

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: P526676

Luminaire Tested: **GALN-SA1C-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526676
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-SA1C-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 3895 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

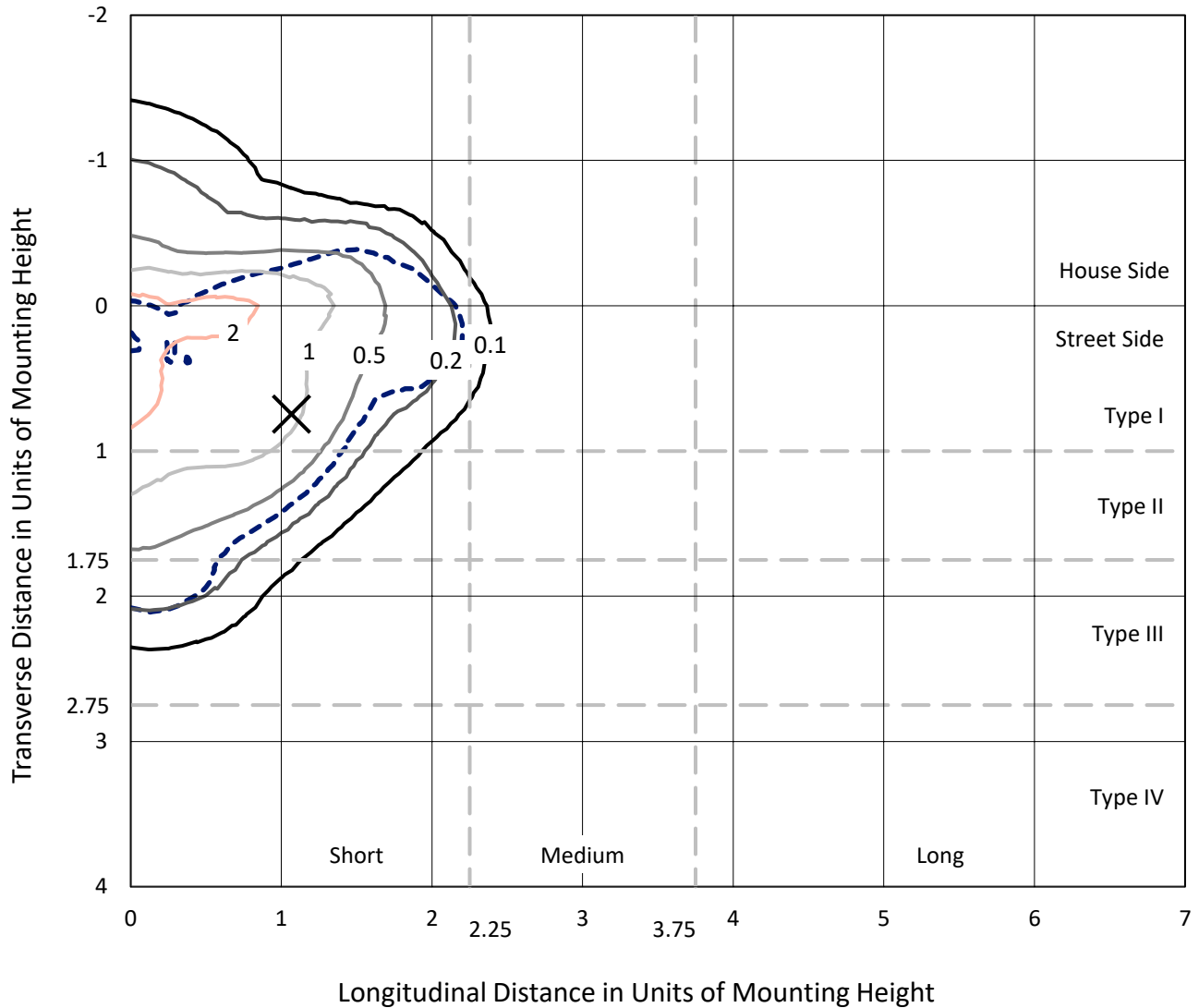
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

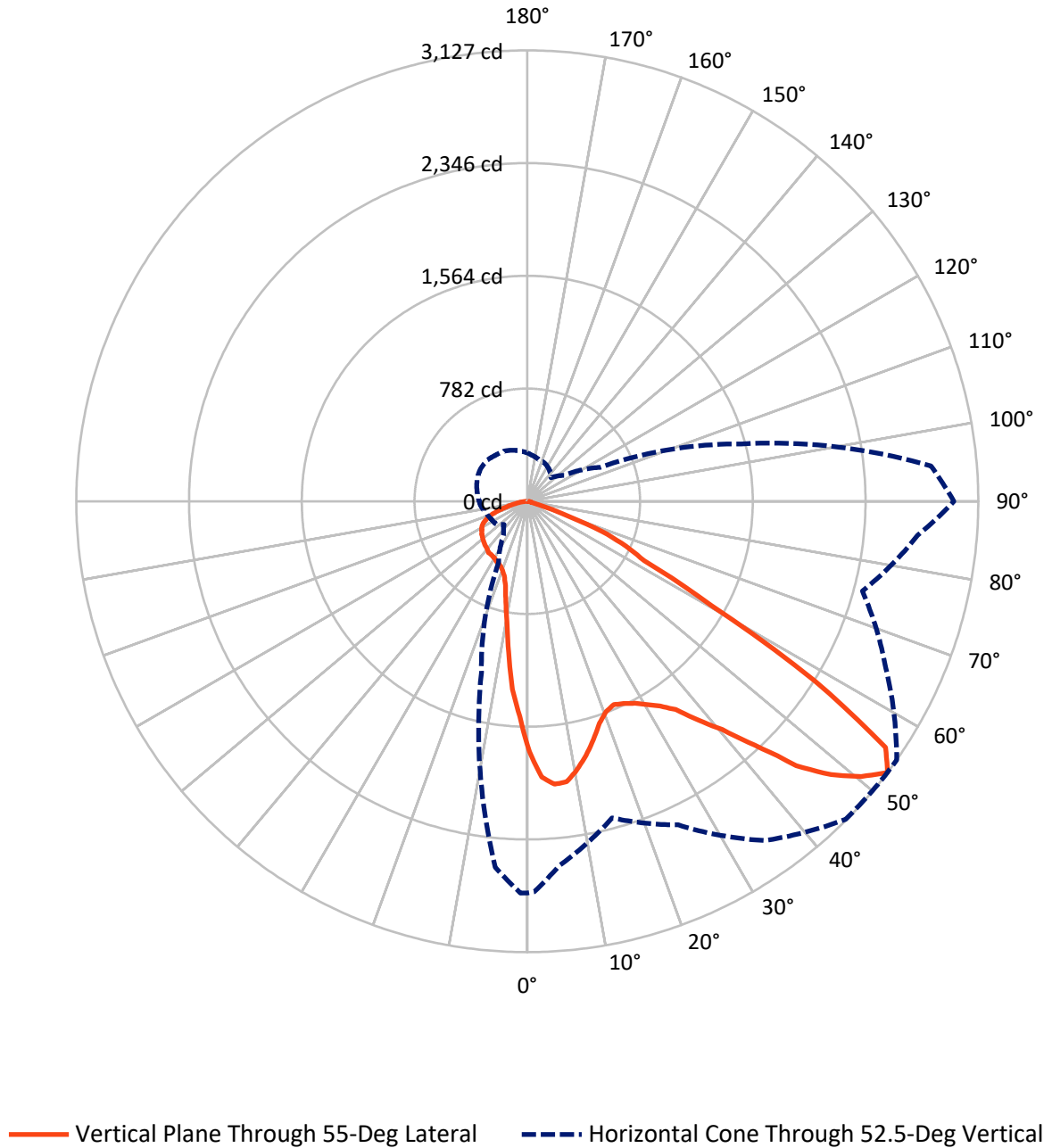
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1188.2	0.0	1188.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2706.8	0.0	2706.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	3895.0	0.0	3895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.4
10°-20°	286.2	7.3
20°-30°	434.0	11.1
30°-40°	627.0	16.1
40°-50°	837.9	21.5
50°-60°	935.3	24.0
60°-70°	513.0	13.2
70°-80°	110.9	2.8
80°-90°	17.9	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°	3895.0	100.0
0°-180°	3895.0	100.0

Coefficient of Utilization



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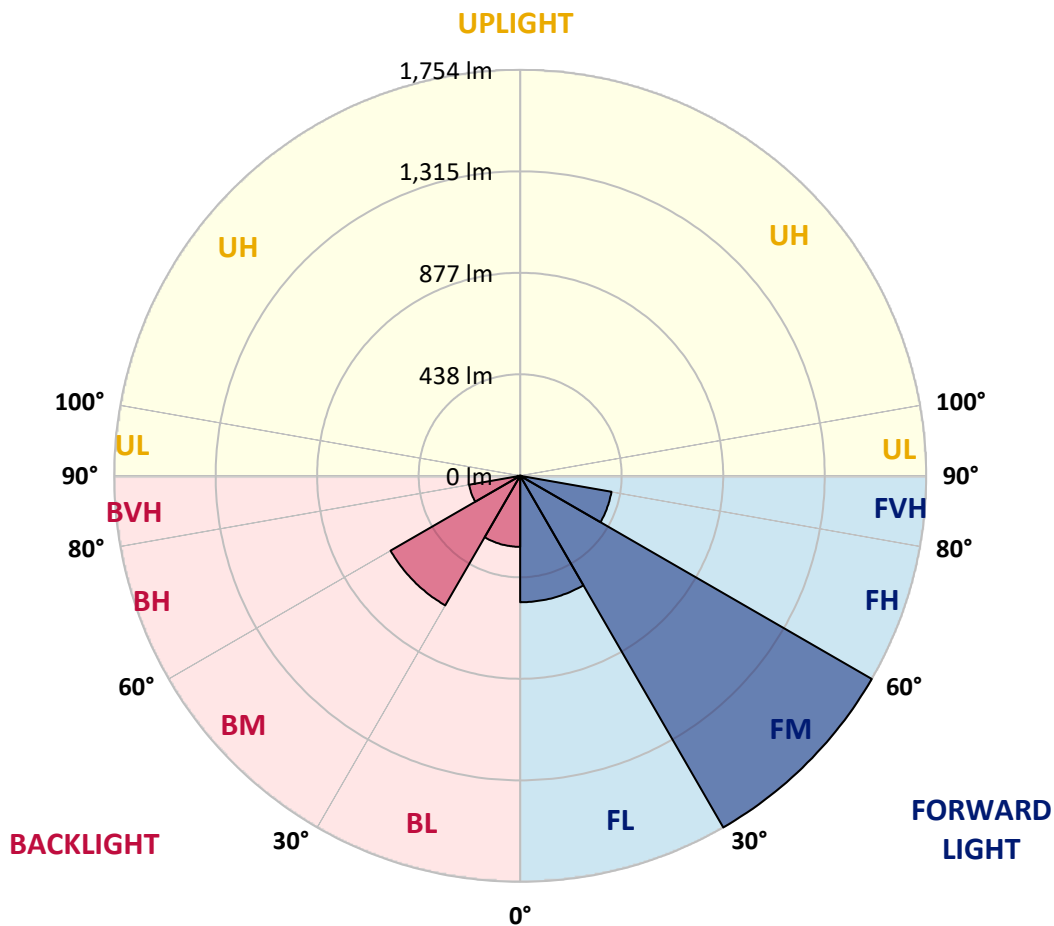
CATALOG NUMBER: GALN-SA1C-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.1	14.0			
FM (30°-60°)	1753.7	45.0			
FH (60°-80°)	400.3	10.3			G0/660
FVH (80°-90°)	6.6	0.2			G0/10
BL (0°-30°)	306.8	7.9	B1/500		
BM (30°-60°)	646.5	16.6	B1/1000		
BH (60°-80°)	223.6	5.7	B1/500		G1/500
BVH (80°-90°)	11.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1823.3	1813.1	1822.2	1865.4	1890.5	1907.5	1918.3	1916.6	1875.7	1835.9	1835.9
5°	1769.9	1756.8	1775.6	1873.4	1971.8	1980.3	1994.5	1971.2	1910.9	1838.1	1747.1
7.5°	1615.2	1624.9	1656.1	1784.7	1912.6	1976.9	1994.0	1964.4	1866.6	1730.6	1597.0
10°	1481.5	1504.3	1576.5	1715.3	1833.0	1916.6	1935.4	1893.9	1816.5	1649.9	1530.5
12.5°	1435.5	1421.3	1501.4	1640.2	1752.8	1797.8	1806.3	1809.1	1756.8	1608.9	1463.3
15°	1429.8	1438.9	1501.4	1606.7	1676.0	1678.3	1692.5	1714.7	1721.5	1636.8	1494.6
17.5°	1511.7	1500.9	1565.1	1648.7	1615.8	1582.8	1586.2	1618.0	1674.3	1660.7	1593.0
20°	1632.8	1657.3	1707.9	1699.4	1610.6	1527.0	1527.6	1557.8	1668.7	1759.7	1730.1
22.5°	1834.2	1858.0	1895.6	1792.6	1610.6	1510.5	1491.2	1532.2	1705.1	1877.4	1884.8
25°	2017.9	2061.6	2071.9	1950.7	1691.4	1525.9	1513.4	1553.8	1741.5	1992.3	2062.2
27.5°	2185.1	2201.0	2245.9	2052.5	1736.3	1536.1	1535.0	1586.8	1787.5	2049.7	2220.9
30°	2317.0	2315.3	2340.9	2116.8	1808.0	1593.6	1538.4	1636.2	1847.8	2144.7	2367.6
32.5°	2406.9	2426.2	2480.2	2206.1	1838.1	1648.2	1605.0	1694.2	1921.2	2189.6	2471.1
35°	2565.0	2598.5	2530.3	2255.6	1933.7	1702.2	1651.6	1773.3	1957.6	2238.5	2598.0
37.5°	2714.0	2688.4	2619.0	2282.3	1995.7	1802.3	1755.1	1926.3	2070.7	2344.9	2682.1
40°	2809.5	2809.0	2685.5	2303.9	2039.5	1955.3	1952.5	2081.6	2209.5	2412.0	2776.5
42.5°	2851.0	2890.9	2712.8	2301.7	2131.6	2140.7	2198.1	2313.6	2307.9	2425.6	2774.3
44°	2907.9	2931.8	2760.0	2306.8	2193.0	2265.8	2401.2	2474.5	2393.8	2418.2	2771.4
45°	2905.6	2907.3	2692.9	2313.6	2245.3	2370.5	2491.6	2615.6	2469.4	2402.3	2809.0
47.5°	2839.1	2819.8	2636.1	2263.0	2408.6	2646.9	2758.9	2834.0	2562.7	2368.2	2762.3
50°	2707.7	2685.5	2497.9	2241.4	2442.7	2818.6	2973.3	3000.6	2647.4	2334.6	2716.3
52.5°	2716.8	2710.6	2537.1	2273.8	2476.8	2872.7	3120.6	3127.4	2743.6	2405.2	2716.8
55°	2879.5	2857.9	2649.7	2314.2	2451.8	2809.5	3026.8	3014.8	2711.1	2362.5	2766.9
57.5°	2634.9	2649.1	2493.9	2154.4	2145.8	2284.0	2379.6	2350.0	2262.4	2132.2	2574.1
60°	2125.9	2166.3	2181.1	1801.7	1619.2	1548.1	1519.6	1467.3	1482.1	1751.7	2261.3
62.5°	1823.3	1821.1	1913.8	1633.4	1060.7	912.2	898.6	910.5	1081.2	1724.4	2214.6
65°	1445.7	1484.4	1512.8	1384.3	839.4	677.4	676.8	752.4	935.6	1441.2	1788.1
67.5°	917.9	968.5	1003.8	885.5	561.3	482.3	469.2	560.2	648.4	945.2	1076.6
70°	517.5	541.4	557.4	510.7	357.2	250.2	235.5	257.1	391.9	612.0	638.1
72.5°	199.6	210.4	232.0	233.7	134.8	80.8	65.4	78.5	164.9	242.3	230.9
75°	30.7	33.0	46.6	55.7	38.7	29.6	31.3	32.4	46.1	62.6	52.3
77.5°	14.8	14.8	14.2	16.5	19.3	21.0	22.7	25.0	27.3	30.1	29.0
80°	9.7	9.7	9.7	11.4	14.2	17.1	19.3	20.5	21.6	23.9	22.7
82.5°	6.3	6.3	6.3	8.5	11.4	14.2	15.4	18.2	20.5	23.9	22.2
85°	3.4	3.4	3.4	5.7	8.5	11.9	11.4	9.1	5.1	0.6	1.1
87.5°	1.1	1.1	1.1	1.1	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°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1788.1	1761.9	1759.7	1706.2	1658.4	1635.1	1616.3	1564.0	1575.4	1545.2	1544.7
5°	1701.6	1648.2	1561.7	1490.6	1419.6	1405.3	1343.3	1289.3	1291.0	1252.3	1259.2
7.5°	1546.4	1509.4	1404.2	1292.7	1198.3	1131.2	1072.6	1037.4	992.4	977.1	969.1
10°	1448.0	1402.5	1284.2	1144.3	1038.5	1002.7	946.4	915.1	869.0	846.3	830.3
12.5°	1404.8	1338.2	1190.4	1048.2	977.6	940.7	892.9	836.0	781.4	760.4	731.4
15°	1409.3	1329.7	1163.1	1009.5	924.8	853.1	810.4	747.3	691.6	654.6	633.6
17.5°	1478.1	1381.4	1175.6	979.9	858.2	768.4	684.8	616.5	572.1	544.3	537.5
20°	1640.8	1509.4	1196.6	932.1	791.7	679.6	576.7	505.6	471.5	470.9	471.5
22.5°	1776.1	1645.9	1239.3	903.7	725.1	565.9	463.5	440.8	433.9	448.2	449.9
25°	1958.7	1799.5	1312.6	888.9	663.7	482.3	419.2	410.6	410.1	428.3	428.8
27.5°	2145.8	1933.7	1356.4	845.7	601.1	439.1	392.4	390.7	399.8	419.2	417.4
30°	2273.2	2046.3	1435.5	793.9	527.2	401.0	381.6	383.9	396.4	411.2	413.5
32.5°	2421.7	2157.2	1455.9	765.5	481.7	369.1	355.5	360.6	376.5	399.8	412.3
35°	2591.7	2235.7	1487.2	726.8	464.7	344.7	337.8	343.5	362.8	378.2	391.9
37.5°	2717.4	2374.4	1492.9	696.7	445.9	331.0	320.2	339.0	350.3	371.9	378.8
40°	2810.7	2475.1	1507.7	677.9	431.1	313.4	313.4	325.9	341.2	361.1	374.8
42.5°	2870.4	2548.5	1518.5	660.9	402.7	308.3	305.4	317.9	338.4	357.7	364.0
44°	2906.8	2579.8	1507.7	644.9	394.7	302.0	302.0	312.8	328.7	351.5	358.9
45°	2915.9	2619.0	1483.8	644.4	385.0	294.6	293.5	313.9	324.7	352.6	357.2
47.5°	2951.1	2667.3	1486.7	626.2	361.7	277.0	296.9	306.0	315.6	340.1	355.5
50°	2950.0	2697.5	1480.4	599.4	344.7	257.1	290.1	300.3	310.0	335.0	341.2
52.5°	2958.0	2810.1	1537.8	556.8	313.9	231.5	267.3	290.1	302.0	323.0	336.1
55°	2954.0	2874.4	1594.7	524.9	270.7	216.1	248.0	274.7	291.8	313.9	320.2
57.5°	2698.1	2540.5	1475.9	465.2	224.1	197.9	220.7	258.8	280.4	303.1	311.1
60°	2204.4	1958.1	1217.1	342.4	184.3	182.0	205.3	253.7	262.8	282.7	296.3
62.5°	2037.2	1717.6	965.1	261.6	157.5	166.6	189.4	229.2	243.4	267.9	280.4
65°	1594.2	1140.9	597.7	176.9	138.8	149.6	171.2	200.8	224.1	246.8	261.6
67.5°	944.1	623.3	295.7	124.0	121.1	132.5	154.7	176.9	203.6	228.6	236.0
70°	514.1	306.5	126.3	94.4	102.9	113.2	134.8	150.1	175.7	195.1	207.6
72.5°	164.9	93.3	63.1	70.0	78.5	90.4	103.5	122.3	140.5	151.9	162.1
75°	39.8	39.2	44.9	48.9	56.9	66.0	76.8	86.4	100.7	111.5	120.6
77.5°	27.9	30.1	34.7	40.4	43.2	46.6	53.5	60.9	67.1	75.1	80.8
80°	21.6	23.3	26.7	29.6	32.4	35.3	38.7	41.5	45.5	50.6	53.5
82.5°	20.5	21.6	25.0	26.7	25.6	25.0	27.3	28.4	29.0	30.7	32.4
85°	1.7	0.0	1.1	4.0	9.7	14.2	15.4	15.4	14.8	15.9	15.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.3	1.7
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°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1537.8	1518.5	1525.9	1535.0	1521.9	1491.8	1499.7	1496.3	1527.0	1524.8	1555.5
5°	1289.3	1259.2	1262.6	1306.9	1292.7	1308.1	1277.4	1273.4	1279.1	1281.9	1287.0
7.5°	986.7	982.8	1016.9	1054.4	1072.1	1053.9	1023.7	1016.9	1010.6	998.1	1026.6
10°	805.3	806.5	804.2	832.6	852.5	848.5	830.3	828.1	816.1	811.6	827.5
12.5°	718.9	703.5	696.1	687.0	702.4	712.6	704.7	699.0	699.5	705.2	707.5
15°	635.3	625.6	609.7	599.4	606.8	601.7	598.9	610.2	607.4	606.3	619.9
17.5°	541.4	549.4	548.3	536.9	546.5	542.6	542.0	534.0	523.2	515.3	519.8
20°	479.4	494.2	505.6	506.2	511.3	510.7	502.2	477.7	469.8	468.1	469.2
22.5°	457.3	465.2	478.9	498.2	498.2	489.1	478.9	450.4	443.0	435.1	431.7
25°	439.6	455.0	472.6	474.9	484.0	475.5	459.0	444.7	429.4	418.6	418.6
27.5°	430.5	447.6	460.7	464.7	477.2	470.3	453.3	435.1	416.9	416.3	406.6
30°	426.5	442.5	451.0	460.7	466.4	455.6	450.4	431.1	412.9	408.3	392.4
32.5°	414.6	437.4	453.3	451.0	455.6	451.0	443.6	427.7	407.2	397.0	395.3
35°	401.0	423.7	440.8	452.7	455.6	445.9	441.3	419.7	391.9	386.7	369.1
37.5°	393.6	407.2	428.3	447.6	451.6	446.5	431.1	408.9	381.0	375.4	360.0
40°	384.5	402.1	418.6	434.5	446.5	433.9	416.3	394.7	382.2	365.1	360.6
42.5°	377.6	397.5	411.2	428.8	442.5	426.0	405.5	390.7	373.1	361.7	348.6
44°	375.4	393.6	402.7	424.3	435.6	423.1	406.1	390.7	370.2	360.0	348.6
45°	367.4	392.4	402.1	421.4	431.1	420.9	399.2	383.9	369.1	356.6	344.7
47.5°	359.4	376.5	393.0	408.3	415.2	411.8	393.6	374.8	357.2	349.8	338.4
50°	357.2	374.2	389.6	403.8	411.8	404.9	388.4	370.2	349.8	337.8	328.2
52.5°	345.8	366.8	383.9	388.4	398.7	394.7	382.2	362.3	342.9	332.7	324.7
55°	329.3	351.5	374.8	380.5	395.3	389.0	370.2	351.5	335.0	319.6	309.4
57.5°	323.0	344.7	367.4	374.8	383.9	373.7	369.1	349.2	323.0	315.1	299.2
60°	307.1	334.4	353.2	370.2	370.8	368.0	360.0	337.3	315.6	300.9	289.5
62.5°	294.6	320.2	335.0	350.9	360.6	352.6	344.7	323.6	300.3	283.8	270.7
65°	276.4	299.7	312.2	321.9	332.7	331.6	317.9	302.6	278.1	265.0	252.5
67.5°	248.5	269.0	286.1	295.2	302.0	300.3	290.1	279.2	254.2	241.1	232.0
70°	215.0	236.0	246.8	251.9	258.8	262.2	254.2	249.1	226.9	209.9	201.3
72.5°	172.9	186.5	202.5	207.0	209.9	212.1	212.1	207.6	184.8	178.0	163.2
75°	127.4	138.2	150.1	150.1	155.3	155.8	157.0	154.1	137.1	128.0	124.6
77.5°	86.4	94.4	104.1	108.1	111.5	110.9	110.3	102.4	93.3	89.3	85.9
80°	56.3	64.3	68.8	73.9	77.3	76.8	77.9	72.2	68.2	61.4	62.6
82.5°	33.6	39.8	44.4	50.6	50.6	52.3	52.3	50.6	46.6	43.2	43.2
85°	15.9	21.0	23.9	27.9	30.1	30.7	27.3	23.3	19.3	17.6	19.3
87.5°	2.8	4.0	5.7	5.1	6.3	5.7	5.7	5.7	5.7	4.5	5.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1544.1	1572.5	1592.4	1625.4	1682.3	1727.8	1774.4	1809.1	1813.1	1823.3
5°	1305.8	1321.2	1371.8	1437.8	1484.4	1561.2	1610.6	1700.5	1734.1	1769.9
7.5°	1019.7	1044.8	1112.4	1156.8	1259.2	1355.3	1454.8	1565.7	1610.1	1615.2
10°	859.9	896.3	942.4	1013.5	1069.2	1176.1	1300.1	1423.5	1473.0	1481.5
12.5°	755.3	801.9	863.3	914.5	968.0	1061.3	1180.1	1332.5	1396.8	1435.5
15°	654.6	703.0	770.6	841.7	888.9	1000.4	1140.3	1312.1	1395.7	1429.8
17.5°	551.1	596.0	651.8	728.5	823.5	948.6	1134.0	1380.3	1471.9	1511.7
20°	462.4	487.4	552.2	631.3	750.2	895.8	1136.3	1481.0	1615.2	1632.8
22.5°	427.7	433.4	459.0	531.8	662.0	841.7	1176.7	1623.7	1776.1	1834.2
25°	401.0	399.8	406.6	455.6	597.7	820.7	1216.5	1755.1	1954.7	2017.9
27.5°	386.2	374.8	375.4	421.4	552.2	786.6	1267.7	1905.8	2157.2	2185.1
30°	378.8	376.5	369.7	388.4	502.8	735.4	1276.2	2054.3	2276.6	2317.0
32.5°	374.2	352.0	343.5	350.3	456.1	679.6	1308.1	2152.1	2424.5	2406.9
35°	351.5	331.6	325.9	332.7	423.1	648.4	1287.0	2237.4	2535.4	2565.0
37.5°	342.9	325.3	313.9	308.3	392.4	622.2	1276.2	2368.8	2642.9	2714.0
40°	335.0	316.2	302.6	296.9	368.5	587.5	1272.8	2470.0	2766.9	2809.5
42.5°	325.9	313.9	298.6	288.3	339.5	552.8	1233.6	2501.3	2805.0	2851.0
44°	323.0	304.8	288.9	285.5	328.2	535.2	1225.6	2529.7	2838.0	2907.9
45°	320.2	303.1	284.9	280.4	324.2	525.5	1214.8	2536.5	2892.6	2905.6
47.5°	312.2	301.4	283.8	271.3	315.6	504.5	1182.4	2497.9	2836.8	2839.1
50°	306.0	293.5	275.3	250.8	304.3	486.8	1197.2	2483.6	2702.6	2707.7
52.5°	299.2	280.4	270.1	228.1	285.5	472.0	1228.5	2547.9	2718.0	2716.8
55°	291.2	270.7	245.7	208.7	254.2	453.3	1304.1	2674.7	2860.1	2879.5
57.5°	278.7	261.0	225.2	191.7	218.4	417.4	1279.6	2431.9	2631.5	2634.9
60°	262.2	245.7	204.2	178.6	179.2	329.3	1144.3	1895.0	2076.4	2125.9
62.5°	246.3	237.2	186.5	159.8	152.4	262.2	967.4	1574.8	1782.4	1823.3
65°	227.5	205.3	171.2	145.6	130.8	183.7	685.3	1176.7	1390.5	1445.7
67.5°	203.6	179.7	150.7	128.0	112.0	122.8	353.8	668.8	885.5	917.9
70°	178.0	155.8	126.8	108.1	90.4	84.7	155.8	319.1	484.0	517.5
72.5°	146.2	125.7	101.2	85.3	67.7	58.6	52.3	85.3	171.8	199.6
75°	105.8	91.6	76.2	60.9	47.8	37.5	30.7	25.6	28.4	30.7
77.5°	77.9	66.5	56.3	43.2	33.6	26.7	21.0	15.9	15.4	14.8
80°	60.9	54.0	44.9	34.7	26.2	19.9	14.8	10.8	9.7	9.7
82.5°	47.8	44.4	37.0	28.4	21.6	15.9	10.8	7.4	6.3	6.3
85°	18.2	18.2	26.7	23.3	16.5	11.4	7.4	4.0	3.4	3.4
87.5°	4.5	4.5	4.5	4.5	4.0	3.4	3.4	1.7	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)