.6	581.0	642.1	796.0
85°	1275.4	1298.6	1292.8	1330.6	1275.4	470.6	418.4	383.5	406.7	435.8	511.3
87.5°	621.7	627.5	607.2	639.2	618.8	238.2	206.3	217.9	238.2	244.0	244.0
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°	4988.3	4988.3	4988.3	4988.3	4988.3	4988.3
2.5°	4712.3	4689.1	4692.0	4686.2	4674.5	4674.5
5°	4671.6	4648.4	4648.4	4642.6	4628.0	4631.0
7.5°	4712.3	4674.5	4660.0	4639.7	4619.3	4619.3
10°	4758.8	4692.0	4651.3	4616.4	4590.3	4590.3
12.5°	4793.6	4689.1	4622.2	4575.8	4549.6	4549.6
15°	4805.3	4668.7	4575.8	4520.6	4497.3	4494.4
17.5°	4767.5	4590.3	4477.0	4413.1	4384.0	4375.3
20°	4651.3	4447.9	4311.4	4238.7	4198.1	4183.5
22.5°	4477.0	4244.6	4084.8	4009.2	3956.9	3948.2
25°	4232.9	3983.1	3826.2	3753.6	3724.5	3715.8
27.5°	3948.2	3715.8	3582.2	3535.7	3509.5	3506.6
30°	3678.0	3480.5	3381.7	3346.8	3314.9	3309.1
32.5°	3425.3	3300.4	3262.6	3213.2	3137.7	3128.9
35°	3245.2	3233.5	3207.4	3097.0	3004.0	2977.9
37.5°	3134.8	3242.2	3108.6	2890.7	2823.9	2818.1
40°	3070.8	3152.2	2922.7	2847.1	2852.9	2847.1
42.5°	2925.6	3009.8	2928.5	2893.6	2916.9	2922.7
45°	2780.3	2873.3	2972.1	2948.8	3004.0	3004.0
47.5°	2699.0	2838.4	2969.2	2969.2	3050.5	3079.6
50°	2606.0	2809.4	2922.7	2963.3	3027.3	3004.0
52.5°	2600.2	2760.0	2855.9	2928.5	2957.5	2931.4
55°	2608.9	2719.3	2789.0	2870.4	2905.2	2908.1
57.5°	2620.5	2696.1	2742.5	2780.3	2884.9	2884.9
60°	2649.6	2675.7	2701.9	2722.2	2858.8	2861.7
62.5°	2696.1	2655.4	2649.6	2669.9	2844.2	2832.6
65°	2768.7	2626.3	2582.8	2603.1	2829.7	2794.8
67.5°	2867.5	2582.8	2498.5	2513.0	2818.1	2742.5
70°	2957.5	2513.0	2393.9	2379.4	2707.7	2574.0
72.5°	2966.3	2431.7	2248.7	2205.1	2353.2	2225.4
75°	2821.0	2376.5	2088.9	1961.0	1943.6	1926.2
77.5°	2542.1	2344.5	1902.9	1702.5	1667.6	1679.2
80°	2126.6	2225.4	1679.2	1441.0	1629.8	1609.5
82.5°	1589.2	1963.9	1426.5	1275.4	1272.5	1124.3
85°	883.2	1531.1	1162.1	955.8	665.3	645.0
87.5°	246.9	851.2	813.5	540.4	369.0	383.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)