

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: P647229

Luminaire Tested: **GALN-SA1D-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647229
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-SA1D-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA 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: 4564.1 lumens
Efficiency: N/A
Efficacy: 70.2 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): 65
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

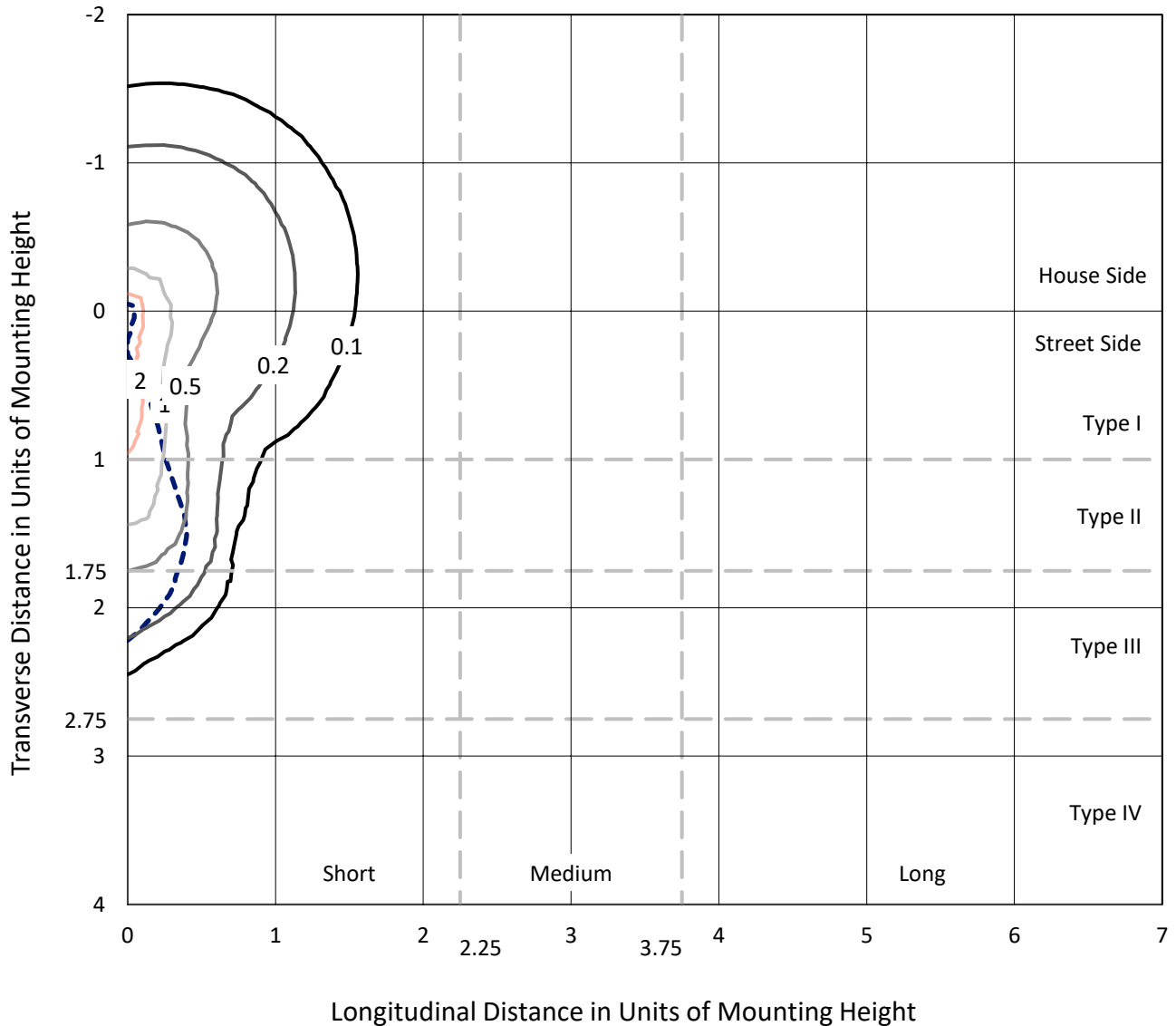




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Iso-Footcandle Lines of Horizontal Illumination

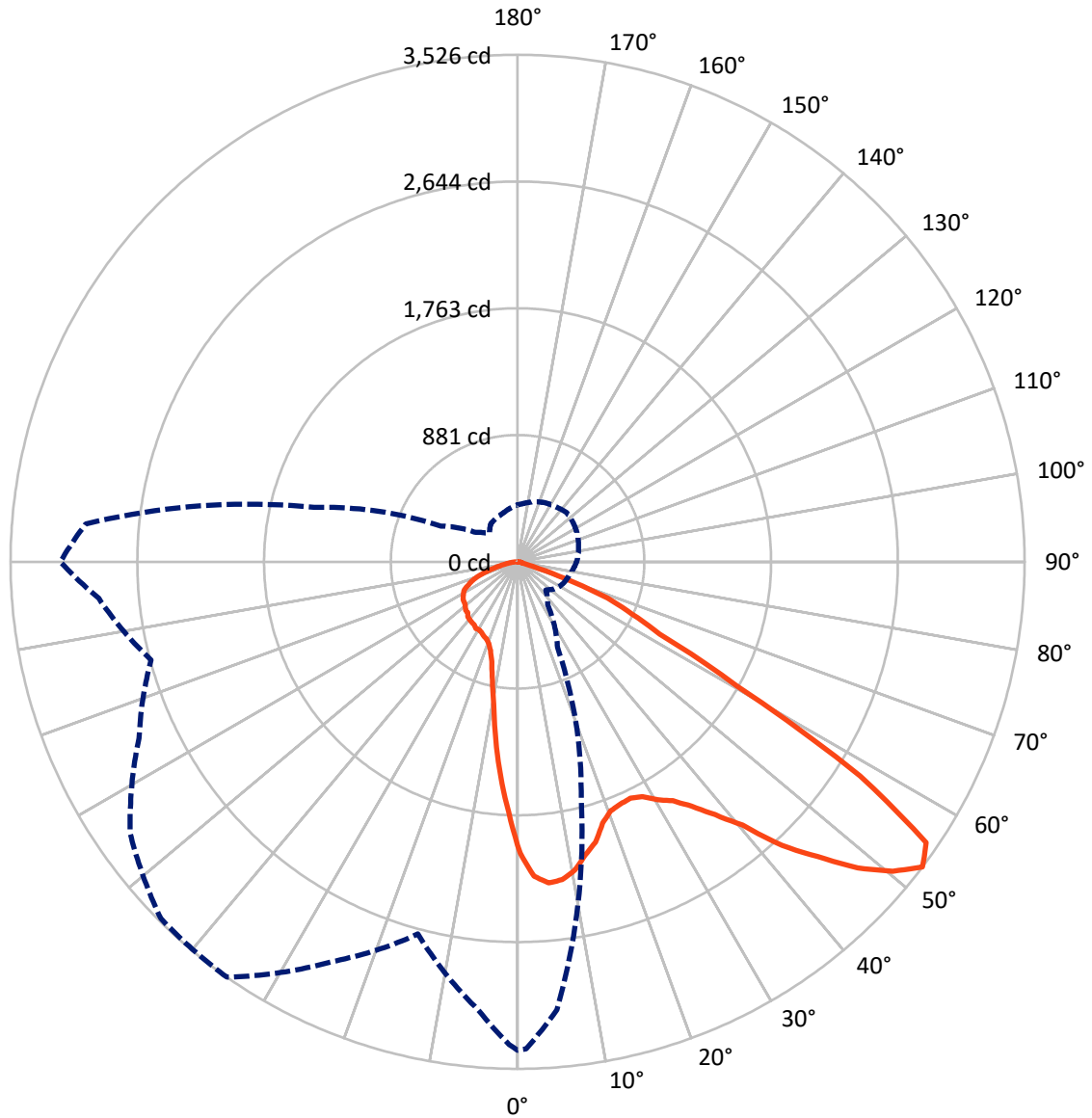
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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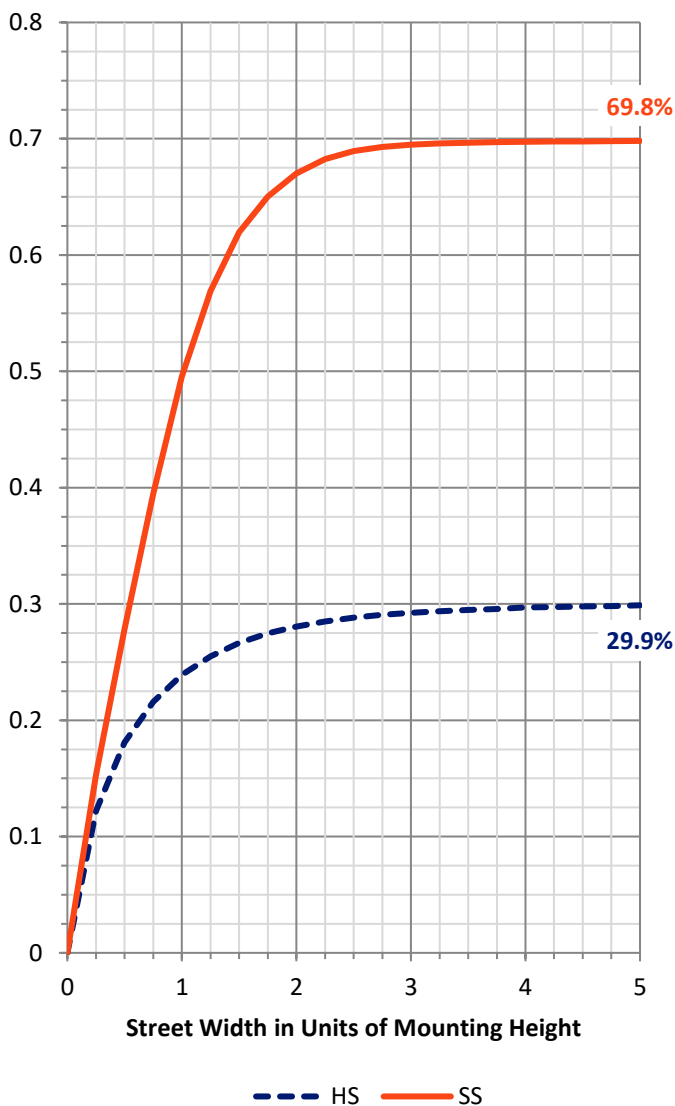
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.9	0.0	1375.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	3188.2	0.0	3188.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	4564.1	0.0	4564.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	3.4
10°-20°	335.0	7.3
20°-30°	506.2	11.1
30°-40°	731.4	16.0
40°-50°	973.4	21.3
50°-60°	1088.8	23.9
60°-70°	613.6	13.4
70°-80°	136.8	3.0
80°-90°	24.4	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°	4564.1	100.0
0°-180°	4564.1	100.0

Coefficient of Utilization

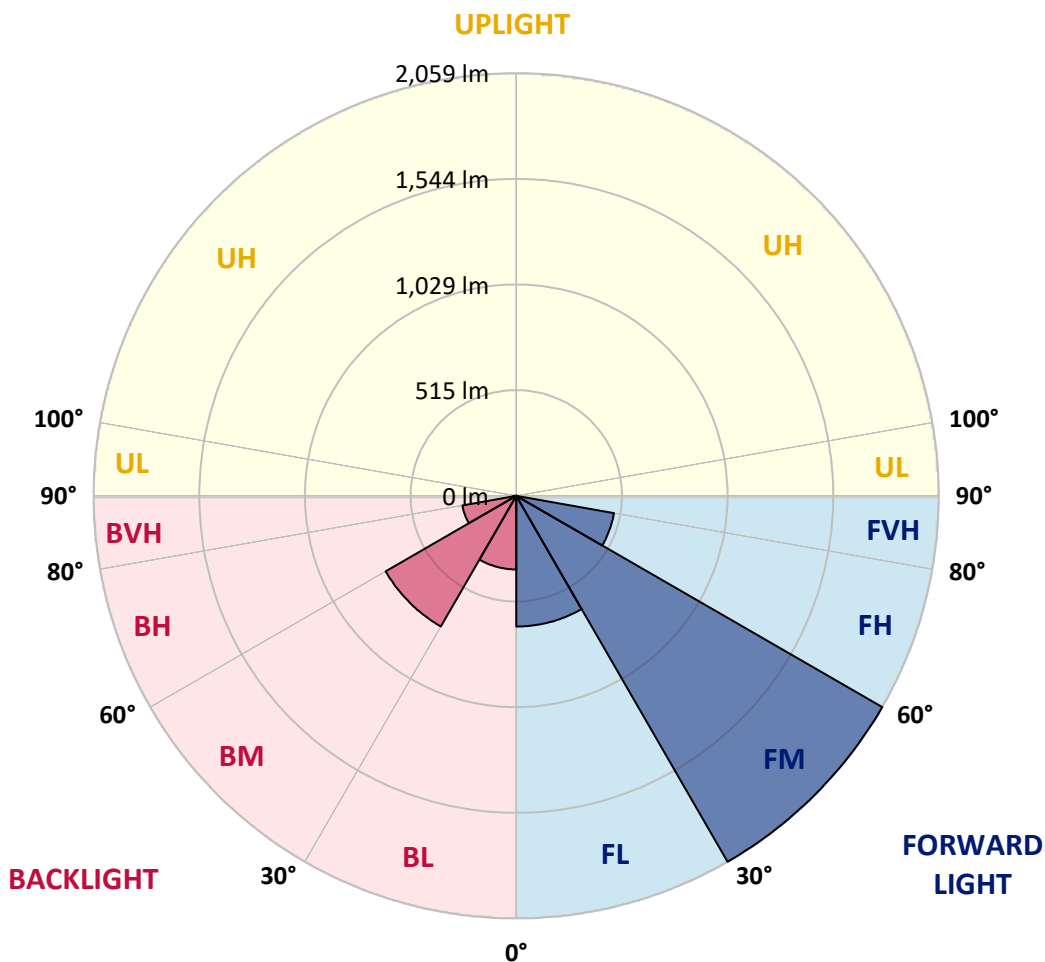


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.9	14.0			
FM (30°-60°)	2058.8	45.1			
FH (60°-80°)	483.7	10.6			G0/660
FVH (80°-90°)	8.8	0.2			G0/10
BL (0°-30°)	358.8	7.9	B1/500		
BM (30°-60°)	734.9	16.1	B1/1000		
BH (60°-80°)	266.7	5.8	B1/500		G1/500
BVH (80°-90°)	15.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5
2.5°	2059.3	2092.4	2056.7	1993.1	1948.2	1907.2	1864.2	1855.6	1799.3	1789.4	1748.4
5°	1942.2	1934.9	1891.3	1807.9	1716.0	1632.6	1571.1	1511.6	1471.3	1424.3	1420.9
7.5°	1800.0	1757.7	1732.5	1606.2	1492.4	1361.4	1305.2	1214.6	1186.1	1143.8	1122.0
10°	1673.0	1641.9	1583.0	1456.7	1297.9	1211.2	1151.0	1102.1	1069.0	1025.3	970.5
12.5°	1610.2	1597.6	1531.4	1335.6	1217.9	1125.2	1082.9	1035.3	979.1	908.9	881.8
15°	1621.4	1579.1	1528.8	1312.5	1149.8	1060.4	992.9	933.4	861.3	794.5	755.4
17.5°	1705.4	1673.0	1572.4	1327.0	1123.9	995.0	872.6	784.6	719.7	659.5	632.4
20°	1870.7	1823.8	1710.7	1345.5	1068.3	903.7	763.4	654.9	585.4	553.7	544.4
22.5°	2054.0	2026.2	1845.6	1387.2	1024.0	818.9	647.6	539.2	513.3	504.7	521.9
25°	2277.0	2204.8	2055.4	1455.4	989.6	746.8	549.7	489.5	476.3	484.9	504.7
27.5°	2446.3	2427.1	2202.2	1519.5	942.7	660.2	494.9	455.2	459.1	467.7	486.2
30°	2647.4	2550.2	2344.5	1563.8	900.3	600.6	456.4	445.8	449.8	464.4	473.6
32.5°	2768.5	2732.1	2433.7	1630.7	851.4	549.0	426.7	416.8	422.7	444.5	466.4
35°	2922.6	2850.5	2544.2	1647.8	817.0	528.5	405.5	398.2	412.1	427.4	451.8
37.5°	3102.6	3052.9	2697.0	1635.9	798.4	507.4	387.7	384.4	394.2	415.5	443.9
40°	3209.0	3193.9	2777.1	1643.2	769.4	488.8	367.1	371.1	391.7	408.2	436.0
42.5°	3311.5	3212.3	2895.5	1640.5	750.8	463.7	369.1	364.5	380.4	399.6	426.0
45°	3334.1	3235.5	2923.3	1622.1	728.3	439.3	353.9	355.9	375.1	398.9	416.1
47.5°	3319.5	3246.7	2974.9	1616.7	707.2	422.0	331.4	355.2	366.4	385.7	410.1
50°	3309.6	3305.6	3018.5	1641.9	678.7	394.9	304.3	346.6	357.9	377.1	403.6
52.5°	3396.9	3388.3	3127.7	1708.0	656.2	365.8	276.5	324.8	352.0	370.4	396.3
55°	3449.8	3412.2	3314.9	1789.4	618.5	327.5	257.3	297.7	337.4	353.9	380.4
57.5°	3103.2	3077.4	2998.7	1670.4	555.0	277.2	233.5	269.9	317.5	343.3	370.4
60°	2581.9	2541.5	2339.8	1419.7	409.5	215.6	218.9	248.1	312.3	322.1	353.9
62.5°	2434.4	2334.5	2060.0	1142.5	314.2	185.3	196.5	228.2	284.5	301.0	332.8
65°	1931.7	1857.6	1473.8	824.9	210.4	160.7	179.3	205.7	245.4	277.8	306.9
67.5°	1209.3	1138.5	786.5	390.3	146.9	137.6	160.1	187.8	220.3	249.4	281.8
70°	631.7	554.4	363.2	140.9	101.2	112.4	133.7	160.1	191.8	215.6	240.8
72.5°	235.5	191.2	118.4	60.8	70.2	86.0	108.5	127.7	150.2	179.3	193.2
75°	36.4	31.1	30.5	37.0	47.6	62.2	77.4	96.5	116.4	135.0	144.2
77.5°	17.2	16.5	18.6	24.5	31.8	44.3	56.2	74.8	90.6	102.6	107.8
80°	11.3	10.6	11.9	16.5	23.8	33.0	45.0	57.6	72.1	82.1	80.7
82.5°	6.6	7.3	7.3	11.3	16.5	23.8	32.4	43.7	53.6	62.2	56.9
85°	4.0	3.3	3.3	6.6	11.3	19.2	27.1	18.6	19.2	19.2	21.8
87.5°	1.3	1.3	1.3	0.6	1.3	1.3	2.0	3.3	4.0	4.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5
2.5°	1747.1	1767.6	1760.3	1734.5	1754.4	1757.7	1744.4	1790.1	1798.7	1784.8	1788.8
5°	1416.3	1421.6	1433.5	1458.7	1476.5	1497.7	1497.7	1499.0	1481.1	1526.1	1512.9
7.5°	1103.4	1106.7	1120.6	1174.2	1189.4	1229.8	1247.0	1235.0	1199.3	1184.1	1196.7
10°	952.6	933.4	928.8	935.4	969.8	987.0	1001.5	997.5	991.6	979.7	966.5
12.5°	852.1	838.1	826.9	811.0	813.0	829.5	840.8	831.5	834.2	836.8	840.8
15°	742.9	733.0	727.0	703.2	700.6	711.8	715.7	721.1	731.0	731.6	727.0
17.5°	627.1	618.5	631.7	645.0	635.7	636.4	643.6	648.3	645.7	633.8	627.8
20°	547.7	557.0	570.3	582.8	592.7	598.7	601.3	594.1	585.4	560.9	560.3
22.5°	524.6	536.5	547.7	566.9	576.2	591.4	577.5	560.9	549.0	537.1	523.3
25°	507.4	517.3	539.8	547.1	564.9	577.5	567.6	551.1	530.6	513.3	502.8
27.5°	494.9	506.1	520.6	540.4	554.4	561.6	551.7	545.1	523.9	503.4	488.2
30°	486.9	498.8	525.2	541.8	553.7	559.6	542.5	534.5	519.3	502.1	488.8
32.5°	481.6	492.2	514.7	535.8	543.8	543.8	546.5	537.1	516.0	486.9	475.7
35°	464.4	479.0	497.4	521.9	536.5	545.1	531.9	521.2	507.4	477.6	457.1
37.5°	454.5	464.4	488.2	511.4	523.9	533.2	527.9	509.3	490.9	466.4	449.8
40°	443.9	459.8	480.9	502.8	516.6	525.9	521.9	500.1	477.6	454.5	443.3
42.5°	436.6	447.2	469.0	493.5	510.0	527.9	516.0	488.8	473.0	441.2	428.7
45°	430.6	447.9	471.0	480.9	498.1	516.6	495.5	479.0	460.4	437.2	426.7
47.5°	423.4	439.3	454.5	480.9	488.8	497.4	493.5	467.1	451.2	426.0	418.7
50°	420.7	426.7	454.5	469.0	480.3	488.8	478.3	458.4	443.3	417.4	401.5
52.5°	410.1	421.4	439.3	458.4	472.3	482.9	465.7	453.1	432.6	405.5	395.6
55°	396.9	403.6	435.3	455.2	462.4	469.6	463.1	442.6	421.4	393.6	383.7
57.5°	379.7	394.9	420.7	448.5	457.7	461.7	451.2	434.6	408.2	383.7	367.8
60°	361.8	377.7	406.1	428.7	437.9	452.5	436.6	426.7	396.3	369.1	352.0
62.5°	344.0	361.8	383.0	411.5	419.4	425.3	421.4	407.5	383.0	352.6	331.4
65°	322.8	336.1	362.5	377.1	382.3	396.3	382.3	377.1	355.2	326.1	308.3
67.5°	291.0	302.3	325.5	339.4	343.3	349.3	348.6	342.6	318.2	298.3	282.5
70°	254.7	264.6	279.1	295.7	297.7	305.0	298.3	297.0	281.2	254.0	245.4
72.5°	204.4	213.7	232.9	240.1	240.8	243.4	240.1	235.5	231.5	203.1	194.5
75°	156.8	162.1	171.3	178.0	178.0	181.3	179.3	174.6	164.0	146.2	137.6
77.5°	109.2	114.5	126.4	130.3	129.7	131.0	125.0	120.4	104.5	95.3	88.0
80°	79.4	82.7	88.6	91.3	91.9	94.0	86.7	82.7	73.4	62.9	59.5
82.5°	57.6	59.5	60.2	63.5	63.5	60.2	58.2	54.3	47.6	41.0	38.4
85°	23.8	24.5	25.1	29.1	29.8	35.7	33.0	31.1	27.1	23.2	21.1
87.5°	6.0	6.6	8.6	7.3	8.6	8.6	9.2	10.6	10.6	8.6	8.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5
2.5°	1804.0	1809.3	1876.8	1885.3	1918.4	1952.2	2020.3	2069.2	2108.9	2134.7	2142.0
5°	1526.8	1560.5	1591.6	1641.9	1687.5	1752.4	1827.1	1919.8	2036.2	2095.7	2119.5
7.5°	1195.4	1235.0	1280.0	1329.0	1395.8	1512.2	1612.1	1719.3	1868.2	1929.6	2023.0
10°	975.8	1020.1	1079.6	1117.3	1198.0	1309.2	1425.6	1549.3	1691.5	1780.2	1888.0
12.5°	862.6	899.0	953.9	1033.3	1093.5	1165.6	1252.3	1408.4	1612.1	1696.1	1770.2
15°	737.6	777.9	841.5	929.4	1001.5	1087.5	1184.8	1354.8	1571.8	1701.5	1764.3
17.5°	634.4	663.5	730.3	806.4	889.1	983.1	1122.6	1352.2	1614.1	1780.2	1882.7
20°	563.0	566.9	603.3	668.1	780.6	903.0	1084.2	1338.9	1749.7	1915.8	2045.4
22.5°	518.0	514.0	514.7	569.6	648.3	824.3	1024.0	1383.9	1903.9	2131.4	2218.7
25°	495.5	484.9	478.3	490.2	561.6	731.0	978.4	1443.5	2069.9	2309.4	2416.6
27.5°	483.6	465.0	451.8	453.8	506.1	684.0	949.9	1469.2	2234.6	2557.4	2595.2
30°	479.0	455.8	436.6	430.0	464.4	618.5	889.1	1513.5	2382.1	2693.7	2726.1
32.5°	462.4	433.9	415.5	409.5	423.4	560.9	845.4	1545.3	2512.5	2841.9	2830.6
35°	443.3	419.4	396.3	385.0	394.9	523.9	810.3	1530.1	2666.0	2957.0	2951.0
37.5°	441.2	410.1	391.0	372.5	371.8	478.3	762.7	1544.6	2763.8	3163.4	3082.0
40°	424.1	404.2	379.1	363.9	355.2	455.2	716.4	1510.3	2907.4	3246.7	3166.7
42.5°	424.7	394.9	373.1	355.2	346.6	421.4	684.7	1501.0	2957.6	3382.3	3206.4
45°	414.1	385.0	366.4	345.3	340.7	395.6	654.3	1458.0	3046.3	3389.0	3156.7
47.5°	403.6	377.7	357.9	332.8	322.1	386.3	630.4	1422.2	3000.0	3326.8	3088.0
50°	396.3	366.4	348.0	330.1	300.4	370.4	599.3	1413.7	2935.2	3242.8	2960.3
52.5°	383.7	357.2	338.0	324.2	276.5	355.9	587.4	1464.0	3014.6	3179.9	2923.3
55°	371.8	344.7	320.2	293.1	256.7	317.5	554.4	1510.9	3130.4	3324.8	3091.3
57.5°	359.2	333.4	306.9	274.5	237.5	277.8	520.0	1519.5	2913.3	3072.8	2934.5
60°	342.6	309.6	289.7	247.4	217.0	230.2	412.1	1339.6	2259.7	2566.0	2570.7
62.5°	324.2	288.5	271.2	221.6	195.8	198.5	336.1	1125.9	1833.1	2124.1	2250.5
65°	299.7	265.3	244.8	205.1	180.6	172.0	246.1	824.9	1392.5	1723.2	1866.8
67.5°	267.9	235.5	209.7	178.6	161.4	147.5	168.0	464.4	822.3	1157.0	1200.7
70°	234.2	206.4	179.3	153.5	134.3	124.3	123.0	205.7	392.9	622.5	708.5
72.5°	184.6	164.7	142.9	123.7	111.1	96.5	88.0	85.3	133.0	253.4	349.9
75°	132.3	115.7	103.2	90.6	81.4	73.4	66.8	60.8	55.6	63.5	87.3
77.5°	83.4	77.4	67.5	64.2	58.9	56.9	54.3	51.0	47.0	44.3	44.3
80°	56.2	52.2	48.9	48.3	46.3	45.6	46.3	43.0	39.0	35.7	37.0
82.5°	37.7	37.0	36.4	35.7	36.4	37.0	38.4	37.7	34.4	32.4	33.0
85°	22.5	23.8	25.1	26.5	29.1	25.8	21.1	17.9	15.9	14.6	13.9
87.5°	8.6	11.9	10.6	9.9	10.6	9.9	9.2	8.6	7.3	6.6	6.6
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°	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5
2.5°	2190.3	2203.5	2214.8	2212.1	2189.0	2157.9	2145.3	2081.1	2067.9	2059.3
5°	2220.0	2296.8	2313.4	2303.4	2243.2	2167.1	2093.0	1999.2	1944.2	1942.2
7.5°	2165.2	2259.7	2289.5	2312.0	2231.9	2099.7	1972.7	1831.8	1797.4	1800.0
10°	2025.5	2176.4	2249.9	2273.0	2181.0	2066.6	1890.6	1747.7	1674.3	1673.0
12.5°	1948.2	2066.6	2087.1	2119.5	2092.4	1976.6	1843.0	1682.9	1611.5	1610.2
15°	1879.4	1957.4	1963.4	2009.0	2023.6	1945.5	1855.6	1684.9	1627.3	1621.4
17.5°	1939.6	1885.3	1862.8	1868.8	1911.8	1940.3	1928.4	1797.4	1738.5	1705.4
20°	1980.0	1858.8	1790.7	1797.4	1848.3	1952.2	2036.8	1960.1	1866.8	1870.7
22.5°	2087.8	1862.8	1756.3	1749.1	1829.8	2014.3	2159.2	2165.9	2075.9	2054.0
25°	2249.2	1908.5	1745.8	1743.7	1821.2	2081.1	2302.1	2409.3	2317.3	2277.0
27.5°	2378.8	1980.0	1778.8	1785.5	1848.3	2135.4	2423.8	2566.0	2495.9	2446.3
30°	2492.6	2054.0	1825.2	1794.7	1921.1	2163.8	2476.1	2744.6	2688.4	2647.4
32.5°	2539.6	2159.2	1898.5	1848.3	1981.2	2198.3	2584.5	2918.0	2869.7	2768.5
35°	2619.0	2218.1	1938.2	1934.3	2086.5	2281.0	2635.5	3032.4	3012.6	2922.6
37.5°	2682.5	2277.6	2079.2	2035.5	2230.7	2419.9	2717.6	3190.5	3144.8	3102.6
40°	2731.4	2384.2	2210.8	2268.4	2408.0	2546.2	2793.0	3200.4	3332.1	3209.0
42.5°	2686.5	2479.4	2427.1	2564.7	2697.0	2690.4	2801.6	3277.2	3375.7	3311.5
45°	2675.2	2640.8	2769.2	2894.1	2924.6	2810.1	2740.0	3192.5	3362.5	3334.1
47.5°	2648.1	2799.5	3023.2	3226.9	3180.6	2890.2	2666.6	3177.3	3370.4	3319.5
50°	2638.8	2834.0	3211.0	3409.5	3381.7	2959.7	2632.2	3079.4	3314.2	3309.6
52.5°	2638.2	2904.8	3289.1	3508.7	3525.9	3069.4	2679.2	3129.0	3357.9	3396.9
55°	2667.9	2882.2	3279.1	3453.8	3447.2	3020.5	2684.4	3162.1	3411.5	3449.8
57.5°	2516.4	2581.9	2706.3	2844.6	2808.9	2501.8	2397.4	2923.3	3131.0	3103.2
60°	2173.1	1968.0	1827.8	1821.2	1751.7	1655.8	1962.0	2609.0	2609.0	2581.9
62.5°	1903.2	1292.0	1110.1	1058.5	1108.0	1218.5	1892.6	2537.6	2465.5	2434.4
65°	1664.4	986.3	802.4	787.9	873.9	1040.6	1711.3	2161.9	2034.9	1931.7
67.5°	1071.0	722.4	596.7	570.9	674.8	764.1	1139.1	1329.7	1249.6	1209.3
70°	690.6	470.3	332.1	311.6	352.0	471.0	727.6	775.3	658.9	631.7
72.5°	326.8	203.1	116.4	95.9	107.8	179.9	287.8	309.6	257.3	235.5
75°	103.8	74.8	47.6	41.0	39.0	46.3	66.2	51.0	37.0	36.4
77.5°	46.3	44.3	37.7	31.8	27.8	23.2	19.2	15.9	16.5	17.2
80°	38.4	35.1	31.1	27.8	23.2	17.9	13.9	10.6	10.6	11.3
82.5°	33.7	30.5	27.1	23.2	19.8	14.6	10.6	7.3	6.6	6.6
85°	14.6	17.2	18.6	19.8	15.9	11.9	7.3	4.6	4.0	4.0
87.5°	6.0	5.3	4.6	4.0	3.3	3.3	2.7	2.0	1.3	1.3
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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