

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: P193156

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193156
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-08-LED-E1-T2R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 48067.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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



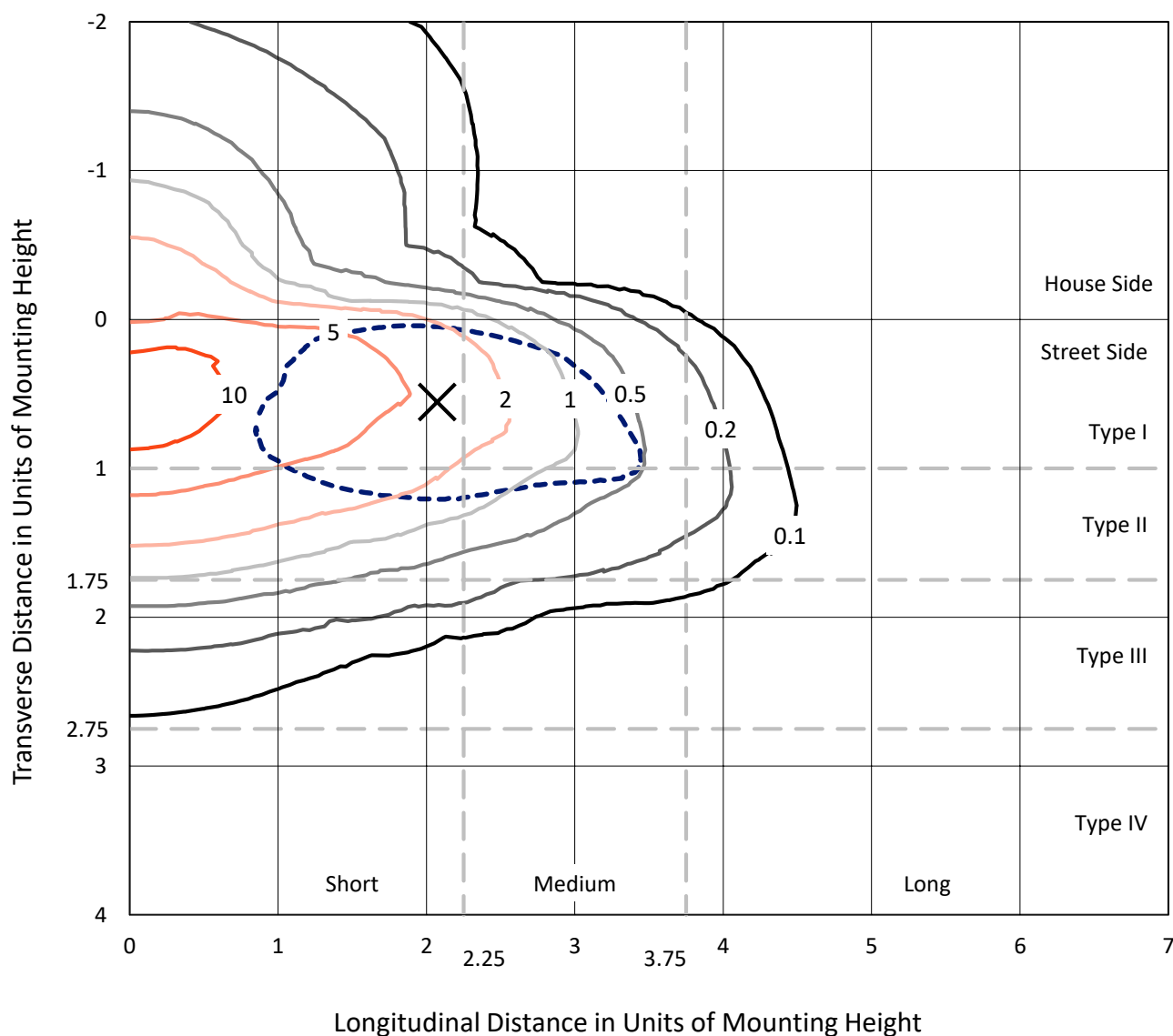
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

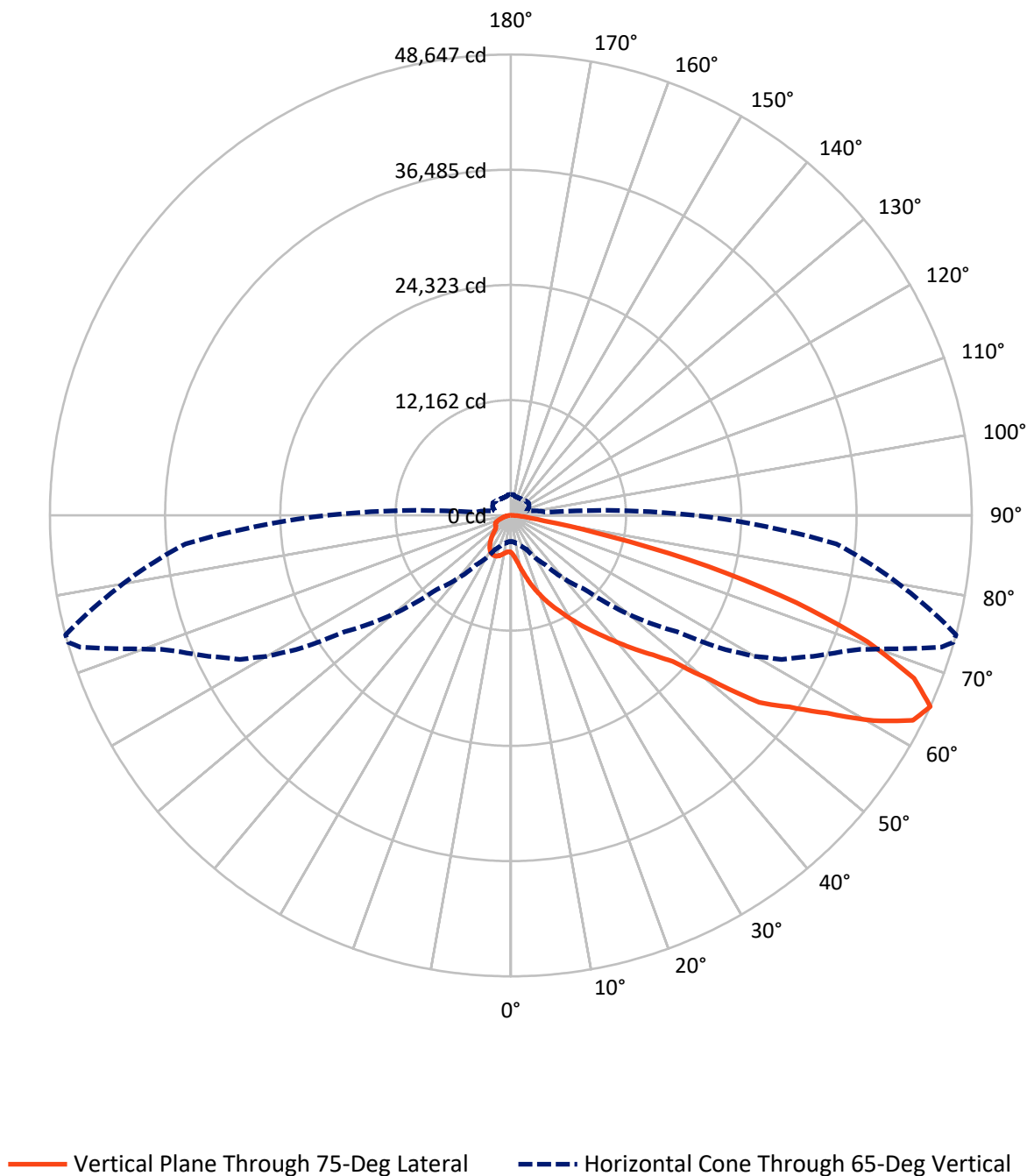


Based on 30 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7410.9	0.0	7410.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	40656.6	0.0	40656.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	48067.5	0.0	48067.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	1.0
10°-20°	1886.6	3.9
20°-30°	3870.7	8.1
30°-40°	6512.2	13.5
40°-50°	8998.0	18.7
50°-60°	11232.2	23.4
60°-70°	10107.8	21.0
70°-80°	4237.1	8.8
80°-90°	740.2	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°	48067.5	100.0
0°-180°	48067.5	100.0

Coefficient of Utilization



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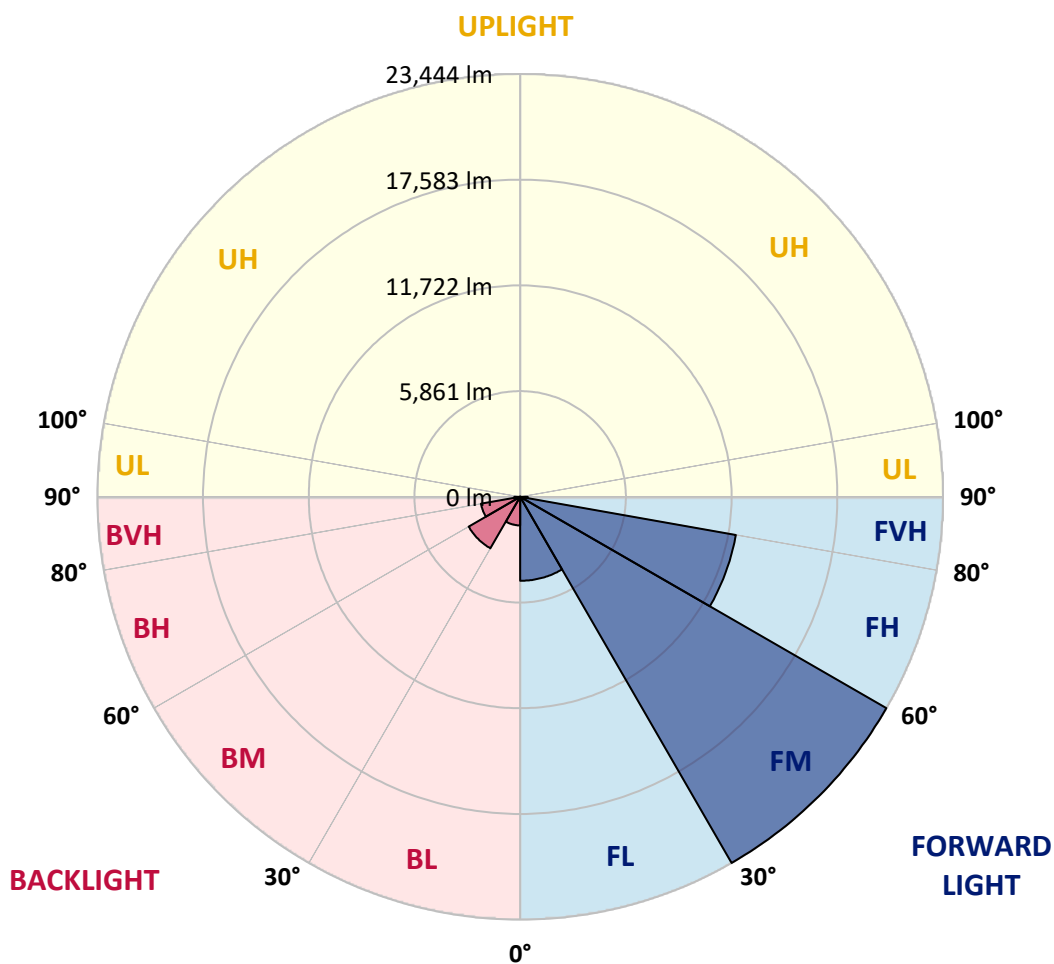
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4655.2	9.7			
FM	(30°-60°)	23443.7	48.8			
FH	(60°-80°)	12141.7	25.3			G5
FVH	(80°-90°)	416.1	0.9			G3/500
BL	(0°-30°)	1584.9	3.3	B3/2500		
BM	(30°-60°)	3298.7	6.9	B3/5000		
BH	(60°-80°)	2203.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	324.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4
2.5°	4959.9	4905.2	4918.9	4827.8	4716.4	4570.8	4409.1	4407.0	4409.1	4393.4	4334.1
5°	6877.8	6811.8	6786.7	6582.0	6281.7	5853.9	5389.8	5339.7	5319.3	5267.0	5146.3
7.5°	8276.9	8240.6	8201.9	8047.2	7774.2	7296.4	6673.0	6566.1	6463.7	6438.6	6302.1
10°	9180.2	9171.1	9089.2	9048.2	8877.6	8463.6	7856.1	7753.7	7642.1	7603.5	7460.1
12.5°	9894.5	9892.4	9853.6	9865.0	9717.1	9416.7	8893.4	8800.2	8718.4	8600.1	8497.6
15°	10388.3	10390.5	10447.4	10511.1	10488.4	10285.8	9794.4	9753.5	9683.0	9601.0	9480.5
17.5°	10793.2	10804.6	10863.7	10979.8	11104.9	11089.0	10700.0	10665.8	10604.3	10492.9	10429.3
20°	11707.9	11751.1	11637.3	11637.3	11651.0	11712.4	11525.9	11498.6	11412.0	11352.9	11302.9
22.5°	13252.6	13302.8	13045.7	12784.0	12526.9	12340.3	12153.8	12187.9	12128.8	12087.8	12058.2
25°	15259.3	15298.1	14881.6	14440.2	13917.0	13234.5	12772.6	12752.0	12720.3	12695.3	12681.6
27.5°	17147.7	17163.6	16769.9	16123.8	15516.5	14535.9	13400.5	13375.5	13336.8	13289.1	13248.1
30°	18763.0	18758.5	18353.5	17736.9	17086.3	16001.0	14353.8	14276.5	14162.7	14033.0	13933.0
32.5°	20162.2	20155.4	19711.8	19072.4	18389.9	17452.5	15659.8	15500.5	15323.1	15070.4	14918.0
35°	21263.4	21258.9	20840.2	20173.6	19391.0	18819.9	17156.8	16961.1	16735.9	16396.9	16162.5
37.5°	21679.8	21679.8	21445.4	20990.4	20298.7	19907.5	18819.9	18583.3	18342.1	17957.7	17693.8
40°	21436.3	21440.8	21491.0	21406.7	21070.0	20769.7	20371.5	20230.5	20023.5	19677.6	19402.4
42.5°	20619.5	20644.5	20976.6	21384.0	21552.4	21504.5	21748.0	21684.3	21538.8	21272.4	21054.0
45°	19584.4	19661.8	20025.7	20794.8	21686.6	22139.3	22901.5	22908.3	22881.1	22737.7	22569.3
47.5°	18162.3	18271.7	18751.6	19791.4	21372.6	22755.9	24073.2	24134.6	24191.5	24098.2	24020.8
50°	16274.0	16403.7	17122.7	18501.4	20733.2	23395.2	26286.9	26564.4	26823.8	26792.0	26844.4
52.5°	14251.4	14403.8	15284.4	16820.0	19634.4	23543.0	27702.0	28154.8	28607.6	28978.4	29371.9
55°	12426.8	12344.8	13225.4	14843.0	17828.0	22876.4	28973.8	29519.8	30025.0	30479.9	30948.7
57.5°	9953.7	10087.9	10970.7	12570.2	15436.8	20994.9	29849.7	30648.4	31374.2	32127.1	32791.6
60°	7275.9	7410.1	8367.9	9992.5	12840.8	18142.0	29180.9	30391.2	31553.8	32707.3	33608.2
62.5°	4393.4	4493.4	5337.5	6884.5	9901.4	14758.7	26200.5	27788.5	29499.4	30878.1	32259.2
65°	2734.8	2791.6	3103.3	3954.2	6359.0	11018.5	21406.7	23138.2	24980.9	26730.6	28166.2
67.5°	2238.7	2259.2	2316.1	2498.1	3492.4	7184.9	15932.7	17466.1	19129.3	20822.0	22419.1
70°	2013.5	1999.9	1999.9	2011.3	2238.7	3863.2	10431.5	11430.2	12815.8	14287.9	15748.5
72.5°	1817.8	1804.2	1779.2	1745.0	1827.0	2357.0	5392.1	6145.2	7143.9	8452.1	9851.4
75°	1633.5	1615.4	1585.8	1542.5	1599.4	1779.2	2589.1	2905.3	3392.2	4088.4	4868.8
77.5°	1442.4	1419.8	1392.4	1360.5	1433.4	1383.3	1517.5	1631.2	1817.8	2040.8	2334.4
80°	1226.3	1205.7	1196.7	1180.8	1267.3	1053.4	1071.7	1142.1	1251.3	1371.9	1508.5
82.5°	960.1	960.1	996.6	1003.3	1098.9	757.6	800.9	862.3	919.2	982.9	1046.6
85°	632.5	637.1	759.9	807.7	866.9	509.5	600.6	621.1	666.6	703.0	730.3
87.5°	198.0	213.8	464.2	514.2	498.2	289.0	368.5	377.7	409.5	434.6	457.2
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°	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4
2.5°	4334.1	4306.8	4281.8	4279.5	4261.3	4236.3	4245.4	4206.7	4209.0	4188.6	4165.7
5°	5096.3	5078.2	4987.1	4962.1	4893.8	4850.6	4843.8	4752.8	4741.5	4689.1	4632.1
7.5°	6193.0	6133.9	6006.3	5944.9	5828.9	5742.4	5701.4	5580.9	5521.8	5385.3	5323.7
10°	7341.9	7266.8	7109.8	7023.3	6911.8	6773.1	6698.0	6522.8	6454.6	6329.4	6179.2
12.5°	8406.6	8331.6	8170.0	8104.0	7956.2	7808.2	7726.4	7528.4	7439.7	7239.5	7121.2
15°	9391.7	9316.6	9175.6	9107.5	8959.5	8838.8	8729.7	8534.0	8429.4	8242.8	8088.1
17.5°	10347.3	10267.6	10144.8	10083.4	9940.1	9817.2	9699.0	9514.7	9407.7	9221.2	9082.2
20°	11234.6	11175.5	11086.7	11004.8	10861.5	10750.0	10609.0	10449.7	10295.0	10158.5	10026.5
22.5°	12008.1	11985.4	11889.8	11853.4	11730.6	11635.0	11512.2	11355.2	11243.8	11070.8	10948.0
25°	12674.7	12667.9	12622.4	12611.0	12524.6	12433.6	12406.3	12276.6	12174.2	12021.8	11894.4
27.5°	13248.1	13254.9	13243.6	13275.4	13252.6	13211.7	13214.1	13170.7	13111.5	12984.2	12872.7
30°	13885.1	13848.7	13869.3	13914.7	13928.4	13933.0	14008.0	14033.0	14028.5	13944.3	13889.7
32.5°	14786.0	14699.6	14620.0	14613.2	14658.7	14676.9	14804.3	14870.3	14927.1	14947.6	14956.7
35°	15935.0	15762.2	15596.0	15507.2	15429.9	15450.5	15541.5	15648.3	15773.5	15860.0	15962.3
37.5°	17382.0	17170.4	16877.0	16667.6	16615.3	16501.5	16560.8	16644.9	16767.7	16902.0	17079.4
40°	19136.1	18815.3	18485.5	18207.9	18057.8	17848.4	17846.2	17830.2	17905.3	18030.4	18280.7
42.5°	20824.3	20539.8	20189.6	19898.3	19702.6	19422.8	19365.9	19218.0	19252.1	19361.4	19604.8
45°	22405.5	22171.2	21957.3	21620.5	21454.4	21151.9	21056.3	20881.2	20783.3	20833.4	21076.8
47.5°	23936.7	23786.5	23563.6	23345.1	23217.7	22946.9	22824.1	22699.0	22573.8	22569.3	22824.1
50°	26921.7	26842.0	26578.1	26350.6	26412.0	26079.8	26100.3	25763.7	25916.1	25934.3	26468.9
52.5°	29726.9	30004.4	30200.2	30439.0	30593.6	30623.3	30725.7	30878.1	31062.4	31426.5	31922.4
55°	31333.2	31681.3	31883.7	32065.7	32366.1	32429.8	32600.4	32802.9	32964.4	33373.9	33794.9
57.5°	33242.0	33888.1	34202.1	34491.1	34896.0	35050.7	35335.1	35555.8	35765.2	36249.7	36759.3
60°	34418.2	35205.4	35844.6	36302.1	36809.5	37173.4	37603.4	37949.2	38440.6	39020.9	39780.8
62.5°	33483.1	34638.9	35487.5	36272.4	36961.9	37658.1	38274.6	38920.8	39667.0	40545.1	41723.7
65°	29758.7	30935.0	32388.9	33203.4	34115.6	35189.4	36126.9	37173.4	38190.4	39469.1	41211.8
67.5°	23957.2	25324.5	26958.1	27779.3	28828.3	30027.1	31078.4	32356.9	33544.6	35094.0	37248.4
70°	17268.3	19036.0	20410.1	21268.0	22492.0	23727.4	24742.1	26230.0	27212.8	28801.0	31028.3
72.5°	10934.3	12329.0	14012.5	15093.3	16180.7	17432.1	18469.5	19752.8	20669.5	22116.6	24134.6
75°	5878.9	6907.3	8386.2	9412.2	10577.1	11646.4	12861.4	13721.4	14399.3	15543.8	17181.8
77.5°	2755.2	3380.8	4129.4	4918.9	5708.4	6531.9	7332.7	8028.9	8320.2	8975.4	9942.4
80°	1672.2	1874.7	2093.1	2336.5	2666.5	2932.6	3285.3	3540.1	3558.3	3765.3	4061.1
82.5°	1117.0	1192.1	1258.1	1319.6	1403.8	1469.7	1544.8	1633.5	1669.9	1717.8	1813.2
85°	762.2	798.5	812.3	850.9	841.9	864.6	894.2	923.7	939.6	937.3	980.6
87.5°	468.7	486.9	495.9	505.1	498.2	489.2	502.8	518.8	523.3	509.5	514.2
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°	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4
2.5°	4170.3	4149.8	4129.4	4115.7	4111.2	3990.5	3938.2	3904.2	3831.2	3772.1	3724.4
5°	4600.4	4557.1	4523.0	4482.1	4459.3	4154.4	4042.9	3965.6	3838.2	3763.1	3694.8
7.5°	5292.0	5171.3	5100.9	5021.2	4952.9	4402.4	4218.1	4097.5	3920.0	3819.9	3742.5
10°	6076.9	5951.8	5840.2	5717.4	5610.5	4732.2	4463.8	4277.3	4042.9	3913.2	3810.9
12.5°	6952.8	6829.9	6688.9	6531.9	6395.4	5150.9	4777.8	4511.7	4190.7	4017.9	3874.6
15°	7988.0	7771.8	7601.2	7419.2	7259.9	5651.4	5144.0	4775.5	4347.8	4113.4	3922.3
17.5°	8950.4	8722.8	8490.7	8331.6	8147.3	6213.3	5512.6	5044.0	4477.5	4174.9	3931.4
20°	9890.0	9642.0	9441.8	9227.9	9034.5	6795.8	5906.2	5280.6	4561.7	4177.2	3874.6
22.5°	10718.2	10563.4	10340.6	10108.4	9912.8	7378.3	6274.9	5480.8	4593.5	4124.9	3774.5
25°	11660.0	11496.3	11223.2	11027.5	10809.1	7972.1	6636.5	5635.5	4575.3	4027.0	3619.8
27.5°	12665.7	12483.6	12203.8	11999.1	11735.1	8588.7	6968.8	5747.0	4507.1	3867.8	3412.7
30°	13714.6	13548.4	13273.2	13066.1	12799.9	9241.5	7339.6	5822.1	4370.5	3647.1	3171.6
32.5°	14840.6	14701.9	14428.9	14212.8	13928.4	9949.1	7685.4	5844.9	4163.6	3385.4	2916.6
35°	15910.0	15814.4	15584.6	15382.2	15086.4	10618.1	8051.8	5833.5	3917.8	3098.7	2684.6
37.5°	17113.6	17056.7	16943.0	16685.8	16324.1	11525.9	8490.7	5785.8	3617.5	2814.3	2507.2
40°	18396.7	18401.3	18278.4	18103.2	17766.5	12627.0	9014.1	5692.4	3289.8	2564.1	2345.7
42.5°	19754.9	19825.5	19766.3	19641.2	19318.1	13737.2	9639.7	5578.7	2971.3	2320.6	2186.4
45°	21311.1	21397.7	21488.7	21304.4	20990.4	15202.5	10463.3	5430.7	2627.8	2118.1	2077.2
47.5°	23106.2	23242.7	23324.6	23327.0	23013.0	17018.0	11801.1	5342.0	2323.0	1981.6	2024.9
50°	26894.3	26937.6	27130.9	27467.7	27226.6	21220.3	14137.7	5287.4	2116.0	1897.5	1986.3
52.5°	32352.4	32827.9	33162.4	33139.7	32811.9	23888.9	15425.4	5005.2	1993.0	1865.6	1968.0
55°	34575.2	35169.0	35787.9	35951.6	35696.8	26166.3	16642.6	4723.2	1933.9	1888.3	1974.9
57.5°	37537.4	38538.5	39387.1	39744.3	39375.7	29080.8	18244.3	4575.3	1915.7	1949.8	2018.0
60°	40997.9	42235.6	43350.4	43992.0	43992.0	32429.8	19905.2	4513.8	1890.6	2040.8	2090.9
62.5°	43220.8	45038.6	46722.2	47661.8	47634.6	34761.8	20642.3	4304.6	1833.8	2104.6	2190.9
65°	43229.8	45391.2	47536.6	48592.3	48646.9	34475.1	19425.1	3801.7	1729.1	2113.6	2291.0
67.5°	39626.0	41930.8	44431.1	45611.9	45884.9	31735.9	16815.5	3126.0	1558.5	2022.6	2327.4
70°	33467.2	35717.3	38270.0	39430.3	39914.9	27053.5	13543.9	2409.3	1340.1	1822.3	2252.4
72.5°	26366.6	28573.4	30350.2	31198.9	31576.6	20678.7	9862.8	1820.2	1098.9	1535.7	2049.9
75°	18667.5	20323.8	21268.0	21456.8	21516.0	12465.5	5992.7	1353.7	905.5	1194.4	1731.4
77.5°	10536.2	11245.9	11168.6	11252.8	10552.0	4811.9	2609.5	969.2	746.2	907.7	1342.4
80°	4113.4	4240.9	3983.8	3904.2	3581.1	1790.5	1151.3	675.8	596.1	687.1	939.6
82.5°	1813.2	1872.4	1817.8	1831.5	1751.9	923.7	689.3	489.2	455.1	502.8	623.5
85°	998.7	1016.9	1012.4	1042.0	998.7	368.5	327.7	300.4	318.5	341.2	400.4
87.5°	486.9	491.4	475.5	500.5	484.6	186.7	161.4	170.7	186.7	191.1	191.1
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°	3906.4	3906.4	3906.4	3906.4	3906.4	3906.4
2.5°	3690.2	3672.1	3674.4	3669.8	3660.7	3660.7
5°	3658.4	3640.2	3640.2	3635.7	3624.2	3626.6
7.5°	3690.2	3660.7	3649.4	3633.4	3617.5	3617.5
10°	3726.8	3674.4	3642.4	3615.2	3594.7	3594.7
12.5°	3753.9	3672.1	3619.8	3583.3	3562.8	3562.8
15°	3763.1	3656.2	3583.3	3540.1	3521.9	3519.7
17.5°	3733.5	3594.7	3506.0	3456.0	3433.2	3426.4
20°	3642.4	3483.1	3376.3	3319.4	3287.6	3276.1
22.5°	3506.0	3324.0	3198.9	3139.7	3098.7	3091.9
25°	3314.8	3119.3	2996.3	2939.5	2916.6	2909.9
27.5°	3091.9	2909.9	2805.2	2768.8	2748.4	2746.1
30°	2880.3	2725.6	2648.2	2620.9	2595.9	2591.4
32.5°	2682.5	2584.5	2555.0	2516.3	2457.1	2450.3
35°	2541.4	2532.2	2511.8	2425.3	2352.5	2332.0
37.5°	2454.8	2539.0	2434.4	2263.8	2211.4	2206.9
40°	2404.8	2468.5	2288.8	2229.7	2234.2	2229.7
42.5°	2291.0	2357.0	2293.4	2266.0	2284.3	2288.8
45°	2177.3	2250.0	2327.4	2309.3	2352.5	2352.5
47.5°	2113.6	2222.8	2325.1	2325.1	2388.9	2411.7
50°	2040.8	2200.1	2288.8	2320.6	2370.7	2352.5
52.5°	2036.3	2161.3	2236.4	2293.4	2316.1	2295.6
55°	2043.0	2129.6	2184.1	2247.8	2275.1	2277.4
57.5°	2052.2	2111.3	2147.7	2177.3	2259.2	2259.2
60°	2075.0	2095.4	2116.0	2131.7	2238.7	2241.0
62.5°	2111.3	2079.4	2075.0	2090.9	2227.4	2218.3
65°	2168.2	2056.7	2022.6	2038.6	2216.0	2188.7
67.5°	2245.6	2022.6	1956.7	1968.0	2206.9	2147.7
70°	2316.1	1968.0	1874.7	1863.3	2120.4	2015.8
72.5°	2323.0	1904.3	1760.9	1726.9	1842.8	1742.8
75°	2209.1	1861.0	1635.8	1535.7	1522.1	1508.5
77.5°	1990.7	1836.0	1490.2	1333.2	1305.9	1315.1
80°	1665.4	1742.8	1315.1	1128.4	1276.3	1260.5
82.5°	1244.5	1538.1	1117.0	998.7	996.6	880.5
85°	691.6	1199.0	910.0	748.5	521.0	505.1
87.5°	193.4	666.6	637.1	423.2	289.0	300.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)