

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: P648602

Luminaire Tested: **GALN-SA8B-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA 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: 31012.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

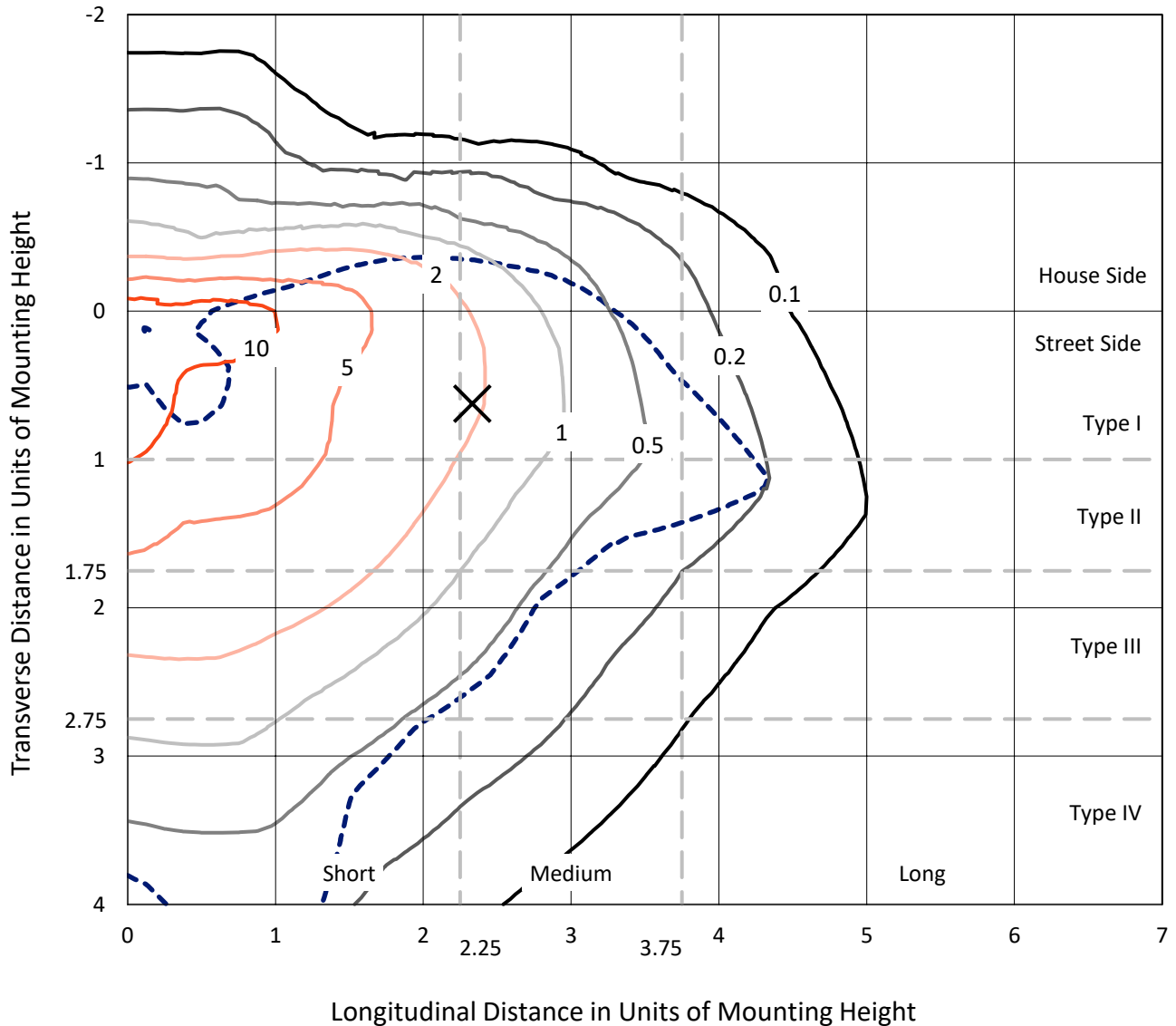
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

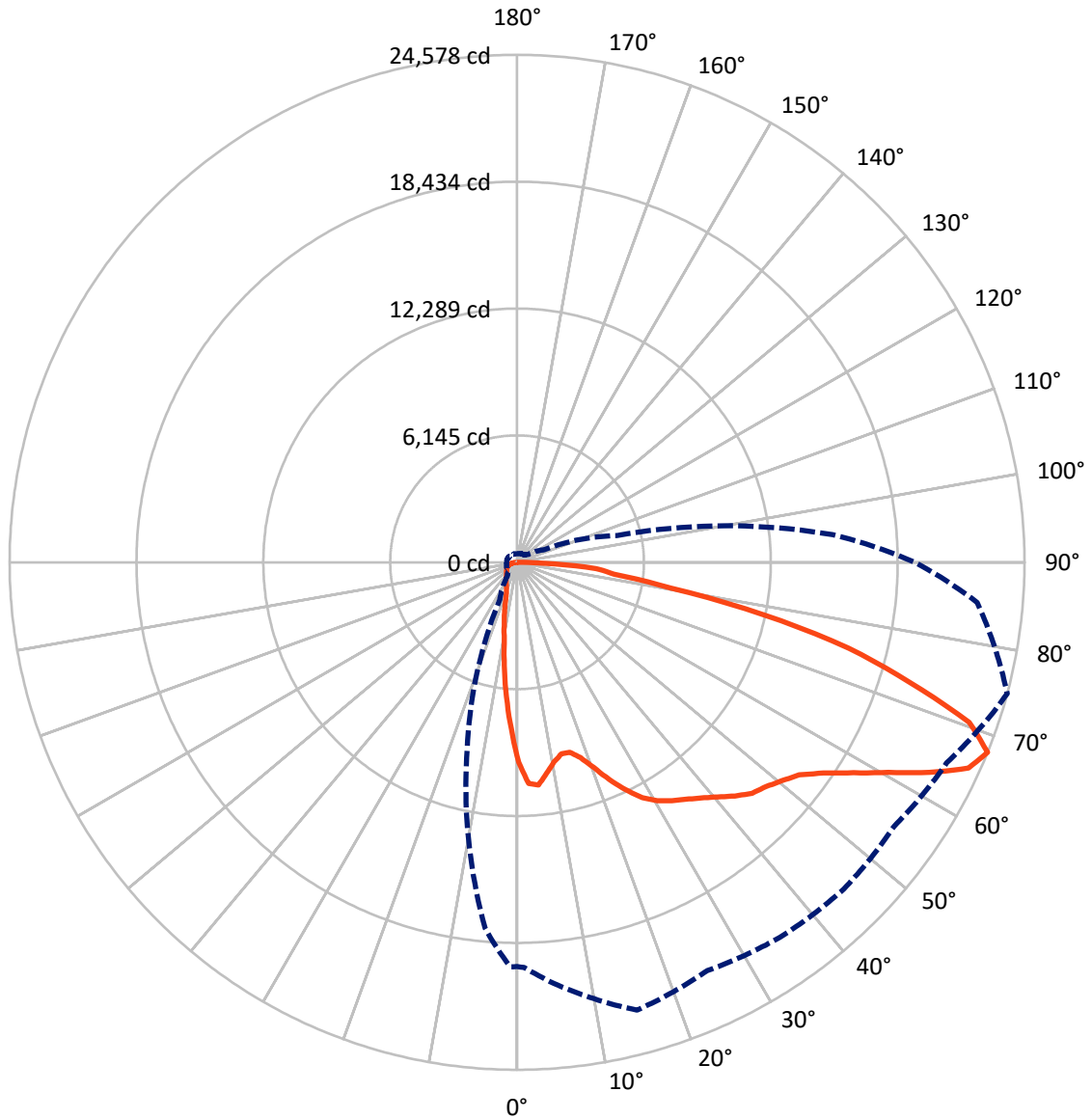
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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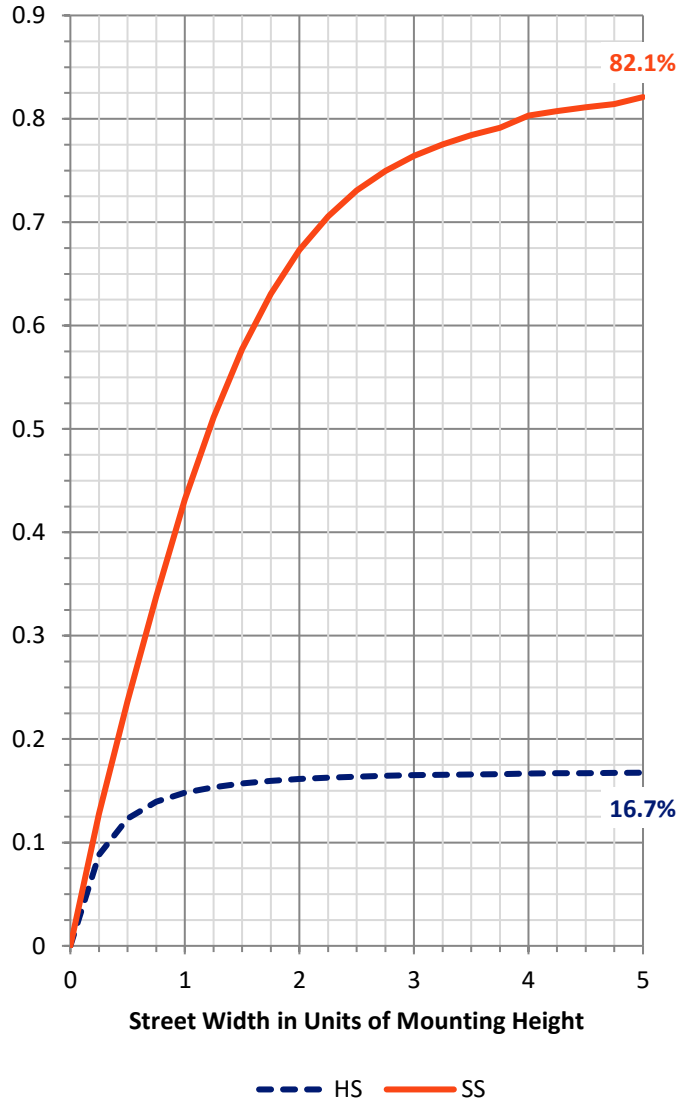
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5241.7	0.0	5241.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	25770.5	0.0	25770.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	31012.3	0.0	31012.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.9	2.4
10°-20°	1532.6	4.9
20°-30°	2205.5	7.1
30°-40°	3176.5	10.2
40°-50°	4462.1	14.4
50°-60°	6223.0	20.1
60°-70°	7398.8	23.9
70°-80°	4357.5	14.1
80°-90°	921.4	3.0
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°	31012.3	100.0
0°-180°	31012.3	100.0

Coefficient of Utilization

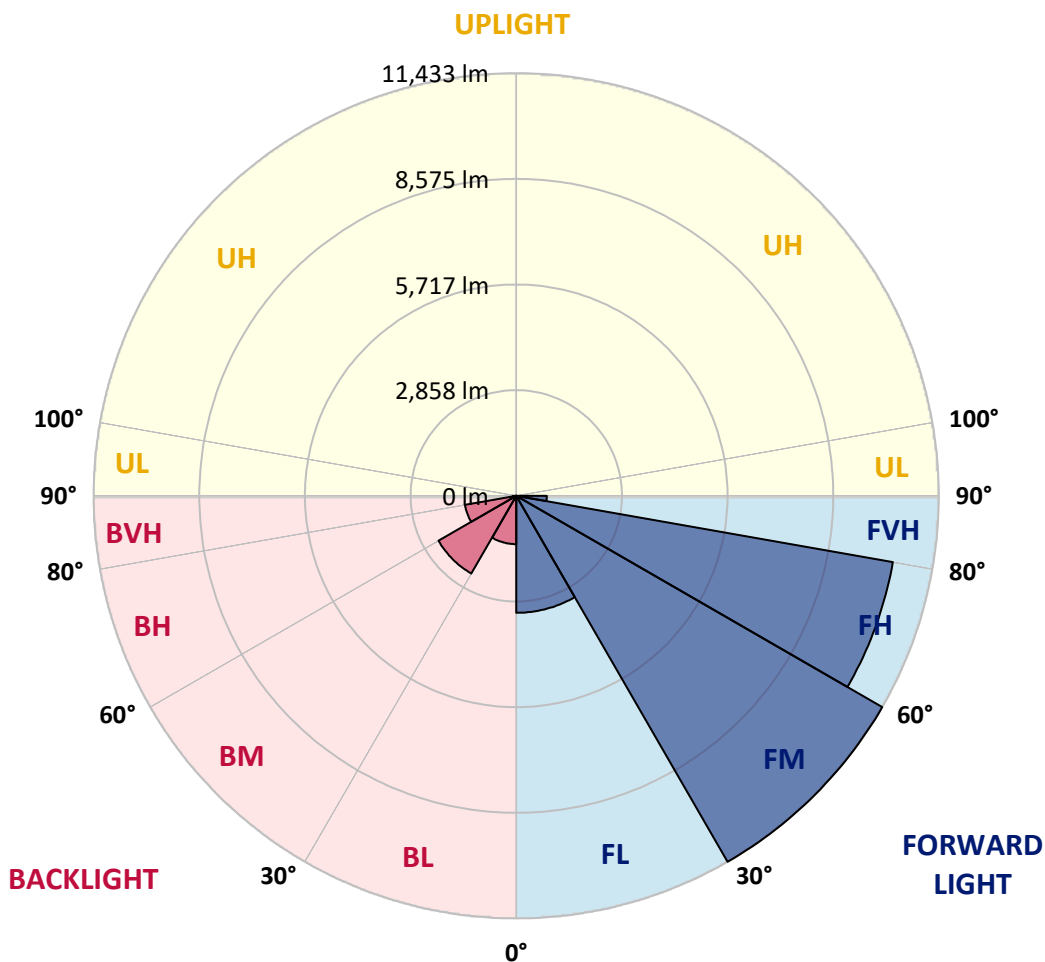


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3165.5	10.2			
FM (30°-60°)	11433.1	36.9			
FH (60°-80°)	10345.8	33.4			G4/12000
FVH (80°-90°)	826.1	2.7			G5
BL (0°-30°)	1307.5	4.2	B3/2500		
BM (30°-60°)	2428.5	7.8	B2/2500		
BH (60°-80°)	1410.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0
2.5°	10446.6	10460.6	10550.1	10810.6	10989.6	11055.2	11101.0	11015.4	10931.9	10729.1	10422.8
5°	10414.8	10496.3	10729.1	11313.7	11775.1	11974.0	12033.7	11777.1	11353.5	10832.5	10206.0
7.5°	9806.3	9915.7	10273.7	11254.1	12067.4	12532.9	12471.2	12007.8	11244.1	10315.4	9440.4
10°	9084.4	9205.7	9637.2	10822.5	11870.6	12510.9	12510.9	11946.2	10931.9	9828.2	8819.9
12.5°	8511.7	8638.9	9132.1	10379.1	11460.9	12067.4	12168.9	11683.6	10707.2	9519.9	8412.2
15°	8322.7	8446.1	8977.0	10110.6	11027.4	11397.3	11431.1	11272.0	10597.8	9541.8	8394.3
17.5°	8557.4	8716.5	9253.4	10190.1	10629.6	10651.5	10677.4	10802.7	10609.7	9941.5	8756.3
20°	9235.6	9406.6	9967.4	10446.6	10281.6	10054.9	10068.8	10391.0	10750.9	10601.8	9621.3
22.5°	10214.0	10363.2	10937.9	10898.1	10134.4	9667.1	9569.7	10019.1	10959.7	11425.1	10542.2
25°	11270.0	11445.0	12105.3	11568.3	10176.2	9436.4	9374.8	9800.3	11176.5	12194.8	11606.1
27.5°	12479.1	12650.1	13171.2	12244.5	10395.0	9418.5	9344.9	9780.5	11371.4	12906.7	12622.3
30°	13378.0	13535.1	13889.1	12813.2	10663.4	9537.8	9446.3	9937.5	11538.4	13393.9	13612.7
32.5°	14084.0	14247.1	14440.0	13167.2	11017.4	9754.6	9585.6	10223.9	11757.2	13765.8	14346.5
35°	14819.8	15012.8	14998.8	13481.5	11347.5	10005.2	9840.1	10637.6	12101.3	14090.0	15277.3
37.5°	15752.6	15830.1	15730.6	13763.8	11743.3	10456.6	10365.1	11252.1	12590.5	14481.7	16365.1
40°	16699.1	16854.3	16343.2	14105.9	12224.6	11305.8	11295.9	12160.9	13171.2	14941.1	17419.1
42.5°	17510.5	17641.8	16915.9	14404.2	12807.3	12341.9	12417.4	13380.0	13932.9	15474.1	18266.3
45°	18121.0	18238.4	17444.9	14692.5	13574.9	13539.1	13984.5	14686.6	14893.4	15953.4	18763.4
47.5°	18640.1	18753.5	17812.9	15130.1	14523.5	14969.0	15744.6	16048.8	15714.7	16227.8	19320.3
50°	19077.6	19111.5	18065.4	15651.1	15700.8	16721.0	17472.7	17669.6	16526.2	16621.6	19803.6
52.5°	19533.0	19489.3	18501.0	16307.4	16973.6	18383.6	18930.5	19135.3	17303.8	17106.8	20507.6
55°	20553.3	20595.0	19477.4	17134.7	18260.3	20016.3	20736.2	20539.3	18164.8	17999.8	21402.4
57.5°	21786.3	21750.5	20851.6	18429.3	19570.9	21535.7	22072.6	21756.4	19314.3	19226.8	22309.3
60°	22265.5	22313.3	22001.0	19821.4	20863.5	22866.1	23415.0	22923.8	20692.5	20652.7	22993.4
62.5°	21784.3	22052.7	22263.6	21060.4	21965.3	23844.5	24389.5	23828.6	22130.3	22418.7	23472.7
65°	20825.7	20883.4	21601.3	22110.4	22496.2	24005.7	24290.1	23991.7	23331.5	24027.5	23450.8
67.5°	19580.8	19630.5	20471.7	22454.5	21812.1	22176.0	22374.9	22287.4	22959.6	24578.4	22370.9
70°	18395.5	18355.7	19244.7	21577.4	18988.1	18435.3	18600.3	18325.9	19811.5	23232.1	20253.0
72.5°	16088.6	16231.8	17186.4	19139.3	15034.6	14135.7	14495.7	13785.7	15237.5	19897.0	16438.6
75°	12602.4	12636.2	14229.1	16062.8	11341.6	9923.7	10410.8	10114.6	11671.7	16597.7	11351.5
77.5°	8726.5	8650.9	10363.2	12268.4	8088.1	7264.8	7272.7	7131.5	8149.7	12220.6	7712.2
80°	5542.5	5427.2	6487.2	7579.0	5558.4	5946.3	5751.4	5745.3	5305.8	7539.2	4663.5
82.5°	2995.0	3122.3	4098.7	4751.0	3987.3	4595.9	4212.1	4088.7	3641.3	4719.2	2983.1
85°	1364.2	1483.6	2185.6	3231.7	3028.8	3062.6	2046.4	2414.3	3012.9	3832.2	1592.9
87.5°	133.3	171.0	451.4	1525.4	1034.1	815.3	304.3	586.7	757.7	1362.3	127.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0
2.5°	10297.5	10194.1	9842.1	9551.7	9243.5	9008.8	8702.6	8497.7	8356.6	8143.7	8117.9
5°	9824.2	9571.6	8959.1	8334.6	7795.7	7390.0	6978.3	6600.5	6377.8	6308.2	6218.7
7.5°	9026.7	8601.2	7813.6	7097.7	6479.2	5874.6	5409.3	5079.2	4858.4	4729.2	4574.1
10°	8370.4	7877.3	6918.7	6041.7	5532.6	5156.7	4747.0	4393.0	4120.6	3887.9	3760.7
12.5°	7929.0	7372.1	6294.2	5582.3	5188.5	4788.8	4309.6	3911.8	3510.0	3245.5	3132.2
15°	7795.7	7207.0	6101.4	5353.6	4788.8	4265.8	3728.8	3209.8	2812.1	2561.4	2478.0
17.5°	8121.9	7409.9	6099.3	5049.3	4319.5	3695.0	3007.0	2519.7	2112.0	1925.1	1865.4
20°	8730.4	7799.7	6117.3	4749.1	3810.4	2931.3	2187.5	1787.8	1592.9	1513.4	1483.6
22.5°	9579.6	8394.3	6171.0	4452.7	3253.5	2251.2	1638.7	1435.9	1366.3	1352.3	1346.4
25°	10625.6	9130.2	6351.9	4186.2	2784.2	1718.2	1370.2	1278.7	1238.9	1225.0	1223.0
27.5°	11588.2	10080.7	6570.7	3957.5	2330.8	1481.6	1238.9	1161.4	1121.6	1119.6	1123.6
30°	12457.2	10876.3	6753.6	3701.0	1986.7	1316.5	1153.4	1075.9	1038.1	1036.1	1048.0
32.5°	13209.0	11530.5	6888.9	3448.4	1795.8	1215.1	1075.9	992.4	960.5	954.6	960.5
35°	14012.4	12182.8	6827.2	3251.6	1686.4	1131.6	1018.2	936.7	898.9	881.0	881.0
37.5°	14929.2	12855.0	6721.8	3088.5	1636.7	1062.0	968.5	888.9	851.2	833.3	831.3
40°	15929.5	13527.2	6576.7	2943.3	1587.0	1020.2	934.7	851.2	805.4	787.5	783.5
42.5°	16812.5	14101.9	6457.3	2847.8	1505.5	1028.2	904.8	823.3	765.6	741.8	739.8
45°	17580.2	14680.6	6435.5	2792.2	1437.8	1016.3	896.9	801.5	733.8	708.0	704.0
47.5°	18180.7	15283.2	6560.8	2760.3	1364.2	952.6	948.6	787.5	706.0	678.2	674.2
50°	18912.6	16138.3	6847.1	2694.7	1296.6	892.9	1002.3	785.5	684.1	648.3	638.4
52.5°	19887.0	17252.0	7234.9	2577.3	1199.2	837.3	956.6	785.5	658.3	622.5	610.5
55°	21360.7	18672.0	7614.8	2412.3	1062.0	763.7	863.1	761.7	620.4	588.7	580.7
57.5°	22337.1	19710.1	7857.4	2183.6	891.0	709.9	743.8	723.9	582.7	548.9	548.9
60°	22386.8	19988.5	7742.0	1895.3	783.5	660.2	646.4	729.8	548.9	513.1	509.1
62.5°	21814.1	19306.4	7141.4	1636.7	725.8	606.6	584.7	640.3	515.1	479.3	473.3
65°	20919.2	17566.2	6099.3	1513.4	694.1	558.8	527.0	525.0	479.3	445.4	437.5
67.5°	19274.6	15350.8	5011.5	1441.8	678.2	505.1	475.3	465.3	437.5	409.7	405.7
70°	16850.3	12856.9	4019.1	1412.0	670.2	449.4	425.6	413.7	389.8	367.9	365.9
72.5°	13109.5	10428.8	3317.2	1392.1	666.3	397.8	371.9	356.0	342.1	322.2	322.2
75°	9416.5	7672.5	2531.6	1254.8	616.5	342.1	314.2	304.3	284.4	268.5	272.5
77.5°	5936.3	5166.6	1666.5	922.8	477.3	274.4	250.6	244.6	228.7	206.8	220.7
80°	4009.2	3633.4	972.5	580.7	300.3	200.8	192.9	190.9	173.0	149.2	151.1
82.5°	2728.5	2676.8	505.1	330.1	173.0	117.4	113.4	117.4	97.5	79.6	79.6
85°	1066.0	1455.8	238.7	129.3	55.7	17.9	25.8	27.9	15.9	8.0	9.9
87.5°	19.9	149.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0
2.5°	8078.1	8060.2	8090.0	7962.8	7988.6	8036.3	8060.2	8074.1	8271.0	8225.3	8350.5
5°	6302.2	6284.3	6399.6	6415.6	6475.3	6463.3	6521.0	6534.9	6606.5	6632.3	6807.3
7.5°	4584.0	4661.5	4792.7	4860.4	4961.8	4993.7	4963.8	5037.4	4888.3	4995.6	5027.4
10°	3683.1	3589.6	3533.9	3689.0	3708.9	3856.1	3796.5	3748.7	3836.2	3840.2	3923.7
12.5°	3066.6	2865.7	2732.5	2776.2	2824.0	2887.6	2897.6	2993.0	3056.7	3116.3	3166.0
15°	2404.4	2334.7	2213.5	2153.8	2221.4	2247.2	2308.9	2388.5	2456.0	2474.0	2541.5
17.5°	1845.5	1857.4	1837.5	1801.8	1843.5	1863.4	1867.4	1869.4	1887.3	1875.4	1974.8
20°	1485.6	1527.3	1577.0	1585.0	1598.9	1608.8	1591.0	1523.3	1525.4	1567.1	1598.9
22.5°	1344.3	1352.3	1408.0	1425.9	1469.7	1451.8	1400.1	1368.2	1364.2	1374.2	1390.1
25°	1233.0	1244.9	1284.7	1312.5	1346.4	1314.5	1276.8	1246.9	1242.9	1252.9	1268.8
27.5°	1133.5	1151.5	1187.3	1215.1	1246.9	1217.1	1181.3	1155.5	1153.4	1151.5	1161.4
30°	1054.0	1073.9	1099.7	1131.6	1153.4	1127.6	1093.8	1079.8	1077.9	1073.9	1077.9
32.5°	974.4	1006.3	1032.2	1048.0	1069.9	1050.0	1024.2	1016.3	1002.3	990.3	984.4
35°	884.9	918.8	958.5	978.4	1000.3	980.4	962.5	928.7	904.8	902.9	906.9
37.5°	833.3	847.2	879.0	912.8	934.7	924.7	891.0	857.2	851.2	851.2	855.1
40°	787.5	793.5	807.4	851.2	891.0	861.1	819.3	809.4	809.4	807.4	809.4
42.5°	741.8	747.8	747.8	781.6	845.2	797.5	765.6	765.6	765.6	767.7	773.6
45°	700.0	702.0	700.0	723.9	783.5	743.8	721.9	727.9	731.9	735.8	739.8
47.5°	664.2	666.3	664.2	684.1	713.9	698.0	686.1	694.1	702.0	708.0	712.0
50°	632.4	630.4	634.4	646.4	660.2	664.2	656.3	668.2	672.2	680.1	690.1
52.5°	604.6	602.6	606.6	612.5	632.4	632.4	632.4	642.4	650.3	658.3	672.2
55°	572.8	574.7	580.7	588.7	614.5	610.5	612.5	620.4	628.4	640.3	648.3
57.5°	542.9	546.9	554.8	566.8	592.7	590.6	592.7	596.6	606.6	612.5	620.4
60°	509.1	517.1	527.0	534.9	560.8	558.8	568.8	576.8	582.7	582.7	586.7
62.5°	475.3	487.3	497.2	503.2	531.0	533.0	546.9	552.9	556.9	552.9	558.8
65°	441.5	459.4	463.4	471.3	499.2	501.1	517.1	531.0	527.0	523.0	533.0
67.5°	407.7	429.6	427.6	437.5	465.3	469.3	483.3	507.1	499.2	495.2	503.2
70°	369.9	385.8	387.8	393.8	431.5	425.6	447.5	469.3	463.4	465.3	465.3
72.5°	328.2	342.1	342.1	354.0	393.8	383.8	401.8	425.6	425.6	423.6	423.6
75°	278.4	286.3	294.3	312.3	354.0	342.1	354.0	375.8	379.8	375.8	375.8
77.5°	224.7	236.6	240.6	264.5	294.3	292.4	304.3	314.2	322.2	318.2	318.2
80°	159.1	171.0	186.9	212.8	230.7	236.6	242.7	250.6	254.6	254.6	258.5
82.5°	89.5	107.4	121.3	147.1	155.1	184.9	183.0	188.9	183.0	161.1	179.0
85°	19.9	37.8	53.7	67.7	77.6	107.4	113.4	127.3	105.4	97.5	97.5
87.5°	0.0	0.0	0.0	0.0	0.0	15.9	31.8	43.8	37.8	31.8	31.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0	9689.0
2.5°	8456.0	8629.0	8837.8	9197.7	9450.3	9722.7	9997.2	10289.6	10367.2	10446.6
5°	6855.1	7195.1	7380.1	7863.4	8370.4	9014.8	9541.8	10118.6	10359.2	10414.8
7.5°	5192.5	5423.2	5908.4	6397.7	7026.1	7702.3	8509.6	9408.5	9689.0	9806.3
10°	4116.6	4430.8	4856.4	5381.4	5932.3	6660.2	7571.0	8621.1	9018.8	9084.4
12.5°	3504.1	3854.1	4317.5	4872.3	5393.4	5942.3	6861.0	7944.9	8370.4	8511.7
15°	2802.1	3225.6	3760.7	4345.3	4912.1	5512.7	6443.4	7666.4	8157.7	8322.7
17.5°	2201.5	2543.6	3122.3	3756.7	4428.9	5188.5	6355.9	7799.7	8404.3	8557.4
20°	1684.5	1929.1	2416.3	3086.5	3874.0	4868.4	6377.8	8302.9	9026.7	9235.6
22.5°	1455.8	1581.0	1877.3	2515.7	3396.7	4589.9	6467.3	8992.9	9866.0	10214.0
25°	1318.5	1384.1	1551.2	1968.9	2941.3	4319.5	6672.1	9921.6	11039.3	11270.0
27.5°	1201.2	1248.9	1352.3	1652.6	2527.7	4068.9	6910.8	10951.8	12135.1	12479.1
30°	1089.8	1153.4	1250.9	1467.7	2263.2	3840.2	7211.0	11787.0	13057.9	13378.0
32.5°	1004.3	1067.9	1157.4	1338.4	2038.4	3599.5	7390.0	12520.9	13811.6	14084.0
35°	934.7	988.4	1081.9	1234.9	1867.4	3416.6	7354.2	13103.6	14541.4	14819.8
37.5°	884.9	930.8	1024.2	1137.5	1738.1	3225.6	7336.3	13873.2	15430.3	15752.6
40°	839.2	887.0	972.5	1073.9	1608.8	3000.9	7346.3	14636.9	16377.0	16699.1
42.5°	803.4	857.2	926.8	1056.0	1475.6	2820.0	7346.3	15301.1	17200.3	17510.5
45°	773.6	831.3	898.9	1054.0	1370.2	2682.8	7296.5	15871.9	17856.5	18121.0
47.5°	747.8	811.4	908.8	1018.2	1344.3	2583.4	7252.8	16329.2	18391.6	18640.1
50°	729.8	805.4	966.5	976.5	1352.3	2553.5	7463.6	16906.0	18862.9	19077.6
52.5°	715.9	807.4	964.5	914.8	1338.4	2573.4	7903.1	17806.8	19517.1	19533.0
55°	688.1	805.4	914.8	845.2	1280.8	2607.2	8467.9	19115.5	20541.3	20553.3
57.5°	660.2	783.5	849.2	785.5	1163.4	2607.2	9148.0	20354.4	21776.3	21786.3
60°	632.4	815.3	745.7	733.8	1010.2	2559.5	9866.0	20899.3	22164.1	22265.5
62.5°	604.6	821.4	666.3	688.1	898.9	2444.1	10400.9	20296.7	21639.1	21784.3
65°	572.8	662.3	614.5	640.3	841.3	2251.2	10231.9	19193.0	20652.7	20825.7
67.5°	534.9	560.8	558.8	590.6	821.4	1966.8	9341.0	17796.9	19590.7	19580.8
70°	489.2	503.2	509.1	542.9	783.5	1746.1	7783.8	15985.2	18172.8	18395.5
72.5°	441.5	453.4	459.4	489.2	745.7	1620.8	6041.7	13489.4	15740.6	16088.6
75°	389.8	397.8	405.7	431.5	706.0	1435.9	4303.5	10297.5	12055.5	12602.4
77.5°	336.1	336.1	346.0	371.9	594.6	1185.3	2887.6	7222.9	8167.6	8726.5
80°	272.5	274.4	270.4	298.3	437.5	811.4	1640.7	4824.6	5435.1	5542.5
82.5°	208.8	202.9	204.8	218.8	326.1	552.9	875.0	2997.0	3054.6	2995.0
85°	131.2	131.2	127.3	143.2	208.8	288.4	477.3	1835.6	1433.8	1364.2
87.5°	53.7	43.8	49.7	57.7	99.4	117.4	186.9	377.9	145.2	133.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)