

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: P646734

Luminaire Tested: **GALN-SA1C-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646734
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-SA1C-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS 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: 4148.3 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

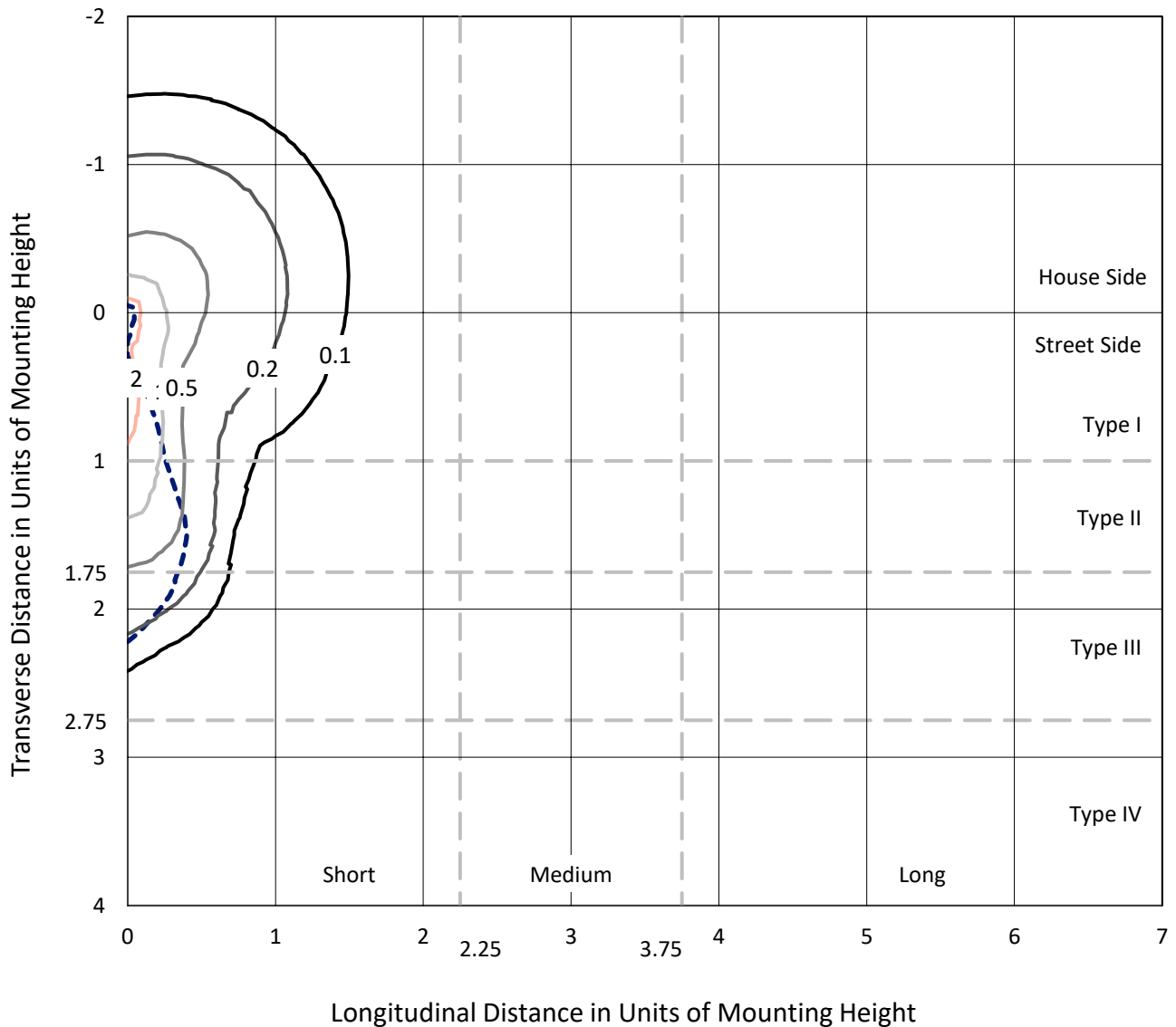
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

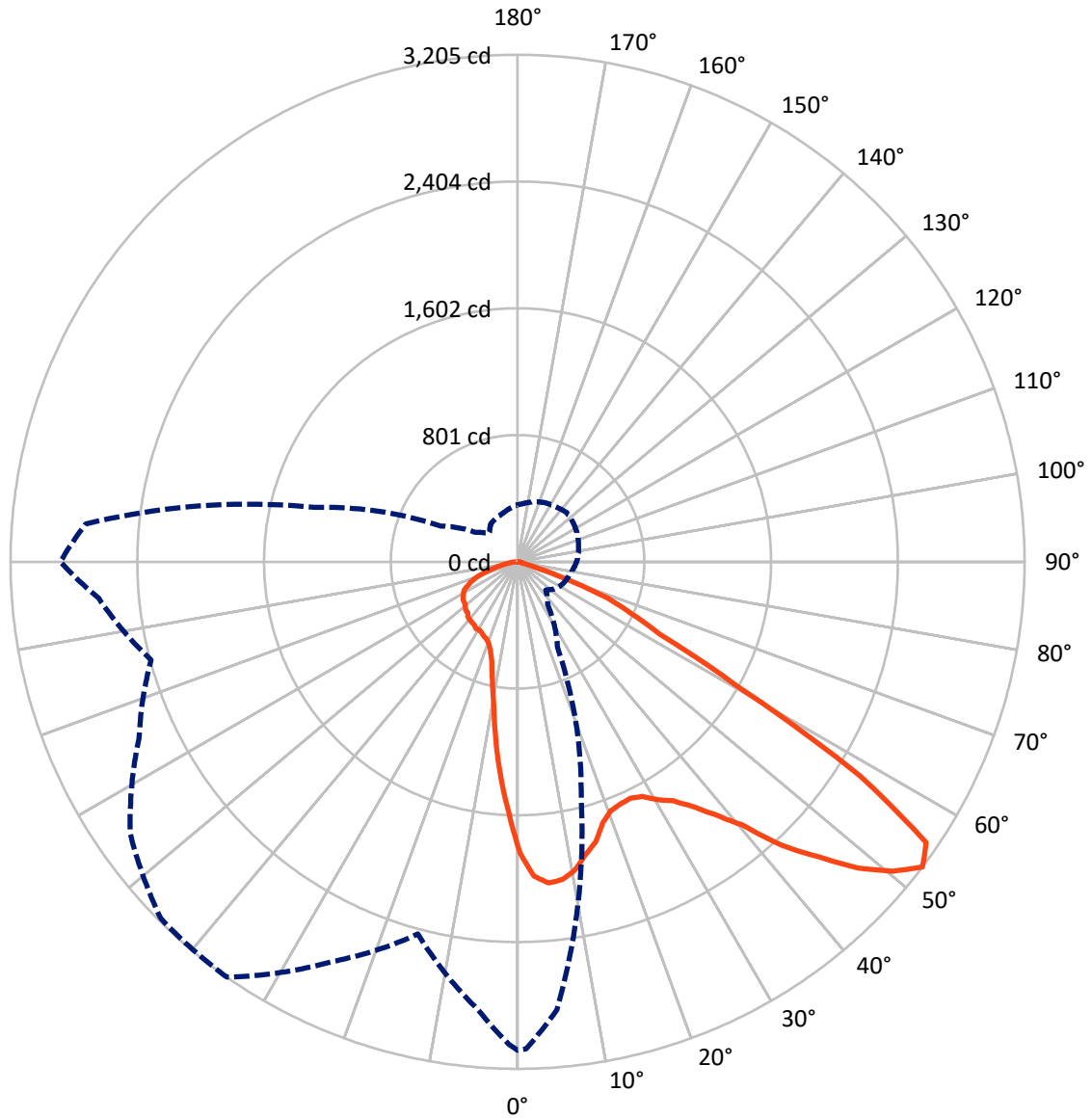
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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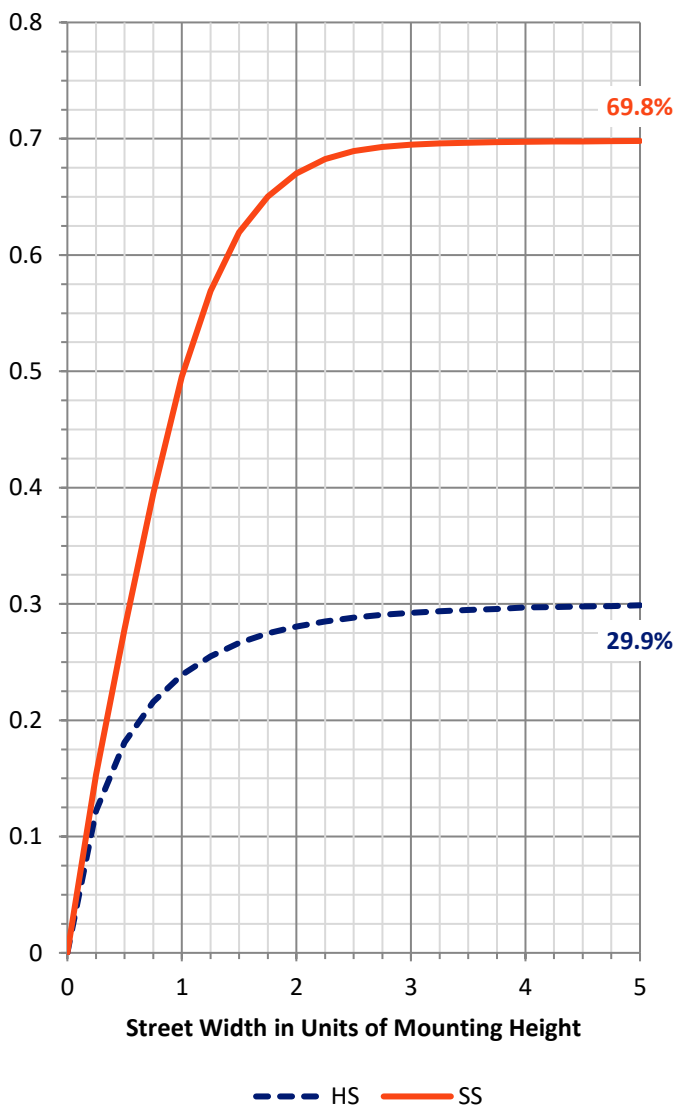
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.6	0.0	1250.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	2897.8	0.0	2897.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	4148.3	0.0	4148.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	3.4
10°-20°	304.5	7.3
20°-30°	460.1	11.1
30°-40°	664.8	16.0
40°-50°	884.7	21.3
50°-60°	989.6	23.9
60°-70°	557.7	13.4
70°-80°	124.3	3.0
80°-90°	22.1	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°	4148.3	100.0
0°-180°	4148.3	100.0

Coefficient of Utilization

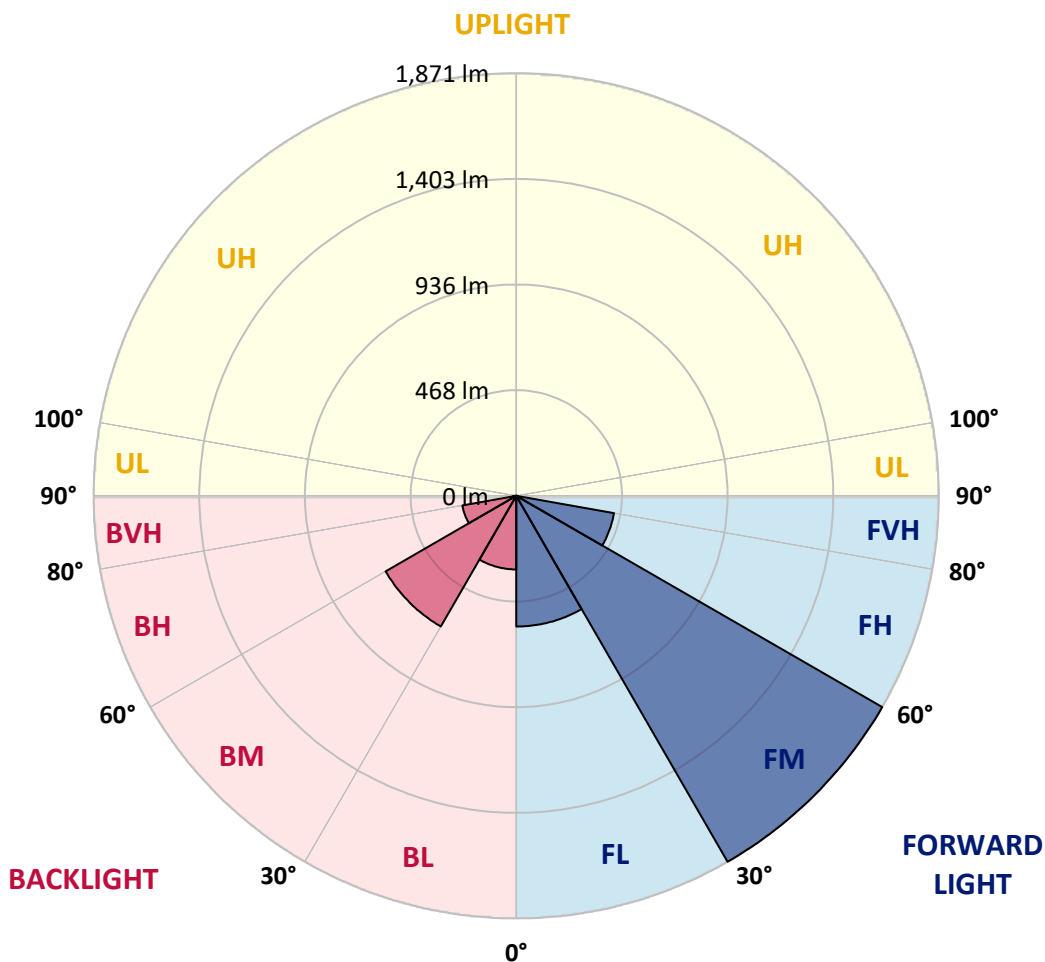


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.9	14.0			
FM (30°-60°)	1871.2	45.1			
FH (60°-80°)	439.7	10.6			G0/660
FVH (80°-90°)	8.0	0.2			G0/10
BL (0°-30°)	326.1	7.9	B1/500		
BM (30°-60°)	667.9	16.1	B1/1000		
BH (60°-80°)	242.4	5.8	B1/500		G1/500
BVH (80°-90°)	14.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1
2.5°	1871.7	1901.8	1869.3	1811.6	1770.7	1733.4	1694.3	1686.5	1635.5	1626.4	1589.1
5°	1765.3	1758.7	1719.0	1643.2	1559.7	1483.9	1428.0	1373.9	1337.2	1294.5	1291.5
7.5°	1636.0	1597.6	1574.7	1459.8	1356.5	1237.4	1186.3	1103.9	1078.0	1039.6	1019.7
10°	1520.6	1492.3	1438.8	1324.0	1179.7	1100.9	1046.2	1001.7	971.6	931.9	882.0
12.5°	1463.4	1452.1	1391.9	1214.0	1106.9	1022.8	984.2	941.0	889.9	826.1	801.5
15°	1473.7	1435.2	1389.5	1192.9	1045.0	963.8	902.5	848.4	782.8	722.1	686.6
17.5°	1550.0	1520.6	1429.2	1206.1	1021.5	904.3	793.0	713.1	654.2	599.5	574.8
20°	1700.4	1657.7	1554.9	1223.0	971.0	821.3	693.8	595.2	532.1	503.2	494.9
22.5°	1866.9	1841.7	1677.5	1260.9	930.8	744.4	588.7	490.0	466.6	458.8	474.4
25°	2069.5	2004.0	1868.1	1322.8	899.5	678.8	499.6	444.9	432.9	440.8	458.8
27.5°	2223.5	2206.0	2001.6	1381.1	856.8	600.1	449.8	413.7	417.3	425.1	441.9
30°	2406.2	2317.8	2130.9	1421.4	818.3	545.9	414.8	405.3	408.9	422.1	430.5
32.5°	2516.2	2483.2	2212.1	1482.1	773.8	499.1	387.8	378.8	384.2	404.0	423.9
35°	2656.3	2590.8	2312.4	1497.7	742.5	480.4	368.6	362.0	374.6	388.4	410.7
37.5°	2819.9	2774.8	2451.3	1486.9	725.7	461.2	352.4	349.3	358.4	377.6	403.5
40°	2916.7	2902.9	2524.1	1493.5	699.3	444.4	333.7	337.3	356.0	371.0	396.2
42.5°	3009.9	2919.7	2631.7	1491.1	682.5	421.5	335.5	331.3	345.7	363.2	387.2
45°	3030.4	2940.8	2657.0	1474.3	661.9	399.3	321.7	323.5	340.9	362.5	378.2
47.5°	3017.1	2951.0	2703.9	1469.5	642.8	383.6	301.2	322.9	333.1	350.5	372.8
50°	3008.1	3004.5	2743.6	1492.3	616.9	358.9	276.6	315.1	325.3	342.7	366.8
52.5°	3087.4	3079.6	2842.8	1552.5	596.4	332.5	251.3	295.2	319.9	336.7	360.2
55°	3135.6	3101.3	3012.9	1626.4	562.2	297.6	233.9	270.6	306.6	321.7	345.7
57.5°	2820.5	2797.0	2725.5	1518.2	504.5	251.9	212.3	245.3	288.6	312.0	336.7
60°	2346.7	2310.0	2126.6	1290.3	372.2	196.0	199.0	225.5	283.8	292.8	321.7
62.5°	2212.6	2121.9	1872.3	1038.3	285.6	168.3	178.6	207.4	258.5	273.6	302.4
65°	1755.6	1688.3	1339.6	749.8	191.2	146.1	162.9	187.0	223.1	252.5	279.0
67.5°	1099.1	1034.7	714.9	354.8	133.5	125.0	145.5	170.8	200.2	226.7	256.1
70°	574.2	503.9	330.1	128.1	92.0	102.2	121.4	145.5	174.4	196.0	218.8
72.5°	214.1	173.7	107.7	55.3	63.7	78.1	98.6	116.0	136.5	162.9	175.5
75°	33.0	28.3	27.6	33.7	43.3	56.5	70.3	87.8	105.8	122.6	131.1
77.5°	15.7	15.0	16.8	22.2	28.9	40.2	51.1	68.0	82.4	93.2	98.0
80°	10.3	9.6	10.8	15.0	21.6	30.1	40.9	52.3	65.5	74.5	73.4
82.5°	6.0	6.6	6.6	10.3	15.0	21.6	29.4	39.7	48.7	56.5	51.7
85°	3.6	3.0	3.0	6.0	10.3	17.5	24.7	16.8	17.5	17.5	19.8
87.5°	1.2	1.2	1.2	0.6	1.2	1.2	1.8	3.0	3.6	4.2	5.4
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°	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1
2.5°	1587.9	1606.6	1600.0	1576.5	1594.5	1597.6	1585.5	1627.0	1634.8	1622.2	1625.8
5°	1287.3	1292.1	1302.9	1325.8	1342.0	1361.2	1361.2	1362.4	1346.2	1387.1	1375.1
7.5°	1002.9	1005.9	1018.5	1067.2	1081.1	1117.7	1133.4	1122.6	1090.1	1076.2	1087.7
10°	865.8	848.4	844.2	850.2	881.4	897.1	910.3	906.7	901.3	890.4	878.4
12.5°	774.4	761.8	751.6	737.1	738.9	754.0	764.2	755.8	758.2	760.6	764.2
15°	675.2	666.2	660.8	639.2	636.7	647.0	650.6	655.4	664.4	665.0	660.8
17.5°	570.0	562.2	574.2	586.2	577.8	578.4	585.1	589.2	586.9	576.0	570.6
20°	497.8	506.3	518.3	529.7	538.7	544.1	546.5	540.0	532.1	509.9	509.3
22.5°	476.8	487.7	497.8	515.3	523.7	537.5	524.9	509.9	499.1	488.2	475.6
25°	461.2	470.2	490.6	497.2	513.5	524.9	515.9	500.9	482.2	466.6	457.0
27.5°	449.8	459.9	473.2	491.3	503.9	510.4	501.4	495.4	476.2	457.6	443.7
30°	442.6	453.4	477.4	492.4	503.2	508.6	493.1	485.9	472.0	456.3	444.4
32.5°	437.7	447.3	467.8	487.0	494.2	494.2	496.7	488.2	469.0	442.6	432.3
35°	422.1	435.3	452.2	474.4	487.7	495.4	483.4	473.8	461.2	434.1	415.5
37.5°	413.0	422.1	443.7	464.8	476.2	484.6	479.8	463.0	446.2	423.9	408.9
40°	403.5	417.9	437.1	457.0	469.6	478.0	474.4	454.5	434.1	413.0	402.9
42.5°	396.8	406.5	426.3	448.5	463.5	479.8	469.0	444.4	429.9	401.1	389.6
45°	391.4	407.1	428.1	437.1	452.7	469.6	450.4	435.3	418.5	397.5	387.8
47.5°	384.8	399.3	413.0	437.1	444.4	452.2	448.5	424.5	410.1	387.2	380.6
50°	382.4	387.8	413.0	426.3	436.5	444.4	434.7	416.6	402.9	379.4	365.0
52.5°	372.8	383.0	399.3	416.6	429.3	438.9	423.3	411.9	393.2	368.6	359.6
55°	360.7	366.8	395.6	413.7	420.3	426.9	420.9	402.2	383.0	357.8	348.7
57.5°	345.1	358.9	382.4	407.6	416.1	419.7	410.1	395.0	371.0	348.7	334.3
60°	328.9	343.3	369.2	389.6	398.0	411.2	396.8	387.8	360.2	335.5	319.9
62.5°	312.7	328.9	348.1	374.0	381.2	386.6	383.0	370.4	348.1	320.5	301.2
65°	293.4	305.4	329.5	342.7	347.5	360.2	347.5	342.7	322.9	296.4	280.2
67.5°	264.6	274.8	295.8	308.4	312.0	317.4	316.9	311.5	289.2	271.2	256.7
70°	231.5	240.5	253.8	268.7	270.6	277.2	271.2	270.0	255.6	230.9	223.1
72.5°	185.8	194.2	211.6	218.2	218.8	221.3	218.2	214.1	210.5	184.6	176.8
75°	142.5	147.3	155.7	161.8	161.8	164.7	162.9	158.7	149.1	132.9	125.0
77.5°	99.2	104.0	114.9	118.5	117.8	119.0	113.6	109.5	95.0	86.6	79.9
80°	72.1	75.2	80.6	83.0	83.5	85.3	78.8	75.2	66.7	57.1	54.1
82.5°	52.3	54.1	54.7	57.7	57.7	54.7	52.9	49.3	43.3	37.3	34.8
85°	21.6	22.2	22.9	26.5	27.1	32.5	30.1	28.3	24.7	21.1	19.3
87.5°	5.4	6.0	7.8	6.6	7.8	7.8	8.5	9.6	9.6	7.8	7.8
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°	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1
2.5°	1639.6	1644.5	1705.8	1713.6	1743.7	1774.3	1836.2	1880.8	1916.8	1940.3	1946.9
5°	1387.7	1418.4	1446.6	1492.3	1533.8	1592.7	1660.7	1744.8	1850.7	1904.8	1926.4
7.5°	1086.5	1122.6	1163.5	1207.9	1268.7	1374.5	1465.3	1562.7	1697.9	1753.8	1838.6
10°	886.8	927.2	981.3	1015.6	1088.9	1189.9	1295.7	1408.1	1537.4	1618.0	1716.0
12.5°	784.0	817.1	867.0	939.1	993.9	1059.4	1138.2	1280.0	1465.3	1541.6	1609.0
15°	670.4	707.0	764.8	844.8	910.3	988.5	1076.9	1231.3	1428.6	1546.4	1603.6
17.5°	576.6	603.1	663.8	733.0	808.1	893.5	1020.3	1229.0	1467.1	1618.0	1711.2
20°	511.7	515.3	548.3	607.3	709.5	820.7	985.5	1216.9	1590.4	1741.2	1859.1
22.5°	470.8	467.2	467.8	517.7	589.2	749.2	930.8	1257.8	1730.4	1937.2	2016.6
25°	450.4	440.8	434.7	445.5	510.4	664.4	889.3	1311.9	1881.3	2099.0	2196.4
27.5°	439.5	422.7	410.7	412.5	459.9	621.7	863.4	1335.4	2031.0	2324.5	2358.7
30°	435.3	414.3	396.8	390.8	422.1	562.2	808.1	1375.7	2165.2	2448.4	2477.8
32.5°	420.3	394.4	377.6	372.2	384.8	509.9	768.4	1404.5	2283.6	2583.0	2572.8
35°	402.9	381.2	360.2	349.9	358.9	476.2	736.6	1390.7	2423.1	2687.6	2682.2
37.5°	401.1	372.8	355.3	338.5	337.9	434.7	693.3	1403.9	2512.1	2875.3	2801.3
40°	385.4	367.4	344.5	330.7	322.9	413.7	651.1	1372.7	2642.5	2951.0	2878.2
42.5°	386.0	358.9	339.1	322.9	315.1	383.0	622.3	1364.2	2688.2	3074.2	2914.3
45°	376.4	349.9	333.1	313.8	309.7	359.6	594.6	1325.1	2768.8	3080.2	2869.2
47.5°	366.8	343.3	325.3	302.4	292.8	351.1	573.0	1292.7	2726.7	3023.7	2806.7
50°	360.2	333.1	316.3	300.0	273.0	336.7	544.7	1284.9	2667.8	2947.4	2690.6
52.5°	348.7	324.7	307.2	294.6	251.3	323.5	533.9	1330.6	2740.0	2890.3	2657.0
55°	337.9	313.3	291.0	266.4	233.3	288.6	503.9	1373.3	2845.2	3021.9	2809.7
57.5°	326.5	303.0	279.0	249.5	215.9	252.5	472.6	1381.1	2647.9	2792.9	2667.2
60°	311.5	281.4	263.3	224.9	197.2	209.2	374.6	1217.6	2053.9	2332.3	2336.5
62.5°	294.6	262.1	246.5	201.4	178.0	180.4	305.4	1023.4	1666.1	1930.6	2045.5
65°	272.4	241.1	222.5	186.4	164.1	156.4	223.7	749.8	1265.6	1566.3	1696.8
67.5°	243.5	214.1	190.6	162.3	146.7	134.0	152.7	422.1	747.4	1051.6	1091.3
70°	212.8	187.6	162.9	139.5	122.1	113.1	111.8	187.0	357.1	565.8	643.9
72.5°	167.7	149.7	129.9	112.4	101.0	87.8	79.9	77.6	120.8	230.3	318.1
75°	120.3	105.2	93.8	82.4	74.0	66.7	60.8	55.3	50.5	57.7	79.4
77.5°	75.8	70.3	61.3	58.3	53.5	51.7	49.3	46.3	42.7	40.2	40.2
80°	51.1	47.5	44.5	43.9	42.1	41.5	42.1	39.1	35.5	32.5	33.7
82.5°	34.3	33.7	33.0	32.5	33.0	33.7	34.8	34.3	31.2	29.4	30.1
85°	20.4	21.6	22.9	24.0	26.5	23.4	19.3	16.2	14.4	13.2	12.6
87.5°	7.8	10.8	9.6	9.0	9.6	9.0	8.5	7.8	6.6	6.0	6.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1	1841.1
2.5°	1990.8	2002.8	2013.0	2010.6	1989.6	1961.3	1949.9	1891.6	1879.5	1871.7
5°	2017.8	2087.6	2102.6	2093.6	2038.9	1969.7	1902.4	1817.0	1767.1	1765.3
7.5°	1967.9	2053.9	2081.0	2101.4	2028.7	1908.4	1793.0	1664.9	1633.7	1636.0
10°	1841.1	1978.2	2044.9	2065.9	1982.3	1878.3	1718.4	1588.6	1521.8	1520.6
12.5°	1770.7	1878.3	1897.0	1926.4	1901.8	1796.6	1675.1	1529.6	1464.7	1463.4
15°	1708.2	1779.1	1784.5	1826.0	1839.3	1768.3	1686.5	1531.4	1479.1	1473.7
17.5°	1762.9	1713.6	1693.2	1698.6	1737.6	1763.5	1752.7	1633.7	1580.1	1550.0
20°	1799.6	1689.6	1627.6	1633.7	1679.9	1774.3	1851.2	1781.6	1696.8	1700.4
22.5°	1897.6	1693.2	1596.4	1589.7	1663.1	1830.8	1962.5	1968.5	1886.7	1866.9
25°	2044.3	1734.7	1586.7	1584.9	1655.3	1891.6	2092.4	2189.8	2106.2	2069.5
27.5°	2162.1	1799.6	1616.8	1622.8	1679.9	1940.9	2203.0	2332.3	2268.6	2223.5
30°	2265.5	1866.9	1658.9	1631.2	1746.1	1966.7	2250.5	2494.6	2443.5	2406.2
32.5°	2308.2	1962.5	1725.6	1679.9	1800.7	1998.0	2349.2	2652.2	2608.3	2516.2
35°	2380.4	2016.0	1761.7	1758.1	1896.3	2073.1	2395.4	2756.2	2738.2	2656.3
37.5°	2438.1	2070.2	1889.8	1850.1	2027.4	2199.4	2470.0	2899.8	2858.4	2819.9
40°	2482.6	2167.0	2009.4	2061.7	2188.6	2314.2	2538.5	2908.9	3028.6	2916.7
42.5°	2441.7	2253.6	2206.0	2331.1	2451.3	2445.3	2546.3	2978.6	3068.3	3009.9
45°	2431.5	2400.2	2516.9	2630.5	2658.2	2554.1	2490.4	2901.6	3056.2	3030.4
47.5°	2406.9	2544.5	2747.8	2933.0	2890.8	2626.9	2423.7	2887.9	3063.4	3017.1
50°	2398.4	2575.8	2918.5	3098.9	3073.7	2690.0	2392.4	2798.8	3012.3	3008.1
52.5°	2397.9	2640.1	2989.5	3189.1	3204.7	2789.8	2435.1	2843.9	3052.0	3087.4
55°	2424.9	2619.7	2980.4	3139.2	3133.2	2745.4	2439.9	2874.0	3100.7	3135.6
57.5°	2287.2	2346.7	2459.7	2585.4	2553.0	2274.0	2178.9	2657.0	2845.7	2820.5
60°	1975.1	1788.8	1661.3	1655.3	1592.2	1504.9	1783.4	2371.4	2371.4	2346.7
62.5°	1729.8	1174.3	1008.9	962.0	1007.1	1107.6	1720.2	2306.4	2240.9	2212.6
65°	1512.8	896.5	729.4	716.1	794.3	945.8	1555.4	1964.9	1849.4	1755.6
67.5°	973.4	656.5	542.3	518.9	613.2	694.4	1035.4	1208.6	1135.7	1099.1
70°	627.7	427.5	301.8	283.2	319.9	428.1	661.4	704.7	598.8	574.2
72.5°	297.0	184.6	105.8	87.1	98.0	163.6	261.5	281.4	233.9	214.1
75°	94.4	68.0	43.3	37.3	35.5	42.1	60.1	46.3	33.7	33.0
77.5°	42.1	40.2	34.3	28.9	25.3	21.1	17.5	14.4	15.0	15.7
80°	34.8	31.9	28.3	25.3	21.1	16.2	12.6	9.6	9.6	10.3
82.5°	30.7	27.6	24.7	21.1	18.0	13.2	9.6	6.6	6.0	6.0
85°	13.2	15.7	16.8	18.0	14.4	10.8	6.6	4.2	3.6	3.6
87.5°	5.4	4.8	4.2	3.6	3.0	3.0	2.4	1.8	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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