

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: P458033

Luminaire Tested: **GALN-SA9B-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458033
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-SA9B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 35334 lumens
Efficiency: N/A
Efficacy: 97.1 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): 364
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



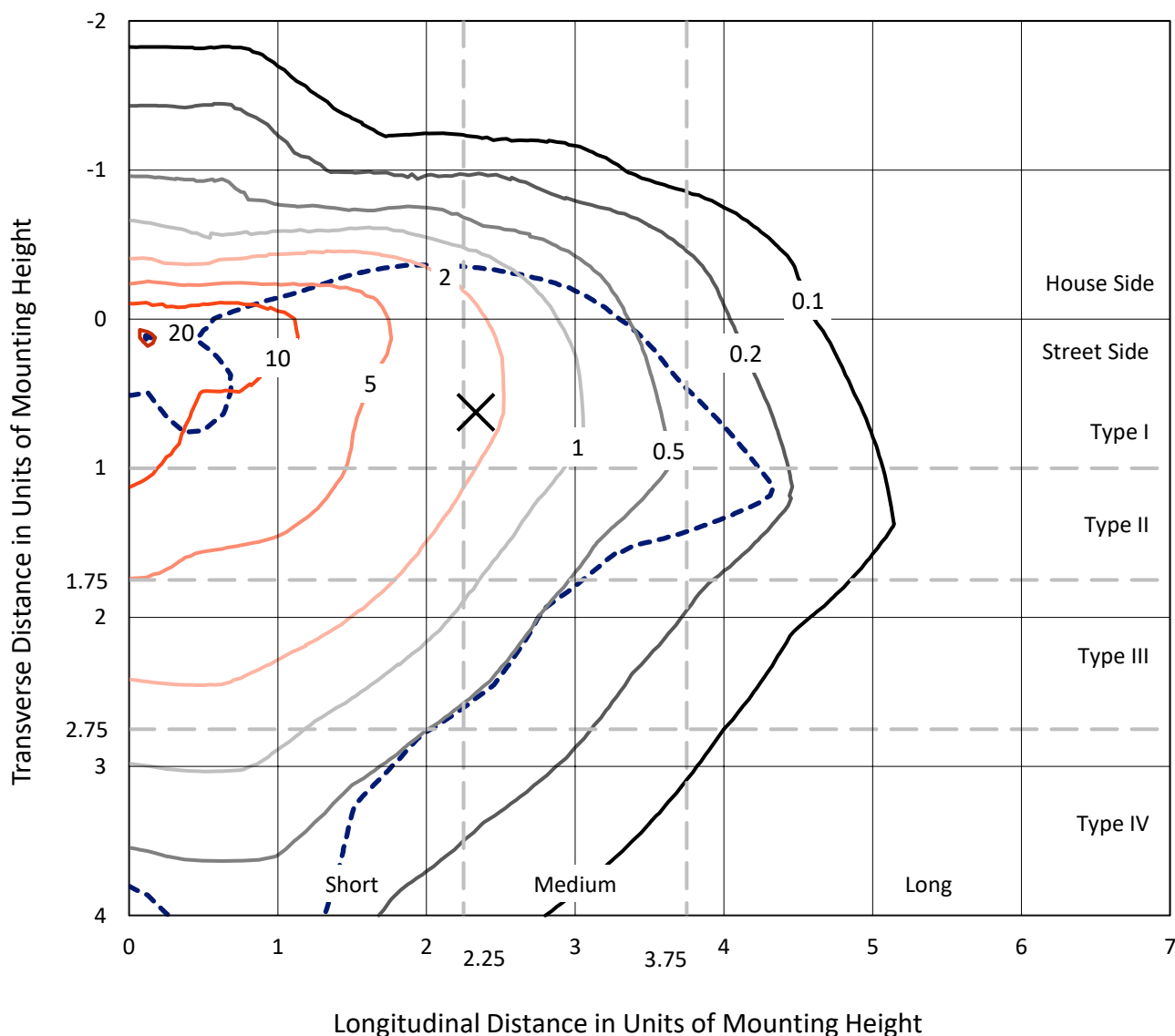
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

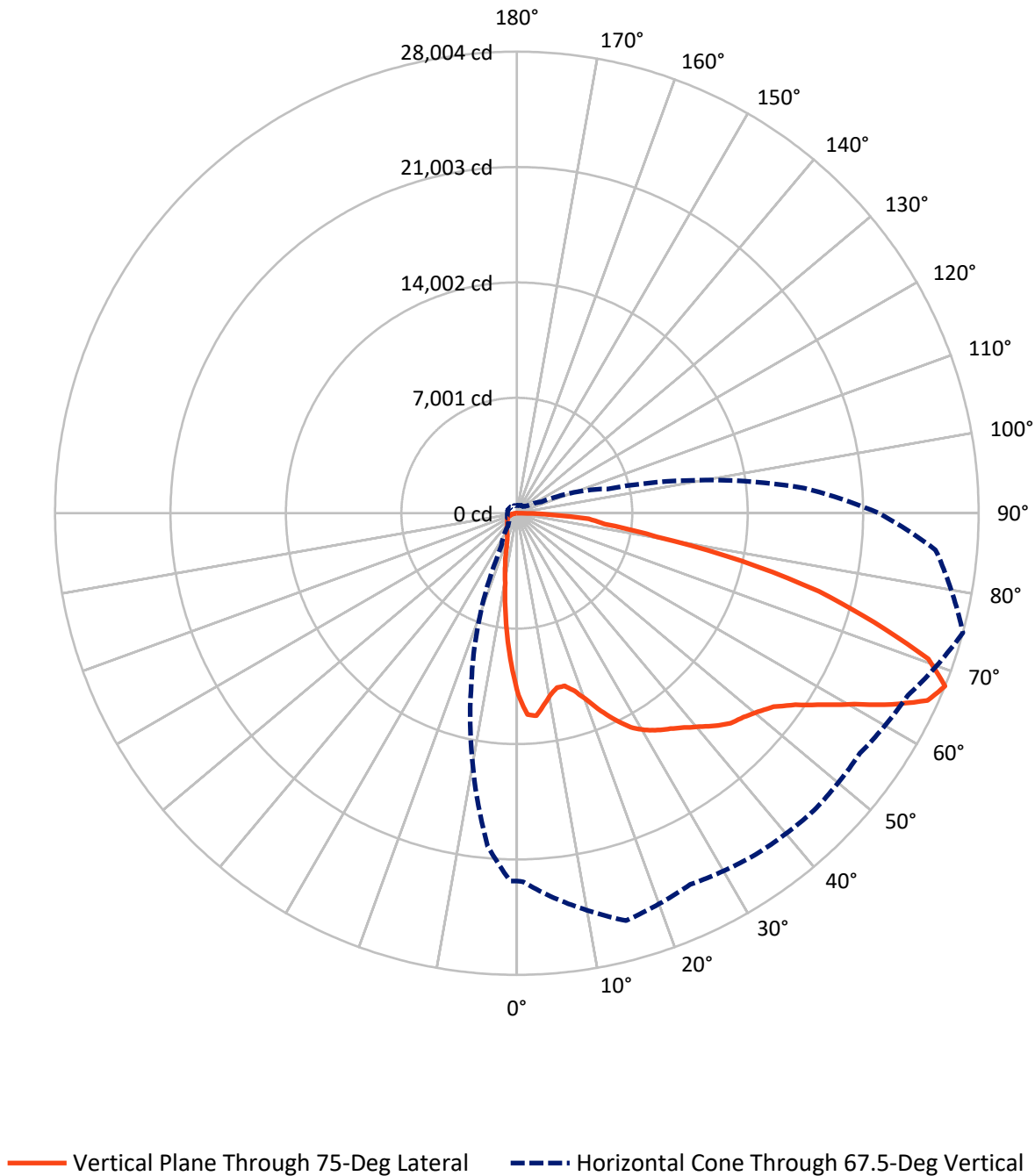
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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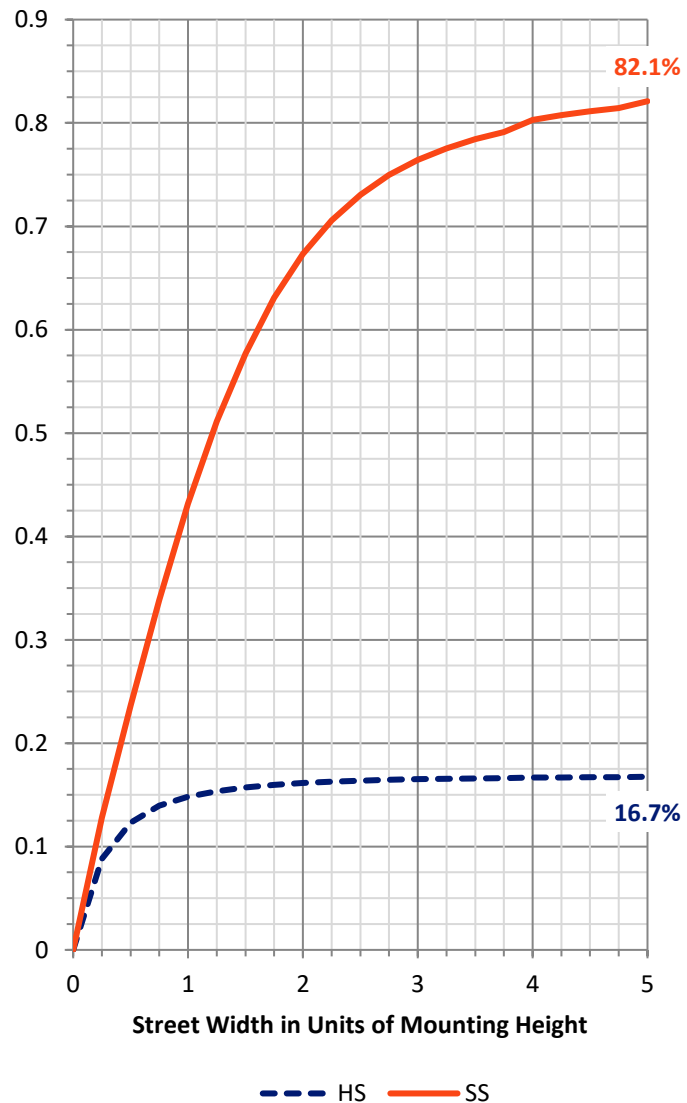
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5972.2	0.0	5972.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	29361.8	0.0	29361.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	35334.0	0.0	35334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.3	2.4
10°-20°	1746.2	4.9
20°-30°	2512.8	7.1
30°-40°	3619.1	10.2
40°-50°	5083.9	14.4
50°-60°	7090.3	20.1
60°-70°	8429.9	23.9
70°-80°	4964.7	14.1
80°-90°	1049.8	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°	35334.0	100.0
0°-180°	35334.0	100.0

Coefficient of Utilization



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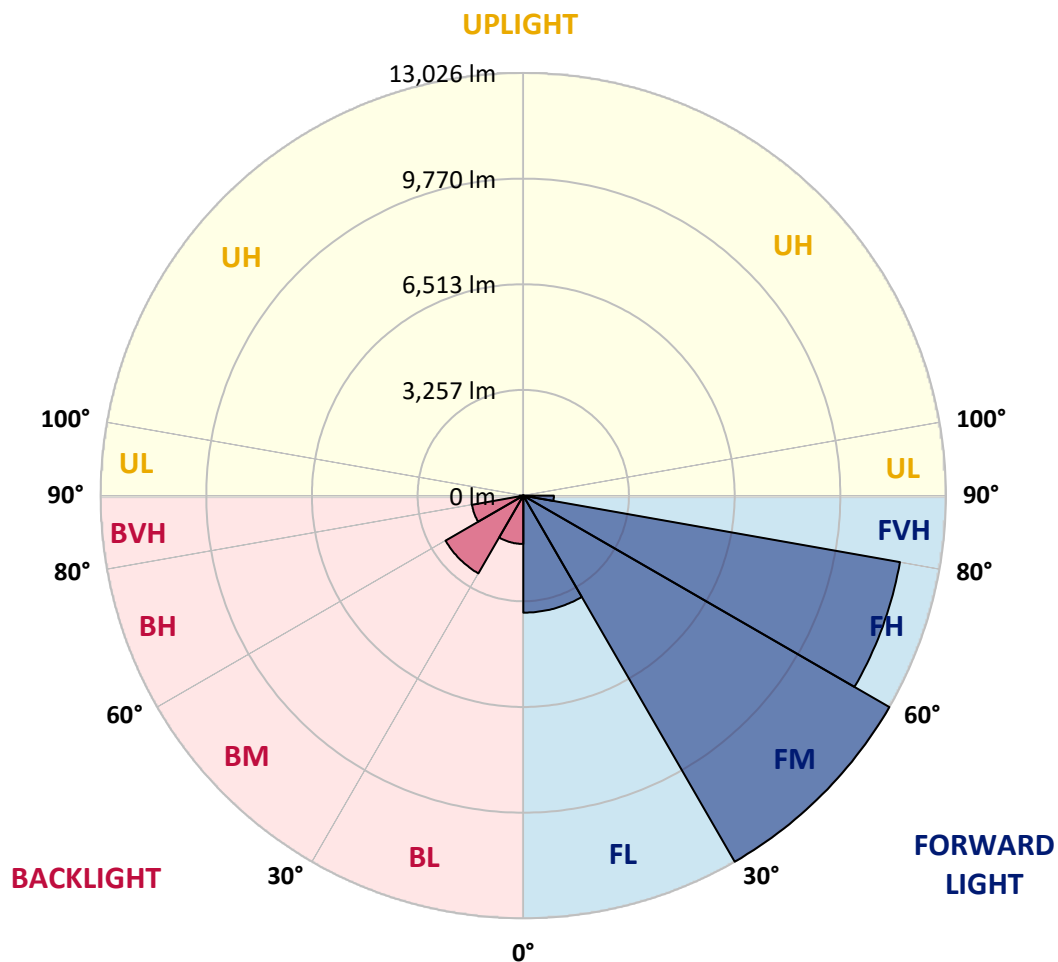
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3606.6	10.2			
FM	(30°-60°)	13026.3	36.9			
FH	(60°-80°)	11787.6	33.4			G4/12000
FVH	(80°-90°)	941.3	2.7			G5
BL	(0°-30°)	1489.7	4.2	B3/2500		
BM	(30°-60°)	2766.9	7.8	B3/5000		
BH	(60°-80°)	1607.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	108.6	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°	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2
2.5°	11902.5	11918.3	12020.3	12317.1	12521.0	12595.8	12647.9	12550.5	12455.3	12224.2	11875.3
5°	11866.2	11959.1	12224.2	12890.4	13416.0	13642.6	13710.6	13418.3	12935.7	12342.0	11628.3
7.5°	11172.9	11297.5	11705.3	12822.4	13749.1	14279.3	14209.1	13681.1	12811.1	11752.9	10755.9
10°	10350.4	10488.6	10980.3	12330.7	13524.8	14254.4	14254.4	13610.9	12455.3	11197.8	10049.0
12.5°	9697.8	9842.8	10404.7	11825.4	13058.0	13749.1	13864.7	13311.8	12199.3	10846.6	9584.5
15°	9482.5	9623.0	10228.0	11519.5	12564.1	12985.5	13024.1	12842.8	12074.7	10871.5	9564.1
17.5°	9749.9	9931.2	10543.0	11610.2	12110.9	12135.8	12165.3	12308.0	12088.3	11326.9	9976.5
20°	10522.6	10717.4	11356.4	11902.5	11714.4	11456.1	11472.0	11839.0	12249.1	12079.2	10962.1
22.5°	11637.4	11807.3	12462.1	12416.8	11546.7	11014.3	10903.2	11415.3	12487.1	13017.3	12011.2
25°	12840.5	13039.9	13792.2	13180.4	11594.3	10751.4	10681.2	11166.1	12734.0	13894.1	13223.4
27.5°	14218.2	14413.0	15006.7	13950.8	11843.6	10731.0	10647.2	11143.4	12956.1	14705.3	14381.3
30°	15242.3	15421.3	15824.6	14598.8	12149.4	10867.0	10762.7	11322.4	13146.4	15260.4	15509.7
32.5°	16046.7	16232.5	16452.3	15002.1	12552.8	11114.0	10921.4	11648.7	13395.7	15684.2	16345.8
35°	16885.0	17104.8	17089.0	15360.1	12928.9	11399.4	11211.4	12120.0	13787.6	16053.5	17406.2
37.5°	17947.7	18036.1	17922.8	15681.9	13379.8	11913.8	11809.6	12820.1	14345.0	16499.9	18645.6
40°	19026.3	19203.0	18620.7	16071.6	13928.1	12881.3	12870.0	13855.6	15006.7	17023.3	19846.5
42.5°	19950.7	20100.3	19273.2	16411.5	14592.0	14061.8	14147.9	15244.6	15874.5	17630.5	20811.8
45°	20646.3	20780.0	19876.0	16740.0	15466.6	15425.8	15933.4	16733.2	16968.9	18176.6	21378.2
47.5°	21237.7	21366.9	20295.1	17238.5	16547.4	17055.0	17938.7	18285.3	17904.7	18489.3	22012.6
50°	21736.2	21774.7	20582.9	17832.2	17888.8	19051.2	19907.7	20132.0	18829.1	18937.9	22563.2
52.5°	22255.1	22205.2	21079.1	18579.9	19339.0	20945.4	21568.5	21801.9	19715.1	19490.8	23365.4
55°	23417.5	23465.1	22191.6	19522.5	20805.0	22805.7	23625.9	23401.6	20696.2	20508.1	24385.0
57.5°	24822.3	24781.5	23757.3	20997.5	22298.1	24536.8	25148.6	24788.3	22005.8	21906.2	25418.2
60°	25368.4	25422.7	25067.0	22583.6	23770.9	26052.6	26678.0	26118.4	23576.1	23530.8	26197.7
62.5°	24820.0	25125.9	25366.1	23995.3	25026.2	27167.4	27788.3	27149.3	25214.3	25542.8	26743.7
65°	23727.9	23793.6	24611.6	25191.6	25631.2	27351.0	27675.0	27335.1	26582.8	27375.9	26718.8
67.5°	22309.5	22366.1	23324.6	25583.6	24851.7	25266.4	25493.0	25393.3	26159.1	28003.5	25488.4
70°	20959.0	20913.7	21926.5	24584.4	21634.3	21004.3	21192.4	20879.7	22572.3	26469.6	23075.3
72.5°	18330.7	18493.8	19581.4	21806.5	17129.8	16105.6	16515.7	15706.8	17360.9	22669.7	18729.4
75°	14358.6	14397.2	16212.1	18301.2	12922.1	11306.5	11861.7	11524.1	13298.2	18910.7	12933.4
77.5°	9942.5	9856.4	11807.3	13978.0	9215.2	8277.1	8286.2	8125.3	9285.4	13923.6	8786.9
80°	6314.9	6183.5	7391.2	8635.1	6333.0	6774.9	6552.8	6546.0	6045.3	8589.8	5313.4
82.5°	3412.4	3557.4	4669.9	5413.1	4543.0	5236.4	4799.1	4658.6	4148.8	5376.8	3398.8
85°	1554.4	1690.3	2490.2	3682.0	3450.9	3489.4	2331.6	2750.7	3432.7	4366.3	1814.9
87.5°	151.8	194.9	514.3	1737.9	1178.2	929.0	346.7	668.4	863.3	1552.1	145.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2
2.5°	11732.5	11614.7	11213.6	10882.8	10531.6	10264.3	9915.3	9681.9	9521.1	9278.6	9249.2
5°	11193.3	10905.5	10207.6	9496.1	8882.1	8419.9	7950.8	7520.3	7266.6	7187.2	7085.3
7.5°	10284.7	9799.8	8902.5	8086.8	7382.1	6693.3	6163.1	5787.0	5535.4	5388.2	5211.4
10°	9536.9	8975.0	7882.9	6883.6	6303.6	5875.3	5408.6	5005.2	4694.8	4429.7	4284.7
12.5°	9033.9	8399.5	7171.4	6360.2	5911.6	5456.1	4910.1	4456.9	3999.2	3697.9	3568.7
15°	8882.1	8211.4	6951.6	6099.6	5456.1	4860.2	4248.5	3657.1	3203.9	2918.4	2823.2
17.5°	9253.7	8442.5	6949.3	5753.0	4921.4	4209.9	3426.0	2870.8	2406.3	2193.3	2125.4
20°	9947.0	8886.6	6969.7	5410.8	4341.4	3339.8	2492.4	2037.0	1814.9	1724.3	1690.3
22.5°	10914.6	9564.1	7030.9	5073.2	3706.9	2564.9	1867.1	1635.9	1556.6	1540.8	1534.0
25°	12106.4	10402.5	7237.1	4769.6	3172.2	1957.7	1561.2	1456.9	1411.6	1395.8	1393.5
27.5°	13203.1	11485.5	7486.3	4509.0	2655.6	1688.1	1411.6	1323.3	1277.9	1275.7	1280.2
30°	14193.2	12391.9	7694.8	4216.7	2263.6	1500.0	1314.2	1225.8	1182.8	1180.5	1194.1
32.5°	15049.7	13137.3	7848.9	3929.0	2046.1	1384.4	1225.8	1130.7	1094.4	1087.6	1094.4
35°	15965.1	13880.5	7778.6	3704.7	1921.4	1289.3	1160.1	1067.2	1024.2	1003.8	1003.8
37.5°	17009.7	14646.4	7658.5	3518.9	1864.8	1210.0	1103.5	1012.8	969.8	949.4	947.1
40°	18149.4	15412.3	7493.1	3353.4	1808.1	1162.4	1064.9	969.8	917.7	897.3	892.7
42.5°	19155.4	16067.1	7357.2	3244.7	1715.2	1171.4	1031.0	938.1	872.3	845.2	842.9
45°	20030.0	16726.4	7332.3	3181.2	1638.2	1157.8	1021.9	913.1	836.1	806.6	802.1
47.5°	20714.3	17413.0	7475.0	3145.0	1554.4	1085.3	1080.8	897.3	804.4	772.7	768.1
50°	21548.1	18387.3	7801.3	3070.2	1477.3	1017.4	1142.0	895.0	779.4	738.7	727.3
52.5°	22658.4	19656.2	8243.1	2936.5	1366.3	953.9	1089.9	895.0	750.0	709.2	695.6
55°	24337.4	21274.0	8675.9	2748.5	1210.0	870.1	983.4	867.8	706.9	670.7	661.6
57.5°	25449.9	22456.8	8952.3	2487.9	1015.1	808.9	847.4	824.8	663.9	625.4	625.4
60°	25506.6	22774.0	8820.9	2159.3	892.7	752.3	736.4	831.6	625.4	584.6	580.1
62.5°	24854.0	21996.8	8136.6	1864.8	827.0	691.1	666.2	729.6	586.9	546.1	539.3
65°	23834.4	20014.2	6949.3	1724.3	790.8	636.7	600.4	598.2	546.1	507.5	498.5
67.5°	21960.5	17490.0	5709.9	1642.7	772.7	575.5	541.5	530.2	498.5	466.8	462.2
70°	19198.5	14648.7	4579.3	1608.7	763.6	512.1	484.9	471.3	444.1	419.2	416.9
72.5°	14936.4	11882.1	3779.4	1586.1	759.1	453.2	423.7	405.6	389.7	367.1	367.1
75°	10728.8	8741.6	2884.4	1429.7	702.4	389.7	358.0	346.7	324.0	305.9	310.4
77.5°	6763.5	5886.7	1898.8	1051.4	543.8	312.7	285.5	278.7	260.6	235.6	251.5
80°	4567.9	4139.7	1108.0	661.6	342.1	228.8	219.8	217.5	197.1	169.9	172.2
82.5°	3108.7	3049.8	575.5	376.1	197.1	133.7	129.2	133.7	111.0	90.6	90.6
85°	1214.5	1658.6	271.9	147.3	63.4	20.4	29.5	31.7	18.1	9.1	11.3
87.5°	22.7	169.9	6.8	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°	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2
2.5°	9203.8	9183.5	9217.4	9072.4	9101.9	9156.3	9183.5	9199.3	9423.6	9371.5	9514.3
5°	7180.5	7160.1	7291.5	7309.6	7377.6	7364.0	7429.7	7445.6	7527.1	7556.6	7756.0
7.5°	5222.8	5311.1	5460.7	5537.7	5653.3	5689.5	5655.5	5739.4	5569.4	5691.8	5728.0
10°	4196.3	4089.8	4026.4	4203.1	4225.8	4393.5	4325.5	4271.1	4370.8	4375.3	4470.5
12.5°	3493.9	3265.1	3113.3	3163.1	3217.5	3290.0	3301.3	3410.1	3482.6	3550.6	3607.2
15°	2739.4	2660.1	2521.9	2453.9	2530.9	2560.4	2630.6	2721.3	2798.3	2818.7	2895.7
17.5°	2102.7	2116.3	2093.6	2052.9	2100.4	2123.1	2127.6	2129.9	2150.3	2136.7	2250.0
20°	1692.6	1740.2	1796.8	1805.9	1821.7	1833.1	1812.7	1735.6	1737.9	1785.5	1821.7
22.5°	1531.7	1540.8	1604.2	1624.6	1674.5	1654.1	1595.2	1558.9	1554.4	1565.7	1583.8
25°	1404.8	1418.4	1463.7	1495.5	1534.0	1497.7	1454.7	1420.7	1416.2	1427.5	1445.6
27.5°	1291.5	1311.9	1352.7	1384.4	1420.7	1386.7	1345.9	1316.5	1314.2	1311.9	1323.3
30°	1200.9	1223.6	1253.0	1289.3	1314.2	1284.7	1246.2	1230.4	1228.1	1223.6	1228.1
32.5°	1110.3	1146.5	1176.0	1194.1	1219.0	1196.4	1166.9	1157.8	1142.0	1128.4	1121.6
35°	1008.3	1046.8	1092.1	1114.8	1139.7	1117.1	1096.7	1058.1	1031.0	1028.7	1033.2
37.5°	949.4	965.2	1001.5	1040.0	1064.9	1053.6	1015.1	976.6	969.8	969.8	974.3
40°	897.3	904.1	919.9	969.8	1015.1	981.1	933.5	922.2	922.2	919.9	922.2
42.5°	845.2	852.0	852.0	890.5	963.0	908.6	872.3	872.3	872.3	874.6	881.4
45°	797.6	799.8	797.6	824.8	892.7	847.4	822.5	829.3	833.8	838.4	842.9
47.5°	756.8	759.1	756.8	779.4	813.4	795.3	781.7	790.8	799.8	806.6	811.2
50°	720.5	718.3	722.8	736.4	752.3	756.8	747.7	761.3	765.9	774.9	786.2
52.5°	688.8	686.5	691.1	697.9	720.5	720.5	720.5	731.9	740.9	750.0	765.9
55°	652.6	654.8	661.6	670.7	700.1	695.6	697.9	706.9	716.0	729.6	738.7
57.5°	618.6	623.1	632.2	645.8	675.2	673.0	675.2	679.8	691.1	697.9	706.9
60°	580.1	589.1	600.4	609.5	639.0	636.7	648.0	657.1	663.9	663.9	668.4
62.5°	541.5	555.1	566.5	573.3	605.0	607.2	623.1	629.9	634.4	629.9	636.7
65°	503.0	523.4	527.9	537.0	568.7	571.0	589.1	605.0	600.4	595.9	607.2
67.5°	464.5	489.4	487.2	498.5	530.2	534.7	550.6	577.8	568.7	564.2	573.3
70°	421.4	439.6	441.8	448.6	491.7	484.9	509.8	534.7	527.9	530.2	530.2
72.5°	373.9	389.7	389.7	403.3	448.6	437.3	457.7	484.9	484.9	482.6	482.6
75°	317.2	326.3	335.3	355.7	403.3	389.7	403.3	428.2	432.8	428.2	428.2
77.5°	256.0	269.6	274.2	301.4	335.3	333.1	346.7	358.0	367.1	362.5	362.5
80°	181.3	194.9	213.0	242.4	262.8	269.6	276.4	285.5	290.0	290.0	294.6
82.5°	102.0	122.4	138.2	167.7	176.7	210.7	208.5	215.3	208.5	183.5	203.9
85°	22.7	43.1	61.2	77.0	88.4	122.4	129.2	145.0	120.1	111.0	111.0
87.5°	0.0	0.0	0.0	0.0	0.0	18.1	36.3	49.8	43.1	36.3	36.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2	11039.2
2.5°	9634.4	9831.5	10069.4	10479.5	10767.3	11077.7	11390.4	11723.5	11811.8	11902.5
5°	7810.4	8197.8	8408.5	8959.1	9536.9	10271.1	10871.5	11528.6	11802.8	11866.2
7.5°	5916.1	6178.9	6731.8	7289.2	8005.2	8775.6	9695.5	10719.7	11039.2	11172.9
10°	4690.3	5048.3	5533.2	6131.4	6759.0	7588.3	8626.1	9822.4	10275.6	10350.4
12.5°	3992.4	4391.2	4919.1	5551.3	6145.0	6770.3	7817.2	9052.0	9536.9	9697.8
15°	3192.6	3675.2	4284.7	4950.9	5596.6	6280.9	7341.3	8734.8	9294.5	9482.5
17.5°	2508.3	2898.0	3557.4	4280.2	5046.0	5911.6	7241.6	8886.6	9575.4	9749.9
20°	1919.2	2197.9	2753.0	3516.6	4413.9	5546.8	7266.6	9459.9	10284.7	10522.6
22.5°	1658.6	1801.3	2139.0	2866.3	3870.1	5229.6	7368.5	10246.1	11240.8	11637.4
25°	1502.3	1577.0	1767.4	2243.2	3351.2	4921.4	7601.9	11304.3	12577.7	12840.5
27.5°	1368.6	1422.9	1540.8	1882.9	2879.9	4635.9	7873.8	12478.0	13826.2	14218.2
30°	1241.7	1314.2	1425.2	1672.2	2578.5	4375.3	8215.9	13429.6	14877.5	15242.3
32.5°	1144.2	1216.8	1318.7	1524.9	2322.5	4101.2	8419.9	14265.7	15736.3	16046.7
35°	1064.9	1126.1	1232.6	1407.1	2127.6	3892.7	8379.1	14929.6	16567.8	16885.0
37.5°	1008.3	1060.4	1166.9	1296.1	1980.3	3675.2	8358.7	15806.5	17580.7	17947.7
40°	956.2	1010.6	1108.0	1223.6	1833.1	3419.2	8370.0	16676.6	18659.2	19026.3
42.5°	915.4	976.6	1055.9	1203.2	1681.3	3213.0	8370.0	17433.4	19597.3	19950.7
45°	881.4	947.1	1024.2	1200.9	1561.2	3056.6	8313.4	18083.7	20345.0	20646.3
47.5°	852.0	924.5	1035.5	1160.1	1531.7	2943.3	8263.5	18604.8	20954.5	21237.7
50°	831.6	917.7	1101.2	1112.5	1540.8	2909.3	8503.7	19261.9	21491.5	21736.2
52.5°	815.7	919.9	1098.9	1042.3	1524.9	2932.0	9004.5	20288.3	22237.0	22255.1
55°	784.0	917.7	1042.3	963.0	1459.2	2970.5	9648.0	21779.3	23403.9	23417.5
57.5°	752.3	892.7	967.5	895.0	1325.5	2970.5	10422.9	23190.9	24811.0	24822.3
60°	720.5	929.0	849.7	836.1	1151.0	2916.1	11240.8	23811.7	25252.8	25368.4
62.5°	688.8	935.8	759.1	784.0	1024.2	2784.7	11850.3	23125.2	24654.6	24820.0
65°	652.6	754.5	700.1	729.6	958.5	2564.9	11657.8	21867.6	23530.8	23727.9
67.5°	609.5	639.0	636.7	673.0	935.8	2240.9	10642.7	20277.0	22320.8	22309.5
70°	557.4	573.3	580.1	618.6	892.7	1989.4	8868.5	18212.8	20705.3	20959.0
72.5°	503.0	516.6	523.4	557.4	849.7	1846.7	6883.6	15369.2	17934.1	18330.7
75°	444.1	453.2	462.2	491.7	804.4	1635.9	4903.3	11732.5	13735.5	14358.6
77.5°	382.9	382.9	394.3	423.7	677.5	1350.4	3290.0	8229.5	9305.8	9942.5
80°	310.4	312.7	308.2	339.9	498.5	924.5	1869.3	5496.9	6192.5	6314.9
82.5°	237.9	231.1	233.4	249.2	371.6	629.9	997.0	3414.6	3480.3	3412.4
85°	149.5	149.5	145.0	163.1	237.9	328.5	543.8	2091.4	1633.7	1554.4
87.5°	61.2	49.8	56.6	65.7	113.3	133.7	213.0	430.5	165.4	151.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)