

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: P459367

Luminaire Tested: **GALN-SA8B-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459367
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-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 36895 lumens
Efficiency: N/A
Efficacy: 113.5 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

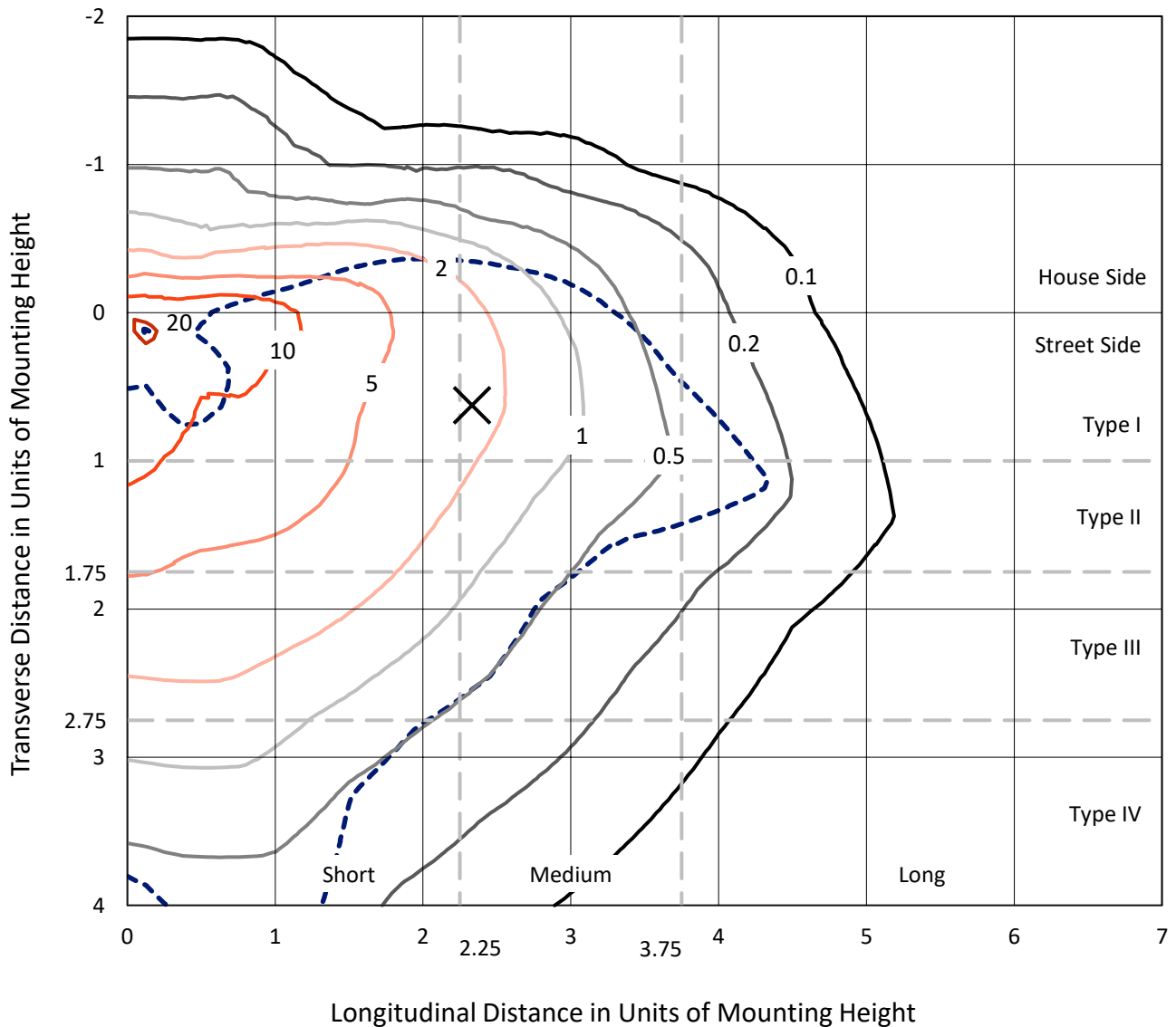
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

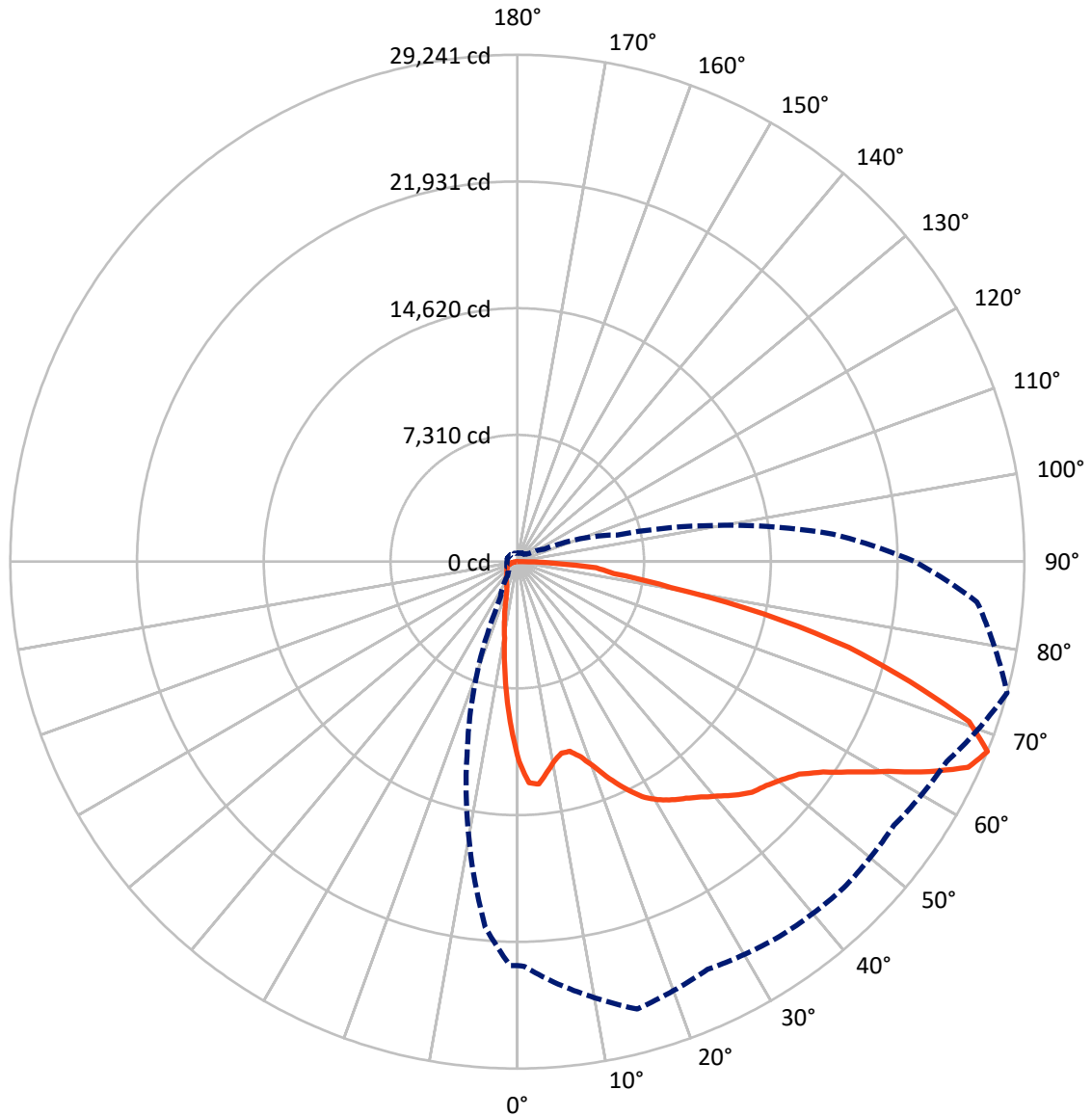
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 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	6236.0	0.0	6236.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	30659.0	0.0	30659.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	36895.0	0.0	36895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	874.3	2.4
10°-20°	1823.3	4.9
20°-30°	2623.8	7.1
30°-40°	3779.0	10.2
40°-50°	5308.5	14.4
50°-60°	7403.5	20.1
60°-70°	8802.3	23.9
70°-80°	5184.0	14.1
80°-90°	1096.2	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°	36895.0	100.0
0°-180°	36895.0	100.0

Coefficient of Utilization



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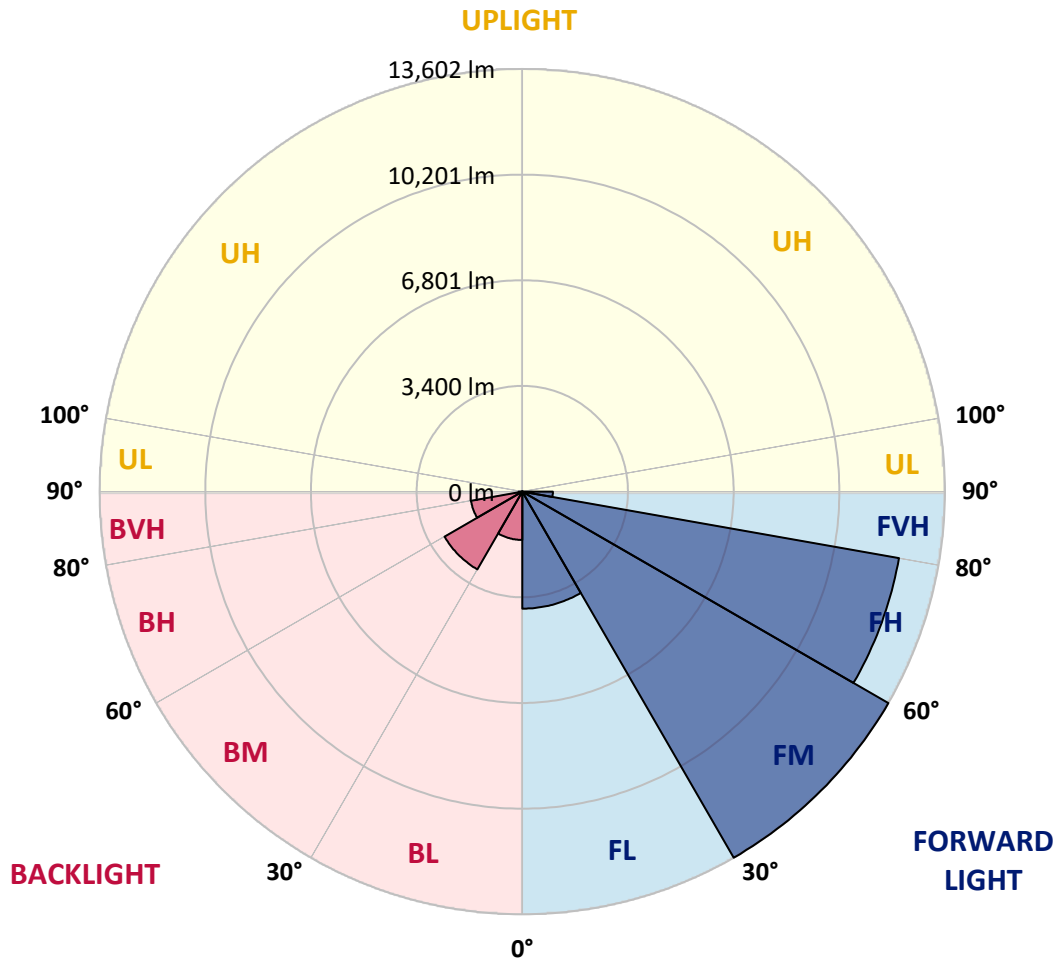
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3766.0	10.2			
FM	(30°-60°)	13601.8	36.9			
FH	(60°-80°)	12308.3	33.4			G5
FVH	(80°-90°)	982.8	2.7			G5
BL	(0°-30°)	1555.5	4.2	B3/2500		
BM	(30°-60°)	2889.2	7.8	B3/5000		
BH	(60°-80°)	1678.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	113.4	0.3			G2/225
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°	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9
2.5°	12428.3	12444.9	12551.3	12861.3	13074.2	13152.3	13206.7	13105.0	13005.6	12764.3	12399.9
5°	12390.4	12487.4	12764.3	13459.8	14008.7	14245.3	14316.3	14011.1	13507.2	12887.3	12142.0
7.5°	11666.5	11796.6	12222.5	13388.9	14356.5	14910.2	14836.8	14285.6	13377.0	12272.1	11231.1
10°	10807.6	10951.9	11465.4	12875.5	14122.3	14884.1	14884.1	14212.2	13005.6	11692.5	10493.0
12.5°	10126.2	10277.7	10864.4	12347.9	13634.9	14356.5	14477.2	13899.9	12738.2	11325.8	10007.9
15°	9901.5	10048.2	10679.9	12028.5	13119.2	13559.2	13599.4	13410.2	12608.1	11351.8	9986.6
17.5°	10180.6	10369.9	11008.7	12123.1	12646.0	12672.0	12702.7	12851.8	12622.3	11827.3	10417.2
20°	10987.4	11190.9	11858.1	12428.3	12231.9	11962.2	11978.8	12362.0	12790.3	12612.8	11446.4
22.5°	12151.5	12328.9	13012.7	12965.4	12056.8	11500.8	11384.9	11919.6	13038.7	13592.3	12541.9
25°	13407.8	13616.0	14401.5	13762.7	12106.5	11226.4	11153.1	11659.4	13296.6	14508.0	13807.6
27.5°	14846.3	15049.8	15669.6	14567.1	12366.8	11205.1	11117.6	11635.7	13528.5	15355.0	15016.6
30°	15915.7	16102.6	16523.7	15243.8	12686.2	11347.1	11238.2	11822.6	13727.2	15934.6	16194.9
32.5°	16755.6	16949.6	17179.1	15664.9	13107.3	11604.9	11403.8	12163.3	13987.5	16377.1	17067.9
35°	17631.0	17860.5	17843.9	16038.7	13500.1	11903.1	11706.7	12655.4	14396.8	16762.7	18175.2
37.5°	18740.6	18832.9	18714.6	16374.7	13970.9	12440.1	12331.3	13386.5	14978.8	17228.8	19469.3
40°	19866.8	20051.4	19443.3	16781.6	14543.4	13450.4	13438.6	14467.7	15669.6	17775.3	20723.3
42.5°	20832.1	20988.3	20124.7	17136.5	15236.7	14683.0	14772.9	15918.1	16575.8	18409.4	21731.2
45°	21558.5	21698.1	20754.0	17479.6	16149.9	16107.3	16637.3	17472.5	17718.5	18979.6	22322.7
47.5°	22176.0	22310.8	21191.7	18000.1	17278.5	17808.4	18731.2	19093.2	18695.7	19306.1	22985.1
50°	22696.5	22736.7	21492.2	18620.0	18679.1	19892.8	20787.2	21021.4	19661.0	19774.5	23560.1
52.5°	23238.3	23186.2	22010.4	19400.7	20193.3	21870.8	22521.4	22765.1	20586.1	20351.8	24397.6
55°	24452.0	24501.7	23172.0	20385.0	21724.1	23813.2	24669.7	24435.5	21610.5	21414.1	25462.3
57.5°	25918.9	25876.3	24806.9	21925.2	23283.2	25620.8	26259.6	25883.4	22978.0	22873.9	26541.1
60°	26489.1	26545.9	26174.4	23581.3	24821.1	27203.6	27856.6	27272.2	24617.6	24570.3	27355.0
62.5°	25916.5	26235.9	26486.7	25055.3	26131.8	28367.6	29015.9	28348.7	26328.2	26671.3	27925.2
65°	24776.1	24844.8	25698.9	26304.5	26763.5	28559.3	28897.6	28542.7	27757.2	28585.3	27899.2
67.5°	23295.1	23354.2	24355.0	26713.9	25949.7	26382.6	26619.2	26515.1	27314.8	29240.7	26614.5
70°	21885.0	21837.6	22895.2	25670.5	22590.0	21932.3	22128.7	21802.2	23569.5	27638.9	24094.8
72.5°	19140.5	19310.8	20446.5	22769.8	17886.5	16817.1	17245.4	16400.7	18127.9	23671.3	19556.9
75°	14993.0	15033.2	16928.3	19109.7	13493.0	11806.1	12385.7	12033.2	13885.7	19746.2	13504.8
77.5°	10381.8	10291.8	12328.9	14595.5	9622.3	8642.8	8652.3	8484.3	9695.6	14538.7	9175.1
80°	6593.9	6456.7	7717.7	9016.6	6612.8	7074.2	6842.3	6835.2	6312.3	8969.3	5548.1
82.5°	3563.1	3714.5	4876.2	5652.2	4743.7	5467.7	5011.1	4864.4	4332.0	5614.4	3548.9
85°	1623.0	1765.0	2600.2	3844.7	3603.3	3643.6	2434.6	2872.3	3584.4	4559.2	1895.1
87.5°	158.5	203.5	537.1	1814.7	1230.3	970.0	362.0	698.0	901.4	1620.7	151.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9
2.5°	12250.8	12127.8	11709.0	11363.6	10996.9	10717.7	10353.4	10109.7	9941.7	9688.5	9657.8
5°	11687.8	11387.3	10658.6	9915.7	9274.5	8791.8	8302.1	7852.6	7587.6	7504.8	7398.3
7.5°	10739.0	10232.7	9295.8	8444.0	7708.2	6989.0	6435.4	6042.6	5780.0	5626.2	5441.7
10°	9958.3	9371.5	8231.1	7187.7	6582.1	6134.9	5647.5	5226.4	4902.2	4625.4	4474.0
12.5°	9433.0	8770.5	7488.2	6641.2	6172.7	5697.2	5127.0	4653.8	4175.9	3861.2	3726.4
15°	9274.5	8574.2	7258.7	6369.1	5697.2	5074.9	4436.1	3818.6	3345.4	3047.3	2948.0
17.5°	9662.5	8815.5	7256.3	6007.1	5138.8	4395.9	3577.3	2997.6	2512.6	2290.2	2219.3
20°	10386.5	9279.2	7277.6	5649.9	4533.1	3487.4	2602.5	2127.0	1895.1	1800.5	1765.0
22.5°	11396.7	9986.6	7341.5	5297.3	3870.7	2678.2	1949.5	1708.2	1625.4	1608.8	1601.7
25°	12641.2	10862.0	7556.8	4980.3	3312.3	2044.2	1630.1	1521.3	1474.0	1457.4	1455.1
27.5°	13786.3	11993.0	7817.1	4708.2	2772.9	1762.6	1474.0	1381.7	1334.4	1332.0	1336.8
30°	14820.3	12939.3	8034.7	4403.0	2363.6	1566.3	1372.2	1280.0	1235.0	1232.7	1246.9
32.5°	15714.6	13717.7	8195.6	4102.5	2136.4	1445.6	1280.0	1180.6	1142.8	1135.7	1142.8
35°	16670.4	14493.8	8122.3	3868.3	2006.3	1346.2	1211.4	1114.4	1069.4	1048.1	1048.1
37.5°	17761.1	15293.5	7996.9	3674.3	1947.2	1263.4	1152.2	1057.6	1012.6	991.3	989.0
40°	18951.2	16093.1	7824.2	3501.6	1888.0	1213.7	1112.0	1012.6	958.2	936.9	932.2
42.5°	20001.7	16776.9	7682.2	3388.0	1791.0	1223.2	1076.5	979.5	910.9	882.5	880.1
45°	20914.9	17465.4	7656.2	3321.8	1710.6	1209.0	1067.0	953.5	873.0	842.3	837.5
47.5°	21629.4	18182.3	7805.2	3283.9	1623.0	1133.3	1128.6	936.9	839.9	806.8	802.1
50°	22500.1	19199.6	8145.9	3205.9	1542.6	1062.3	1192.4	934.5	813.9	771.3	759.5
52.5°	23659.4	20524.5	8607.3	3066.3	1426.7	996.1	1138.0	934.5	783.1	740.5	726.3
55°	25412.6	22213.8	9059.2	2869.9	1263.4	908.5	1026.8	906.2	738.2	700.3	690.9
57.5°	26574.3	23448.9	9347.8	2597.8	1059.9	844.6	884.9	861.2	693.2	653.0	653.0
60°	26633.4	23780.1	9210.6	2254.7	932.2	785.5	768.9	868.3	653.0	610.4	605.7
62.5°	25952.0	22968.6	8496.1	1947.2	863.6	721.6	695.6	761.8	612.8	570.2	563.1
65°	24887.3	20898.4	7256.3	1800.5	825.7	664.8	627.0	624.6	570.2	530.0	520.5
67.5°	22930.7	18262.7	5962.2	1715.3	806.8	600.9	565.5	553.6	520.5	487.4	482.7
70°	20046.6	15295.8	4781.6	1679.8	797.3	534.7	506.3	492.1	463.7	437.7	435.3
72.5°	15596.3	12407.0	3946.4	1656.2	792.6	473.2	442.4	423.5	406.9	383.3	383.3
75°	11202.7	9127.8	3011.8	1492.9	733.4	406.9	373.8	362.0	338.3	319.4	324.1
77.5°	7062.3	6146.7	1982.7	1097.8	567.8	326.5	298.1	291.0	272.1	246.1	262.6
80°	4769.7	4322.6	1156.9	690.9	357.3	239.0	229.5	227.1	205.8	177.4	179.8
82.5°	3246.1	3184.6	600.9	392.7	205.8	139.6	134.9	139.6	115.9	94.6	94.6
85°	1268.1	1731.9	283.9	153.8	66.2	21.3	30.8	33.1	18.9	9.5	11.8
87.5°	23.7	177.4	7.1	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°	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9
2.5°	9610.5	9589.2	9624.7	9473.2	9504.0	9560.8	9589.2	9605.7	9840.0	9785.5	9934.6
5°	7497.7	7476.4	7613.6	7632.5	7703.5	7689.3	7757.9	7774.5	7859.7	7890.4	8098.6
7.5°	5453.5	5545.8	5701.9	5782.4	5903.0	5940.9	5905.4	5992.9	5815.5	5943.2	5981.1
10°	4381.7	4270.5	4204.3	4388.8	4412.5	4587.6	4516.6	4459.8	4563.9	4568.6	4668.0
12.5°	3648.3	3409.3	3250.8	3302.9	3359.6	3435.3	3447.2	3560.7	3636.5	3707.4	3766.6
15°	2860.4	2777.6	2633.3	2562.3	2642.8	2673.5	2746.9	2841.5	2921.9	2943.2	3023.7
17.5°	2195.6	2209.8	2186.1	2143.5	2193.2	2216.9	2221.6	2224.0	2245.3	2231.1	2349.4
20°	1767.4	1817.0	1876.2	1885.7	1902.2	1914.0	1892.8	1812.3	1814.7	1864.4	1902.2
22.5°	1599.4	1608.8	1675.1	1696.4	1748.4	1727.1	1665.6	1627.8	1623.0	1634.9	1653.8
25°	1466.9	1481.1	1528.4	1561.5	1601.7	1563.9	1518.9	1483.4	1478.7	1490.5	1509.5
27.5°	1348.6	1369.9	1412.5	1445.6	1483.4	1448.0	1405.4	1374.6	1372.2	1369.9	1381.7
30°	1253.9	1277.6	1308.4	1346.2	1372.2	1341.5	1301.3	1284.7	1282.3	1277.6	1282.3
32.5°	1159.3	1197.2	1227.9	1246.9	1272.9	1249.2	1218.5	1209.0	1192.4	1178.2	1171.1
35°	1052.8	1093.1	1140.4	1164.0	1190.1	1166.4	1145.1	1104.9	1076.5	1074.1	1078.9
37.5°	991.3	1007.9	1045.7	1086.0	1112.0	1100.2	1059.9	1019.7	1012.6	1012.6	1017.4
40°	936.9	944.0	960.6	1012.6	1059.9	1024.5	974.8	962.9	962.9	960.6	962.9
42.5°	882.5	889.6	889.6	929.8	1005.5	948.7	910.9	910.9	910.9	913.3	920.4
45°	832.8	835.2	832.8	861.2	932.2	884.9	858.8	865.9	870.7	875.4	880.1
47.5°	790.2	792.6	790.2	813.9	849.4	830.4	816.3	825.7	835.2	842.3	847.0
50°	752.4	750.0	754.7	768.9	785.5	790.2	780.8	795.0	799.7	809.2	821.0
52.5°	719.2	716.9	721.6	728.7	752.4	752.4	752.4	764.2	773.7	783.1	799.7
55°	681.4	683.8	690.9	700.3	731.1	726.3	728.7	738.2	747.6	761.8	771.3
57.5°	645.9	650.6	660.1	674.3	705.1	702.7	705.1	709.8	721.6	728.7	738.2
60°	605.7	615.1	627.0	636.4	667.2	664.8	676.7	686.1	693.2	693.2	698.0
62.5°	565.5	579.7	591.5	598.6	631.7	634.1	650.6	657.7	662.5	657.7	664.8
65°	525.2	546.5	551.3	560.7	593.9	596.2	615.1	631.7	627.0	622.2	634.1
67.5°	485.0	511.0	508.7	520.5	553.6	558.4	574.9	603.3	593.9	589.1	598.6
70°	440.1	459.0	461.4	468.5	513.4	506.3	532.3	558.4	551.3	553.6	553.6
72.5°	390.4	406.9	406.9	421.1	468.5	456.6	477.9	506.3	506.3	503.9	503.9
75°	331.2	340.7	350.2	371.5	421.1	406.9	421.1	447.2	451.9	447.2	447.2
77.5°	267.4	281.5	286.3	314.7	350.2	347.8	362.0	373.8	383.3	378.6	378.6
80°	189.3	203.5	222.4	253.2	274.4	281.5	288.6	298.1	302.8	302.8	307.6
82.5°	106.5	127.8	144.3	175.1	184.5	220.0	217.7	224.8	217.7	191.6	212.9
85°	23.7	45.0	63.9	80.4	92.3	127.8	134.9	151.4	125.4	115.9	115.9
87.5°	0.0	0.0	0.0	0.0	0.0	18.9	37.9	52.1	45.0	37.9	37.9
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°	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9	11526.9
2.5°	10060.0	10265.8	10514.2	10942.5	11243.0	11567.1	11893.6	12241.4	12333.7	12428.3
5°	8155.4	8560.0	8780.0	9354.9	9958.3	10724.8	11351.8	12037.9	12324.2	12390.4
7.5°	6177.5	6451.9	7029.2	7611.2	8358.9	9163.3	10123.9	11193.3	11526.9	11666.5
10°	4897.5	5271.3	5777.6	6402.2	7057.6	7923.5	9007.1	10256.4	10729.5	10807.6
12.5°	4168.8	4585.2	5136.5	5796.6	6416.4	7069.4	8162.5	9451.9	9958.3	10126.2
15°	3333.6	3837.6	4474.0	5169.6	5843.9	6558.4	7665.7	9120.7	9705.1	9901.5
17.5°	2619.1	3026.0	3714.5	4469.3	5269.0	6172.7	7561.6	9279.2	9998.5	10180.6
20°	2004.0	2295.0	2874.6	3671.9	4608.9	5791.8	7587.6	9877.8	10739.0	10987.4
22.5°	1731.9	1880.9	2233.4	2992.9	4041.0	5460.6	7694.0	10698.8	11737.4	12151.5
25°	1568.6	1646.7	1845.4	2342.3	3499.2	5138.8	7937.7	11803.7	13133.3	13407.8
27.5°	1429.0	1485.8	1608.8	1966.1	3007.1	4840.7	8221.6	13029.2	14437.0	14846.3
30°	1296.5	1372.2	1488.2	1746.1	2692.4	4568.6	8578.9	14022.9	15534.8	15915.7
32.5°	1194.8	1270.5	1377.0	1592.3	2425.1	4282.4	8791.8	14896.0	16431.5	16755.6
35°	1112.0	1175.9	1287.1	1469.3	2221.6	4064.7	8749.3	15589.2	17299.8	17631.0
37.5°	1052.8	1107.3	1218.5	1353.3	2067.8	3837.6	8728.0	16504.8	18357.3	18740.6
40°	998.4	1055.2	1156.9	1277.6	1914.0	3570.2	8739.8	17413.3	19483.5	19866.8
42.5°	955.8	1019.7	1102.5	1256.3	1755.5	3354.9	8739.8	18203.6	20463.0	20832.1
45°	920.4	989.0	1069.4	1253.9	1630.1	3191.7	8680.6	18882.6	21243.8	21558.5
47.5°	889.6	965.3	1081.2	1211.4	1599.4	3073.4	8628.6	19426.8	21880.2	22176.0
50°	868.3	958.2	1149.8	1161.7	1608.8	3037.9	8879.4	20112.9	22441.0	22696.5
52.5°	851.7	960.6	1147.5	1088.3	1592.3	3061.5	9402.3	21184.6	23219.4	23238.3
55°	818.6	958.2	1088.3	1005.5	1523.7	3101.8	10074.2	22741.4	24437.8	24452.0
57.5°	785.5	932.2	1010.3	934.5	1384.1	3101.8	10883.3	24215.4	25907.1	25918.9
60°	752.4	970.0	887.2	873.0	1201.9	3045.0	11737.4	24863.7	26368.4	26489.1
62.5°	719.2	977.1	792.6	818.6	1069.4	2907.7	12373.9	24146.8	25743.8	25916.5
65°	681.4	787.9	731.1	761.8	1000.8	2678.2	12172.8	22833.7	24570.3	24776.1
67.5°	636.4	667.2	664.8	702.7	977.1	2339.9	11112.8	21172.8	23306.9	23295.1
70°	582.0	598.6	605.7	645.9	932.2	2077.3	9260.3	19017.4	21620.0	21885.0
72.5°	525.2	539.4	546.5	582.0	887.2	1928.2	7187.7	16048.2	18726.4	19140.5
75°	463.7	473.2	482.7	513.4	839.9	1708.2	5119.9	12250.8	14342.3	14993.0
77.5°	399.8	399.8	411.7	442.4	707.4	1410.1	3435.3	8593.1	9716.9	10381.8
80°	324.1	326.5	321.8	354.9	520.5	965.3	1951.9	5739.8	6466.1	6593.9
82.5°	248.4	241.3	243.7	260.3	388.0	657.7	1041.0	3565.5	3634.1	3563.1
85°	156.2	156.2	151.4	170.3	248.4	343.1	567.8	2183.8	1705.8	1623.0
87.5°	63.9	52.1	59.1	68.6	118.3	139.6	222.4	449.5	172.7	158.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)