

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: P647944

Luminaire Tested: **GALN-SA5A-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13354.8 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

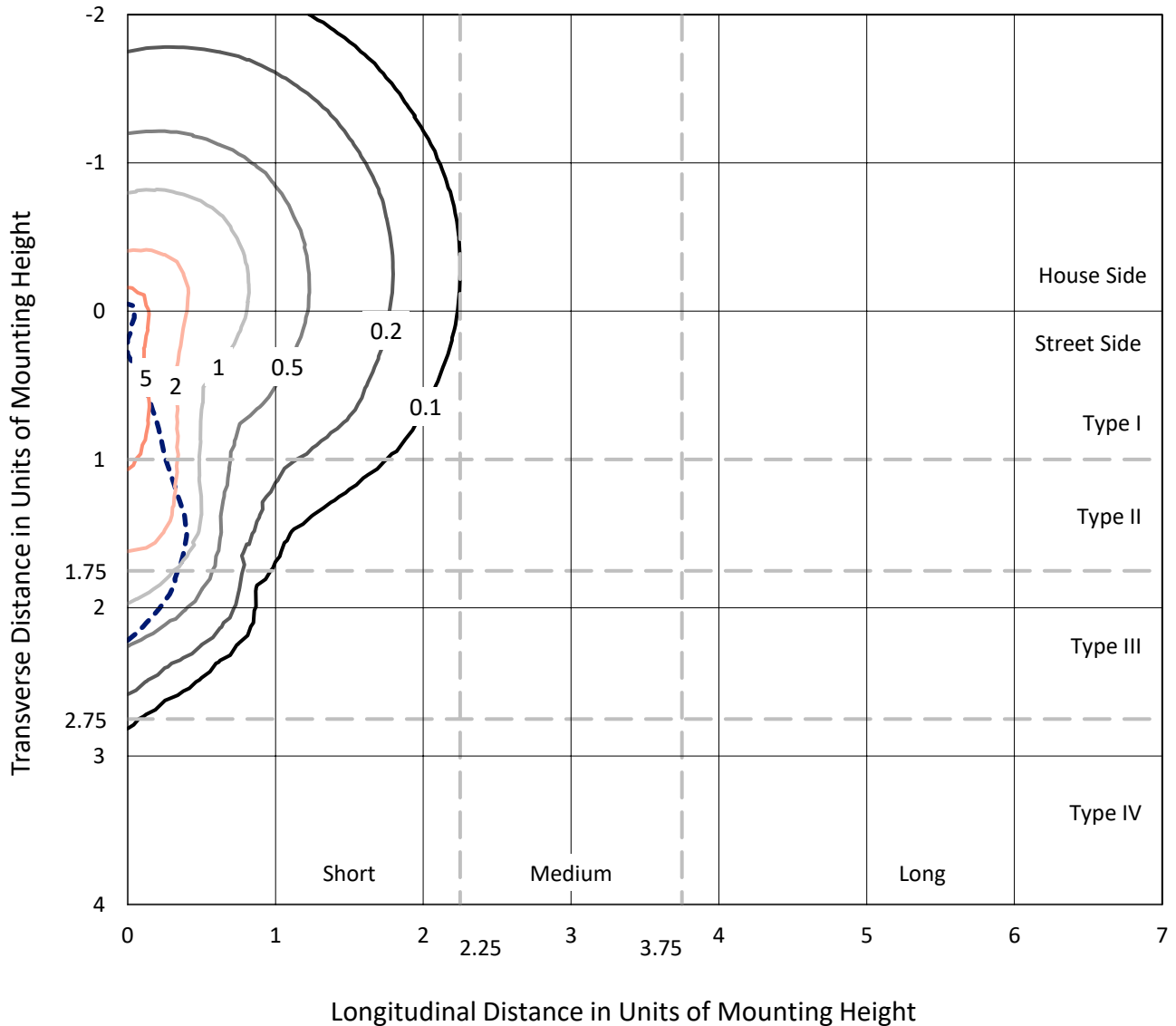
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

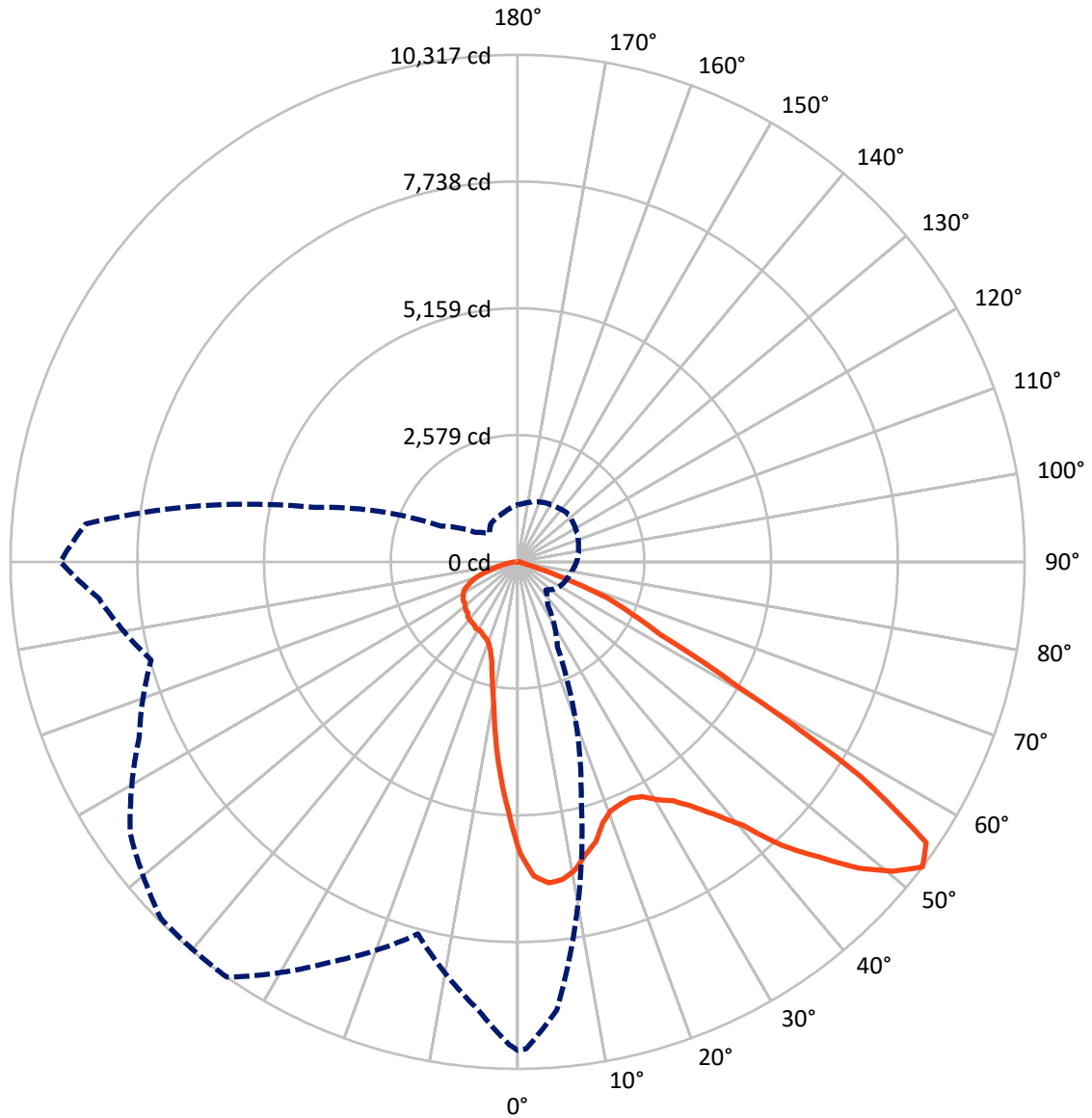
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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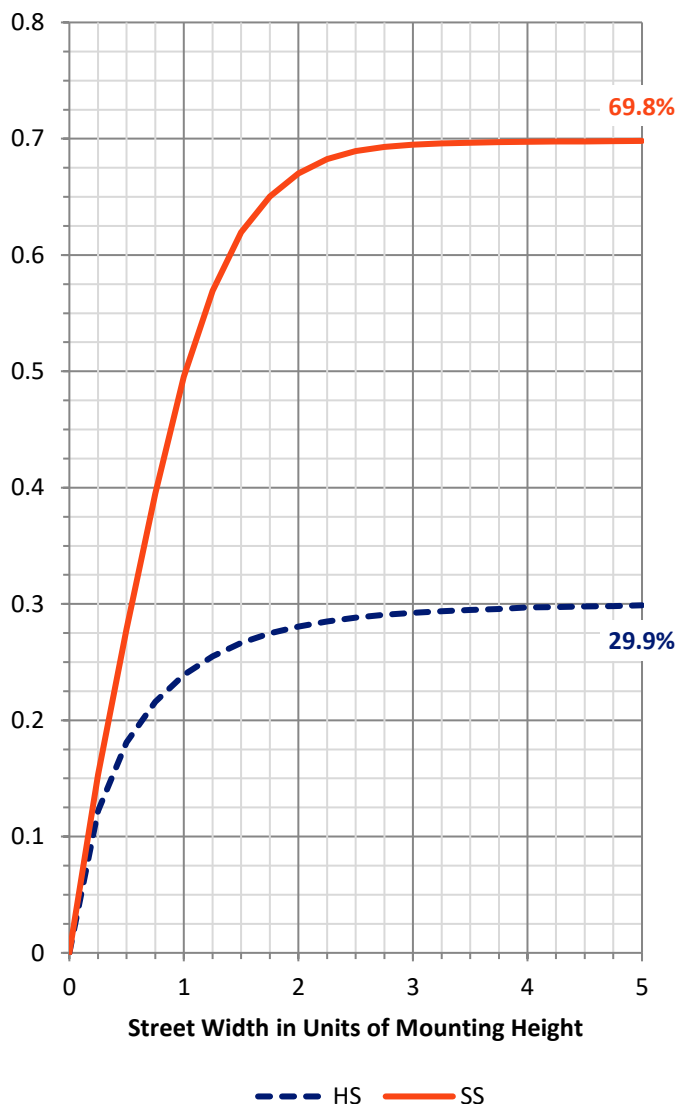
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4025.9	0.0	4025.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9328.9	0.0	9328.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	13354.8	0.0	13354.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	3.4
10°-20°	980.3	7.3
20°-30°	1481.1	11.1
30°-40°	2140.2	16.0
40°-50°	2848.2	21.3
50°-60°	3185.8	23.9
60°-70°	1795.5	13.4
70°-80°	400.2	3.0
80°-90°	71.3	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°	13354.8	100.0
0°-180°	13354.8	100.0

Coefficient of Utilization

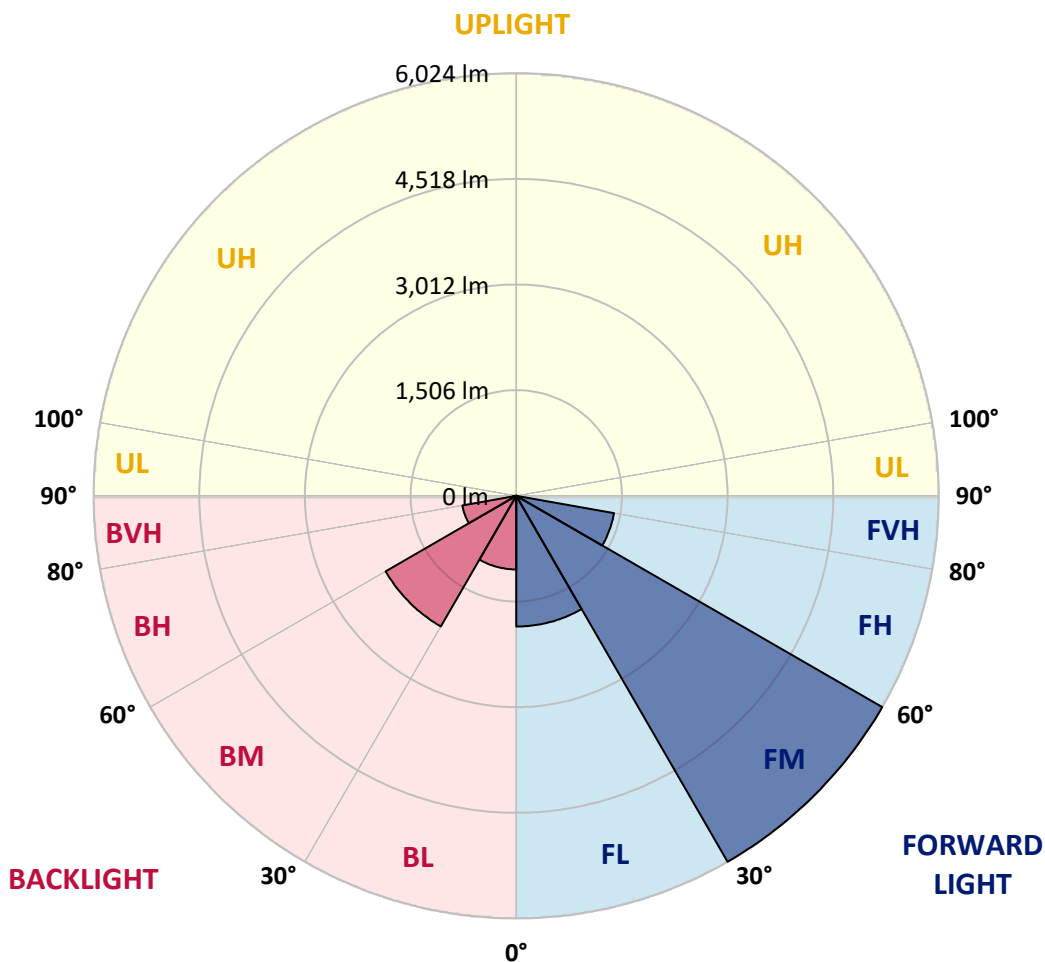


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1863.6	14.0			
FM (30°-60°)	6024.1	45.1			
FH (60°-80°)	1415.4	10.6			G1/1800
FVH (80°-90°)	25.8	0.2			G1/100
BL (0°-30°)	1049.9	7.9	B3/2500		
BM (30°-60°)	2150.2	16.1	B2/2500		
BH (60°-80°)	780.3	5.8	B2/1000		G2/1000
BVH (80°-90°)	45.5	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0
2.5°	6025.7	6122.4	6017.9	5832.1	5700.5	5580.5	5454.7	5429.5	5265.0	5235.9	5115.9
5°	5683.1	5661.8	5534.0	5290.1	5021.1	4777.2	4597.1	4422.9	4304.9	4167.4	4157.8
7.5°	5266.9	5143.1	5069.5	4699.7	4366.8	3983.6	3819.0	3553.9	3470.6	3346.8	3282.9
10°	4895.2	4804.3	4632.0	4262.3	3797.8	3544.2	3368.0	3224.8	3128.0	3000.2	2839.6
12.5°	4711.4	4674.6	4481.0	3908.1	3563.5	3292.5	3168.6	3029.3	2864.8	2659.6	2580.2
15°	4744.3	4620.4	4473.3	3840.3	3364.2	3102.9	2905.4	2731.2	2520.2	2324.7	2210.5
17.5°	4990.1	4895.2	4601.1	3882.9	3288.7	2911.2	2553.1	2295.7	2106.0	1929.9	1850.5
20°	5474.0	5336.6	5005.6	3937.1	3126.0	2644.1	2233.7	1916.3	1713.0	1620.1	1593.0
22.5°	6010.2	5928.9	5400.4	4059.1	2996.4	2396.4	1895.0	1577.6	1502.0	1476.9	1527.2
25°	6662.5	6451.5	6014.1	4258.4	2895.8	2185.4	1608.5	1432.4	1393.7	1418.8	1476.9
27.5°	7158.0	7101.9	6443.8	4446.2	2758.3	1931.8	1447.8	1331.7	1343.3	1368.5	1422.7
30°	7746.5	7461.9	6859.9	4575.9	2634.4	1757.6	1335.6	1304.6	1316.2	1358.8	1385.9
32.5°	8100.7	7994.3	7121.2	4771.4	2491.2	1606.6	1248.5	1219.4	1236.9	1300.7	1364.6
35°	8551.7	8340.8	7444.5	4821.7	2390.5	1546.6	1186.6	1165.3	1205.9	1250.5	1322.0
37.5°	9078.2	8933.0	7891.6	4786.9	2336.3	1484.6	1134.3	1124.6	1153.7	1215.6	1298.8
40°	9389.8	9345.3	8125.9	4808.2	2251.1	1430.5	1074.3	1085.9	1145.9	1194.3	1275.6
42.5°	9689.9	9399.5	8472.4	4800.4	2196.9	1356.9	1080.1	1066.5	1113.0	1169.1	1246.5
45°	9755.7	9467.3	8553.6	4746.2	2131.2	1285.3	1035.6	1041.4	1097.5	1167.2	1217.5
47.5°	9713.1	9500.1	8704.6	4730.7	2069.2	1234.9	969.7	1039.4	1072.3	1128.5	1200.1
50°	9684.1	9672.5	8832.4	4804.3	1986.0	1155.6	890.4	1014.3	1047.2	1103.3	1180.8
52.5°	9939.6	9914.4	9151.8	4997.9	1920.2	1070.4	809.1	950.4	1029.8	1084.0	1159.5
55°	10094.4	9984.1	9699.6	5235.9	1809.8	958.2	752.9	871.0	987.2	1035.6	1113.0
57.5°	9080.1	9004.7	8774.3	4887.5	1624.0	811.0	683.2	789.7	929.1	1004.6	1084.0
60°	7554.9	7436.8	6846.4	4153.9	1198.1	631.0	640.7	725.8	913.6	942.7	1035.6
62.5°	7123.2	6830.9	6027.6	3342.9	919.4	542.0	574.9	667.8	832.3	880.7	973.7
65°	5652.1	5435.3	4312.6	2413.8	615.5	470.3	524.5	602.0	718.1	813.0	898.2
67.5°	3538.4	3331.3	2301.5	1142.0	429.7	402.6	468.4	549.7	644.6	729.8	824.6
70°	1848.6	1622.1	1062.7	412.3	296.1	329.1	391.0	468.4	561.3	631.0	704.5
72.5°	689.1	559.4	346.5	178.1	205.1	251.7	317.4	373.6	439.4	524.5	565.2
75°	106.5	91.0	89.0	108.4	139.4	182.0	226.4	282.6	340.7	394.9	422.0
77.5°	50.3	48.4	54.2	71.6	92.9	129.7	164.5	218.7	265.2	300.0	315.5
80°	32.9	31.0	34.8	48.4	69.7	96.8	131.6	168.4	211.0	240.0	236.2
82.5°	19.3	21.3	21.3	32.9	48.4	69.7	94.8	127.8	156.8	182.0	166.5
85°	11.6	9.7	9.7	19.3	32.9	56.1	79.4	54.2	56.1	56.1	63.9
87.5°	3.8	3.8	3.8	2.0	3.8	3.8	5.8	9.7	11.6	13.5	17.4
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°	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0
2.5°	5112.1	5172.0	5150.7	5075.2	5133.3	5143.1	5104.3	5237.9	5263.0	5222.4	5234.0
5°	4144.3	4159.7	4194.5	4268.1	4320.4	4382.3	4382.3	4386.2	4333.9	4465.5	4426.8
7.5°	3228.7	3238.3	3279.0	3435.8	3480.3	3598.4	3648.7	3613.9	3509.3	3464.9	3501.6
10°	2787.3	2731.2	2717.6	2737.0	2837.7	2888.0	2930.6	2918.9	2901.6	2866.7	2828.0
12.5°	2493.2	2452.4	2419.5	2373.1	2378.9	2427.3	2460.2	2433.1	2440.8	2448.6	2460.2
15°	2173.8	2144.7	2127.3	2057.6	2049.8	2082.8	2094.4	2109.9	2138.9	2140.8	2127.3
17.5°	1835.0	1809.8	1848.6	1887.3	1860.2	1862.1	1883.3	1897.0	1889.2	1854.4	1836.9
20°	1602.7	1629.8	1668.5	1705.3	1734.3	1751.7	1759.5	1738.2	1713.0	1641.4	1639.5
22.5°	1535.0	1569.8	1602.7	1658.9	1686.0	1730.5	1689.8	1641.4	1606.6	1571.7	1531.1
25°	1484.6	1513.7	1579.5	1600.8	1653.1	1689.8	1660.8	1612.4	1552.4	1502.0	1471.1
27.5°	1447.8	1480.8	1523.3	1581.4	1622.1	1643.4	1614.3	1595.0	1533.0	1473.1	1428.5
30°	1424.7	1459.5	1536.9	1585.3	1620.1	1637.6	1587.2	1564.0	1519.5	1469.1	1430.5
32.5°	1409.2	1440.1	1505.9	1567.9	1591.1	1591.1	1598.9	1571.7	1509.8	1424.7	1391.7
35°	1358.8	1401.4	1455.6	1527.2	1569.8	1595.0	1556.3	1525.3	1484.6	1397.6	1337.5
37.5°	1329.8	1358.8	1428.5	1496.2	1533.0	1560.1	1544.6	1490.4	1436.3	1364.6	1316.2
40°	1298.8	1345.3	1407.2	1471.1	1511.7	1538.8	1527.2	1463.3	1397.6	1329.8	1296.9
42.5°	1277.5	1308.5	1372.4	1444.0	1492.4	1544.6	1509.8	1430.5	1384.0	1291.1	1254.3
45°	1260.1	1310.4	1378.2	1407.2	1457.6	1511.7	1449.8	1401.4	1347.2	1279.5	1248.5
47.5°	1238.8	1285.3	1329.8	1407.2	1430.5	1455.6	1444.0	1366.6	1320.1	1246.5	1225.2
50°	1231.1	1248.5	1329.8	1372.4	1405.3	1430.5	1399.5	1341.4	1296.9	1221.4	1175.0
52.5°	1200.1	1233.0	1285.3	1341.4	1382.1	1413.0	1362.7	1325.9	1266.0	1186.6	1157.5
55°	1161.4	1180.8	1273.6	1331.7	1353.0	1374.3	1355.0	1294.9	1233.0	1151.7	1122.7
57.5°	1111.1	1155.6	1231.1	1312.4	1339.5	1351.1	1320.1	1271.7	1194.3	1122.7	1076.2
60°	1058.8	1105.3	1188.5	1254.3	1281.4	1324.0	1277.5	1248.5	1159.5	1080.1	1029.8
62.5°	1006.5	1058.8	1120.7	1203.9	1227.2	1244.7	1233.0	1192.4	1120.7	1031.7	969.7
65°	944.6	983.3	1060.7	1103.3	1118.8	1159.5	1118.8	1103.3	1039.4	954.2	902.0
67.5°	851.7	884.6	952.4	993.0	1004.6	1022.0	1020.1	1002.6	931.1	873.0	826.5
70°	745.3	774.2	816.8	865.2	871.0	892.3	873.0	869.1	822.6	743.3	718.1
72.5°	598.1	625.2	681.4	702.7	704.5	712.3	702.7	689.1	677.5	594.2	569.1
75°	458.8	474.3	501.4	520.7	520.7	530.4	524.5	511.0	480.1	427.8	402.6
77.5°	319.4	334.9	369.7	381.3	379.4	383.3	365.8	352.3	305.8	278.7	257.5
80°	232.3	241.9	259.4	267.1	269.0	274.8	253.5	241.9	214.9	183.8	174.2
82.5°	168.4	174.2	176.2	185.8	185.8	176.2	170.3	158.7	139.4	120.0	112.3
85°	69.7	71.6	73.5	85.2	87.1	104.5	96.8	91.0	79.4	67.7	61.9
87.5°	17.4	19.3	25.1	21.3	25.1	25.1	27.1	31.0	31.0	25.1	25.1
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°	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0
2.5°	5278.5	5294.0	5491.4	5516.6	5613.4	5712.1	5911.5	6054.7	6170.8	6246.4	6267.6
5°	4467.5	4566.2	4657.2	4804.3	4937.8	5127.6	5346.2	5617.2	5957.9	6132.1	6201.8
7.5°	3497.7	3613.9	3745.5	3888.7	4084.2	4424.9	4717.2	5030.8	5466.3	5646.3	5919.2
10°	2855.1	2984.8	3159.0	3269.3	3505.5	3830.7	4171.4	4533.3	4949.4	5208.8	5524.4
12.5°	2524.1	2630.6	2791.2	3023.5	3199.7	3410.6	3664.2	4121.0	4717.2	4963.0	5179.8
15°	2158.3	2276.3	2462.1	2719.6	2930.6	3182.2	3466.7	3964.3	4599.1	4978.5	5162.4
17.5°	1856.3	1941.4	2137.0	2359.6	2601.5	2876.4	3284.8	3956.5	4723.0	5208.8	5508.9
20°	1647.3	1658.9	1765.4	1955.0	2284.1	2642.2	3172.6	3917.7	5119.8	5605.7	5985.0
22.5°	1515.7	1504.0	1505.9	1666.6	1897.0	2411.8	2996.4	4049.4	5570.8	6236.7	6492.2
25°	1449.8	1418.8	1399.5	1434.3	1643.4	2138.9	2862.8	4223.6	6056.7	6757.4	7071.0
27.5°	1415.0	1360.8	1322.0	1327.9	1480.8	2001.4	2779.6	4299.1	6538.6	7483.2	7593.5
30°	1401.4	1333.7	1277.5	1258.2	1358.8	1809.8	2601.5	4428.8	6970.3	7882.0	7976.8
32.5°	1353.0	1269.8	1215.6	1198.1	1238.8	1641.4	2473.7	4521.7	7351.6	8315.5	8282.7
35°	1296.9	1227.2	1159.5	1126.6	1155.6	1533.0	2371.2	4477.2	7800.6	8652.4	8634.9
37.5°	1291.1	1200.1	1144.0	1089.8	1087.8	1399.5	2231.8	4519.7	8087.1	9256.3	9018.2
40°	1240.7	1182.7	1109.1	1064.6	1039.4	1331.7	2096.3	4419.1	8507.2	9500.1	9265.9
42.5°	1242.7	1155.6	1091.7	1039.4	1014.3	1233.0	2003.4	4392.0	8654.3	9897.0	9382.1
45°	1211.7	1126.6	1072.3	1010.4	996.8	1157.5	1914.4	4266.2	8913.7	9916.3	9236.9
47.5°	1180.8	1105.3	1047.2	973.7	942.7	1130.4	1844.7	4161.6	8778.2	9734.4	9035.6
50°	1159.5	1072.3	1018.1	965.9	878.8	1084.0	1753.7	4136.5	8588.5	9488.6	8662.0
52.5°	1122.7	1045.2	989.1	948.4	809.1	1041.4	1718.8	4283.6	8820.7	9304.7	8553.6
55°	1087.8	1008.5	936.9	857.5	751.1	929.1	1622.1	4421.1	9159.5	9728.6	9045.3
57.5°	1051.0	975.5	898.2	803.3	694.9	813.0	1521.4	4446.2	8524.6	8991.1	8586.5
60°	1002.6	905.9	847.8	724.0	634.9	673.6	1205.9	3919.7	6612.2	7508.4	7522.0
62.5°	948.4	843.9	793.6	648.5	572.9	580.7	983.3	3294.5	5363.7	6215.4	6585.1
65°	876.9	776.2	716.2	600.0	528.4	503.2	720.0	2413.8	4074.6	5042.4	5462.4
67.5°	783.9	689.1	613.6	522.7	472.3	431.7	491.6	1358.8	2406.0	3385.5	3513.2
70°	685.2	603.9	524.5	449.1	392.9	363.9	360.0	602.0	1149.8	1821.4	2073.1
72.5°	540.0	482.0	418.1	362.0	325.2	282.6	257.5	249.7	389.1	741.3	1023.9
75°	387.1	338.7	301.9	265.2	238.1	214.9	195.5	178.1	162.6	185.8	255.5
77.5°	243.9	226.4	197.5	187.8	172.3	166.5	158.7	149.1	137.4	129.7	129.7
80°	164.5	152.9	143.2	141.3	135.5	133.6	135.5	125.8	114.2	104.5	108.4
82.5°	110.3	108.4	106.5	104.5	106.5	108.4	112.3	110.3	100.6	94.8	96.8
85°	65.9	69.7	73.5	77.4	85.2	75.5	61.9	52.2	46.4	42.6	40.6
87.5°	25.1	34.8	31.0	29.0	31.0	29.0	27.1	25.1	21.3	19.3	19.3
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°	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0	5927.0
2.5°	6408.9	6447.7	6480.6	6472.8	6405.1	6314.1	6277.3	6089.5	6050.9	6025.7
5°	6496.1	6720.6	6769.0	6739.9	6563.8	6341.2	6124.4	5849.6	5688.9	5683.1
7.5°	6335.4	6612.2	6699.3	6765.1	6530.9	6143.7	5772.1	5359.8	5259.2	5266.9
10°	5927.0	6368.3	6583.2	6650.9	6381.8	6047.0	5532.1	5114.0	4899.2	4895.2
12.5°	5700.5	6047.0	6107.0	6201.8	6122.4	5783.7	5392.8	4924.3	4715.2	4711.4
15°	5499.2	5727.6	5745.0	5878.6	5921.1	5692.7	5429.5	4930.1	4761.7	4744.3
17.5°	5675.3	5516.6	5450.8	5468.2	5594.1	5677.3	5642.5	5259.2	5086.9	4990.1
20°	5793.4	5439.2	5239.8	5259.2	5408.2	5712.1	5959.9	5735.3	5462.4	5474.0
22.5°	6108.9	5450.8	5139.1	5117.8	5354.0	5894.0	6317.9	6337.3	6074.0	6010.2
25°	6581.2	5584.4	5108.2	5102.3	5328.9	6089.5	6736.1	7049.7	6780.6	6662.5
27.5°	6960.6	5793.4	5205.0	5224.3	5408.2	6248.3	7092.3	7508.4	7303.2	7158.0
30°	7293.6	6010.2	5340.5	5251.4	5621.2	6331.5	7245.2	8031.0	7866.5	7746.5
32.5°	7431.0	6317.9	5555.3	5408.2	5797.3	6432.2	7562.6	8538.1	8396.9	8100.7
35°	7663.2	6490.2	5671.4	5659.8	6105.1	6674.1	7711.6	8873.0	8814.9	8551.7
37.5°	7849.0	6664.4	6083.8	5956.0	6527.0	7080.6	7951.7	9335.6	9202.1	9078.2
40°	7992.3	6976.1	6468.9	6637.3	7045.7	7450.3	8172.3	9364.7	9749.8	9389.8
42.5°	7860.7	7254.8	7101.9	7504.5	7891.6	7872.3	8197.5	9589.2	9877.6	9689.9
45°	7827.8	7727.1	8102.6	8468.5	8557.5	8222.7	8017.5	9341.4	9838.9	9755.7
47.5°	7748.4	8191.7	8845.9	9442.1	9306.6	8456.9	7802.6	9297.0	9862.1	9713.1
50°	7721.3	8292.4	9395.7	9976.4	9895.1	8660.1	7702.0	9010.5	9697.6	9684.1
52.5°	7719.4	8499.5	9624.1	10266.7	10317.0	8981.4	7839.4	9155.6	9825.4	9939.6
55°	7806.5	8433.6	9595.0	10106.0	10086.7	8838.2	7854.9	9252.4	9982.2	10094.4
57.5°	7363.3	7554.9	7918.7	8323.3	8218.8	7320.7	7014.8	8553.6	9161.4	9080.1
60°	6358.6	5758.6	5348.2	5328.9	5125.6	4845.0	5741.1	7634.2	7634.2	7554.9
62.5°	5568.9	3780.3	3248.0	3097.1	3242.2	3565.5	5537.9	7425.2	7214.2	7123.2
65°	4870.1	2886.1	2348.0	2305.4	2557.0	3044.8	5007.5	6325.7	5954.1	5652.1
67.5°	3133.8	2113.7	1745.9	1670.5	1974.3	2235.7	3333.2	3890.6	3656.5	3538.4
70°	2020.8	1376.3	971.7	911.7	1029.8	1378.2	2129.2	2268.6	1927.9	1848.6
72.5°	956.2	594.2	340.7	280.7	315.5	526.5	842.0	905.9	752.9	689.1
75°	303.9	218.7	139.4	120.0	114.2	135.5	193.6	149.1	108.4	106.5
77.5°	135.5	129.7	110.3	92.9	81.3	67.7	56.1	46.4	48.4	50.3
80°	112.3	102.6	91.0	81.3	67.7	52.2	40.6	31.0	31.0	32.9
82.5°	98.7	89.0	79.4	67.7	58.1	42.6	31.0	21.3	19.3	19.3
85°	42.6	50.3	54.2	58.1	46.4	34.8	21.3	13.5	11.6	11.6
87.5°	17.4	15.5	13.5	11.6	9.7	9.7	7.8	5.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)