

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: P193056

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193056
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-SLR-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26715 lumens
Efficiency: N/A
Efficacy: 103.9 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

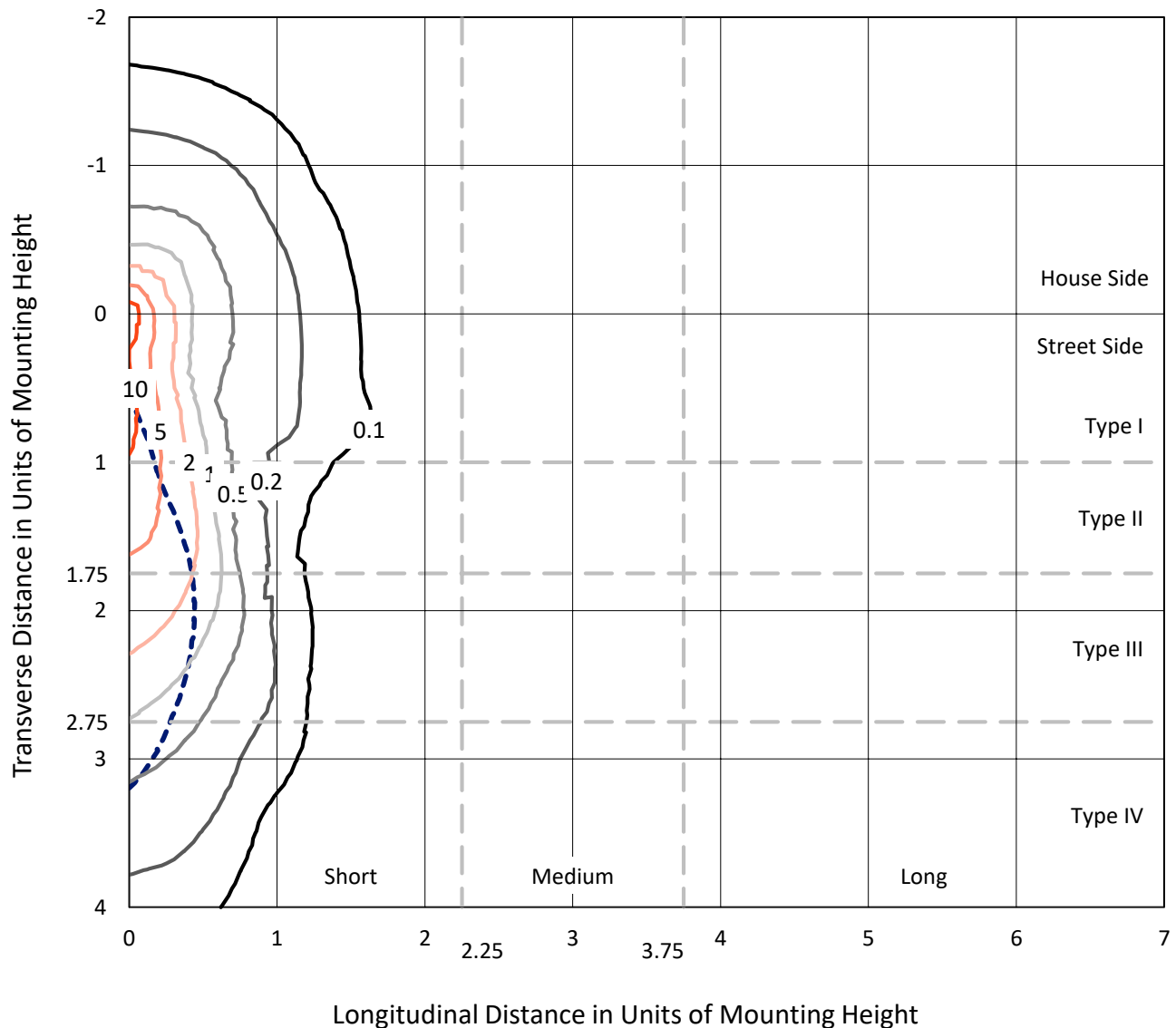


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

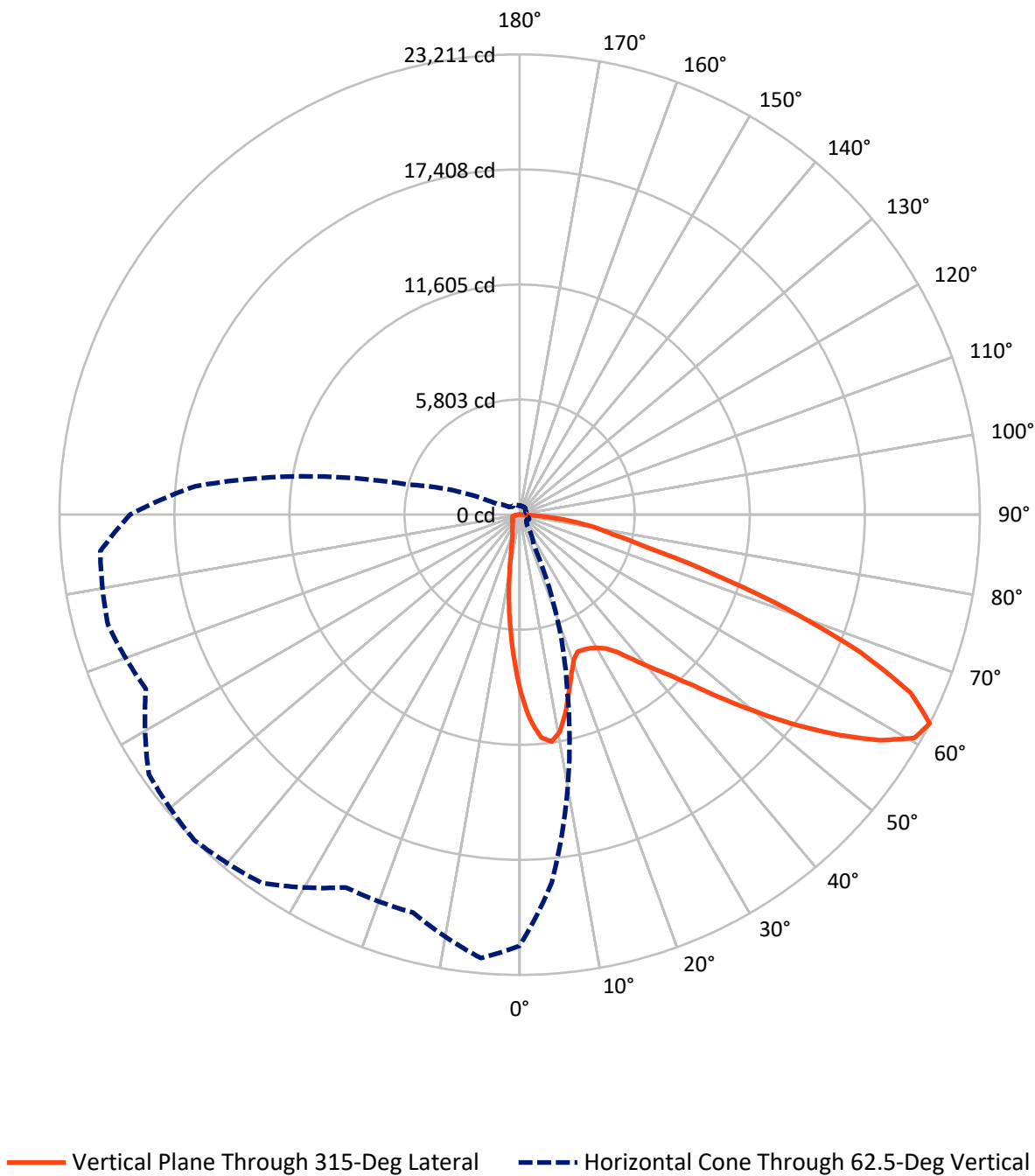


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4421.0	0.0	4421.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	22294.0	0.0	22294.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	26715.0	0.0	26715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.0	2.5
10°-20°	1204.8	4.5
20°-30°	1756.6	6.6
30°-40°	2705.5	10.1
40°-50°	3981.7	14.9
50°-60°	5840.4	21.9
60°-70°	6528.7	24.4
70°-80°	3196.3	12.0
80°-90°	843.9	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°	26715.0	100.0
0°-180°	26715.0	100.0

Coefficient of Utilization



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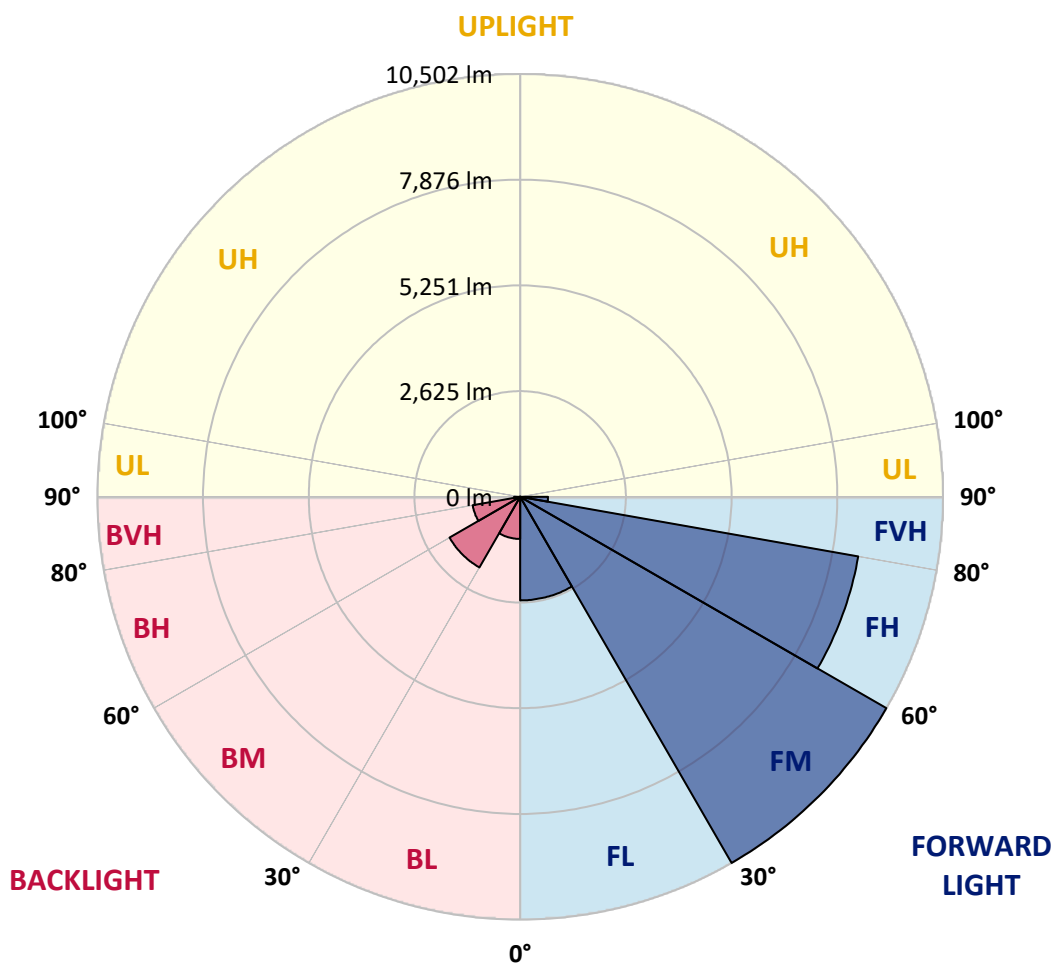
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2572.6	9.6			
FM	(30°-60°)	10501.9	39.3			
FH	(60°-80°)	8526.5	31.9			G4/12000
FVH	(80°-90°)	693.1	2.6			G4/750
BL	(0°-30°)	1045.9	3.9	B3/2500		
BM	(30°-60°)	2025.7	7.6	B2/2500		
BH	(60°-80°)	1198.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	150.9	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°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	9378.2	9187.3	8870.1	8539.7	8338.4	8103.5	7919.9	7758.4	7435.3	7372.2	7429.4
5°	8818.7	8435.4	7837.7	7235.5	6834.7	6404.3	6069.6	5800.8	5391.1	5319.1	5405.7
7.5°	7921.4	7463.2	6673.1	5905.0	5338.2	4800.8	4439.4	4151.7	3831.5	3693.4	3702.2
10°	7147.5	6630.5	5696.6	4861.0	4396.8	4034.2	3730.1	3435.0	3110.4	2897.4	2838.8
12.5°	6714.2	6119.5	5043.1	4296.9	3866.6	3485.0	3157.4	2841.7	2495.1	2277.7	2216.1
15°	6639.3	5993.2	4797.8	3935.7	3396.8	2913.6	2527.3	2175.0	1818.1	1641.8	1605.1
17.5°	6963.8	6219.4	4718.5	3614.1	2954.7	2358.5	1884.1	1490.7	1199.7	1111.7	1104.4
20°	7586.5	6654.0	4708.2	3311.6	2518.5	1819.5	1312.9	1026.5	898.7	873.7	875.2
22.5°	8460.4	7328.1	4834.5	3084.0	2117.7	1357.0	986.8	859.1	809.2	785.7	785.7
25°	9591.1	8256.2	5125.3	2918.0	1769.6	1083.8	870.9	794.6	747.5	731.4	734.3
27.5°	10686.6	9159.4	5463.1	2787.3	1541.9	983.9	825.4	756.3	715.2	699.0	706.4
30°	11541.4	9961.2	5745.0	2609.6	1426.0	956.0	841.6	771.1	712.3	687.2	688.8
32.5°	12249.3	10663.1	5981.4	2481.9	1323.1	819.5	725.5	694.7	687.2	658.0	643.2
35°	13153.8	11428.3	6140.1	2484.8	1274.7	731.4	646.2	591.8	552.2	518.4	518.4
37.5°	14214.2	12306.5	6308.9	2518.5	1257.1	679.9	618.3	563.9	527.1	495.0	489.1
40°	15262.8	13167.1	6463.1	2550.8	1246.7	649.1	596.2	546.3	512.5	480.2	471.5
42.5°	16154.1	13875.0	6601.1	2567.0	1211.5	646.2	580.0	534.6	502.3	467.0	458.3
45°	16813.5	14468.2	6749.5	2591.9	1176.2	658.0	580.0	533.0	493.5	459.7	450.8
47.5°	17402.4	15164.3	6997.7	2591.9	1133.7	635.9	599.2	534.6	492.0	456.7	449.4
50°	18191.0	16118.9	7467.7	2531.7	1073.5	612.4	631.5	528.7	478.8	450.8	442.1
52.5°	19277.8	17342.1	8213.7	2427.5	981.0	566.8	627.0	525.7	465.6	436.2	425.9
55°	20562.7	18652.2	9027.2	2305.6	842.9	534.6	605.1	518.4	450.8	418.6	408.3
57.5°	21565.8	19553.8	9599.9	2117.7	722.5	516.9	536.0	511.0	433.2	399.5	390.6
60°	21965.3	19518.6	9757.1	1866.5	663.8	502.3	468.5	572.7	418.6	384.8	374.4
62.5°	21749.3	18616.9	9316.5	1690.4	650.5	483.2	439.1	530.1	406.8	374.4	359.8
65°	20752.1	17019.1	8149.0	1643.4	688.8	464.1	420.0	415.6	390.6	359.8	345.2
67.5°	18580.2	14631.2	6524.9	1647.7	737.2	445.0	400.9	380.3	368.6	343.6	330.4
70°	15133.5	11567.9	4863.9	1659.4	762.2	423.0	380.3	358.4	345.2	320.1	311.4
72.5°	11127.3	8915.7	3533.3	1583.0	766.6	398.0	352.5	333.3	320.1	293.7	286.4
75°	7612.9	6820.0	2451.0	1311.4	668.2	362.7	321.7	304.0	295.2	262.9	258.5
77.5°	5561.4	5119.4	1568.4	973.6	515.4	318.7	283.4	270.2	264.3	229.1	223.2
80°	4462.9	4050.2	981.0	666.7	377.4	267.2	237.8	230.5	224.6	189.4	185.0
82.5°	3095.8	2712.5	630.0	433.2	283.4	207.0	187.9	185.0	176.2	143.9	139.6
85°	1633.0	1473.0	399.5	295.2	205.6	142.5	130.7	130.7	126.3	95.5	92.6
87.5°	208.5	339.2	202.6	154.2	113.1	63.2	63.2	61.7	66.1	54.3	47.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	7294.3	7364.8	7297.3	7301.7	7376.5	7599.7	7701.1	7784.8	7874.5	7933.2	7959.5
5°	5286.8	5451.3	5507.1	5624.5	5797.9	6082.8	6195.9	6278.0	6332.4	6364.7	6377.9
7.5°	3615.6	3715.5	3827.1	4016.5	4394.0	4561.3	4636.2	4617.2	4555.4	4533.3	4511.5
10°	2725.7	2686.0	2665.4	2769.7	3075.2	3244.0	3296.9	3245.5	3211.7	3219.1	3255.8
12.5°	2111.8	2042.7	1959.0	1947.3	2148.5	2299.8	2333.6	2336.5	2398.1	2452.6	2533.2
15°	1539.0	1531.7	1490.7	1465.6	1580.2	1703.6	1718.2	1744.7	1800.5	1840.2	1910.6
17.5°	1085.3	1125.0	1157.3	1173.3	1260.0	1348.1	1332.0	1318.8	1308.5	1308.5	1342.2
20°	875.2	901.7	942.8	989.8	1078.0	1139.6	1099.9	1047.0	1008.9	997.1	1001.6
22.5°	788.7	809.2	832.7	873.7	953.1	995.7	953.1	914.9	876.7	863.4	859.1
25°	744.6	771.1	793.0	823.9	882.6	912.0	870.9	842.9	819.5	803.3	791.6
27.5°	719.6	743.1	749.0	763.6	813.6	839.9	819.5	807.8	793.0	778.4	763.6
30°	693.1	688.8	678.5	679.9	719.6	746.0	744.6	747.5	746.0	741.7	738.7
32.5°	632.9	624.1	615.3	624.1	660.8	684.4	685.8	691.7	691.7	690.2	702.0
35°	527.1	543.3	553.6	580.0	624.1	644.7	635.9	621.2	594.8	578.6	577.1
37.5°	487.6	490.5	508.2	544.8	593.3	612.4	599.2	565.4	547.8	544.8	549.2
40°	468.5	471.5	481.8	515.4	563.9	583.0	571.3	546.3	530.1	528.7	536.0
42.5°	455.3	458.3	464.1	487.6	527.1	550.6	552.2	534.6	515.4	516.9	524.2
45°	448.0	449.4	448.0	459.7	496.4	524.2	536.0	524.2	508.2	511.0	519.8
47.5°	446.5	442.1	436.2	439.1	477.3	505.3	519.8	515.4	508.2	511.0	518.4
50°	440.6	430.3	423.0	421.5	459.7	489.1	502.3	502.3	505.3	511.0	518.4
52.5°	423.0	411.2	411.2	406.8	448.0	475.9	484.7	486.1	490.5	500.7	511.0
55°	400.9	396.5	400.9	393.6	439.1	465.6	470.0	472.9	475.9	484.7	499.4
57.5°	381.9	376.0	386.2	383.3	431.8	455.3	455.3	461.1	461.1	472.9	484.7
60°	371.6	359.8	364.2	367.1	421.5	446.5	443.5	449.4	452.4	462.6	471.5
62.5°	358.4	348.1	348.1	355.4	409.7	433.2	431.8	436.2	448.0	450.8	459.7
65°	342.2	337.7	333.3	342.2	398.0	418.6	420.0	425.9	436.2	439.1	446.5
67.5°	326.0	327.4	318.7	327.4	387.7	403.8	403.8	415.6	420.0	425.9	433.2
70°	308.4	309.9	302.5	312.8	380.3	387.7	386.2	402.4	405.4	409.7	417.1
72.5°	286.4	286.4	283.4	298.2	368.6	371.6	368.6	381.9	383.3	387.7	390.6
75°	262.9	262.9	259.9	280.5	361.2	353.9	345.2	355.4	358.4	361.2	361.2
77.5°	232.0	235.0	235.0	259.9	336.3	346.6	317.2	323.1	327.4	329.0	324.5
80°	193.8	201.1	204.1	236.4	282.0	320.1	283.4	287.8	289.3	289.3	283.4
82.5°	148.4	161.6	169.0	204.1	215.9	268.8	246.7	251.1	246.7	237.8	235.0
85°	102.8	120.4	129.3	155.7	163.1	207.0	205.6	205.6	196.7	185.0	183.5
87.5°	55.8	66.1	72.0	92.6	111.7	139.6	151.3	146.9	139.6	132.2	133.7
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°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	8097.6	8297.3	8616.0	8859.9	9105.0	9341.4	9597.0	9792.4	9958.3	10022.9	10219.7
5°	6511.7	6761.3	7062.3	7605.6	7990.4	8414.8	8905.2	9554.4	9804.1	10149.2	10714.6
7.5°	4603.9	4830.2	5314.7	5753.8	6298.7	6899.2	7561.7	8457.4	8784.9	9338.6	10259.3
10°	3437.9	3700.7	4089.9	4460.0	4940.2	5554.0	6314.7	7316.3	7714.4	8314.9	9375.3
12.5°	2769.7	3079.6	3492.3	3840.3	4211.8	4645.0	5383.8	6482.3	7015.3	7541.1	8613.1
15°	2128.0	2452.6	2835.9	3277.8	3687.5	4154.6	4928.4	6129.8	6743.6	7291.4	8206.4
17.5°	1473.0	1750.6	2233.7	2694.8	3219.1	3816.8	4802.2	6204.7	6937.4	7568.9	8276.8
20°	1044.2	1202.7	1599.2	2133.9	2787.3	3537.7	4778.7	6598.2	7551.4	8272.3	8729.2
22.5°	878.2	936.9	1167.6	1658.0	2412.9	3329.2	4861.0	7150.4	8379.6	9300.3	9450.2
25°	800.4	835.7	956.0	1301.2	2079.5	3178.0	5138.5	7972.7	9404.6	10328.4	10301.9
27.5°	757.8	794.6	873.7	1098.5	1828.4	3084.0	5416.1	8947.9	10576.6	11444.5	11115.5
30°	744.6	794.6	878.2	1035.3	1649.2	2935.7	5643.7	9804.1	11478.2	12197.8	11485.6
32.5°	734.3	741.7	779.8	892.8	1478.9	2762.4	5797.9	10572.2	12360.8	12914.6	12018.6
35°	593.3	630.0	691.7	800.4	1379.0	2658.1	5797.9	11234.5	13230.2	13638.5	12526.8
37.5°	571.3	603.5	658.0	750.4	1323.1	2606.7	5681.8	11873.3	14118.7	14459.5	12945.4
40°	559.5	585.9	637.3	712.3	1299.6	2547.9	5513.0	12437.2	14986.6	15281.8	13335.9
42.5°	550.6	574.1	622.7	688.8	1268.8	2483.4	5376.4	12889.6	15740.0	15983.7	13709.0
45°	546.3	571.3	624.1	700.5	1207.2	2398.1	5330.9	13378.6	16359.7	16569.7	14112.8
47.5°	546.3	575.7	631.5	725.5	1133.7	2310.1	5473.4	14023.3	16945.7	17048.5	14588.7
50°	541.9	574.1	652.1	700.5	1026.5	2198.4	5808.1	14835.3	17580.2	17591.9	15190.8
52.5°	533.0	571.3	702.0	685.8	903.1	2051.6	6260.4	15878.1	18518.6	18589.1	16133.6
55°	522.8	566.8	688.8	652.1	801.9	1876.8	6630.5	17145.4	19837.3	20032.5	17519.9
57.5°	509.5	560.9	666.7	605.1	735.8	1652.1	6764.1	18073.5	20758.0	21248.5	19082.4
60°	497.9	556.5	602.1	577.1	694.7	1462.7	6505.8	17890.0	20694.9	21752.3	20467.3
62.5°	486.1	560.9	549.2	559.5	675.6	1340.8	5830.2	16419.9	19647.9	21232.5	21493.8
65°	472.9	521.3	518.4	544.8	671.2	1292.3	4833.0	14215.6	17624.2	19589.1	21736.1
67.5°	455.3	481.8	496.4	525.7	685.8	1249.7	3900.4	11726.5	14811.8	17126.3	20473.2
70°	436.2	458.3	474.3	502.3	677.0	1230.7	3244.0	9247.4	11752.9	14036.4	17981.1
72.5°	411.2	430.3	445.0	471.5	668.2	1220.4	2740.3	7447.1	8774.6	10426.7	14619.6
75°	381.9	399.5	409.7	436.2	640.3	1117.6	2154.4	6301.6	6565.9	7253.1	11644.2
77.5°	348.1	361.2	370.1	399.5	566.8	929.6	1558.1	4861.0	5098.8	5266.3	8927.3
80°	308.4	321.7	326.0	353.9	470.0	726.9	1016.2	3590.6	3813.8	3852.1	5830.2
82.5°	262.9	276.1	276.1	302.5	384.8	522.8	666.7	2459.9	2503.9	2633.1	4120.8
85°	211.5	221.8	221.8	235.0	298.2	390.6	458.3	1235.0	1221.8	1395.1	3570.0
87.5°	151.3	158.7	166.0	169.0	212.9	258.5	276.1	376.0	248.2	284.9	2292.4
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°	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8	9025.8
2.5°	10368.0	10451.7	10366.5	10304.9	10039.1	9820.2	9528.0	9378.2
5°	11144.9	11357.8	11285.8	11027.4	10472.3	9848.2	9138.9	8818.7
7.5°	11050.9	11545.8	11557.6	11074.4	10256.3	9337.1	8376.7	7921.4
10°	10319.5	10952.4	11133.2	10664.7	9796.7	8768.7	7667.4	7147.5
12.5°	9503.1	10122.8	10260.9	10099.3	9373.8	8341.4	7223.7	6714.2
15°	8834.8	9112.4	9276.8	9417.8	9011.0	8171.1	7198.9	6639.3
17.5°	8428.0	8397.2	8444.2	8689.5	8758.4	8366.4	7580.7	6963.8
20°	8281.2	7809.8	7798.1	8135.8	8639.5	8831.9	8326.7	7586.5
22.5°	8361.9	7598.3	7501.4	7902.2	8702.7	9503.1	9304.7	8460.4
25°	8641.0	7615.9	7538.2	7925.7	8931.7	10218.3	10360.7	9591.1
27.5°	9080.1	7727.6	7624.7	8022.7	9235.8	10818.9	11400.4	10686.6
30°	9497.2	7921.4	7793.7	8213.7	9513.3	11056.8	12037.7	11541.4
32.5°	10003.8	8284.1	8059.4	8564.7	9857.0	11435.6	12606.2	12249.3
35°	10500.2	8801.1	8522.0	9106.5	10240.3	11907.1	13255.3	13153.8
37.5°	11045.0	9476.6	9246.1	9807.0	10764.6	12352.1	14083.5	14214.2
40°	11626.6	10372.4	10099.3	10829.1	11578.1	12910.1	14948.5	15262.8
42.5°	12212.6	11366.7	11040.6	11780.8	12472.5	13460.8	15688.6	16154.1
45°	12883.7	12446.0	12291.8	13092.2	13331.6	13985.0	16235.0	16813.5
47.5°	13664.9	13670.8	13919.0	14239.1	14198.0	14578.4	16784.2	17402.4
50°	14577.0	15199.6	15747.3	15960.3	15090.9	15215.8	17546.4	18191.0
52.5°	15672.4	17027.9	17706.4	17566.9	16052.8	15994.0	18753.5	19277.8
55°	17042.6	18963.5	19637.6	19537.7	17158.6	17054.4	20257.3	20562.7
57.5°	18628.7	20838.8	21458.6	21009.3	18486.2	18217.5	21501.1	21565.8
60°	20022.3	22325.1	22868.4	22370.5	19825.5	19455.5	22278.1	21965.3
62.5°	20797.7	22828.7	23210.6	22674.6	20743.4	20774.2	22448.4	21749.3
65°	20451.1	21555.5	21678.9	21634.8	20507.0	21539.4	21836.0	20752.1
67.5°	18553.8	18336.4	18543.5	18829.8	18480.3	20531.9	20139.8	18580.2
70°	15211.3	14017.4	14430.1	14622.3	14781.0	17668.2	17480.3	15133.5
72.5°	11463.6	9820.2	10146.3	10106.6	10840.9	14171.6	13594.5	11127.3
75°	8122.6	6658.5	6699.6	6683.4	7564.6	11087.6	9843.7	7612.9
77.5°	5683.3	4824.3	4846.2	4937.3	5085.6	8361.9	7032.9	5561.4
80°	3907.8	3661.2	3783.0	3790.3	3524.6	5617.2	5195.8	4462.9
82.5°	2910.6	2544.9	2515.7	2558.2	2762.4	4551.0	3993.0	3095.8
85°	2383.5	1506.8	1211.5	1518.4	2448.1	4507.1	2652.3	1633.0
87.5°	1342.2	715.2	323.1	599.2	976.6	2984.1	766.6	208.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)