

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: P528238

Luminaire Tested: **GALN-SA3B-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528238
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-SA3B-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 12651 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

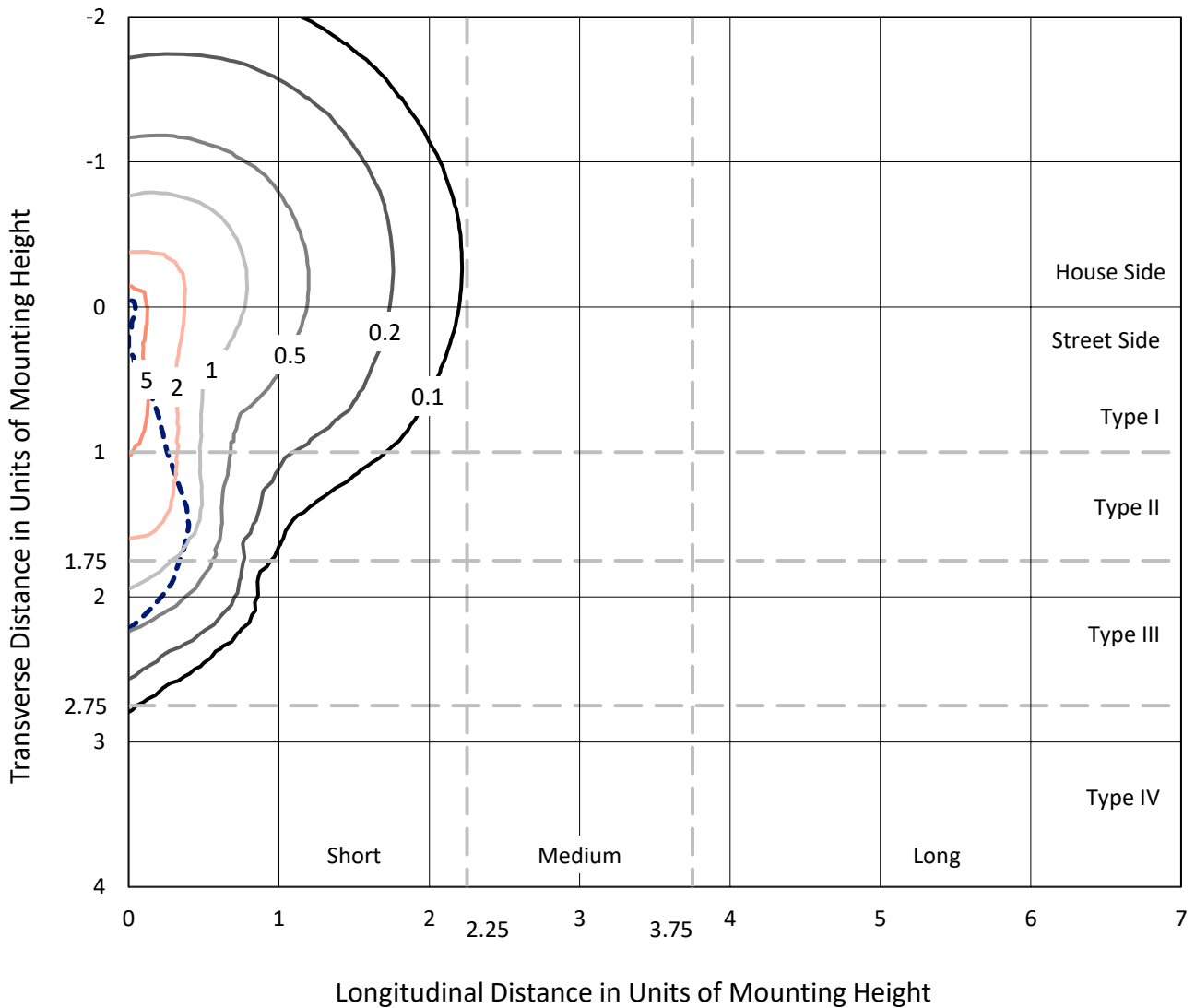
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

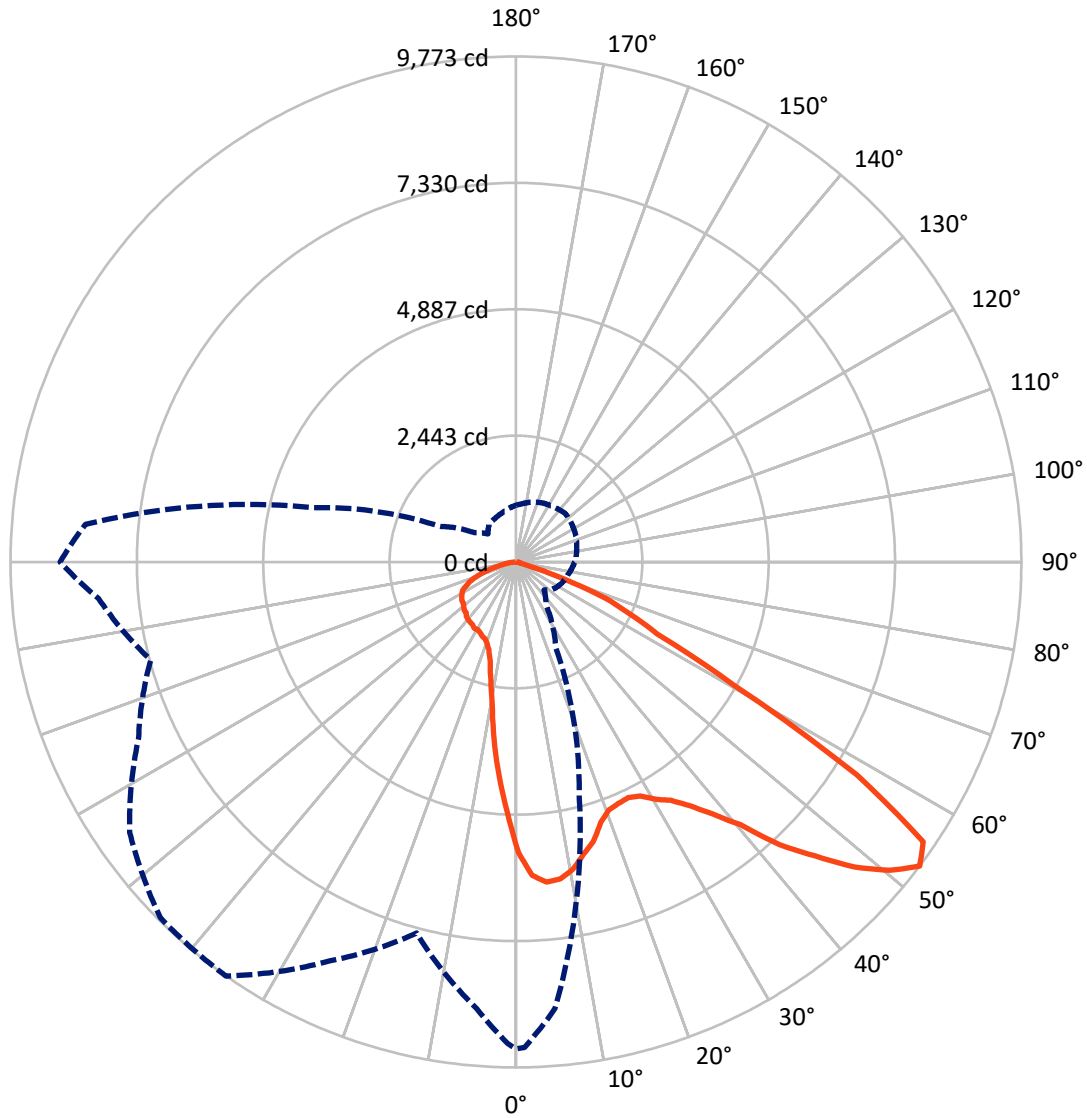
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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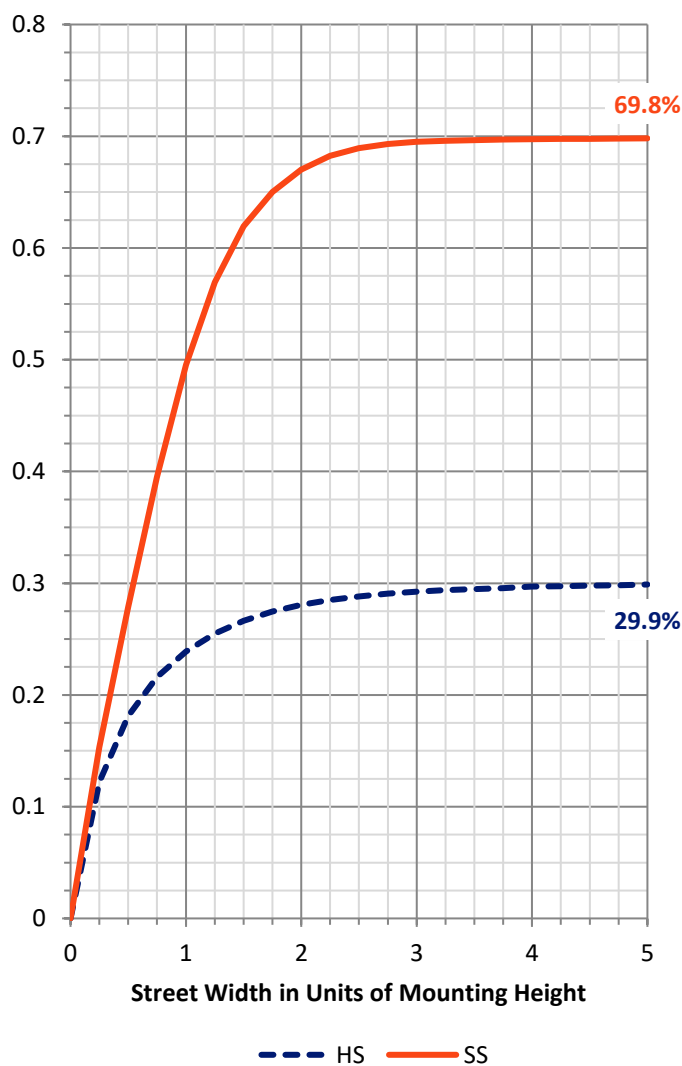
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3813.7	0.0	3813.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	8837.3	0.0	8837.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	12651.0	0.0	12651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.3	3.4
10°-20°	928.6	7.3
20°-30°	1403.0	11.1
30°-40°	2027.4	16.0
40°-50°	2698.1	21.3
50°-60°	3017.9	23.9
60°-70°	1700.9	13.4
70°-80°	379.2	3.0
80°-90°	67.5	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°	12651.0	100.0
0°-180°	12651.0	100.0

Coefficient of Utilization



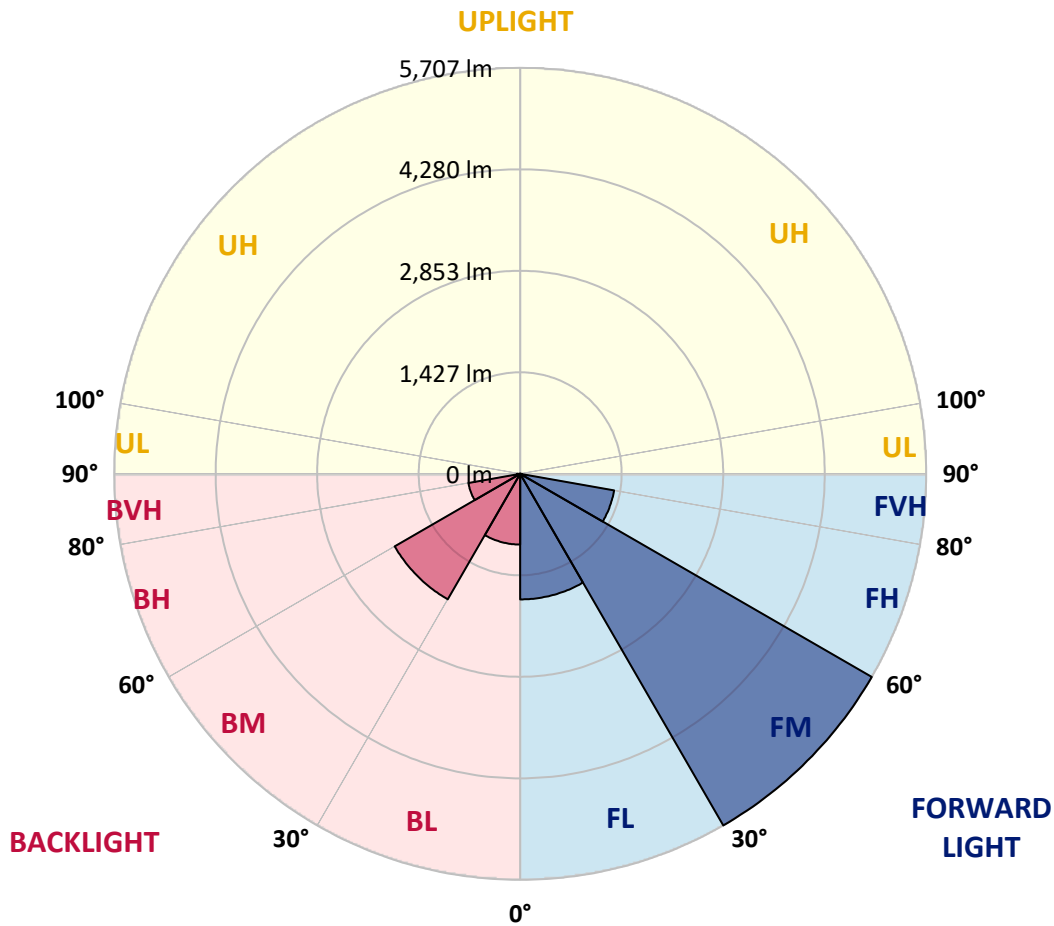
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.4	14.0			
FM (30°-60°)	5706.6	45.1			
FH (60°-80°)	1340.8	10.6			G1/1800
FVH (80°-90°)	24.4	0.2			G1/100
BL (0°-30°)	994.5	7.9	B2/1000		
BM (30°-60°)	2036.9	16.1	B2/2500		
BH (60°-80°)	739.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	43.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6
2.5°	5708.1	5799.8	5700.8	5524.7	5400.1	5286.4	5167.2	5143.3	4987.5	4960.0	4846.3
5°	5383.6	5363.4	5242.4	5011.3	4756.5	4525.4	4354.9	4189.9	4078.0	3947.8	3938.6
7.5°	4989.3	4872.0	4802.3	4452.1	4136.7	3773.6	3617.8	3366.6	3287.7	3170.4	3109.8
10°	4637.3	4551.1	4387.9	4037.7	3597.6	3357.4	3190.5	3054.8	2963.2	2842.1	2689.9
12.5°	4463.1	4428.2	4244.9	3702.1	3375.7	3119.0	3001.7	2869.6	2713.8	2519.4	2444.2
15°	4494.2	4376.9	4237.5	3637.9	3186.9	2939.3	2752.3	2587.3	2387.4	2202.2	2094.0
17.5°	4727.1	4637.3	4358.6	3678.3	3115.3	2757.8	2418.6	2174.7	1995.0	1828.1	1753.0
20°	5185.5	5055.3	4741.8	3729.6	2961.3	2504.7	2116.0	1815.3	1622.8	1534.8	1509.1
22.5°	5693.4	5616.4	5115.8	3845.1	2838.5	2270.0	1795.1	1494.4	1422.9	1399.1	1446.7
25°	6311.4	6111.5	5697.1	4034.0	2743.1	2070.2	1523.8	1356.9	1320.2	1344.1	1399.1
27.5°	6780.8	6727.6	6104.2	4211.9	2612.9	1830.0	1371.6	1261.5	1272.5	1296.4	1347.7
30°	7338.2	7068.7	6498.4	4334.7	2495.6	1664.9	1265.2	1235.9	1246.9	1287.2	1312.9
32.5°	7673.8	7572.9	6745.9	4519.9	2359.9	1521.9	1182.7	1155.2	1171.7	1232.2	1292.7
35°	8101.0	7901.1	7052.2	4567.6	2264.5	1465.1	1124.0	1103.8	1142.4	1184.5	1252.4
37.5°	8599.7	8462.2	7475.7	4534.6	2213.2	1406.4	1074.5	1065.3	1092.8	1151.5	1230.4
40°	8895.0	8852.8	7697.6	4554.8	2132.5	1355.1	1017.7	1028.7	1085.5	1131.4	1208.4
42.5°	9179.2	8904.1	8025.8	4547.4	2081.2	1285.4	1023.2	1010.3	1054.3	1107.5	1180.9
45°	9241.5	8968.3	8102.8	4496.1	2018.8	1217.5	981.0	986.5	1039.7	1105.7	1153.4
47.5°	9201.2	8999.5	8245.9	4481.4	1960.2	1169.9	918.7	984.7	1015.8	1069.0	1136.9
50°	9173.7	9162.7	8366.9	4551.1	1881.3	1094.7	843.5	960.8	992.0	1045.2	1118.5
52.5°	9415.7	9391.9	8669.4	4734.4	1819.0	1014.0	766.5	900.3	975.5	1026.8	1098.3
55°	9562.4	9457.9	9188.3	4960.0	1714.4	907.6	713.3	825.1	935.2	981.0	1054.3
57.5°	8601.6	8530.1	8311.9	4629.9	1538.4	768.3	647.3	748.1	880.1	951.7	1026.8
60°	7156.7	7044.8	6485.6	3935.0	1135.0	597.8	606.9	687.6	865.5	893.0	981.0
62.5°	6747.8	6470.9	5709.9	3166.7	871.0	513.4	544.6	632.6	788.5	834.3	922.3
65°	5354.2	5148.8	4085.3	2286.5	583.1	445.6	496.9	570.3	680.3	770.1	850.8
67.5°	3351.9	3155.7	2180.2	1081.8	407.1	381.4	443.7	520.8	610.6	691.3	781.1
70°	1751.1	1536.6	1006.7	390.6	280.5	311.7	370.4	443.7	531.8	597.8	667.4
72.5°	652.8	529.9	328.2	168.7	194.4	238.4	300.7	353.9	416.2	496.9	535.4
75°	100.8	86.2	84.3	102.7	132.0	172.4	214.5	267.7	322.7	374.1	399.7
77.5°	47.7	45.8	51.3	67.8	88.0	122.9	155.9	207.2	251.2	284.2	298.9
80°	31.2	29.3	33.0	45.8	66.0	91.7	124.7	159.5	199.9	227.4	223.7
82.5°	18.3	20.2	20.2	31.2	45.8	66.0	89.8	121.0	148.5	172.4	157.7
85°	11.0	9.2	9.2	18.3	31.2	53.2	75.2	51.3	53.2	53.2	60.5
87.5°	3.7	3.7	3.7	1.8	3.7	3.7	5.5	9.2	11.0	12.8	16.5
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°	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6
2.5°	4842.6	4899.5	4879.3	4807.8	4862.8	4872.0	4835.3	4961.8	4985.7	4947.1	4958.2
5°	3925.8	3940.5	3973.5	4043.2	4092.7	4151.4	4151.4	4155.0	4105.5	4230.2	4193.5
7.5°	3058.5	3067.7	3106.2	3254.7	3296.9	3408.7	3456.4	3423.4	3324.4	3282.2	3317.0
10°	2640.4	2587.3	2574.4	2592.8	2688.1	2735.8	2776.1	2765.1	2748.6	2715.6	2678.9
12.5°	2361.7	2323.2	2292.0	2248.0	2253.5	2299.4	2330.6	2304.9	2312.2	2319.5	2330.6
15°	2059.2	2031.7	2015.2	1949.2	1941.8	1973.0	1984.0	1998.7	2026.2	2028.0	2015.2
17.5°	1738.3	1714.4	1751.1	1787.8	1762.1	1764.0	1784.1	1797.0	1789.6	1756.6	1740.1
20°	1518.3	1543.9	1580.6	1615.4	1642.9	1659.4	1666.8	1646.6	1622.8	1554.9	1553.1
22.5°	1454.1	1487.1	1518.3	1571.4	1597.1	1639.3	1600.8	1554.9	1521.9	1488.9	1450.4
25°	1406.4	1433.9	1496.2	1516.4	1565.9	1600.8	1573.3	1527.4	1470.6	1422.9	1393.6
27.5°	1371.6	1402.7	1443.1	1498.1	1536.6	1556.8	1529.3	1510.9	1452.2	1395.4	1353.2
30°	1349.6	1382.6	1455.9	1501.7	1534.8	1551.3	1503.6	1481.6	1439.4	1391.7	1355.1
32.5°	1334.9	1364.2	1426.6	1485.2	1507.2	1507.2	1514.6	1488.9	1430.2	1349.6	1318.4
35°	1287.2	1327.6	1378.9	1446.7	1487.1	1510.9	1474.2	1444.9	1406.4	1323.9	1267.0
37.5°	1259.7	1287.2	1353.2	1417.4	1452.2	1477.9	1463.2	1411.9	1360.6	1292.7	1246.9
40°	1230.4	1274.4	1333.1	1393.6	1432.1	1457.7	1446.7	1386.2	1323.9	1259.7	1228.5
42.5°	1210.2	1239.5	1300.0	1367.9	1413.7	1463.2	1430.2	1355.1	1311.0	1223.0	1188.2
45°	1193.7	1241.4	1305.5	1333.1	1380.7	1432.1	1373.4	1327.6	1276.2	1212.0	1182.7
47.5°	1173.5	1217.5	1259.7	1333.1	1355.1	1378.9	1367.9	1294.5	1250.5	1180.9	1160.7
50°	1166.2	1182.7	1259.7	1300.0	1331.2	1355.1	1325.7	1270.7	1228.5	1157.0	1113.0
52.5°	1136.9	1168.0	1217.5	1270.7	1309.2	1338.6	1290.9	1256.0	1199.2	1124.0	1096.5
55°	1100.2	1118.5	1206.5	1261.5	1281.7	1301.9	1283.5	1226.7	1168.0	1091.0	1063.5
57.5°	1052.5	1094.7	1166.2	1243.2	1268.9	1279.9	1250.5	1204.7	1131.4	1063.5	1019.5
60°	1003.0	1047.0	1125.9	1188.2	1213.9	1254.2	1210.2	1182.7	1098.3	1023.2	975.5
62.5°	953.5	1003.0	1061.7	1140.5	1162.5	1179.0	1168.0	1129.5	1061.7	977.3	918.7
65°	894.8	931.5	1004.8	1045.2	1059.8	1098.3	1059.8	1045.2	984.7	904.0	854.5
67.5°	806.8	838.0	902.1	940.7	951.7	968.2	966.3	949.8	882.0	827.0	783.0
70°	705.9	733.5	773.8	819.6	825.1	845.3	827.0	823.3	779.3	704.1	680.3
72.5°	566.6	592.3	645.4	665.6	667.4	674.8	665.6	652.8	641.8	562.9	539.1
75°	434.6	449.2	474.9	493.2	493.2	502.4	496.9	484.1	454.7	405.2	381.4
77.5°	302.5	317.2	350.2	361.2	359.4	363.1	346.6	333.7	289.7	264.0	243.9
80°	220.0	229.2	245.7	253.0	254.9	260.4	240.2	229.2	203.5	174.2	165.0
82.5°	159.5	165.0	166.9	176.0	176.0	166.9	161.4	150.4	132.0	113.7	106.4
85°	66.0	67.8	69.7	80.7	82.5	99.0	91.7	86.2	75.2	64.2	58.7
87.5°	16.5	18.3	23.8	20.2	23.8	23.8	25.7	29.3	29.3	23.8	23.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6
2.5°	5000.3	5015.0	5202.0	5225.9	5317.5	5411.1	5599.9	5735.6	5845.6	5917.1	5937.3
5°	4232.0	4325.5	4411.7	4551.1	4677.6	4857.3	5064.5	5321.2	5643.9	5809.0	5875.0
7.5°	3313.4	3423.4	3548.1	3683.8	3869.0	4191.7	4468.6	4765.6	5178.2	5348.7	5607.3
10°	2704.6	2827.5	2992.5	3097.0	3320.7	3628.8	3951.5	4294.4	4688.6	4934.3	5233.2
12.5°	2391.1	2491.9	2644.1	2864.1	3031.0	3230.9	3471.1	3903.8	4468.6	4701.4	4906.8
15°	2044.5	2156.4	2332.4	2576.3	2776.1	3014.5	3284.0	3755.3	4356.7	4716.1	4890.3
17.5°	1758.5	1839.1	2024.3	2235.2	2464.4	2724.8	3111.7	3748.0	4474.1	4934.3	5218.5
20°	1560.4	1571.4	1672.3	1852.0	2163.7	2502.9	3005.3	3711.3	4850.0	5310.2	5669.6
22.5°	1435.7	1424.7	1426.6	1578.8	1797.0	2284.7	2838.5	3836.0	5277.2	5908.0	6150.0
25°	1373.4	1344.1	1325.7	1358.7	1556.8	2026.2	2711.9	4001.0	5737.4	6401.2	6698.3
27.5°	1340.4	1289.0	1252.4	1257.9	1402.7	1896.0	2633.1	4072.5	6194.0	7088.8	7193.4
30°	1327.6	1263.4	1210.2	1191.9	1287.2	1714.4	2464.4	4195.4	6602.9	7466.6	7556.4
32.5°	1281.7	1202.9	1151.5	1135.0	1173.5	1554.9	2343.4	4283.4	6964.1	7877.3	7846.1
35°	1228.5	1162.5	1098.3	1067.2	1094.7	1452.2	2246.2	4241.2	7389.6	8196.4	8179.8
37.5°	1223.0	1136.9	1083.7	1032.3	1030.5	1325.7	2114.2	4281.5	7660.9	8768.4	8542.9
40°	1175.4	1120.4	1050.7	1008.5	984.7	1261.5	1985.8	4186.2	8058.8	8999.5	8777.6
42.5°	1177.2	1094.7	1034.2	984.7	960.8	1168.0	1897.8	4160.5	8198.2	9375.4	8887.6
45°	1147.9	1067.2	1015.8	957.2	944.3	1096.5	1813.5	4041.3	8443.9	9393.7	8750.1
47.5°	1118.5	1047.0	992.0	922.3	893.0	1070.8	1747.5	3942.3	8315.5	9221.4	8559.4
50°	1098.3	1015.8	964.5	915.0	832.5	1026.8	1661.3	3918.5	8135.8	8988.5	8205.5
52.5°	1063.5	990.2	937.0	898.5	766.5	986.5	1628.3	4057.8	8355.9	8814.3	8102.8
55°	1030.5	955.3	887.5	812.3	711.5	880.1	1536.6	4188.0	8676.8	9215.9	8568.6
57.5°	995.7	924.2	850.8	761.0	658.3	770.1	1441.2	4211.9	8075.3	8517.2	8134.0
60°	949.8	858.1	803.1	685.8	601.4	638.1	1142.4	3713.1	6263.7	7112.7	7125.5
62.5°	898.5	799.5	751.8	614.3	542.8	550.1	931.5	3120.8	5081.0	5887.8	6238.0
65°	830.6	735.3	678.4	568.4	500.6	476.7	682.1	2286.5	3859.8	4776.6	5174.5
67.5°	742.6	652.8	581.3	495.1	447.4	408.9	465.7	1287.2	2279.2	3207.0	3328.0
70°	649.1	572.1	496.9	425.4	372.2	344.7	341.1	570.3	1089.2	1725.5	1963.8
72.5°	511.6	456.6	396.1	342.9	308.1	267.7	243.9	236.5	368.6	702.3	970.0
75°	366.7	320.9	286.0	251.2	225.5	203.5	185.2	168.7	154.0	176.0	242.0
77.5°	231.0	214.5	187.0	177.9	163.2	157.7	150.4	141.2	130.2	122.9	122.9
80°	155.9	144.9	135.7	133.9	128.4	126.5	128.4	119.2	108.2	99.0	102.7
82.5°	104.5	102.7	100.8	99.0	100.8	102.7	106.4	104.5	95.3	89.8	91.7
85°	62.3	66.0	69.7	73.3	80.7	71.5	58.7	49.5	44.0	40.3	38.5
87.5°	23.8	33.0	29.3	27.5	29.3	27.5	25.7	23.8	20.2	18.3	18.3
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°	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6	5614.6
2.5°	6071.2	6107.8	6139.0	6131.7	6067.5	5981.3	5946.5	5768.6	5731.9	5708.1
5°	6153.7	6366.4	6412.2	6384.7	6217.9	6007.0	5801.6	5541.2	5389.1	5383.6
7.5°	6001.5	6263.7	6346.2	6408.6	6186.7	5820.0	5467.9	5077.3	4982.0	4989.3
10°	5614.6	6032.7	6236.2	6300.4	6045.5	5728.3	5240.5	4844.5	4640.9	4637.3
12.5°	5400.1	5728.3	5785.1	5875.0	5799.8	5478.9	5108.5	4664.8	4466.7	4463.1
15°	5209.4	5425.7	5442.2	5568.8	5609.1	5392.7	5143.3	4670.3	4510.7	4494.2
17.5°	5376.2	5225.9	5163.5	5180.0	5299.2	5378.1	5345.0	4982.0	4818.8	4727.1
20°	5488.1	5152.5	4963.7	4982.0	5123.2	5411.1	5645.8	5433.1	5174.5	5185.5
22.5°	5787.0	5163.5	4868.3	4848.1	5071.8	5583.4	5985.0	6003.3	5753.9	5693.4
25°	6234.4	5290.0	4839.0	4833.5	5048.0	5768.6	6381.1	6678.1	6423.2	6311.4
27.5°	6593.8	5488.1	4930.6	4949.0	5123.2	5919.0	6718.4	7112.7	6918.3	6780.8
30°	6909.1	5693.4	5059.0	4974.7	5324.9	5997.8	6863.3	7607.8	7451.9	7338.2
32.5°	7039.3	5985.0	5262.5	5123.2	5491.7	6093.2	7164.0	8088.2	7954.3	7673.8
35°	7259.4	6148.2	5372.6	5361.5	5783.3	6322.4	7305.2	8405.4	8350.4	8101.0
37.5°	7435.4	6313.2	5763.1	5642.1	6183.0	6707.4	7532.6	8843.6	8717.1	8599.7
40°	7571.1	6608.4	6128.0	6287.5	6674.4	7057.7	7741.6	8871.1	9236.0	8895.0
42.5°	7446.4	6872.5	6727.6	7109.0	7475.7	7457.4	7765.4	9083.8	9357.0	9179.2
45°	7415.2	7319.9	7675.6	8022.2	8106.5	7789.3	7594.9	8849.1	9320.4	9241.5
47.5°	7340.0	7759.9	8379.7	8944.5	8816.1	8011.2	7391.4	8807.0	9342.4	9201.2
50°	7314.4	7855.3	8900.5	9450.6	9373.5	8203.7	7296.0	8535.6	9186.5	9173.7
52.5°	7312.5	8051.5	9116.8	9725.6	9773.3	8508.1	7426.2	8673.1	9307.5	9415.7
55°	7395.1	7989.1	9089.3	9573.4	9555.1	8372.4	7440.9	8764.8	9456.1	9562.4
57.5°	6975.1	7156.7	7501.4	7884.6	7785.6	6934.8	6645.1	8102.8	8678.6	8601.6
60°	6023.5	5455.1	5066.3	5048.0	4855.5	4589.6	5438.6	7231.9	7231.9	7156.7
62.5°	5275.4	3581.1	3076.8	2933.8	3071.3	3377.6	5246.0	7033.8	6834.0	6747.8
65°	4613.4	2734.0	2224.2	2183.9	2422.2	2884.3	4743.6	5992.3	5640.3	5354.2
67.5°	2968.7	2002.3	1653.9	1582.4	1870.3	2117.8	3157.5	3685.6	3463.7	3351.9
70°	1914.3	1303.7	920.5	863.6	975.5	1305.5	2017.0	2149.0	1826.3	1751.1
72.5°	905.8	562.9	322.7	265.9	298.9	498.7	797.6	858.1	713.3	652.8
75°	287.9	207.2	132.0	113.7	108.2	128.4	183.4	141.2	102.7	100.8
77.5°	128.4	122.9	104.5	88.0	77.0	64.2	53.2	44.0	45.8	47.7
80°	106.4	97.2	86.2	77.0	64.2	49.5	38.5	29.3	29.3	31.2
82.5°	93.5	84.3	75.2	64.2	55.0	40.3	29.3	20.2	18.3	18.3
85°	40.3	47.7	51.3	55.0	44.0	33.0	20.2	12.8	11.0	11.0
87.5°	16.5	14.7	12.8	11.0	9.2	9.2	7.3	5.5	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)