

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: P651845

Luminaire Tested: **GALN-SA4A-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11330.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

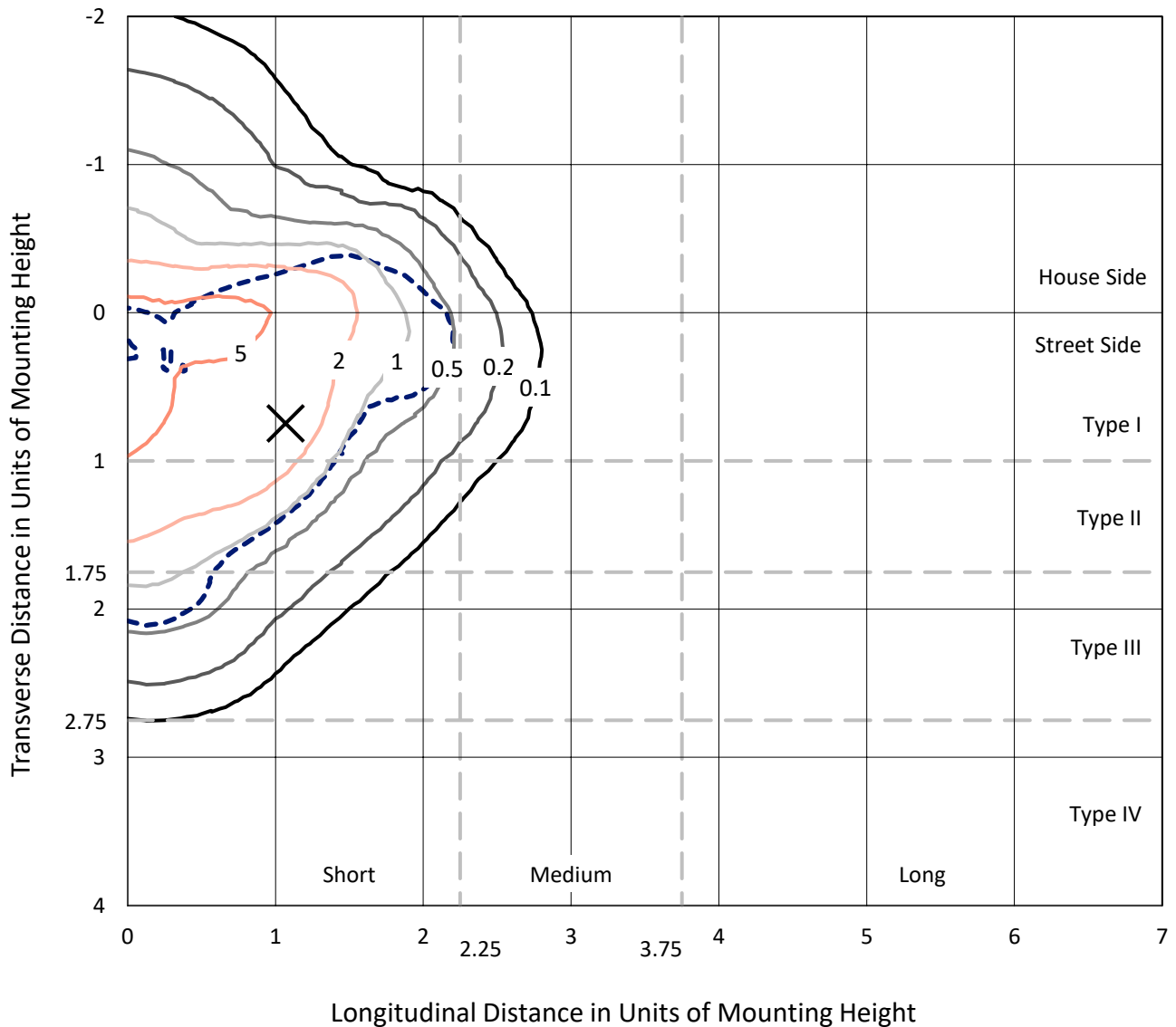
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

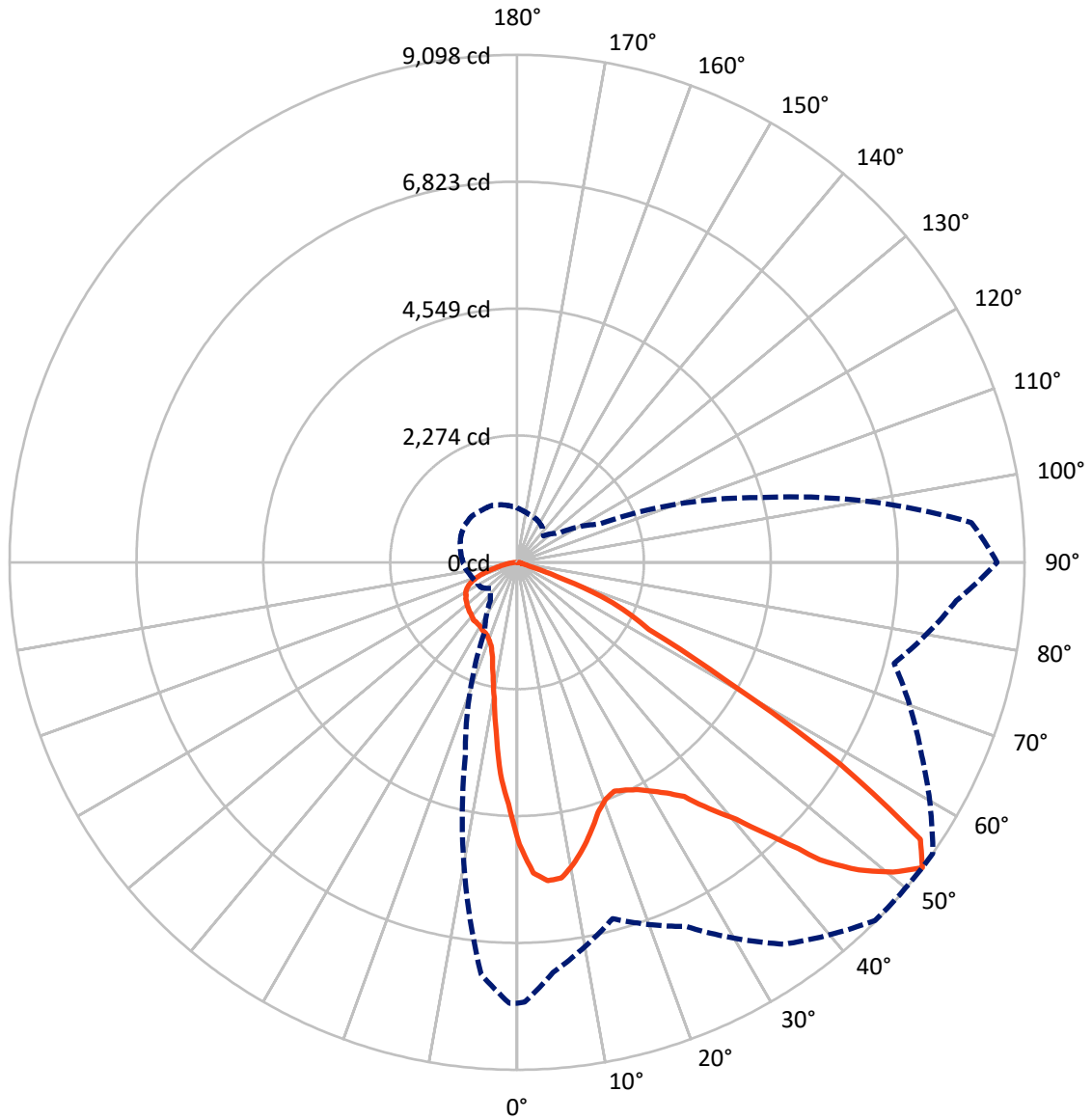
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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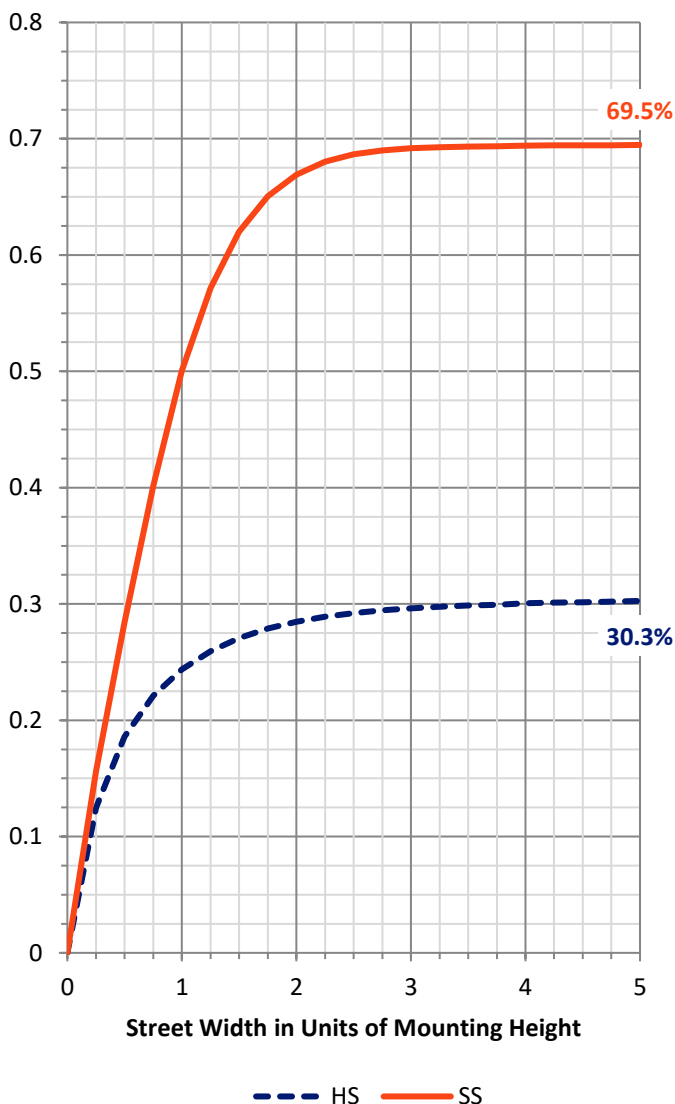
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3456.5	0.0	3456.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7874.3	0.0	7874.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	11330.8	0.0	11330.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	3.4
10°-20°	832.6	7.3
20°-30°	1262.5	11.1
30°-40°	1824.1	16.1
40°-50°	2437.5	21.5
50°-60°	2720.7	24.0
60°-70°	1492.5	13.2
70°-80°	322.7	2.8
80°-90°	52.2	0.5
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°	11330.8	100.0
0°-180°	11330.8	100.0

Coefficient of Utilization



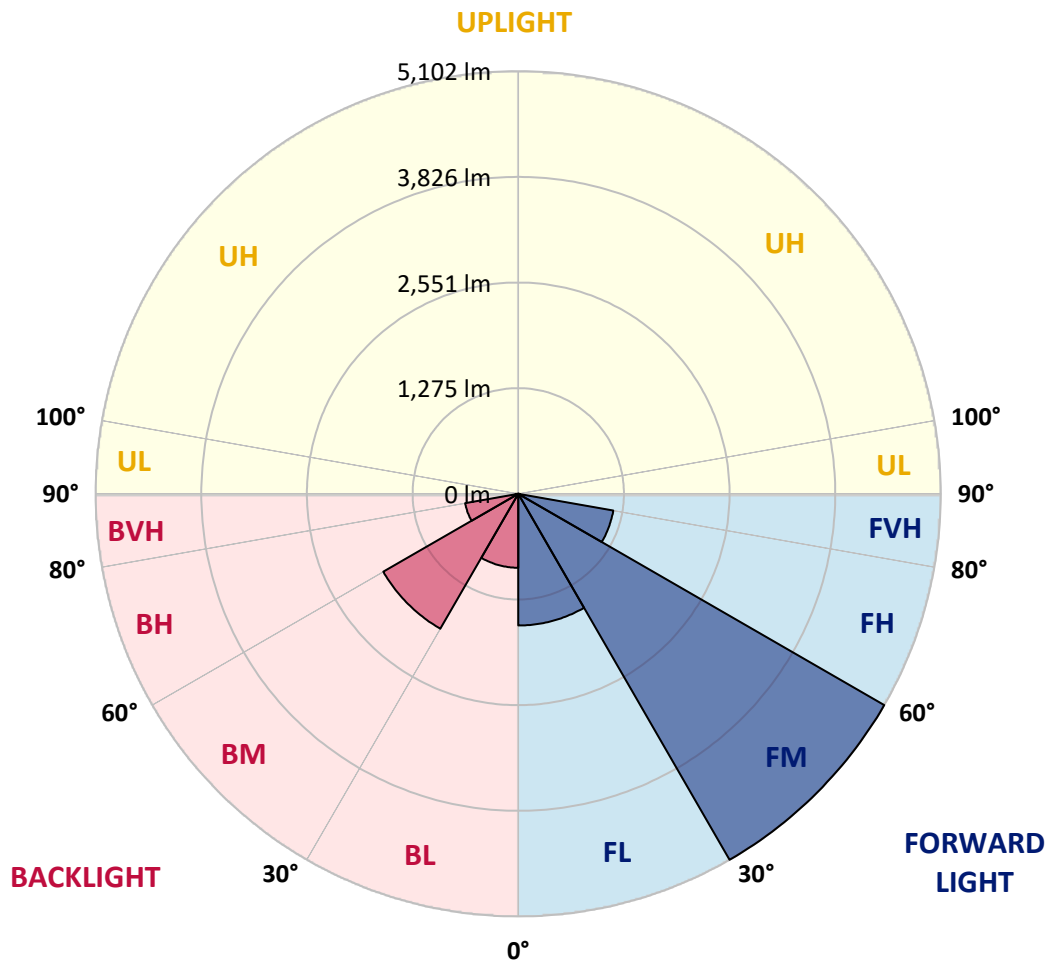
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.8	14.0			
FM (30°-60°)	5101.7	45.0			
FH (60°-80°)	1164.5	10.3			G1/1800
FVH (80°-90°)	19.3	0.2			G1/100
BL (0°-30°)	892.4	7.9	B2/1000		
BM (30°-60°)	1880.6	16.6	B2/2500		
BH (60°-80°)	650.6	5.7	B2/1000		G2/1000
BVH (80°-90°)	32.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4
2.5°	5304.3	5274.4	5300.9	5426.6	5499.5	5549.1	5580.5	5575.6	5456.4	5340.6	5340.6
5°	5148.7	5110.7	5165.3	5449.8	5736.0	5760.8	5802.2	5734.4	5559.0	5347.2	5082.5
7.5°	4698.7	4726.8	4817.8	5191.7	5564.0	5750.9	5800.5	5714.5	5430.0	5034.6	4645.8
10°	4309.9	4376.1	4586.2	4989.9	5332.4	5575.6	5630.2	5509.4	5284.4	4799.6	4452.2
12.5°	4175.9	4134.5	4367.8	4771.5	5099.1	5229.8	5254.6	5262.9	5110.7	4680.5	4257.0
15°	4159.3	4185.8	4367.8	4673.9	4875.7	4882.3	4923.7	4988.2	5008.1	4761.6	4348.0
17.5°	4397.6	4366.1	4553.1	4796.3	4700.3	4604.4	4614.3	4707.0	4870.7	4831.0	4634.2
20°	4750.0	4821.1	4968.4	4943.6	4685.5	4442.2	4443.9	4531.6	4854.3	5118.9	5032.9
22.5°	5335.6	5405.2	5514.4	5214.9	4685.5	4394.3	4338.0	4457.1	4960.1	5461.4	5482.9
25°	5870.1	5997.4	6027.3	5674.8	4920.4	4439.0	4402.6	4520.0	5066.0	5795.6	5999.1
27.5°	6356.4	6402.8	6533.5	5971.0	5051.1	4468.7	4465.5	4616.0	5200.0	5962.7	6460.7
30°	6740.3	6735.3	6809.8	6158.0	5259.5	4635.8	4475.4	4759.9	5375.3	6239.0	6887.5
32.5°	7001.7	7058.0	7215.2	6417.7	5347.2	4794.6	4668.9	4928.7	5588.8	6369.7	7188.7
35°	7461.7	7559.2	7360.8	6561.7	5625.2	4951.8	4804.5	5158.6	5694.7	6512.0	7557.6
37.5°	7895.1	7820.7	7618.9	6639.4	5805.5	5243.0	5105.7	5603.7	6023.9	6821.4	7802.5
40°	8173.1	8171.4	7812.4	6702.3	5932.9	5688.1	5679.8	6055.4	6427.6	7016.6	8077.1
42.5°	8293.9	8409.7	7891.9	6695.6	6200.9	6227.4	6394.5	6730.4	6713.9	7056.3	8070.5
44°	8459.3	8528.8	8029.1	6710.5	6379.7	6591.4	6985.2	7198.6	6963.6	7034.8	8062.2
45°	8452.7	8457.7	7833.9	6730.4	6531.9	6895.9	7248.2	7608.9	7183.7	6988.5	8171.4
47.5°	8259.1	8202.9	7668.5	6583.2	7006.7	7699.9	8025.8	8244.2	7455.0	6889.2	8035.8
50°	7877.0	7812.4	7266.4	6520.3	7105.9	8199.6	8649.6	8729.0	7701.5	6791.6	7901.8
52.5°	7903.4	7885.2	7380.6	6614.5	7205.2	8356.8	9078.1	9097.9	7981.2	6996.8	7903.4
55°	8376.6	8313.7	7708.2	6732.0	7132.4	8173.1	8805.1	8770.4	7886.9	6872.7	8049.0
57.5°	7665.1	7706.5	7254.9	6267.1	6242.3	6644.3	6922.3	6836.2	6581.5	6202.6	7488.1
60°	6184.4	6301.9	6344.9	5241.4	4710.3	4503.5	4420.7	4268.5	4311.6	5095.8	6578.2
62.5°	5304.3	5297.6	5567.3	4751.6	3085.6	2653.8	2614.1	2648.8	3145.2	5016.4	6442.5
65°	4205.7	4318.2	4400.9	4027.0	2442.0	1970.5	1968.8	2188.9	2721.6	4192.5	5201.7
67.5°	2670.3	2817.6	2920.1	2576.0	1633.0	1403.0	1364.9	1629.7	1886.1	2749.7	3131.9
70°	1505.6	1575.0	1621.4	1485.7	1039.0	728.0	684.9	747.8	1139.9	1780.2	1856.3
72.5°	580.7	612.2	675.0	679.9	392.1	235.0	190.2	228.3	479.8	704.8	671.7
75°	89.3	96.0	135.7	162.1	112.5	86.0	91.0	94.3	134.0	182.0	152.2
77.5°	43.0	43.0	41.4	48.0	56.3	61.2	66.2	72.8	79.4	87.7	84.4
80°	28.1	28.1	28.1	33.1	41.4	49.6	56.3	59.5	62.9	69.5	66.2
82.5°	18.2	18.2	18.2	24.8	33.1	41.4	44.7	53.0	59.5	69.5	64.5
85°	9.9	9.9	9.9	16.6	24.8	34.7	33.1	26.5	14.9	1.7	3.3
87.5°	3.3	3.3	3.3	3.3	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4
2.5°	5201.7	5125.6	5118.9	4963.4	4824.5	4756.6	4702.0	4549.8	4582.9	4495.2	4493.5
5°	4950.2	4794.6	4543.2	4336.4	4129.6	4088.2	3907.9	3750.7	3755.7	3643.1	3663.0
7.5°	4498.5	4390.9	4084.9	3760.6	3485.9	3290.7	3120.4	3017.8	2887.1	2842.4	2819.2
10°	4212.3	4079.9	3735.8	3328.8	3021.0	2916.8	2753.0	2662.0	2528.0	2461.9	2415.5
12.5°	4086.5	3893.0	3462.8	3049.2	2844.0	2736.5	2597.5	2432.1	2273.2	2212.0	2127.6
15°	4099.8	3868.2	3383.4	2936.7	2690.2	2481.7	2357.7	2174.0	2011.8	1904.3	1843.1
17.5°	4299.9	4018.7	3419.8	2850.7	2496.6	2235.2	1992.0	1793.4	1664.4	1583.4	1563.5
20°	4773.2	4390.9	3481.0	2711.7	2303.0	1977.1	1677.6	1470.8	1371.6	1369.9	1371.6
22.5°	5166.9	4788.1	3605.1	2629.0	2109.5	1646.2	1348.4	1282.2	1262.3	1303.7	1308.7
25°	5698.0	5234.7	3818.6	2585.9	1930.8	1403.0	1219.4	1194.6	1192.9	1245.9	1247.5
27.5°	6242.3	5625.2	3945.9	2460.2	1748.8	1277.2	1141.6	1136.6	1163.1	1219.4	1214.4
30°	6613.0	5952.8	4175.9	2309.6	1533.7	1166.4	1110.1	1116.8	1153.2	1196.2	1202.8
32.5°	7044.7	6275.4	4235.4	2226.9	1401.4	1073.8	1034.0	1048.9	1095.2	1163.1	1199.5
35°	7539.4	6503.7	4326.4	2114.4	1351.7	1002.6	982.8	999.3	1055.5	1100.2	1139.9
37.5°	7905.1	6907.4	4343.0	2026.7	1297.1	962.9	931.5	986.1	1019.1	1082.0	1101.9
40°	8176.4	7200.2	4386.0	1972.1	1254.1	911.6	911.6	948.0	992.7	1050.6	1090.3
42.5°	8350.1	7413.7	4417.4	1922.5	1171.3	896.8	888.4	924.8	984.4	1040.7	1058.9
44°	8456.0	7504.7	4386.0	1876.2	1148.2	878.5	878.5	910.0	956.3	1022.5	1043.9
45°	8482.5	7618.9	4316.5	1874.5	1120.0	857.0	853.7	913.2	944.7	1025.8	1039.0
47.5°	8585.0	7759.5	4324.8	1821.6	1052.3	805.8	863.6	890.1	918.2	989.4	1034.0
50°	8581.7	7847.1	4306.6	1743.8	1002.6	747.8	843.8	873.5	901.7	974.5	992.7
52.5°	8604.9	8174.8	4473.7	1619.8	913.2	673.4	777.6	843.8	878.5	939.7	977.8
55°	8593.3	8361.7	4639.1	1527.1	787.5	628.7	721.3	799.1	848.7	913.2	931.5
57.5°	7848.8	7390.5	4293.4	1353.3	651.9	575.7	641.9	752.8	815.7	881.9	905.0
60°	6412.7	5696.3	3540.6	996.0	536.1	529.4	597.3	737.9	764.4	822.2	861.9
62.5°	5926.3	4996.5	2807.7	761.0	458.3	484.8	550.9	666.7	708.1	779.3	815.7
65°	4637.4	3318.8	1738.9	514.5	403.7	435.1	498.0	584.0	651.9	718.0	761.0
67.5°	2746.5	1813.3	860.3	360.7	352.4	385.5	450.0	514.5	592.3	665.1	686.6
70°	1495.6	891.8	367.3	274.7	299.5	329.3	392.1	436.8	511.2	567.5	603.9
72.5°	479.8	271.3	183.7	203.5	228.3	263.1	301.1	355.7	408.6	441.8	471.5
75°	115.8	114.1	130.7	142.3	165.4	191.9	223.4	251.5	292.8	324.3	350.8
77.5°	81.1	87.7	100.9	117.5	125.7	135.7	155.5	177.0	195.2	218.4	235.0
80°	62.9	67.9	77.8	86.0	94.3	102.6	112.5	120.8	132.4	147.3	155.5
82.5°	59.5	62.9	72.8	77.8	74.4	72.8	79.4	82.8	84.4	89.3	94.3
85°	5.0	0.0	3.3	11.6	28.1	41.4	44.7	44.7	43.0	46.3	46.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.6	5.0
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°	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4
2.5°	4473.7	4417.4	4439.0	4465.5	4427.4	4339.6	4362.9	4352.9	4442.2	4435.6	4525.0
5°	3750.7	3663.0	3672.9	3802.0	3760.6	3805.3	3716.0	3704.4	3720.9	3729.2	3744.0
7.5°	2870.5	2858.9	2958.2	3067.4	3118.7	3065.7	2978.1	2958.2	2940.0	2903.6	2986.3
10°	2342.7	2346.1	2339.4	2422.2	2480.0	2468.5	2415.5	2408.9	2374.1	2360.9	2407.3
12.5°	2091.2	2046.6	2025.0	1998.6	2043.3	2073.1	2049.9	2033.4	2035.0	2051.5	2058.2
15°	1848.0	1819.9	1773.6	1743.8	1765.3	1750.5	1742.1	1775.3	1766.9	1763.7	1803.4
17.5°	1575.0	1598.2	1594.9	1561.8	1589.9	1578.4	1576.7	1553.6	1522.1	1498.9	1512.2
20°	1394.7	1437.8	1470.8	1472.5	1487.4	1485.7	1460.9	1389.8	1366.6	1361.7	1364.9
22.5°	1330.2	1353.3	1393.0	1449.3	1449.3	1422.8	1393.0	1310.4	1288.8	1265.7	1255.8
25°	1278.9	1323.6	1374.9	1381.5	1407.9	1383.1	1335.2	1293.8	1249.1	1217.7	1217.7
27.5°	1252.4	1302.0	1340.1	1351.7	1388.1	1368.2	1318.6	1265.7	1212.7	1211.0	1183.0
30°	1240.9	1287.2	1312.0	1340.1	1356.7	1325.2	1310.4	1254.1	1201.1	1187.9	1141.6
32.5°	1206.1	1272.3	1318.6	1312.0	1325.2	1312.0	1290.5	1244.2	1184.6	1154.9	1149.9
35°	1166.4	1232.6	1282.2	1316.9	1325.2	1297.1	1283.9	1221.0	1139.9	1125.0	1073.8
37.5°	1144.9	1184.6	1245.9	1302.0	1313.6	1298.8	1254.1	1189.6	1108.5	1092.0	1047.3
40°	1118.4	1169.7	1217.7	1264.0	1298.8	1262.3	1211.0	1148.2	1111.8	1062.2	1048.9
42.5°	1098.6	1156.5	1196.2	1247.5	1287.2	1239.2	1179.7	1136.6	1085.3	1052.3	1014.2
44°	1092.0	1144.9	1171.3	1234.3	1267.3	1230.9	1181.3	1136.6	1077.1	1047.3	1014.2
45°	1068.8	1141.6	1169.7	1225.9	1254.1	1224.3	1161.4	1116.8	1073.8	1037.4	1002.6
47.5°	1045.6	1095.2	1143.3	1187.9	1207.8	1197.8	1144.9	1090.3	1039.0	1017.5	984.4
50°	1039.0	1088.7	1133.3	1174.7	1197.8	1178.0	1130.0	1077.1	1017.5	982.8	954.6
52.5°	1005.9	1067.1	1116.8	1130.0	1159.8	1148.2	1111.8	1053.9	997.7	967.9	944.7
55°	957.9	1022.5	1090.3	1106.8	1149.9	1131.6	1077.1	1022.5	974.5	929.8	900.0
57.5°	939.7	1002.6	1068.8	1090.3	1116.8	1087.0	1073.8	1015.8	939.7	916.6	870.3
60°	893.4	972.9	1027.4	1077.1	1078.8	1070.4	1047.3	981.1	918.2	875.2	842.1
62.5°	857.0	931.5	974.5	1020.8	1048.9	1025.8	1002.6	941.4	873.5	825.6	787.5
65°	804.1	871.9	908.3	936.5	967.9	964.5	924.8	880.2	809.0	770.9	734.6
67.5°	723.0	782.6	832.2	858.7	878.5	873.5	843.8	812.3	739.6	701.5	675.0
70°	625.4	686.6	718.0	732.9	752.8	762.7	739.6	724.7	660.1	610.5	585.7
72.5°	502.9	542.7	589.0	602.2	610.5	617.1	617.1	603.9	537.7	517.9	474.8
75°	370.6	402.0	436.8	436.8	451.7	453.3	456.7	448.3	398.7	372.2	362.3
77.5°	251.5	274.7	302.8	314.4	324.3	322.6	320.9	297.8	271.3	259.8	249.9
80°	163.8	187.0	200.2	215.0	225.0	223.4	226.6	210.1	198.6	178.7	182.0
82.5°	97.6	115.8	129.0	147.3	147.3	152.2	152.2	147.3	135.7	125.7	125.7
85°	46.3	61.2	69.5	81.1	87.7	89.3	79.4	67.9	56.3	51.3	56.3
87.5°	8.2	11.6	16.6	14.9	18.2	16.6	16.6	16.6	16.6	13.2	14.9
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°	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4	5054.4
2.5°	4491.9	4574.6	4632.5	4728.4	4893.9	5026.3	5162.0	5262.9	5274.4	5304.3
5°	3798.6	3843.4	3990.5	4182.5	4318.2	4541.5	4685.5	4946.8	5044.5	5148.7
7.5°	2966.5	3039.3	3236.2	3365.2	3663.0	3942.6	4232.2	4554.8	4683.8	4698.7
10°	2501.6	2607.4	2741.5	2948.3	3110.4	3421.4	3782.1	4141.2	4285.1	4309.9
12.5°	2197.1	2332.8	2511.5	2660.4	2815.9	3087.2	3433.0	3876.4	4063.4	4175.9
15°	1904.3	2044.9	2241.8	2448.7	2585.9	2910.2	3317.2	3816.9	4060.1	4159.3
17.5°	1603.2	1733.9	1896.0	2119.4	2395.7	2759.7	3299.0	4015.4	4281.8	4397.6
20°	1345.1	1417.8	1606.5	1836.5	2182.2	2605.8	3305.6	4308.3	4698.7	4750.0
22.5°	1244.2	1260.7	1335.2	1546.9	1925.8	2448.7	3423.1	4723.5	5166.9	5335.6
25°	1166.4	1163.1	1183.0	1325.2	1738.9	2387.4	3538.9	5105.7	5686.4	5870.1
27.5°	1123.4	1090.3	1092.0	1225.9	1606.5	2288.1	3687.8	5544.1	6275.4	6356.4
30°	1101.9	1095.2	1075.4	1130.0	1462.6	2139.3	3712.6	5976.0	6622.9	6740.3
32.5°	1088.7	1024.1	999.3	1019.1	1326.8	1977.1	3805.3	6260.5	7053.0	7001.7
35°	1022.5	964.5	948.0	967.9	1230.9	1886.1	3744.0	6508.7	7375.7	7461.7
37.5°	997.7	946.4	913.2	896.8	1141.6	1810.0	3712.6	6890.9	7688.3	7895.1
40°	974.5	919.9	880.2	863.6	1072.1	1709.1	3702.7	7185.3	8049.0	8173.1
42.5°	948.0	913.2	868.6	838.8	987.8	1608.2	3588.5	7276.3	8159.9	8293.9
44°	939.7	886.8	840.5	830.6	954.6	1556.9	3565.4	7359.1	8255.8	8459.3
45°	931.5	881.9	828.9	815.7	943.0	1528.8	3534.0	7378.9	8414.6	8452.7
47.5°	908.3	876.9	825.6	789.2	918.2	1467.5	3439.6	7266.4	8252.5	8259.1
50°	890.1	853.7	800.8	729.7	885.2	1416.2	3482.7	7225.1	7862.1	7877.0
52.5°	870.3	815.7	785.9	663.5	830.6	1373.2	3573.7	7412.1	7906.7	7903.4
55°	847.1	787.5	714.8	607.2	739.6	1318.6	3793.7	7781.0	8320.3	8376.6
57.5°	810.7	759.4	655.1	557.6	635.3	1214.4	3722.6	7074.5	7655.2	7665.1
60°	762.7	714.8	593.9	519.5	521.2	957.9	3328.8	5512.7	6040.5	6184.4
62.5°	716.4	690.0	542.7	464.9	443.4	762.7	2814.2	4581.3	5185.1	5304.3
65°	661.8	597.3	498.0	423.5	380.6	534.4	1993.7	3423.1	4045.2	4205.7
67.5°	592.3	522.8	438.4	372.2	326.0	357.3	1029.0	1945.7	2576.0	2670.3
70°	517.9	453.3	368.9	314.4	263.1	246.5	453.3	928.1	1407.9	1505.6
72.5°	425.2	365.7	294.5	248.2	196.9	170.4	152.2	248.2	499.6	580.7
75°	307.7	266.3	221.7	177.0	139.0	109.2	89.3	74.4	82.8	89.3
77.5°	226.6	193.6	163.8	125.7	97.6	77.8	61.2	46.3	44.7	43.0
80°	177.0	157.2	130.7	100.9	76.1	57.9	43.0	31.5	28.1	28.1
82.5°	139.0	129.0	107.6	82.8	62.9	46.3	31.5	21.5	18.2	18.2
85°	53.0	53.0	77.8	67.9	48.0	33.1	21.5	11.6	9.9	9.9
87.5°	13.2	13.2	13.2	13.2	11.6	9.9	9.9	5.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)