

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: P194616

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
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-SLL-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27622 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

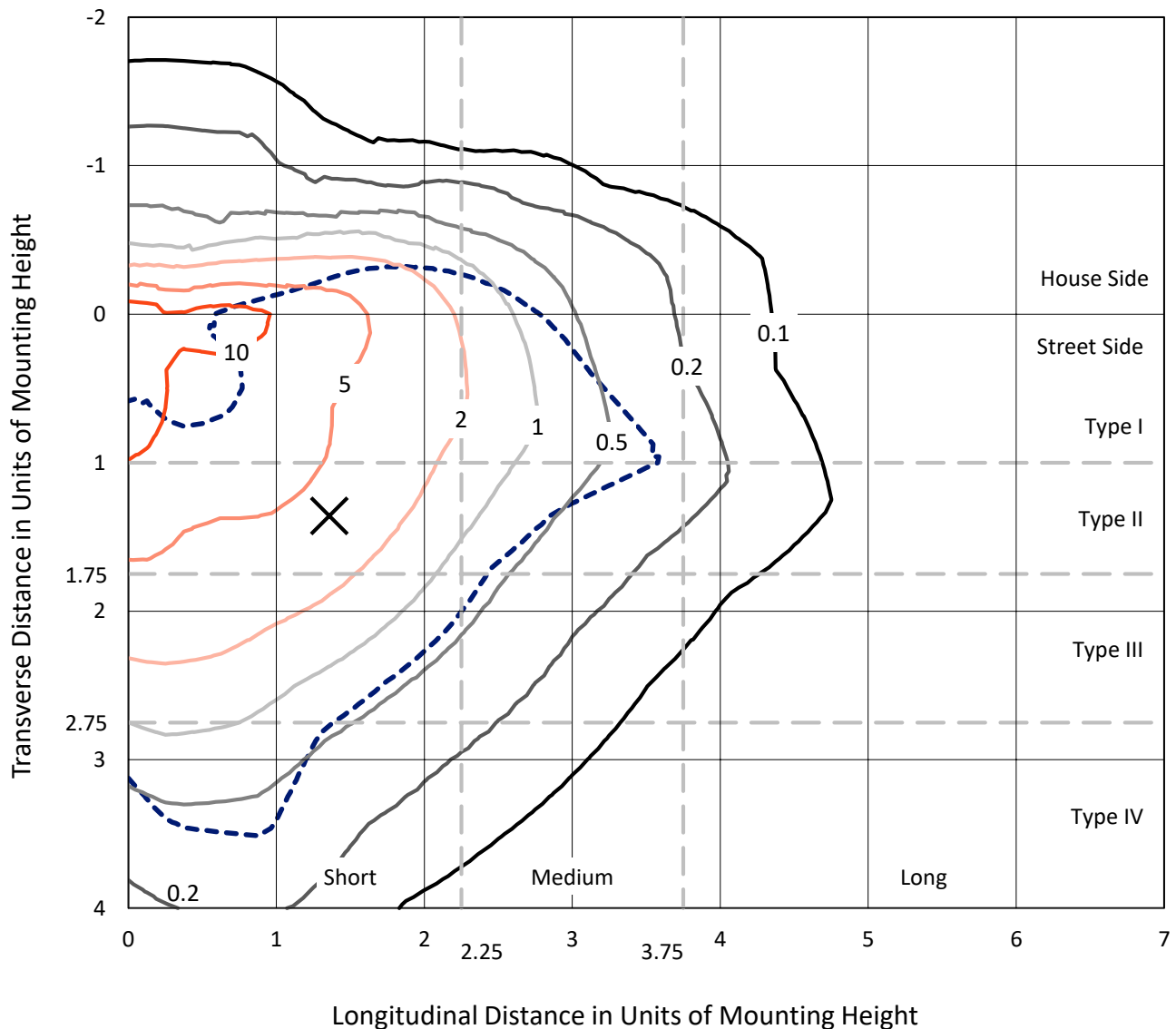


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

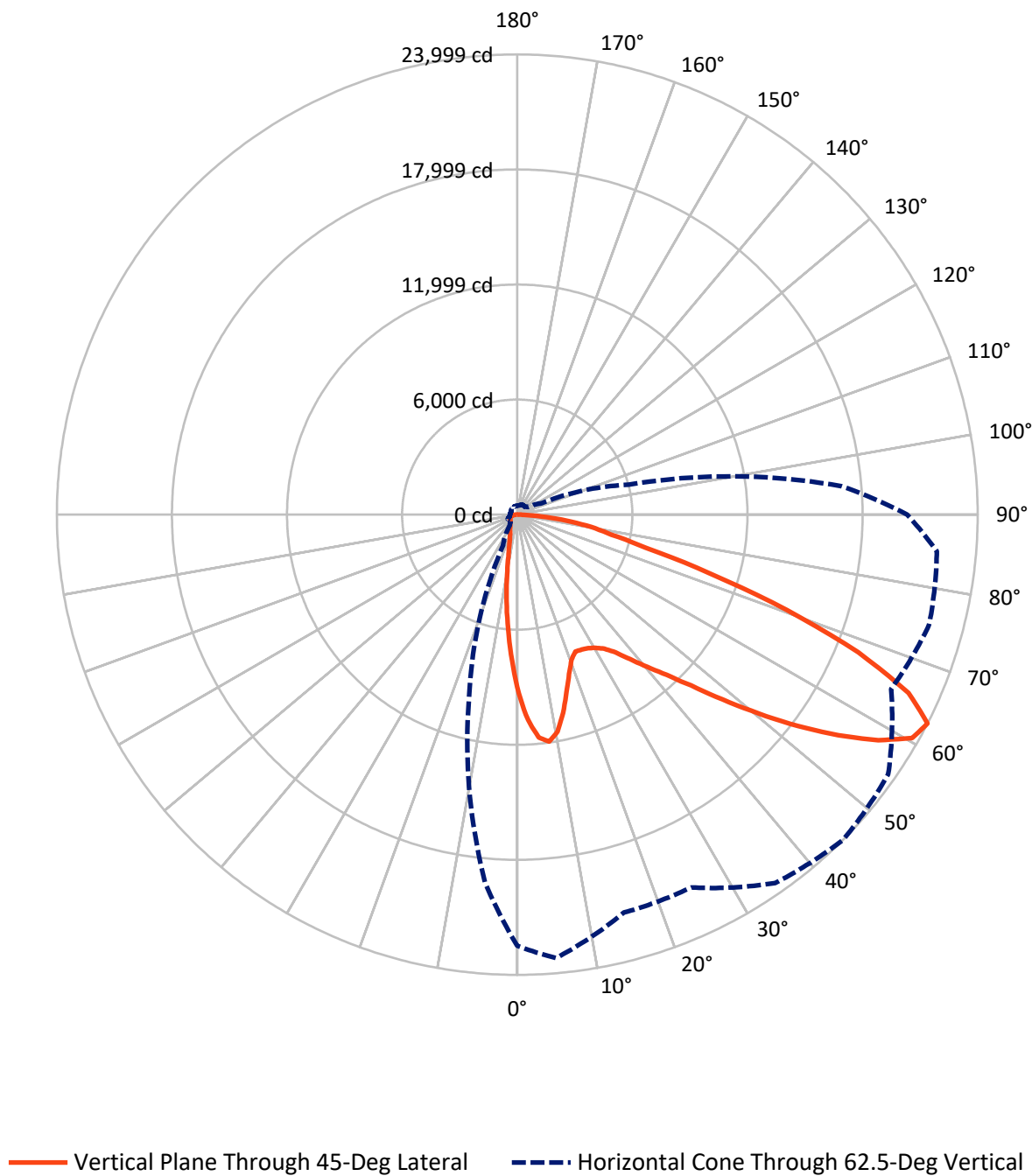


Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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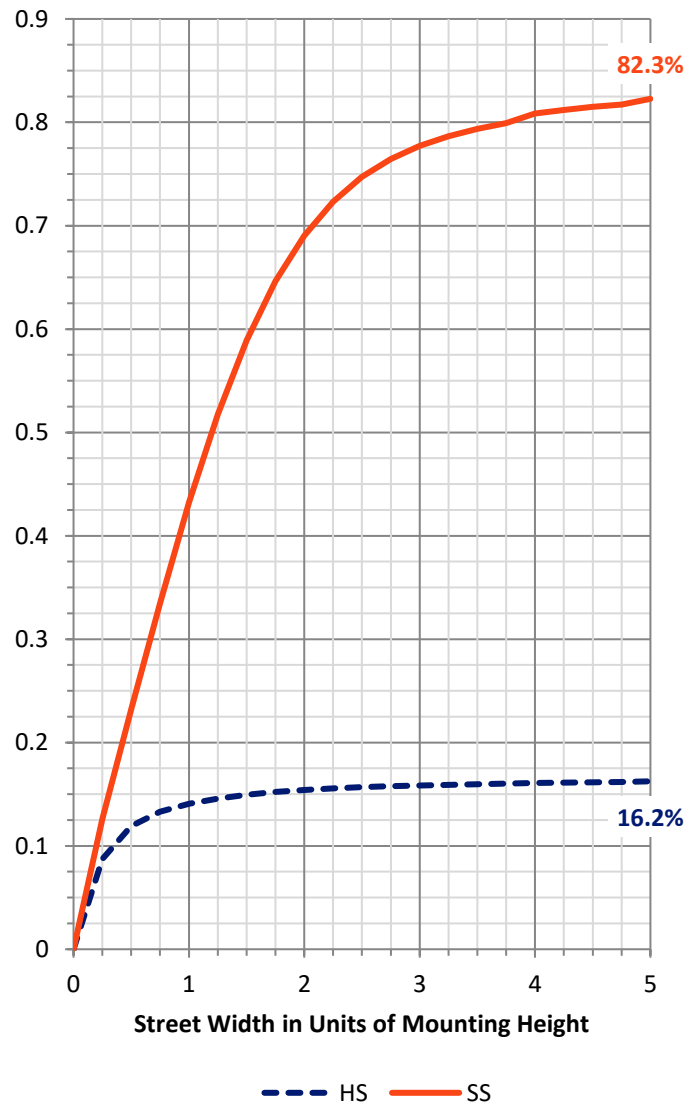
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4571.1	0.0	4571.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23050.9	0.0	23050.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	27622.0	0.0	27622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	2.5
10°-20°	1245.7	4.5
20°-30°	1816.3	6.6
30°-40°	2797.3	10.1
40°-50°	4116.9	14.9
50°-60°	6038.6	21.9
60°-70°	6750.3	24.4
70°-80°	3304.9	12.0
80°-90°	872.6	3.2
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°	27622.0	100.0
0°-180°	27622.0	100.0

Coefficient of Utilization



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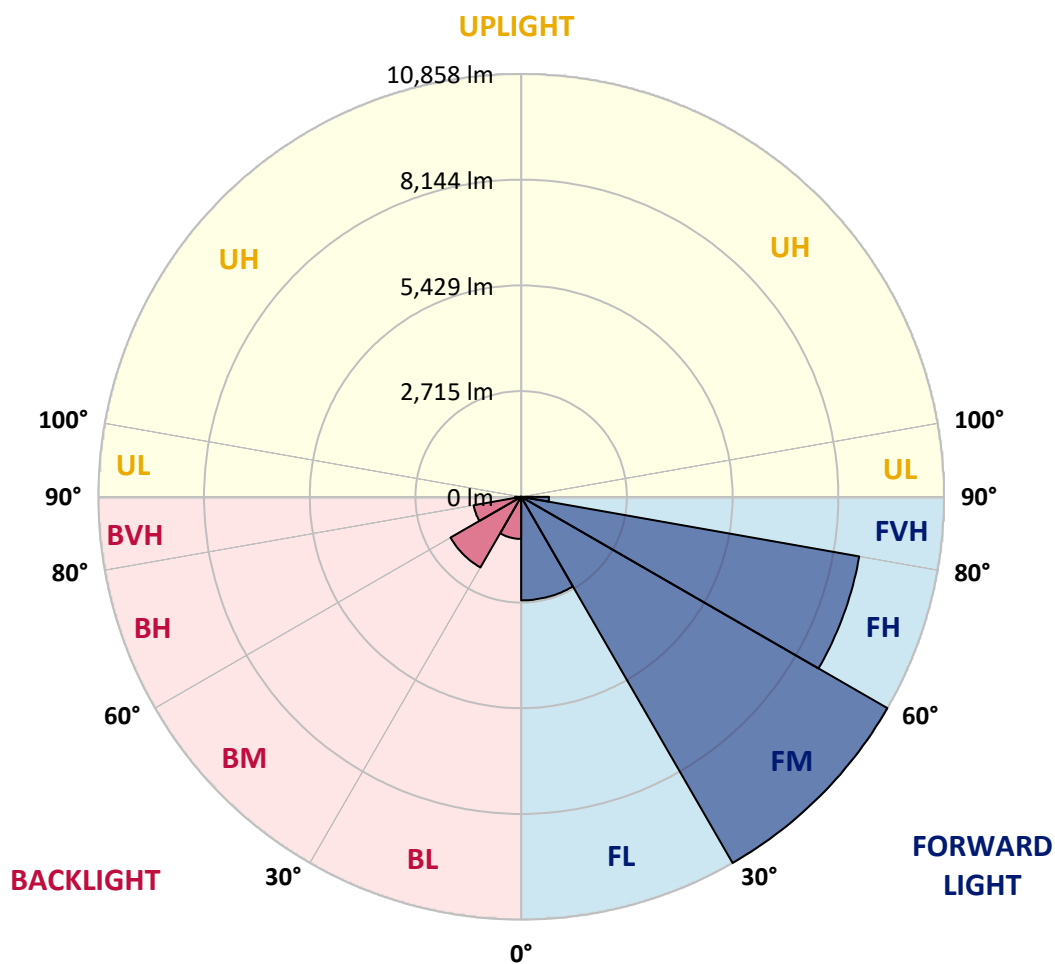
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2659.9	9.6			
FM	(30°-60°)	10858.5	39.3			
FH	(60°-80°)	8816.0	31.9			G4/12000
FVH	(80°-90°)	716.6	2.6			G4/750
BL	(0°-30°)	1081.4	3.9	B3/2500		
BM	(30°-60°)	2094.4	7.6	B2/2500		
BH	(60°-80°)	1239.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	156.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	9696.6	9851.5	10153.7	10379.9	10654.7	10718.5	10806.6	10720.0	10566.7	10363.2	10296.4
5°	9118.1	9449.1	10182.5	10827.8	11401.8	11669.0	11743.4	11523.3	11078.4	10493.8	10137.0
7.5°	8190.3	8661.1	9654.1	10604.6	11450.4	11950.0	11937.8	11426.1	10607.7	9655.6	9083.2
10°	7390.1	7927.7	9066.5	10129.4	11026.8	11511.1	11324.4	10669.9	9693.6	8597.3	7976.3
12.5°	6942.2	7469.1	8624.6	9692.1	10442.2	10609.2	10466.5	9825.7	8905.5	7797.1	7253.5
15°	6864.8	7443.3	8448.5	9317.0	9737.6	9591.8	9421.8	9134.8	8484.9	7538.9	6972.6
17.5°	7200.3	7838.1	8650.4	9055.8	8984.5	8730.9	8682.3	8714.2	8557.8	7825.9	7173.0
20°	7844.1	8609.4	9131.8	8932.9	8412.0	8062.8	8074.9	8562.4	9025.5	8553.3	7807.7
22.5°	8747.6	9620.7	9825.7	8998.1	8170.6	7756.1	7856.3	8645.9	9771.0	9616.1	8664.1
25°	9916.8	10712.4	10565.2	9235.0	8194.9	7794.0	7874.5	8934.4	10651.7	10679.0	9724.0
27.5°	11049.5	11787.5	11186.2	9549.3	8295.1	7883.6	7989.9	9388.4	11492.9	11833.0	10935.6
30°	11933.3	12446.5	11432.2	9836.3	8492.5	8058.2	8190.3	9819.6	11875.6	12612.0	11868.0
32.5°	12665.1	13034.1	11823.9	10191.6	8855.4	8333.1	8565.4	10343.5	12426.7	13353.0	12780.5
35°	13600.5	13705.2	12311.3	10587.9	9415.7	8811.4	9099.9	10856.7	12952.1	14101.6	13679.4
37.5°	14696.8	14561.6	12771.4	11130.0	10140.0	9560.0	9798.4	11420.0	13384.9	14950.3	14598.1
40°	15780.9	15456.0	13348.4	11971.2	11196.8	10442.2	10724.6	12021.3	13788.8	15800.7	15495.5
42.5°	16702.6	16221.3	13917.8	12895.9	12180.8	11415.5	11752.6	12627.2	14174.4	16526.5	16274.4
45°	17384.4	16786.1	14459.9	13784.2	13536.7	12709.2	12868.6	13321.1	14592.0	17132.3	16915.2
47.5°	17993.3	17354.0	15073.3	14680.1	14722.6	14391.6	14135.0	14128.9	15084.0	17627.3	17521.0
50°	18808.6	18142.1	15732.3	15603.3	16502.2	16282.0	15715.6	15071.8	15706.5	18189.1	18177.0
52.5°	19932.3	19390.2	16537.1	16597.8	18163.3	18307.6	17606.1	16204.6	16681.3	19220.1	19147.3
55°	21260.9	20945.1	17633.4	17741.2	20201.0	20304.3	19607.3	17621.2	18114.7	20712.7	20510.8
57.5°	22298.0	22231.2	18836.0	19113.9	21722.5	22187.1	21546.4	19261.1	19730.3	21970.0	21462.8
60°	22711.0	23034.4	20116.0	20498.6	23130.1	23644.8	23083.0	20702.1	21162.2	22490.8	21397.6
62.5°	22487.8	23210.5	21479.5	21447.7	23444.4	23998.6	23603.8	21503.8	22223.6	21953.3	20314.9
65°	21456.8	22577.4	22270.6	21203.2	22369.3	22414.9	22287.3	21145.5	22474.1	20254.2	18222.5
67.5°	19211.0	20823.6	21229.0	19107.8	19469.2	19173.1	18959.0	19183.7	21168.3	17707.8	15314.8
70°	15647.3	18073.7	18268.1	15282.9	15118.9	14920.0	14493.3	15727.8	18591.5	14513.0	12151.9
72.5°	11505.1	14056.0	14652.7	11209.0	10449.8	10490.8	10153.7	11852.8	15115.9	10780.8	9072.5
75°	7871.5	10178.0	11464.1	7821.4	6910.3	6927.0	6884.5	8398.4	12039.5	7499.5	6788.8
77.5°	5750.3	7271.7	8645.9	5258.3	5104.9	5010.8	4988.0	5876.3	9230.5	5445.0	5271.9
80°	4614.5	5372.2	5808.0	3644.2	3919.0	3911.4	3785.4	4040.5	6028.1	3982.8	3943.3
82.5°	3200.8	4128.6	4705.6	2856.1	2645.1	2601.1	2631.4	3009.5	4260.7	2722.5	2588.9
85°	1688.5	2742.3	4660.0	2531.2	1570.0	1252.7	1557.9	2464.4	3691.3	1442.5	1263.3
87.5°	215.6	792.6	3085.4	1009.7	619.5	334.1	739.5	1387.8	2370.3	294.6	256.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	10124.8	9922.9	9658.7	9414.2	9160.6	8908.6	8579.1	8372.6	8229.8	8202.5	8141.8
5°	9878.8	9207.7	8700.5	8261.7	7863.9	7302.1	6990.8	6732.7	6594.5	6580.8	6547.4
7.5°	8744.6	7818.3	7133.5	6512.5	5949.2	5495.2	4994.1	4760.2	4664.6	4687.4	4710.1
10°	7564.8	6529.2	5742.7	5108.0	4611.4	4228.8	3826.4	3554.6	3366.3	3328.4	3320.8
12.5°	6702.3	5566.5	4802.8	4354.8	3970.7	3610.8	3184.1	2863.7	2619.3	2535.8	2479.6
15°	6337.9	5095.8	4295.6	3812.7	3389.1	2932.1	2535.8	2200.2	1975.5	1902.6	1861.6
17.5°	6415.3	4965.2	3946.4	3328.4	2786.3	2309.5	1810.0	1523.0	1387.8	1352.9	1352.9
20°	6822.3	4940.9	3657.9	2882.0	2206.3	1653.6	1243.6	1079.6	1035.6	1031.0	1043.2
22.5°	7393.2	5026.0	3442.3	2494.8	1714.3	1207.1	968.8	908.0	888.3	892.8	906.5
25°	8243.5	5312.9	3285.9	2150.1	1345.3	988.5	864.0	827.5	818.4	830.6	847.3
27.5°	9251.7	5599.9	3188.7	1890.4	1135.8	903.5	821.5	783.5	789.6	804.8	819.9
30°	10137.0	5835.3	3035.3	1705.2	1070.5	908.0	821.5	769.8	763.8	766.8	771.4
32.5°	10931.1	5994.7	2856.1	1529.0	923.2	806.3	766.8	759.2	725.8	713.7	715.2
35°	11615.9	5994.7	2748.3	1425.8	827.5	715.2	651.4	613.4	596.7	598.3	615.0
37.5°	12276.4	5874.8	2695.2	1368.1	775.9	680.3	624.1	590.7	567.9	563.3	566.4
40°	12859.5	5700.1	2634.5	1343.8	736.4	659.0	605.8	578.5	554.2	546.6	548.1
42.5°	13327.2	5558.9	2567.6	1311.9	712.1	643.8	593.7	569.4	542.1	534.5	533.0
45°	13832.8	5511.9	2479.6	1248.1	724.3	645.3	590.7	564.9	537.5	528.4	525.4
47.5°	14499.4	5659.1	2388.5	1172.2	750.1	652.9	595.2	564.9	536.0	528.4	525.4
50°	15339.1	6005.3	2273.1	1061.4	724.3	674.2	593.7	560.3	536.0	528.4	522.3
52.5°	16417.1	6473.0	2121.2	933.8	709.1	725.8	590.7	551.2	528.4	517.8	507.2
55°	17727.5	6855.7	1940.5	829.1	674.2	712.1	586.1	540.6	516.3	501.1	492.0
57.5°	18687.2	6993.8	1708.2	760.7	625.6	689.4	580.0	526.9	501.1	488.9	476.8
60°	18497.4	6726.6	1512.3	718.2	596.7	622.6	575.5	514.7	487.4	478.3	467.7
62.5°	16977.4	6028.1	1386.3	698.5	578.5	567.9	580.0	502.6	475.3	466.2	463.1
65°	14698.3	4997.1	1336.2	693.9	563.3	536.0	539.0	488.9	461.6	454.0	451.0
67.5°	12124.6	4032.9	1292.2	709.1	543.6	513.2	498.0	470.7	447.9	440.3	434.3
70°	9561.5	3354.2	1272.4	700.0	519.3	490.4	473.7	451.0	431.2	423.6	419.1
72.5°	7699.9	2833.4	1261.8	690.9	487.4	460.1	444.9	425.2	403.9	400.9	396.3
75°	6515.5	2227.5	1155.5	662.0	451.0	423.6	413.0	394.8	373.5	373.5	370.5
77.5°	5026.0	1611.0	961.2	586.1	413.0	382.6	373.5	359.9	335.6	340.1	338.6
80°	3712.5	1050.7	751.6	485.9	365.9	337.1	332.5	318.9	293.1	299.1	299.1
82.5°	2543.4	689.4	540.6	397.8	312.8	285.5	285.5	271.8	242.9	246.0	255.1
85°	1277.0	473.7	403.9	308.2	242.9	229.3	229.3	218.7	189.8	191.3	203.5
87.5°	388.7	285.5	267.2	220.2	174.6	171.6	164.0	156.4	138.2	136.7	144.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	8049.1	7962.6	7857.8	7627.0	7549.6	7545.0	7614.9	7542.0	7681.7	7622.5	7687.8
5°	6491.2	6406.2	6289.3	5994.7	5815.5	5694.1	5636.4	5466.3	5589.3	5499.7	5574.1
7.5°	4773.9	4793.6	4716.2	4543.1	4152.9	3957.0	3841.6	3738.3	3827.9	3818.8	3961.6
10°	3355.7	3408.8	3354.2	3179.6	2863.7	2755.9	2777.2	2818.2	2935.1	2995.8	3216.0
12.5°	2415.8	2412.8	2377.8	2221.4	2013.4	2025.6	2112.1	2183.5	2291.3	2355.1	2579.8
15°	1803.9	1776.5	1761.4	1633.8	1515.4	1541.2	1583.7	1591.3	1659.6	1697.6	1879.8
17.5°	1363.5	1377.2	1393.9	1302.8	1213.2	1196.5	1163.1	1122.1	1141.9	1149.4	1240.5
20°	1082.6	1137.3	1178.3	1114.5	1023.4	974.8	932.3	905.0	905.0	903.5	929.3
22.5°	946.0	985.5	1029.5	985.5	903.5	860.9	836.6	815.4	812.4	812.4	836.6
25°	871.6	900.4	942.9	912.6	851.8	819.9	797.2	769.8	759.2	756.2	772.9
27.5°	835.1	847.3	868.5	841.2	789.6	774.4	768.3	744.0	730.4	722.8	739.5
30°	772.9	769.8	771.4	744.0	703.0	701.5	712.1	716.7	712.1	710.6	736.4
32.5°	715.2	709.1	707.6	683.3	645.3	636.2	645.3	654.4	665.1	680.3	710.6
35°	642.3	657.5	666.6	645.3	599.8	572.4	561.8	545.1	536.0	536.0	570.9
37.5°	584.6	619.5	633.2	613.4	563.3	525.4	507.2	504.1	505.6	511.7	545.1
40°	564.9	590.7	602.8	583.1	533.0	498.0	487.4	484.4	487.4	496.5	529.9
42.5°	552.7	570.9	569.4	545.1	504.1	479.8	473.7	470.7	473.7	482.9	519.3
45°	542.1	554.2	542.1	513.2	475.3	463.1	464.6	463.1	466.2	475.3	510.2
47.5°	533.0	537.5	522.3	493.5	454.0	451.0	457.0	461.6	464.6	472.2	508.7
50°	519.3	519.3	505.6	475.3	435.8	437.3	444.9	455.5	457.0	466.2	495.0
52.5°	502.6	501.1	492.0	463.1	420.6	425.2	425.2	437.3	440.3	451.0	481.3
55°	488.9	485.9	481.3	454.0	406.9	414.5	410.0	414.5	422.1	432.7	466.2
57.5°	476.8	470.7	470.7	446.4	396.3	399.3	388.7	394.8	403.9	413.0	447.9
60°	464.6	458.6	461.6	435.8	379.6	376.6	372.0	384.2	387.2	397.8	432.7
62.5°	451.0	446.4	447.9	423.6	367.5	359.9	359.9	370.5	372.0	387.2	420.6
65°	440.3	434.3	432.7	411.5	353.8	344.7	349.2	353.8	356.8	372.0	403.9
67.5°	429.7	417.6	417.6	400.9	338.6	329.5	338.6	337.1	341.6	355.3	381.1
70°	416.0	399.3	400.9	393.3	323.4	312.8	320.4	318.9	321.9	331.0	356.8
72.5°	394.8	381.1	384.2	381.1	308.2	293.1	296.1	296.1	296.1	303.7	331.0
75°	367.5	356.8	365.9	373.5	290.0	268.8	271.8	271.8	267.2	271.8	305.2
77.5°	334.1	328.0	358.3	347.7	268.8	242.9	242.9	239.9	230.8	236.9	273.3
80°	297.6	293.1	331.0	291.5	244.5	211.1	208.0	200.4	191.3	195.9	232.3
82.5°	259.6	255.1	277.9	223.2	211.1	174.6	167.0	153.4	144.2	148.8	182.2
85°	212.6	212.6	214.1	168.5	161.0	133.6	124.5	106.3	95.7	98.7	130.6
87.5°	151.8	156.4	144.2	115.4	95.7	74.4	68.3	57.7	48.6	56.2	68.3
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2	9332.2
2.5°	8021.8	8188.8	8378.6	8621.6	8829.6	9171.2	9499.2	9696.6
5°	5997.8	6275.6	6621.8	7066.7	7481.2	8103.8	8721.8	9118.1
7.5°	4292.6	4590.2	4963.7	5519.5	6105.6	6899.7	7716.6	8190.3
10°	3551.6	3856.8	4171.1	4546.1	5026.0	5889.9	6855.7	7390.1
12.5°	2938.1	3264.6	3603.2	3998.0	4442.9	5214.2	6327.2	6942.2
15°	2248.8	2613.2	3012.5	3512.1	4069.4	4960.7	6196.7	6864.8
17.5°	1541.2	1948.1	2438.6	3055.1	3736.8	4878.7	6430.5	7200.3
20°	1061.4	1357.5	1881.3	2604.1	3424.0	4868.0	6880.0	7844.1
22.5°	888.3	1020.4	1403.0	2189.6	3188.7	4998.6	7576.9	8747.6
25°	821.5	900.4	1120.6	1829.7	3017.1	5299.3	8536.5	9916.8
27.5°	782.0	853.4	1017.3	1594.3	2882.0	5648.5	9470.4	11049.5
30°	797.2	870.1	988.5	1474.4	2698.2	5940.1	10299.4	11933.3
32.5°	718.2	750.1	847.3	1368.1	2566.1	6184.5	11025.2	12665.1
35°	611.9	668.1	756.2	1318.0	2569.2	6348.5	11816.3	13600.5
37.5°	583.1	639.3	703.0	1299.8	2604.1	6523.1	12724.3	14696.8
40°	564.9	616.5	671.1	1289.1	2637.5	6682.6	13614.1	15780.9
42.5°	552.7	599.8	668.1	1252.7	2654.2	6825.3	14346.0	16702.6
45°	551.2	599.8	680.3	1216.3	2680.0	6978.7	14959.5	17384.4
47.5°	552.7	619.5	657.5	1172.2	2680.0	7235.3	15679.2	17993.3
50°	546.6	652.9	633.2	1110.0	2617.8	7721.2	16666.2	18808.6
52.5°	543.6	648.4	586.1	1014.3	2509.9	8492.5	17931.0	19932.3
55°	536.0	625.6	552.7	871.6	2383.9	9333.7	19285.4	21260.9
57.5°	528.4	554.2	534.5	747.1	2189.6	9925.9	20217.7	22298.0
60°	592.2	484.4	519.3	686.3	1929.9	10088.4	20181.3	22711.0
62.5°	548.1	454.0	499.6	672.7	1747.7	9632.8	19249.0	22487.8
65°	429.7	434.3	479.8	712.1	1699.1	8425.7	17597.0	21456.8
67.5°	393.3	414.5	460.1	762.2	1703.7	6746.3	15128.0	19211.0
70°	370.5	393.3	437.3	788.1	1715.8	5029.0	11960.6	15647.3
72.5°	344.7	364.4	411.5	792.6	1636.9	3653.3	9218.3	11505.1
75°	314.3	332.5	375.0	690.9	1355.9	2534.2	7051.5	7871.5
77.5°	279.4	293.1	329.5	533.0	1006.7	1621.7	5293.2	5750.3
80°	238.4	246.0	276.4	390.2	689.4	1014.3	4187.8	4614.5
82.5°	191.3	194.4	214.1	293.1	447.9	651.4	2804.5	3200.8
85°	135.1	135.1	147.3	212.6	305.2	413.0	1523.0	1688.5
87.5°	63.8	65.3	65.3	116.9	159.4	209.5	350.8	215.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)