

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: P530188

Luminaire Tested: **GALN-SA5B-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530188
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-SA5B-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 15601 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

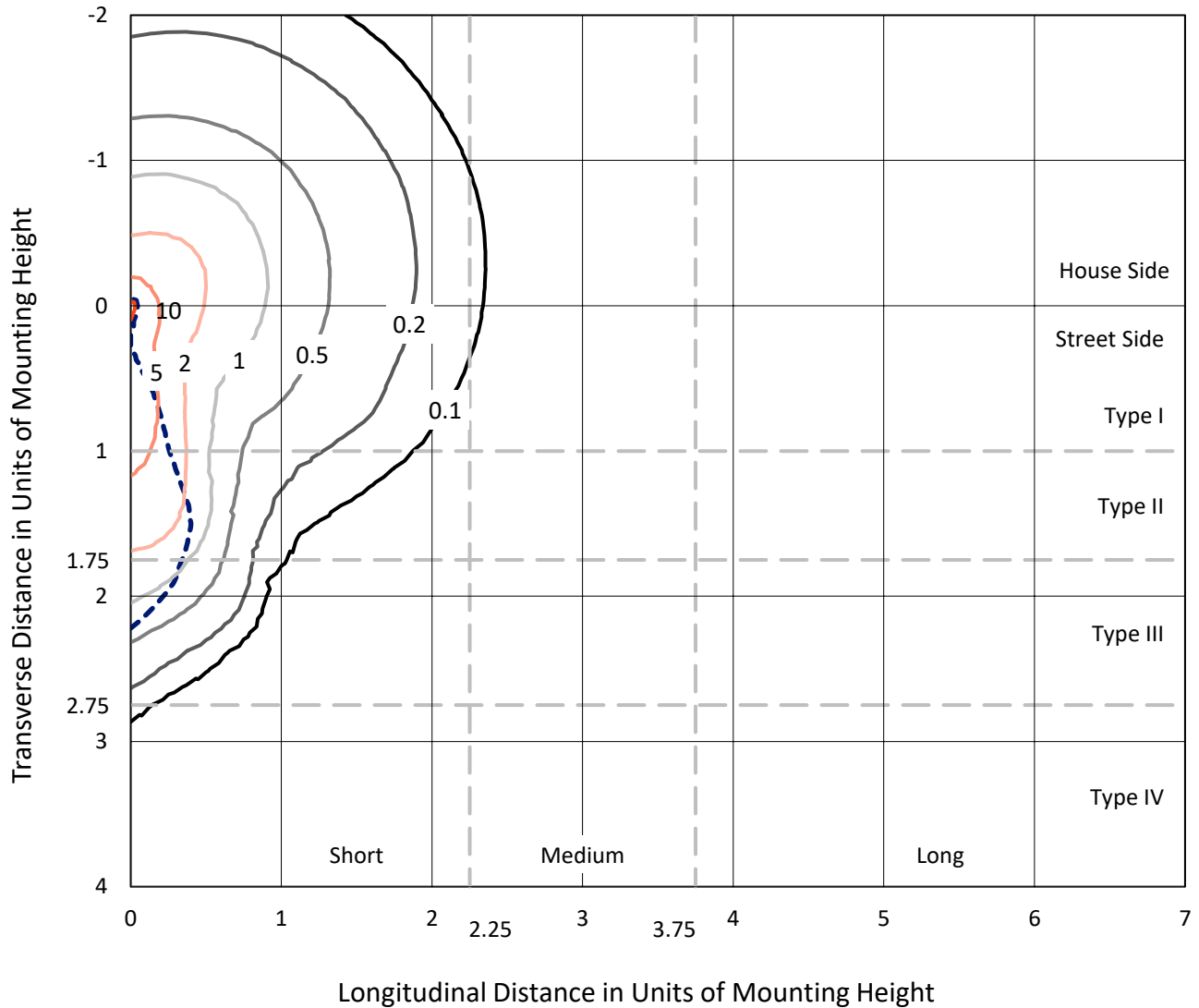
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

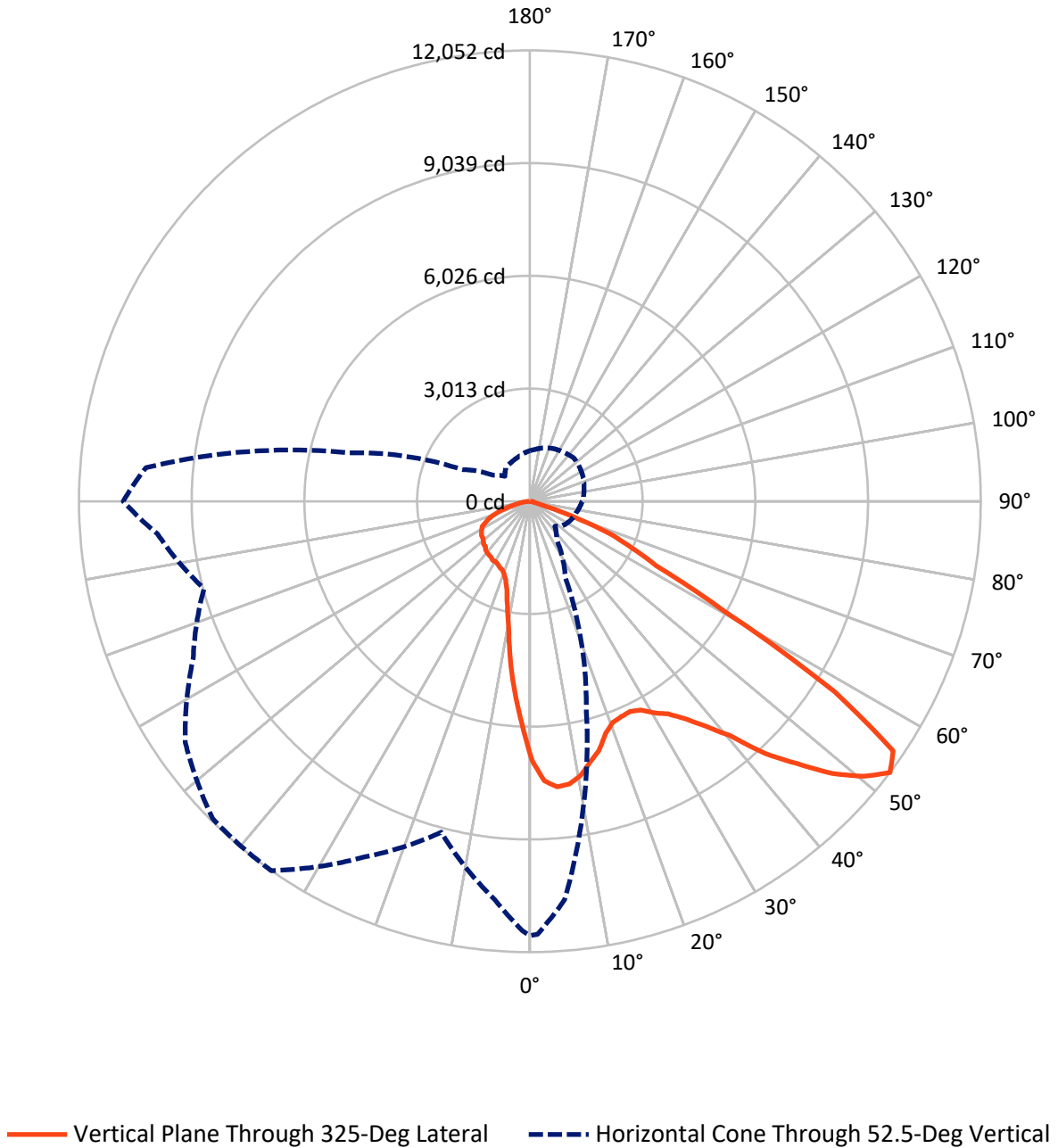
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4703.0	0.0	4703.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	10898.0	0.0	10898.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	15601.0	0.0	15601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.2	3.4
10°-20°	1145.1	7.3
20°-30°	1730.2	11.1
30°-40°	2500.2	16.0
40°-50°	3327.3	21.3
50°-60°	3721.7	23.9
60°-70°	2097.5	13.4
70°-80°	467.6	3.0
80°-90°	83.3	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°	15601.0	100.0
0°-180°	15601.0	100.0

Coefficient of Utilization



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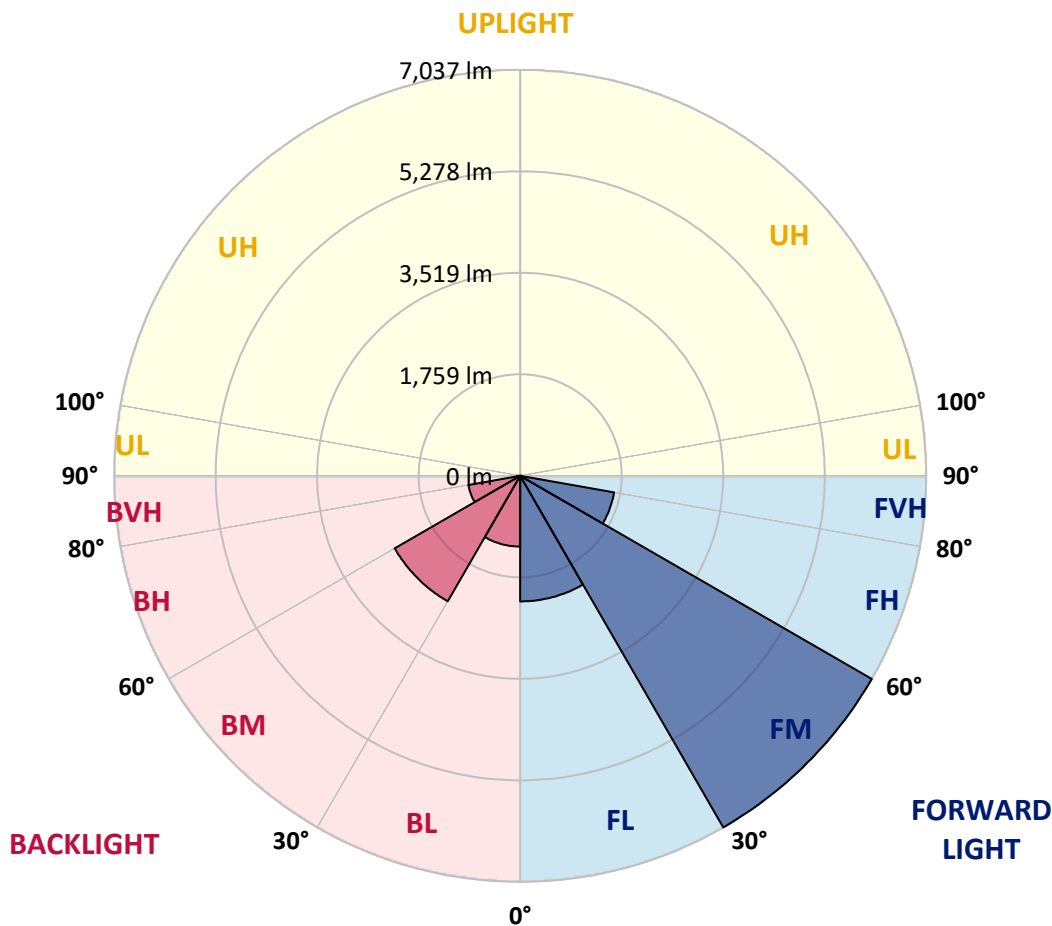
CATALOG NUMBER: GALN-SA5B-827-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.1	14.0			
FM (30°-60°)	7037.2	45.1			
FH (60°-80°)	1653.5	10.6			G1/1800
FVH (80°-90°)	30.2	0.2			G1/100
BL (0°-30°)	1226.4	7.9	B3/2500		
BM (30°-60°)	2511.9	16.1	B3/5000		
BH (60°-80°)	911.6	5.8	B2/1000		G2/1000
BVH (80°-90°)	53.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8
2.5°	7039.1	7152.2	7030.1	6813.0	6659.3	6519.1	6372.1	6342.7	6150.5	6116.6	5976.4
5°	6638.9	6614.0	6464.8	6179.9	5865.6	5580.7	5370.4	5166.9	5028.9	4868.4	4857.1
7.5°	6152.7	6008.0	5922.1	5490.2	5101.3	4653.6	4461.4	4151.6	4054.3	3909.6	3835.0
10°	5718.6	5612.3	5411.1	4979.2	4436.5	4140.3	3934.5	3767.2	3654.1	3504.9	3317.2
12.5°	5503.8	5460.8	5234.7	4565.4	4162.9	3846.3	3701.6	3538.8	3346.6	3106.9	3014.2
15°	5542.2	5397.5	5225.7	4486.2	3930.0	3624.7	3394.1	3190.6	2944.1	2715.7	2582.3
17.5°	5829.4	5718.6	5374.9	4536.0	3841.8	3400.9	2982.5	2681.8	2460.2	2254.4	2161.7
20°	6394.7	6234.2	5847.5	4599.3	3651.9	3088.8	2609.4	2238.6	2001.2	1892.6	1861.0
22.5°	7021.1	6926.1	6308.8	4741.8	3500.4	2799.4	2213.7	1842.9	1754.7	1725.3	1784.1
25°	7783.1	7536.6	7025.6	4974.7	3382.8	2552.9	1879.1	1673.3	1628.1	1657.5	1725.3
27.5°	8361.9	8296.4	7527.6	5194.0	3222.2	2256.7	1691.4	1555.7	1569.3	1598.7	1662.0
30°	9049.4	8717.0	8013.7	5345.5	3077.5	2053.2	1560.2	1524.1	1537.6	1587.4	1619.0
32.5°	9463.2	9338.8	8319.0	5573.9	2910.2	1876.8	1458.5	1424.6	1444.9	1519.5	1594.2
35°	9990.0	9743.5	8696.6	5632.7	2792.6	1806.7	1386.1	1361.2	1408.7	1460.7	1544.4
37.5°	10605.1	10435.5	9218.9	5592.0	2729.3	1734.3	1325.1	1313.8	1347.7	1420.0	1517.3
40°	10969.1	10917.1	9492.6	5616.8	2629.8	1671.0	1255.0	1268.5	1338.6	1395.2	1490.1
42.5°	11319.6	10980.4	9897.3	5607.8	2566.5	1585.1	1261.8	1245.9	1300.2	1365.8	1456.2
45°	11396.5	11059.6	9992.3	5544.5	2489.6	1501.4	1209.7	1216.5	1282.1	1363.5	1422.3
47.5°	11346.7	11098.0	10168.7	5526.4	2417.2	1442.7	1132.9	1214.3	1252.7	1318.3	1401.9
50°	11312.8	11299.3	10317.9	5612.3	2320.0	1349.9	1040.2	1184.9	1223.3	1288.9	1379.3
52.5°	11611.3	11581.9	10691.0	5838.4	2243.1	1250.4	945.2	1110.3	1203.0	1266.3	1354.5
55°	11792.2	11663.3	11330.9	6116.6	2114.2	1119.3	879.6	1017.5	1153.2	1209.7	1300.2
57.5°	10607.3	10519.1	10250.1	5709.6	1897.2	947.4	798.2	922.6	1085.4	1173.6	1266.3
60°	8825.5	8687.6	7997.9	4852.6	1399.7	737.2	748.5	848.0	1067.3	1101.2	1209.7
62.5°	8321.2	7979.8	7041.4	3905.1	1074.1	633.1	671.6	780.1	972.3	1028.8	1137.4
65°	6602.7	6349.5	5038.0	2819.7	719.1	549.5	612.8	703.2	838.9	949.7	1049.2
67.5°	4133.5	3891.5	2688.6	1334.1	502.0	470.3	547.2	642.2	753.0	852.5	963.3
70°	2159.5	1894.9	1241.4	481.6	346.0	384.4	456.8	547.2	655.8	737.2	823.1
72.5°	805.0	653.5	404.8	208.0	239.7	294.0	370.8	436.4	513.3	612.8	660.3
75°	124.4	106.3	104.0	126.6	162.8	212.6	264.6	330.1	398.0	461.3	492.9
77.5°	58.8	56.5	63.3	83.7	108.5	151.5	192.2	255.5	309.8	350.5	368.6
80°	38.4	36.2	40.7	56.5	81.4	113.1	153.8	196.7	246.5	280.4	275.9
82.5°	22.6	24.9	24.9	38.4	56.5	81.4	110.8	149.2	183.2	212.6	194.5
85°	13.6	11.3	11.3	22.6	38.4	65.6	92.7	63.3	65.6	65.6	74.6
87.5°	4.5	4.5	4.5	2.3	4.5	4.5	6.8	11.3	13.6	15.8	20.4
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°	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8
2.5°	5971.9	6041.9	6017.1	5928.9	5996.7	6008.0	5962.8	6118.8	6148.2	6100.7	6114.3
5°	4841.2	4859.3	4900.0	4986.0	5047.0	5119.4	5119.4	5123.9	5062.8	5216.6	5171.4
7.5°	3771.7	3783.0	3830.5	4013.6	4065.7	4203.6	4262.4	4221.7	4099.6	4047.6	4090.5
10°	3256.1	3190.6	3174.7	3197.3	3314.9	3373.7	3423.5	3409.9	3389.6	3348.8	3303.6
12.5°	2912.4	2865.0	2826.5	2772.2	2779.0	2835.6	2874.0	2842.3	2851.4	2860.4	2874.0
15°	2539.3	2505.4	2485.1	2403.7	2394.6	2433.1	2446.6	2464.7	2498.6	2500.9	2485.1
17.5°	2143.6	2114.2	2159.5	2204.7	2173.0	2175.3	2200.2	2216.0	2206.9	2166.2	2145.9
20°	1872.3	1903.9	1949.2	1992.1	2026.0	2046.4	2055.4	2030.6	2001.2	1917.5	1915.2
22.5°	1793.1	1833.8	1872.3	1937.9	1969.5	2021.5	1974.0	1917.5	1876.8	1836.1	1788.6
25°	1734.3	1768.3	1845.1	1870.0	1931.1	1974.0	1940.1	1883.6	1813.5	1754.7	1718.5
27.5°	1691.4	1729.8	1779.6	1847.4	1894.9	1919.8	1885.8	1863.2	1790.9	1720.8	1668.8
30°	1664.2	1705.0	1795.4	1851.9	1892.6	1913.0	1854.2	1827.1	1775.0	1716.3	1671.0
32.5°	1646.2	1682.3	1759.2	1831.6	1858.7	1858.7	1867.8	1836.1	1763.7	1664.2	1625.8
35°	1587.4	1637.1	1700.4	1784.1	1833.8	1863.2	1818.0	1781.8	1734.3	1632.6	1562.5
37.5°	1553.5	1587.4	1668.8	1747.9	1790.9	1822.5	1804.4	1741.1	1677.8	1594.2	1537.6
40°	1517.3	1571.5	1643.9	1718.5	1766.0	1797.7	1784.1	1709.5	1632.6	1553.5	1515.0
42.5°	1492.4	1528.6	1603.2	1686.9	1743.4	1804.4	1763.7	1671.0	1616.8	1508.2	1465.3
45°	1472.0	1530.8	1610.0	1643.9	1702.7	1766.0	1693.6	1637.1	1573.8	1494.7	1458.5
47.5°	1447.2	1501.4	1553.5	1643.9	1671.0	1700.4	1686.9	1596.4	1542.1	1456.2	1431.3
50°	1438.1	1458.5	1553.5	1603.2	1641.6	1671.0	1634.9	1567.0	1515.0	1426.8	1372.6
52.5°	1401.9	1440.4	1501.4	1567.0	1614.5	1650.7	1591.9	1548.9	1478.8	1386.1	1352.2
55°	1356.7	1379.3	1487.9	1555.7	1580.6	1605.5	1582.8	1512.7	1440.4	1345.4	1311.5
57.5°	1297.9	1349.9	1438.1	1533.1	1564.8	1578.3	1542.1	1485.6	1395.2	1311.5	1257.2
60°	1236.9	1291.1	1388.4	1465.3	1496.9	1546.7	1492.4	1458.5	1354.5	1261.8	1203.0
62.5°	1175.8	1236.9	1309.2	1406.5	1433.6	1454.0	1440.4	1392.9	1309.2	1205.2	1132.9
65°	1103.5	1148.7	1239.1	1288.9	1307.0	1354.5	1307.0	1288.9	1214.3	1114.8	1053.7
67.5°	994.9	1033.4	1112.5	1160.0	1173.6	1193.9	1191.7	1171.3	1087.6	1019.8	965.5
70°	870.6	904.5	954.2	1010.8	1017.5	1042.4	1019.8	1015.3	961.0	868.3	838.9
72.5°	698.7	730.4	795.9	820.8	823.1	832.1	820.8	805.0	791.4	694.2	664.8
75°	535.9	554.0	585.7	608.3	608.3	619.6	612.8	597.0	560.8	499.7	470.3
77.5°	373.1	391.2	431.9	445.5	443.2	447.7	427.4	411.5	357.3	325.6	300.7
80°	271.3	282.7	303.0	312.0	314.3	321.1	296.2	282.7	251.0	214.8	203.5
82.5°	196.7	203.5	205.8	217.1	217.1	205.8	199.0	185.4	162.8	140.2	131.2
85°	81.4	83.7	85.9	99.5	101.8	122.1	113.1	106.3	92.7	79.1	72.4
87.5°	20.4	22.6	29.4	24.9	29.4	29.4	31.7	36.2	36.2	29.4	29.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8
2.5°	6166.3	6184.4	6415.0	6444.4	6557.5	6672.8	6905.7	7073.1	7208.7	7296.9	7321.8
5°	5218.9	5334.2	5440.5	5612.3	5768.3	5989.9	6245.5	6562.0	6960.0	7163.5	7244.9
7.5°	4086.0	4221.7	4375.4	4542.8	4771.1	5169.1	5510.6	5876.9	6385.7	6595.9	6914.8
10°	3335.3	3486.8	3690.3	3819.2	4095.0	4474.9	4872.9	5295.7	5781.9	6084.9	6453.5
12.5°	2948.6	3073.0	3260.7	3532.0	3737.8	3984.2	4280.5	4814.1	5510.6	5797.7	6051.0
15°	2521.2	2659.2	2876.3	3177.0	3423.5	3717.4	4049.8	4631.0	5372.6	5815.8	6030.6
17.5°	2168.5	2268.0	2496.4	2756.4	3039.1	3360.2	3837.3	4621.9	5517.3	6084.9	6435.4
20°	1924.3	1937.9	2062.2	2283.8	2668.2	3086.5	3706.1	4576.7	5980.9	6548.5	6991.7
22.5°	1770.5	1757.0	1759.2	1946.9	2216.0	2817.5	3500.4	4730.4	6507.8	7285.6	7584.1
25°	1693.6	1657.5	1634.9	1675.6	1919.8	2498.6	3344.3	4934.0	7075.3	7893.9	8260.2
27.5°	1652.9	1589.6	1544.4	1551.2	1729.8	2338.1	3247.1	5022.1	7638.4	8741.8	8870.7
30°	1637.1	1558.0	1492.4	1469.8	1587.4	2114.2	3039.1	5173.6	8142.6	9207.6	9318.4
32.5°	1580.6	1483.4	1420.0	1399.7	1447.2	1917.5	2889.8	5282.2	8588.1	9714.2	9675.7
35°	1515.0	1433.6	1354.5	1316.0	1349.9	1790.9	2770.0	5230.2	9112.7	10107.6	10087.3
37.5°	1508.2	1401.9	1336.4	1273.1	1270.8	1634.9	2607.2	5279.9	9447.3	10813.1	10535.0
40°	1449.4	1381.6	1295.7	1243.7	1214.3	1555.7	2448.9	5162.3	9938.0	11098.0	10824.4
42.5°	1451.7	1349.9	1275.3	1214.3	1184.9	1440.4	2340.4	5130.7	10109.9	11561.6	10960.1
45°	1415.5	1316.0	1252.7	1180.4	1164.5	1352.2	2236.3	4983.7	10412.9	11584.2	10790.5
47.5°	1379.3	1291.1	1223.3	1137.4	1101.2	1320.5	2154.9	4861.6	10254.6	11371.6	10555.3
50°	1354.5	1252.7	1189.4	1128.3	1026.6	1266.3	2048.7	4832.2	10033.0	11084.4	10118.9
52.5°	1311.5	1221.1	1155.5	1108.0	945.2	1216.5	2008.0	5004.1	10304.3	10869.6	9992.3
55°	1270.8	1178.1	1094.4	1001.7	877.3	1085.4	1894.9	5164.6	10700.0	11364.8	10566.6
57.5°	1227.8	1139.6	1049.2	938.4	811.8	949.7	1777.3	5194.0	9958.4	10503.3	10030.7
60°	1171.3	1058.2	990.4	845.7	741.7	786.9	1408.7	4578.9	7724.3	8771.2	8787.1
62.5°	1108.0	985.9	927.1	757.5	669.3	678.4	1148.7	3848.6	6265.8	7260.7	7692.6
65°	1024.3	906.7	836.6	701.0	617.3	587.9	841.2	2819.7	4759.8	5890.4	6381.1
67.5°	915.8	805.0	716.8	610.5	551.7	504.2	574.3	1587.4	2810.7	3954.9	4104.1
70°	800.5	705.5	612.8	524.6	459.0	425.1	420.6	703.2	1343.2	2127.8	2421.8
72.5°	630.9	563.0	488.4	422.8	379.9	330.1	300.7	291.7	454.5	866.0	1196.2
75°	452.2	395.7	352.7	309.8	278.1	251.0	228.4	208.0	189.9	217.1	298.5
77.5°	284.9	264.6	230.6	219.3	201.2	194.5	185.4	174.1	160.5	151.5	151.5
80°	192.2	178.6	167.3	165.1	158.3	156.0	158.3	147.0	133.4	122.1	126.6
82.5°	128.9	126.6	124.4	122.1	124.4	126.6	131.2	128.9	117.6	110.8	113.1
85°	76.9	81.4	85.9	90.4	99.5	88.2	72.4	61.1	54.3	49.7	47.5
87.5°	29.4	40.7	36.2	33.9	36.2	33.9	31.7	29.4	24.9	22.6	22.6
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°	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8	6923.8
2.5°	7486.9	7532.1	7570.5	7561.5	7482.3	7376.1	7333.1	7113.8	7068.5	7039.1
5°	7588.6	7850.9	7907.4	7873.5	7667.8	7407.7	7154.5	6833.4	6645.7	6638.9
7.5°	7400.9	7724.3	7826.0	7902.9	7629.3	7177.1	6742.9	6261.3	6143.7	6152.7
10°	6923.8	7439.4	7690.4	7769.5	7455.2	7064.0	6462.5	5974.1	5723.1	5718.6
12.5°	6659.3	7064.0	7134.1	7244.9	7152.2	6756.5	6299.7	5752.5	5508.3	5503.8
15°	6424.1	6690.9	6711.3	6867.3	6917.0	6650.2	6342.7	5759.3	5562.6	5542.2
17.5°	6629.9	6444.4	6367.6	6387.9	6534.9	6632.1	6591.4	6143.7	5942.5	5829.4
20°	6767.8	6354.0	6121.1	6143.7	6317.8	6672.8	6962.3	6700.0	6381.1	6394.7
22.5°	7136.4	6367.6	6003.5	5978.6	6254.5	6885.4	7380.6	7403.2	7095.7	7021.1
25°	7688.1	6523.6	5967.3	5960.5	6225.1	7113.8	7869.0	8235.3	7921.0	7783.1
27.5°	8131.3	6767.8	6080.4	6103.0	6317.8	7299.2	8285.1	8771.2	8531.5	8361.9
30°	8520.2	7021.1	6238.7	6134.7	6566.5	7396.4	8463.7	9381.8	9189.6	9049.4
32.5°	8680.8	7380.6	6489.7	6317.8	6772.3	7514.0	8834.5	9974.2	9809.1	9463.2
35°	8952.1	7581.8	6625.3	6611.8	7131.9	7796.6	9008.7	10365.4	10297.5	9990.0
37.5°	9169.2	7785.3	7107.0	6957.7	7624.8	8271.5	9289.0	10905.8	10749.8	10605.1
40°	9336.5	8149.4	7557.0	7753.7	8230.8	8703.4	9546.8	10939.7	11389.7	10969.1
42.5°	9182.8	8475.0	8296.4	8766.7	9218.9	9196.3	9576.2	11202.0	11538.9	11319.6
45°	9144.3	9026.7	9465.4	9892.8	9996.8	9605.6	9365.9	10912.6	11493.7	11396.5
47.5°	9051.6	9569.4	10333.7	11030.2	10871.9	9879.2	9114.9	10860.6	11520.9	11346.7
50°	9020.0	9687.0	10975.9	11654.3	11559.3	10116.6	8997.3	10525.9	11328.7	11312.8
52.5°	9017.7	9929.0	11242.7	11993.4	12052.2	10492.0	9157.9	10695.5	11477.9	11611.3
55°	9119.5	9852.1	11208.8	11805.8	11783.2	10324.7	9176.0	10808.6	11661.1	11792.2
57.5°	8601.6	8825.5	9250.6	9723.2	9601.1	8551.9	8194.6	9992.3	10702.3	10607.3
60°	7428.1	6727.1	6247.7	6225.1	5987.7	5659.8	6706.7	8918.2	8918.2	8825.5
62.5°	6505.5	4416.1	3794.3	3617.9	3787.5	4165.1	6469.3	8674.0	8427.5	8321.2
65°	5689.2	3371.5	2742.8	2693.1	2987.1	3556.9	5849.7	7389.6	6955.5	6602.7
67.5°	3660.9	2469.2	2039.6	1951.4	2306.4	2611.7	3893.8	4545.0	4271.4	4133.5
70°	2360.7	1607.7	1135.1	1065.0	1203.0	1610.0	2487.3	2650.1	2252.2	2159.5
72.5°	1117.0	694.2	398.0	327.9	368.6	615.0	983.6	1058.2	879.6	805.0
75°	355.0	255.5	162.8	140.2	133.4	158.3	226.1	174.1	126.6	124.4
77.5°	158.3	151.5	128.9	108.5	95.0	79.1	65.6	54.3	56.5	58.8
80°	131.2	119.8	106.3	95.0	79.1	61.1	47.5	36.2	36.2	38.4
82.5°	115.3	104.0	92.7	79.1	67.8	49.7	36.2	24.9	22.6	22.6
85°	49.7	58.8	63.3	67.8	54.3	40.7	24.9	15.8	13.6	13.6
87.5°	20.4	18.1	15.8	13.6	11.3	11.3	9.0	6.8	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)