

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: P191426

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191426
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 55770.3 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

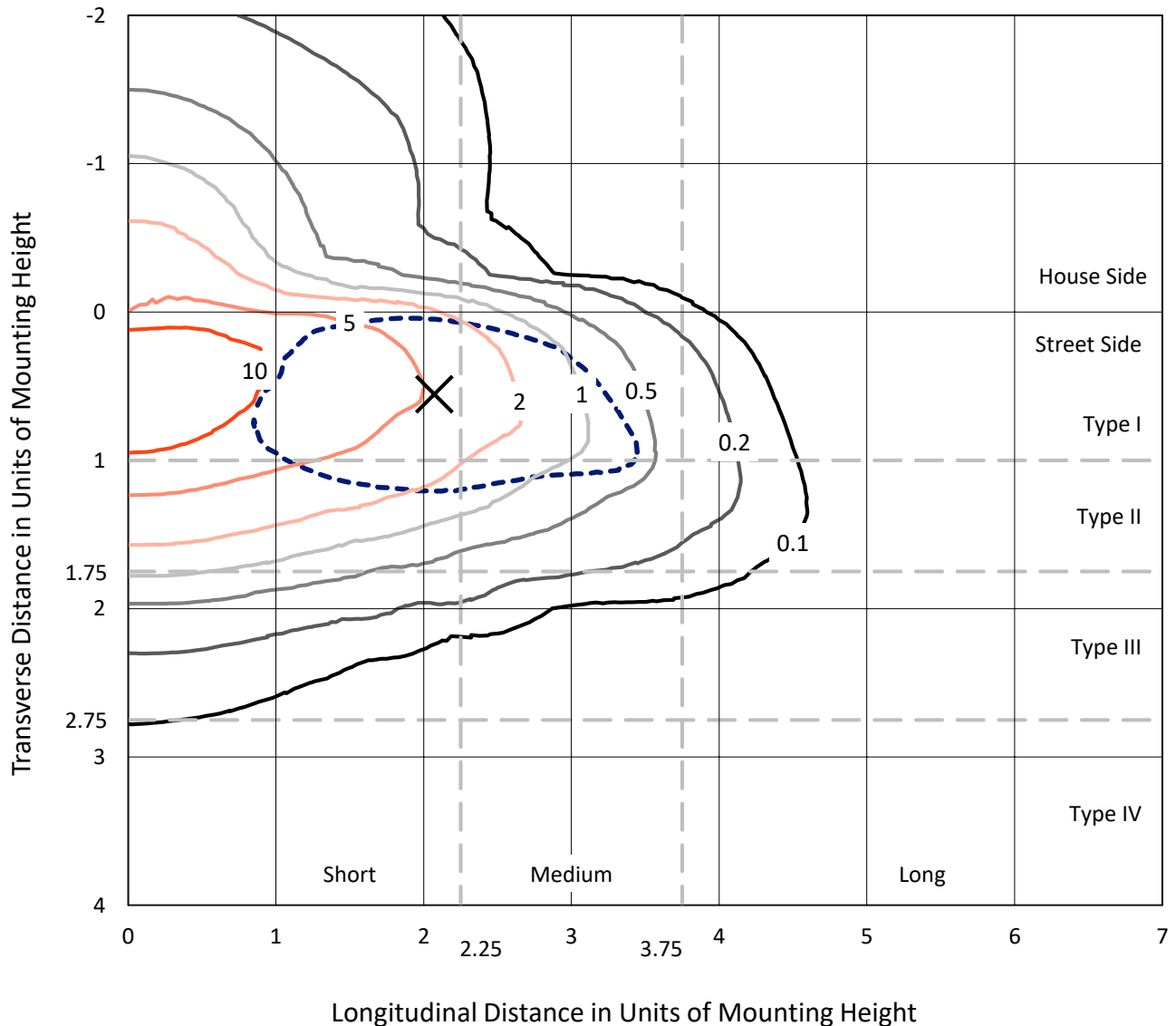
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

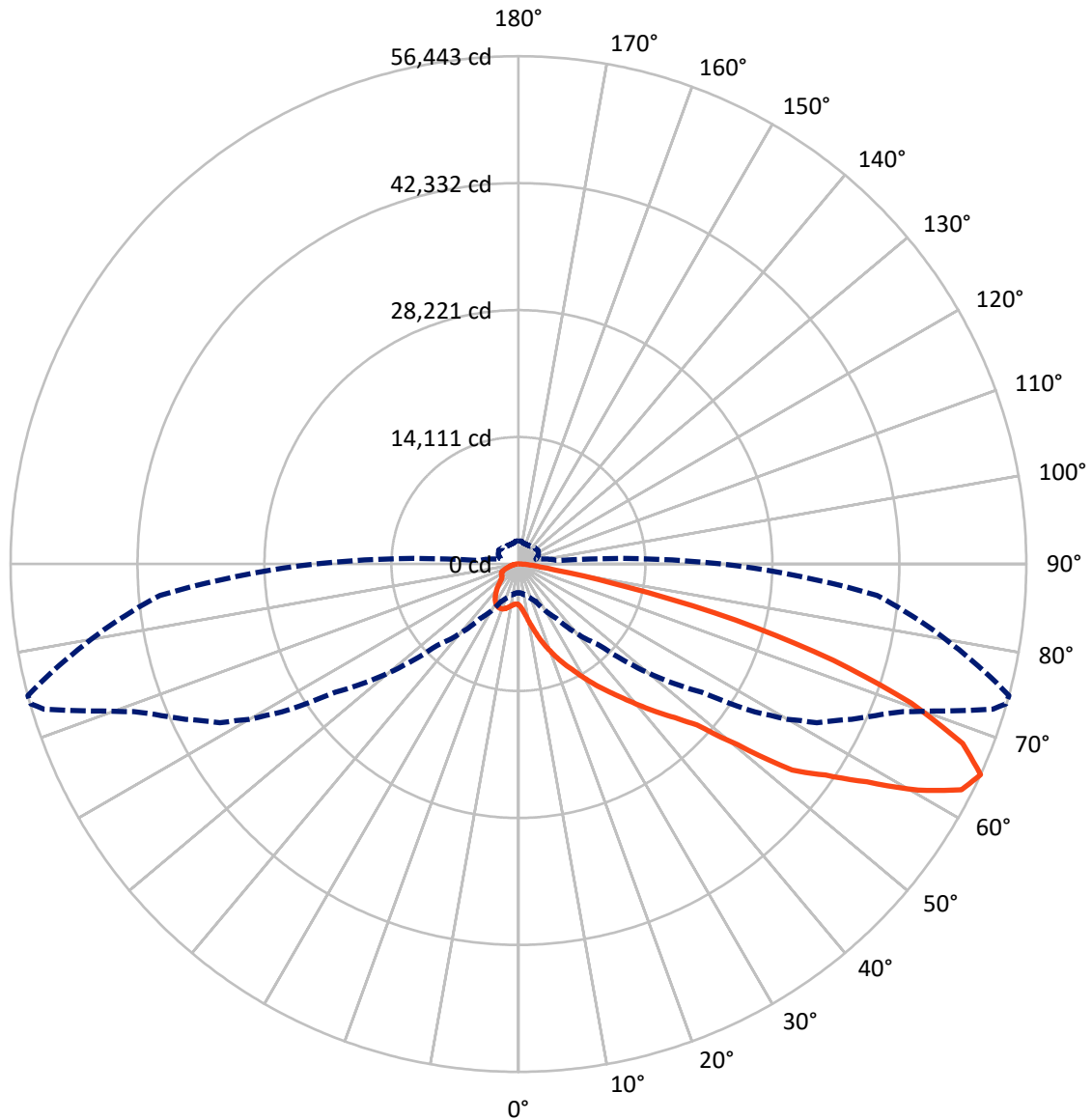
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8598.5	0.0	8598.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	47171.8	0.0	47171.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	55770.3	0.0	55770.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.2	1.0
10°-20°	2188.9	3.9
20°-30°	4490.9	8.1
30°-40°	7555.7	13.5
40°-50°	10439.9	18.7
50°-60°	13032.1	23.4
60°-70°	11727.5	21.0
70°-80°	4916.1	8.8
80°-90°	858.8	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°	55770.3	100.0
0°-180°	55770.3	100.0

Coefficient of Utilization



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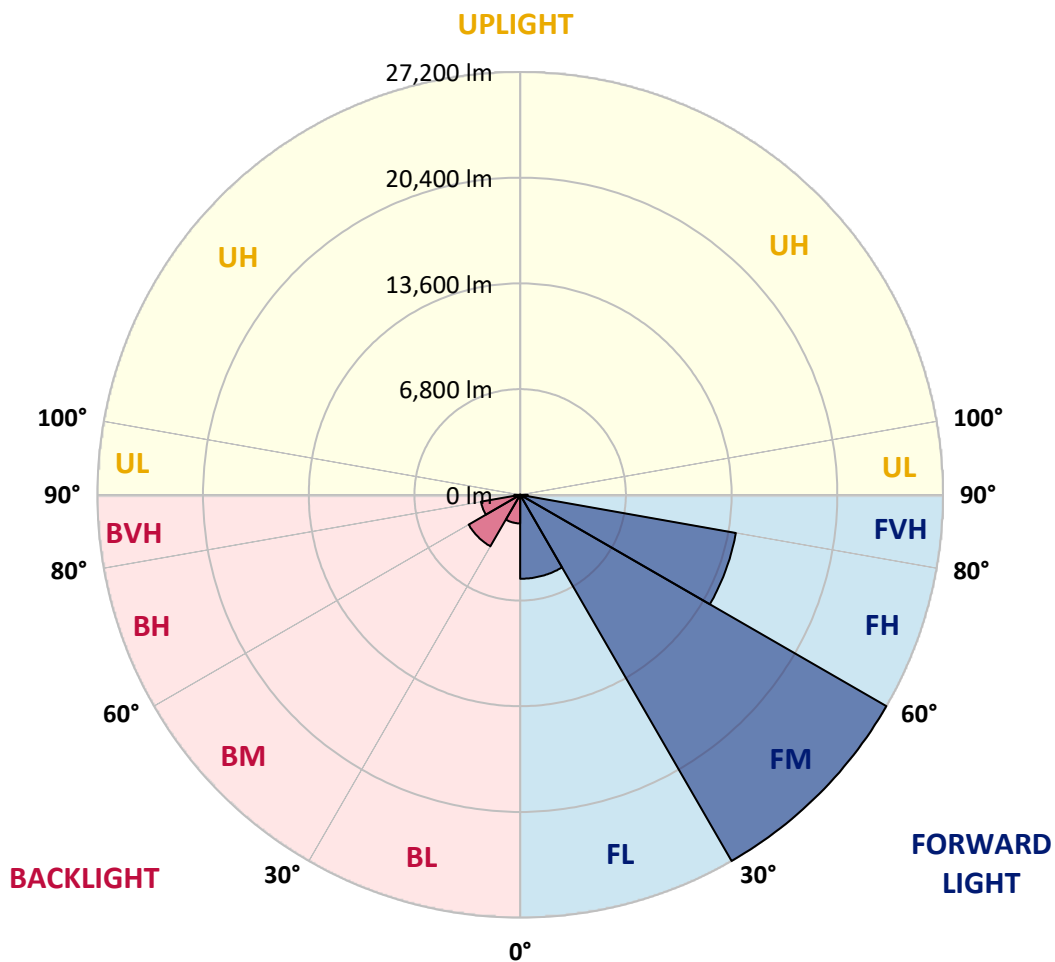
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5401.2	9.7			
FM (30°-60°)	27200.5	48.8			
FH (60°-80°)	14087.4	25.3			G5
FVH (80°-90°)	482.7	0.9			G3/500
BL (0°-30°)	1838.9	3.3	B3/2500		
BM (30°-60°)	3827.3	6.9	B3/5000		
BH (60°-80°)	2556.2	4.6	B4/5000		G4/5000
BVH (80°-90°)	376.1	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°	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4
2.5°	5754.6	5691.2	5707.0	5601.5	5472.2	5303.2	5115.8	5113.1	5115.8	5097.3	5028.6
5°	7979.8	7903.3	7874.3	7636.7	7288.2	6792.0	6253.5	6195.4	6171.7	6110.9	5971.1
7.5°	9603.3	9561.1	9516.2	9336.7	9020.0	8465.6	7742.3	7618.2	7499.5	7470.4	7312.1
10°	10651.3	10640.7	10545.7	10498.1	10300.2	9819.7	9115.0	8996.1	8866.8	8821.9	8655.6
12.5°	11480.2	11477.5	11432.6	11445.8	11274.2	10925.8	10318.7	10210.5	10115.4	9978.2	9859.4
15°	12052.9	12055.6	12121.6	12195.5	12169.1	11934.2	11364.0	11316.5	11234.7	11139.6	10999.7
17.5°	12522.9	12536.1	12604.7	12739.3	12884.5	12866.0	12414.6	12375.0	12303.7	12174.3	12100.5
20°	13584.0	13634.2	13502.1	13502.1	13518.0	13589.3	13372.8	13341.1	13240.9	13172.2	13114.1
22.5°	15376.4	15434.5	15136.2	14832.6	14534.3	14317.8	14101.4	14141.0	14072.3	14024.9	13990.5
25°	17704.6	17749.5	17266.4	16754.3	16147.2	15355.2	14819.4	14795.7	14758.7	14729.7	14713.8
27.5°	19895.6	19914.1	19457.3	18707.7	18002.9	16865.2	15547.9	15518.9	15474.1	15418.6	15371.1
30°	21769.8	21764.5	21294.7	20579.2	19824.3	18565.1	16653.9	16564.2	16432.3	16281.8	16165.7
32.5°	23393.2	23385.3	22870.5	22128.8	21336.8	20249.3	18169.2	17984.4	17778.5	17485.5	17308.6
35°	24670.8	24665.6	24179.8	23406.4	22498.4	21835.8	19906.1	19679.1	19417.8	19024.4	18752.5
37.5°	25153.8	25153.8	24882.1	24354.1	23551.6	23097.5	21835.8	21561.2	21281.5	20835.4	20529.1
40°	24871.4	24876.7	24934.8	24837.1	24446.5	24098.0	23636.1	23472.4	23232.1	22830.9	22511.6
42.5°	23923.8	23952.8	24338.3	24810.8	25006.0	24950.6	25233.1	25159.2	24990.3	24681.3	24428.0
45°	22722.7	22812.4	23234.8	24127.0	25161.8	25687.1	26571.5	26579.3	26547.6	26381.4	26186.0
47.5°	21072.9	21199.6	21756.5	22962.9	24797.6	26402.5	27930.9	28002.2	28068.1	27959.9	27870.2
50°	18881.9	19032.4	19866.5	21466.2	24055.8	27144.2	30499.4	30821.4	31122.3	31085.3	31146.1
52.5°	16535.2	16712.0	17733.7	19515.4	22780.8	27315.9	32141.2	32666.5	33191.9	33622.1	34078.8
55°	14418.2	14323.2	15344.7	17221.6	20684.9	26542.4	33616.8	34250.3	34836.4	35364.3	35908.1
57.5°	11548.8	11704.5	12728.8	14584.4	17910.5	24359.3	34633.1	35559.7	36401.7	37275.5	38046.3
60°	8441.8	8597.6	9708.9	11593.6	14898.6	21049.2	33857.0	35261.4	36610.3	37948.6	38994.0
62.5°	5097.3	5213.5	6192.7	7987.8	11488.0	17123.9	30399.0	32241.6	34226.6	35826.3	37428.6
65°	3173.0	3239.0	3600.6	4587.8	7378.0	12784.1	24837.1	26845.9	28984.1	31014.0	32679.7
67.5°	2597.5	2621.2	2687.2	2898.4	4052.0	8336.2	18485.9	20265.2	22194.8	24158.7	26011.8
70°	2336.1	2320.4	2320.4	2333.6	2597.5	4482.3	12103.1	13261.9	14869.5	16577.4	18272.2
72.5°	2109.1	2093.3	2064.2	2024.6	2119.7	2734.8	6256.2	7129.9	8288.8	9806.5	11429.9
75°	1895.3	1874.3	1839.9	1789.8	1855.7	2064.2	3004.0	3370.9	3935.8	4743.6	5649.0
77.5°	1673.5	1647.2	1615.5	1578.5	1663.0	1604.9	1760.7	1892.7	2109.1	2367.8	2708.4
80°	1422.8	1399.1	1388.5	1370.0	1470.3	1222.2	1243.3	1325.1	1451.9	1591.7	1750.2
82.5°	1114.0	1114.0	1156.2	1164.1	1275.0	879.0	929.1	1000.4	1066.4	1140.4	1214.2
85°	733.9	739.1	881.7	937.1	1005.8	591.3	696.9	720.7	773.5	815.7	847.3
87.5°	229.7	248.2	538.5	596.6	578.1	335.2	427.6	438.2	475.2	504.2	530.6
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4
2.5°	5028.6	4997.0	4968.0	4965.3	4944.2	4915.2	4925.7	4880.8	4883.5	4859.7	4833.3
5°	5913.0	5891.9	5786.2	5757.3	5678.0	5627.9	5620.0	5514.4	5501.2	5440.5	5374.5
7.5°	7185.3	7116.7	6968.9	6897.6	6762.9	6662.7	6615.1	6475.3	6406.6	6248.2	6177.0
10°	8518.4	8431.3	8249.1	8148.8	8019.4	7858.4	7771.4	7568.1	7488.9	7343.7	7169.5
12.5°	9753.7	9666.7	9479.3	9402.7	9231.1	9059.6	8964.5	8734.9	8631.9	8399.6	8262.4
15°	10896.8	10809.6	10646.0	10566.8	10395.2	10255.3	10128.6	9901.6	9780.1	9563.7	9384.2
17.5°	12005.5	11913.1	11770.5	11699.3	11533.0	11390.4	11253.2	11039.3	10915.3	10698.8	10537.7
20°	13035.0	12966.3	12863.4	12768.4	12602.0	12472.6	12309.1	12124.2	11944.7	11786.3	11633.2
22.5°	13932.5	13906.1	13795.2	13753.0	13610.4	13499.6	13357.0	13174.9	13045.5	12844.9	12702.3
25°	14705.8	14698.0	14645.2	14632.0	14531.6	14426.1	14394.4	14244.0	14125.1	13948.2	13800.4
27.5°	15371.1	15379.0	15365.8	15402.8	15376.4	15328.8	15331.5	15281.4	15212.7	15064.9	14935.5
30°	16110.2	16068.0	16091.7	16144.5	16160.4	16165.7	16252.7	16281.8	16276.5	16178.9	16115.5
32.5°	17155.5	17055.2	16962.9	16954.9	17007.7	17028.9	17176.7	17253.2	17319.2	17343.0	17353.5
35°	18488.6	18288.0	18095.3	17992.4	17902.6	17926.3	18032.0	18156.0	18301.2	18401.5	18520.3
37.5°	20167.5	19922.0	19581.4	19338.6	19277.9	19145.9	19214.5	19312.2	19454.8	19610.5	19816.4
40°	22202.7	21830.5	21447.7	21125.7	20951.5	20708.6	20706.0	20687.4	20774.6	20919.8	21210.2
42.5°	24161.4	23831.4	23424.9	23087.0	22860.0	22535.3	22469.3	22297.7	22337.4	22464.0	22746.4
45°	25995.9	25724.0	25476.0	25085.3	24892.6	24541.5	24430.6	24227.4	24113.8	24171.9	24454.4
47.5°	27772.5	27598.3	27339.6	27086.2	26938.4	26624.2	26481.6	26336.5	26191.3	26186.0	26481.6
50°	31235.8	31143.4	30837.3	30573.2	30644.5	30259.1	30282.8	29892.2	30069.0	30090.2	30710.5
52.5°	34490.6	34812.7	35039.6	35316.9	35496.3	35530.7	35649.4	35826.3	36040.1	36462.5	37037.9
55°	36354.2	36758.1	36993.1	37204.2	37552.6	37626.6	37824.5	38059.5	38246.9	38722.1	39210.4
57.5°	38568.9	39318.6	39682.9	40018.1	40488.0	40667.5	40997.5	41253.6	41496.4	42058.6	42650.0
60°	39933.6	40847.0	41588.8	42119.4	42708.0	43130.4	43629.3	44030.6	44600.8	45273.9	46155.5
62.5°	38848.8	40189.8	41174.4	42085.0	42884.9	43692.7	44408.0	45157.7	46023.5	47042.4	48409.8
65°	34527.6	35892.3	37579.0	38524.1	39582.6	40828.5	41916.1	43130.4	44310.3	45793.8	47815.9
67.5°	27796.2	29382.7	31278.1	32231.0	33447.9	34839.0	36058.6	37542.1	38920.0	40717.7	43217.5
70°	20035.5	22086.5	23680.9	24676.1	26096.3	27529.7	28707.0	30433.3	31573.7	33416.2	36000.5
72.5°	12686.5	14304.6	16258.1	17511.9	18773.7	20225.6	21429.3	22918.1	23981.9	25660.7	28002.2
75°	6821.0	8014.2	9730.0	10920.5	12272.0	13512.8	14922.3	15920.2	16706.8	18034.5	19935.2
77.5°	3196.7	3922.6	4791.1	5707.0	6623.1	7578.6	8507.8	9315.6	9653.5	10413.7	11535.6
80°	1940.2	2175.1	2428.6	2711.0	3093.7	3402.6	3811.7	4107.5	4128.5	4368.7	4711.9
82.5°	1296.1	1383.2	1459.8	1531.1	1628.7	1705.3	1792.4	1895.3	1937.6	1993.0	2103.9
85°	884.3	926.6	942.3	987.2	976.7	1003.1	1037.4	1071.7	1090.2	1087.6	1137.7
87.5°	543.8	564.9	575.4	586.0	578.1	567.5	583.4	601.9	607.1	591.3	596.6
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°	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4
2.5°	4838.6	4814.8	4791.1	4775.2	4770.0	4630.1	4569.3	4529.7	4445.3	4376.7	4321.3
5°	5337.6	5287.3	5247.7	5200.3	5173.9	4820.1	4690.7	4601.0	4453.2	4366.1	4286.9
7.5°	6140.0	6000.1	5918.3	5825.9	5746.6	5107.9	4894.0	4754.2	4548.2	4432.1	4342.3
10°	7050.7	6905.5	6776.1	6633.6	6509.5	5490.6	5179.1	4962.6	4690.7	4540.4	4421.5
12.5°	8067.0	7924.4	7760.8	7578.6	7420.3	5976.3	5543.4	5234.5	4862.4	4661.8	4495.5
15°	9268.0	9017.3	8819.3	8608.1	8423.4	6557.1	5968.4	5540.8	5044.5	4772.6	4550.9
17.5°	10384.7	10120.7	9851.4	9666.7	9452.9	7209.0	6396.0	5852.3	5195.0	4843.9	4561.4
20°	11474.8	11187.1	10954.9	10706.7	10482.3	7884.8	6852.7	6126.8	5292.6	4846.5	4495.5
22.5°	12435.7	12256.2	11997.6	11728.2	11501.2	8560.6	7280.3	6359.1	5329.6	4785.8	4379.3
25°	13528.5	13338.5	13021.8	12794.8	12541.3	9249.6	7700.1	6538.6	5308.5	4672.3	4199.8
27.5°	14695.3	14484.2	14159.5	13921.8	13615.7	9965.0	8085.5	6667.9	5229.3	4487.5	3959.5
30°	15912.2	15719.6	15400.1	15159.9	14851.1	10722.6	8515.8	6755.1	5070.9	4231.4	3679.8
32.5°	17218.9	17057.9	16741.1	16490.4	16160.4	11543.5	8917.0	6781.4	4830.7	3927.9	3384.1
35°	18459.6	18348.7	18082.1	17847.1	17504.0	12319.6	9342.0	6768.3	4545.6	3595.3	3114.9
37.5°	19856.0	19790.0	19658.0	19359.8	18940.0	13372.8	9851.4	6712.8	4197.2	3265.4	2909.0
40°	21344.8	21350.1	21207.5	21004.2	20613.6	14650.5	10458.5	6604.6	3817.0	2974.9	2721.6
42.5°	22920.6	23002.5	22933.8	22788.7	22413.9	15938.6	11184.5	6472.6	3447.4	2692.5	2536.8
45°	24726.3	24826.6	24932.2	24718.4	24354.1	17638.6	12140.1	6301.0	3048.9	2457.5	2410.1
47.5°	26809.0	26967.3	27062.4	27065.0	26700.8	19745.1	13692.2	6198.1	2695.2	2299.2	2349.3
50°	31204.1	31254.3	31478.7	31869.3	31589.5	24620.7	16403.2	6134.7	2455.0	2201.5	2304.5
52.5°	37536.9	38088.6	38476.6	38450.2	38070.0	27717.1	17897.3	5807.4	2312.4	2164.6	2283.3
55°	40115.8	40804.8	41522.8	41712.9	41417.2	30359.4	19309.5	5480.0	2243.7	2191.0	2291.3
57.5°	43552.7	44714.2	45698.8	46113.3	45685.6	33740.9	21167.9	5308.5	2222.7	2262.3	2341.4
60°	47567.7	49003.7	50297.3	51041.7	51041.7	37626.6	23095.0	5237.2	2193.6	2367.8	2425.9
62.5°	50146.8	52255.9	54209.3	55299.5	55267.8	40332.3	23950.1	4994.4	2127.6	2441.8	2542.0
65°	50157.3	52665.1	55154.3	56379.1	56442.5	39999.7	22538.0	4411.0	2006.2	2452.3	2658.2
67.5°	45976.0	48650.0	51551.1	52921.1	53237.8	36821.4	19510.1	3627.0	1808.2	2346.8	2700.4
70°	38830.3	41441.0	44402.7	45749.0	46311.2	31388.9	15714.3	2795.4	1554.8	2114.4	2613.3
72.5°	30591.8	33152.2	35213.9	36198.4	36636.7	23992.4	11443.2	2111.8	1275.0	1781.8	2378.4
75°	21658.9	23580.7	24676.1	24895.2	24963.9	14463.0	6953.0	1570.6	1050.6	1385.9	2008.9
77.5°	12224.6	13048.1	12958.4	13056.0	12243.0	5583.0	3027.7	1124.5	865.8	1053.2	1557.4
80°	4772.6	4920.4	4622.1	4529.7	4154.9	2077.5	1335.7	784.0	691.6	797.2	1090.2
82.5°	2103.9	2172.4	2109.1	2125.0	2032.6	1071.7	799.8	567.5	527.9	583.4	723.3
85°	1158.8	1180.0	1174.7	1209.0	1158.8	427.6	380.1	348.4	369.6	396.0	464.6
87.5°	564.9	570.2	551.7	580.7	562.2	216.5	187.4	197.9	216.5	221.8	221.8
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°	4532.4	4532.4	4532.4	4532.4	4532.4	4532.4
2.5°	4281.7	4260.5	4263.1	4257.8	4247.3	4247.3
5°	4244.6	4223.6	4223.6	4218.2	4205.0	4207.7
7.5°	4281.7	4247.3	4234.1	4215.7	4197.2	4197.2
10°	4323.9	4263.1	4226.2	4194.5	4170.8	4170.8
12.5°	4355.5	4260.5	4199.8	4157.6	4133.8	4133.8
15°	4366.1	4242.1	4157.6	4107.5	4086.3	4083.6
17.5°	4331.8	4170.8	4067.8	4009.8	3983.4	3975.4
20°	4226.2	4041.4	3917.4	3851.3	3814.4	3801.2
22.5°	4067.8	3856.6	3711.5	3642.8	3595.3	3587.4
25°	3846.1	3619.1	3476.5	3410.5	3384.1	3376.2
27.5°	3587.4	3376.2	3254.8	3212.6	3188.7	3186.2
30°	3341.9	3162.4	3072.6	3040.9	3011.9	3006.7
32.5°	3112.2	2998.7	2964.4	2919.5	2850.9	2843.0
35°	2948.6	2938.0	2914.3	2813.9	2729.4	2705.7
37.5°	2848.3	2945.9	2824.5	2626.5	2565.8	2560.5
40°	2790.2	2864.1	2655.6	2586.9	2592.2	2586.9
42.5°	2658.2	2734.8	2660.8	2629.2	2650.3	2655.6
45°	2526.2	2610.7	2700.4	2679.3	2729.4	2729.4
47.5°	2452.3	2579.0	2697.8	2697.8	2771.7	2798.1
50°	2367.8	2552.6	2655.6	2692.5	2750.6	2729.4
52.5°	2362.5	2507.8	2594.8	2660.8	2687.2	2663.5
55°	2370.5	2470.7	2534.2	2608.0	2639.7	2642.4
57.5°	2381.0	2449.7	2491.9	2526.2	2621.2	2621.2
60°	2407.4	2431.1	2455.0	2473.4	2597.5	2600.1
62.5°	2449.7	2412.7	2407.4	2425.9	2584.3	2573.7
65°	2515.6	2386.3	2346.8	2365.2	2571.1	2539.4
67.5°	2605.4	2346.8	2270.1	2283.3	2560.5	2491.9
70°	2687.2	2283.3	2175.1	2161.9	2460.2	2338.8
72.5°	2695.2	2209.5	2043.1	2003.6	2138.2	2022.1
75°	2563.2	2159.2	1898.0	1781.8	1766.0	1750.2
77.5°	2309.7	2130.3	1729.0	1546.9	1515.2	1525.7
80°	1932.3	2022.1	1525.7	1309.3	1480.9	1462.4
82.5°	1443.9	1784.4	1296.1	1158.8	1156.2	1021.6
85°	802.5	1391.1	1055.9	868.5	604.5	586.0
87.5°	224.3	773.5	739.1	491.0	335.2	348.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)