

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: P647779

Luminaire Tested: **GALN-SA2A-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647779
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-SA2A-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 5362.8 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
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

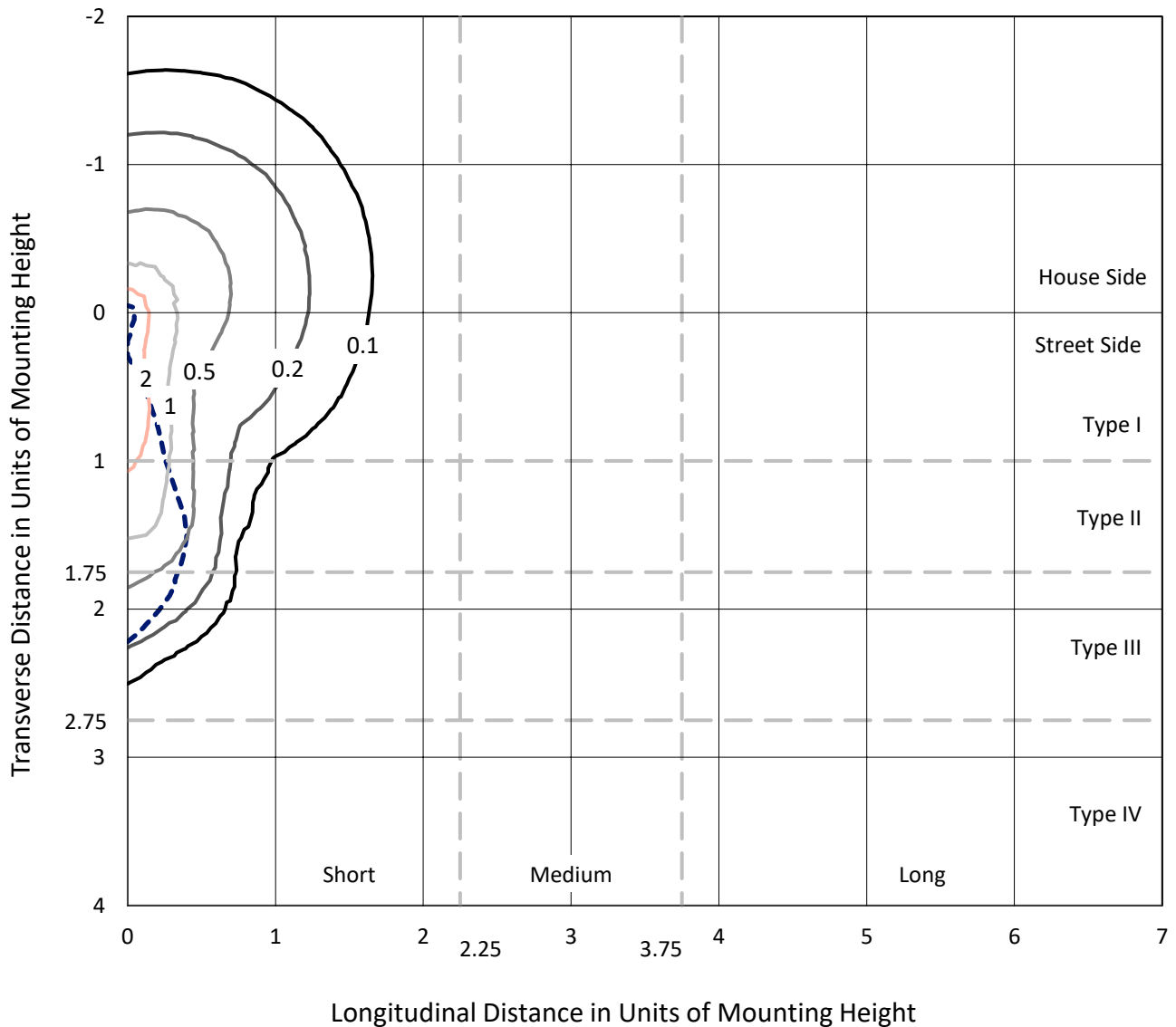




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Iso-Footcandle Lines of Horizontal Illumination

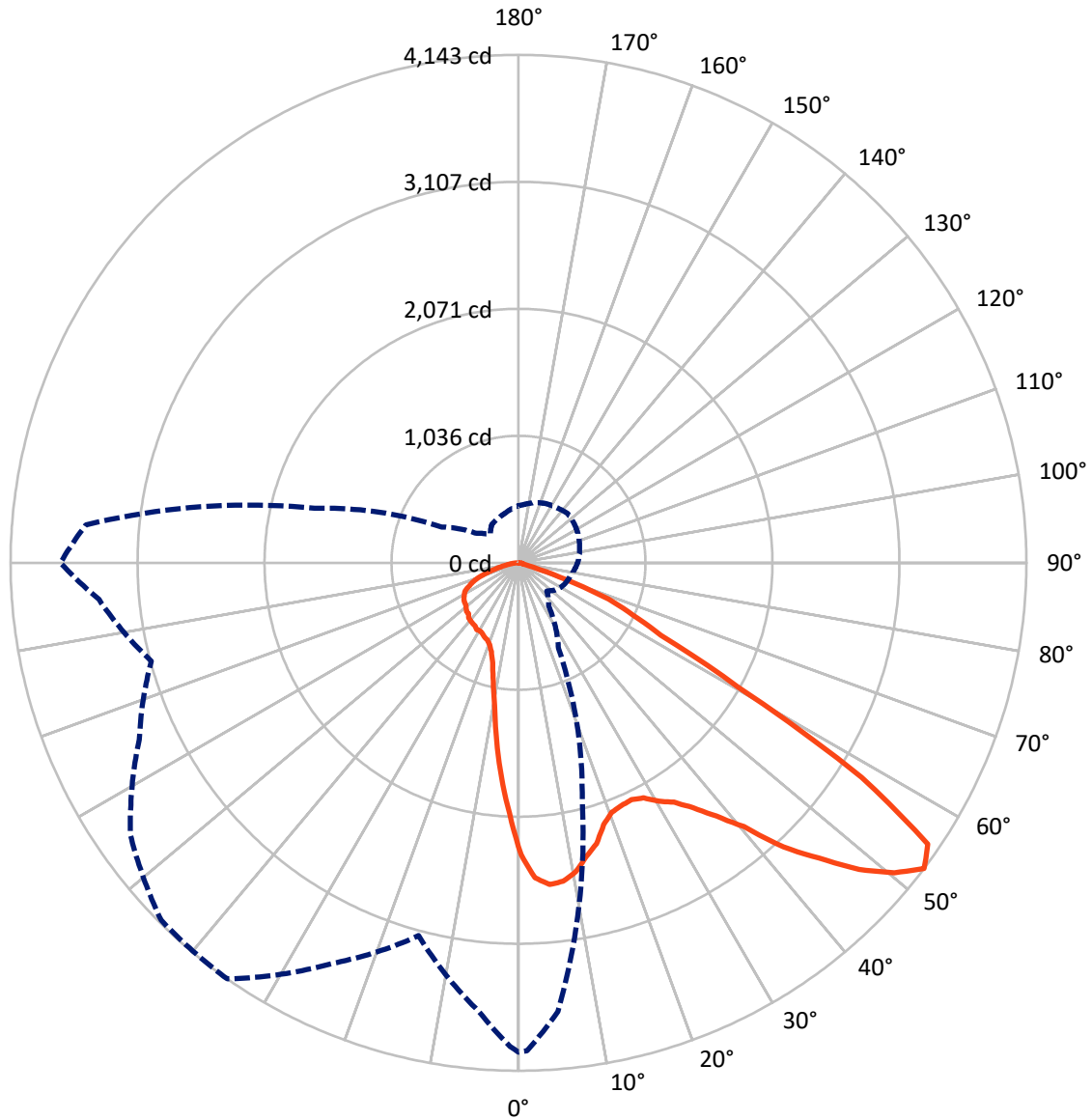
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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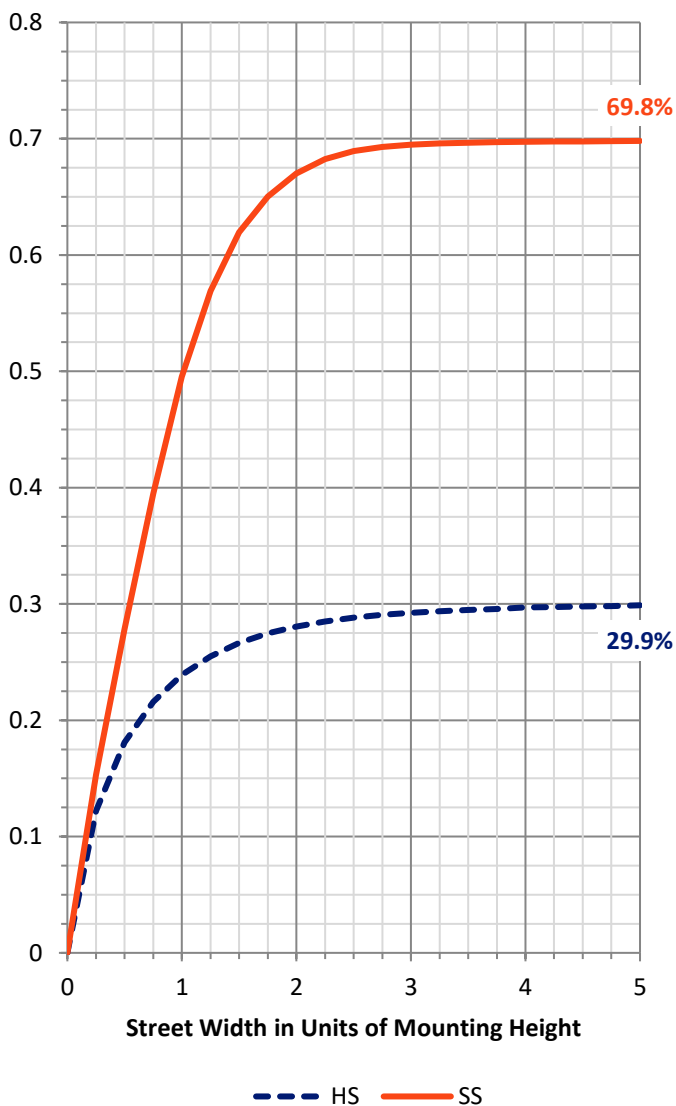
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1616.6	0.0	1616.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	3746.1	0.0	3746.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	5362.8	0.0	5362.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	3.4
10°-20°	393.6	7.3
20°-30°	594.7	11.1
30°-40°	859.4	16.0
40°-50°	1143.7	21.3
50°-60°	1279.3	23.9
60°-70°	721.0	13.4
70°-80°	160.7	3.0
80°-90°	28.6	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°	5362.8	100.0
0°-180°	5362.8	100.0

Coefficient of Utilization

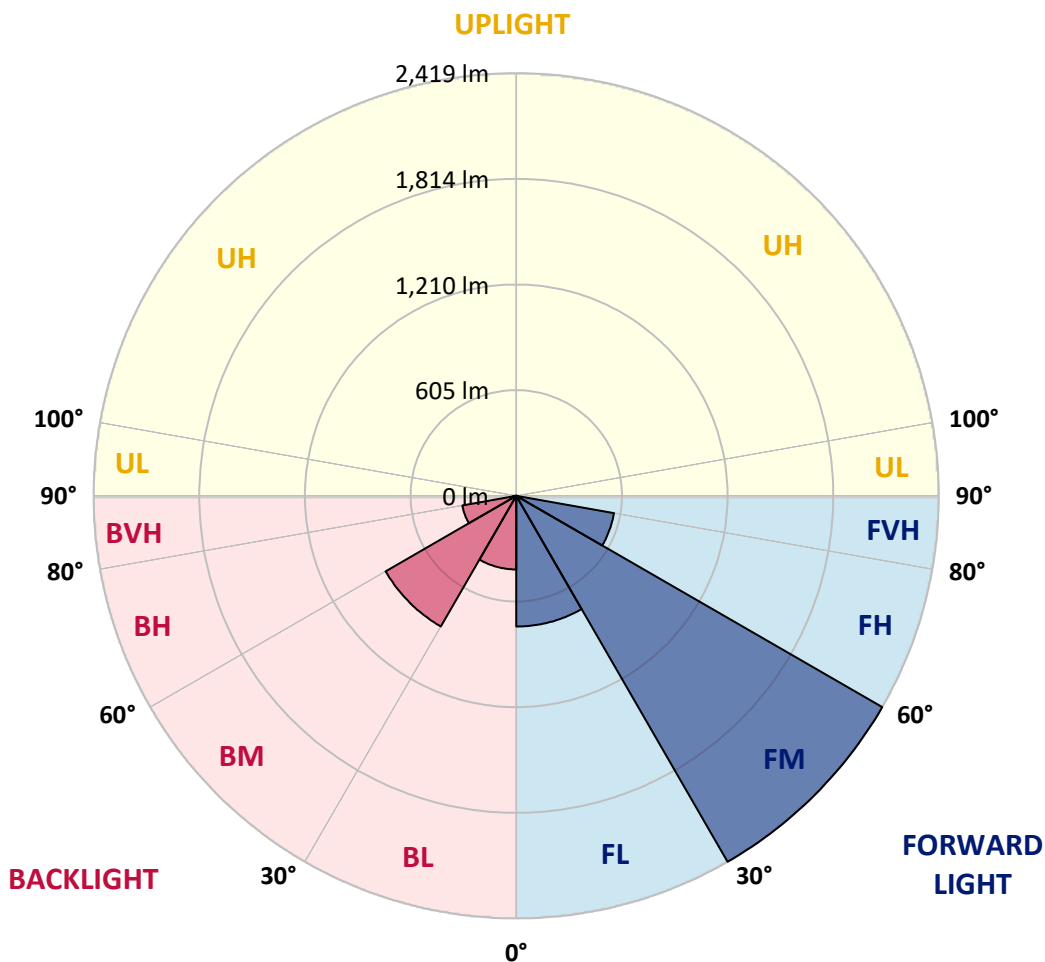


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.4	14.0			
FM (30°-60°)	2419.0	45.1			
FH (60°-80°)	568.4	10.6			G0/660
FVH (80°-90°)	10.4	0.2			G1/100
BL (0°-30°)	421.6	7.9	B1/500		
BM (30°-60°)	863.5	16.1	B1/1000		
BH (60°-80°)	313.4	5.8	B1/500		G1/500
BVH (80°-90°)	18.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2419.7	2458.5	2416.6	2342.0	2289.1	2240.9	2190.4	2180.3	2114.2	2102.5	2054.4
5°	2282.1	2273.5	2222.2	2124.3	2016.2	1918.4	1846.0	1776.1	1728.7	1673.5	1669.6
7.5°	2115.0	2065.2	2035.7	1887.3	1753.5	1599.7	1533.6	1427.1	1393.7	1343.9	1318.3
10°	1965.7	1929.2	1860.0	1711.6	1525.0	1423.2	1352.5	1294.9	1256.1	1204.8	1140.3
12.5°	1891.9	1877.2	1799.4	1569.3	1430.9	1322.2	1272.4	1216.5	1150.4	1068.0	1036.1
15°	1905.1	1855.4	1796.3	1542.1	1350.9	1246.0	1166.7	1096.7	1012.0	933.5	887.7
17.5°	2003.9	1965.7	1847.6	1559.2	1320.6	1169.0	1025.3	921.8	845.7	774.9	743.1
20°	2198.1	2143.0	2010.0	1581.0	1255.3	1061.7	897.0	769.5	687.9	650.6	639.7
22.5°	2413.4	2380.8	2168.6	1630.0	1203.2	962.3	760.9	633.4	603.1	593.0	613.2
25°	2675.4	2590.6	2415.0	1710.0	1162.8	877.6	645.9	575.2	559.6	569.7	593.0
27.5°	2874.4	2851.8	2587.6	1785.4	1107.6	775.7	581.4	534.8	539.4	549.5	571.3
30°	3110.7	2996.4	2754.7	1837.5	1057.9	705.8	536.4	523.9	528.5	545.7	556.6
32.5°	3252.9	3210.1	2859.6	1916.0	1000.4	645.1	501.4	489.7	496.7	522.3	547.9
35°	3434.0	3349.3	2989.4	1936.2	960.0	621.1	476.5	467.9	484.2	502.1	530.9
37.5°	3645.4	3587.2	3169.0	1922.2	938.2	596.2	455.5	451.6	463.2	488.1	521.6
40°	3770.6	3752.7	3263.0	1930.8	904.0	574.4	431.4	436.1	460.2	479.6	512.2
42.5°	3891.0	3774.5	3402.1	1927.7	882.2	544.9	433.7	428.3	446.9	469.5	500.6
45°	3917.5	3801.7	3434.8	1905.9	855.8	516.1	415.9	418.2	440.8	468.7	488.9
47.5°	3900.4	3814.9	3495.4	1899.6	830.9	495.9	389.4	417.4	430.6	453.1	481.9
50°	3888.7	3884.1	3546.8	1929.2	797.5	464.0	357.5	407.3	420.5	443.0	474.1
52.5°	3991.3	3981.2	3675.0	2006.9	771.1	429.9	324.9	381.6	413.5	435.3	465.6
55°	4053.5	4009.2	3895.0	2102.5	726.8	384.8	302.4	349.8	396.4	415.9	446.9
57.5°	3646.2	3615.9	3523.4	1962.7	652.2	325.6	274.4	317.1	373.1	403.4	435.3
60°	3033.7	2986.3	2749.3	1668.0	481.2	253.4	257.3	291.5	366.9	378.5	415.9
62.5°	2860.4	2743.0	2420.4	1342.4	369.2	217.7	230.8	268.2	334.3	353.7	391.0
65°	2269.7	2182.6	1731.8	969.3	247.2	188.9	210.6	241.7	288.4	326.4	360.6
67.5°	1420.8	1337.7	924.2	458.6	172.6	161.7	188.1	220.7	258.9	293.0	331.1
70°	742.3	651.4	426.7	165.5	118.9	132.2	157.0	188.1	225.4	253.4	282.9
72.5°	276.7	224.6	139.1	71.5	82.4	101.1	127.5	150.0	176.4	210.6	227.0
75°	42.8	36.6	35.8	43.5	56.0	73.1	90.9	113.5	136.8	158.6	169.4
77.5°	20.2	19.4	21.8	28.7	37.3	52.1	66.1	87.9	106.5	120.5	126.7
80°	13.2	12.4	14.0	19.4	28.0	38.8	52.9	67.7	84.7	96.4	94.8
82.5°	7.8	8.5	8.5	13.2	19.4	28.0	38.1	51.3	63.0	73.1	66.9
85°	4.7	3.9	3.9	7.8	13.2	22.6	31.9	21.8	22.6	22.6	25.7
87.5°	1.6	1.6	1.6	0.8	1.6	1.6	2.3	3.9	4.7	5.4	7.0
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°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2052.8	2076.9	2068.4	2038.0	2061.3	2065.2	2049.7	2103.3	2113.4	2097.1	2101.7
5°	1664.2	1670.4	1684.4	1713.9	1734.9	1759.8	1759.8	1761.3	1740.3	1793.1	1777.6
7.5°	1296.5	1300.4	1316.7	1379.6	1397.6	1444.9	1465.1	1451.2	1409.2	1391.3	1406.1
10°	1119.3	1096.7	1091.3	1099.1	1139.5	1159.7	1176.8	1172.2	1165.1	1151.2	1135.6
12.5°	1001.1	984.8	971.6	952.9	955.3	974.7	987.9	977.0	980.2	983.3	987.9
15°	872.9	861.2	854.3	826.2	823.2	836.3	841.0	847.2	858.9	859.7	854.3
17.5°	736.9	726.8	742.3	757.9	747.0	747.8	756.3	761.7	758.6	744.6	737.7
20°	643.6	654.4	670.0	684.8	696.5	703.4	706.6	698.0	687.9	659.1	658.3
22.5°	616.4	630.4	643.6	666.1	677.0	694.9	678.5	659.1	645.1	631.2	614.8
25°	596.2	607.8	634.2	642.8	663.8	678.5	666.9	647.5	623.3	603.1	590.7
27.5°	581.4	594.6	611.7	635.0	651.4	659.9	648.2	640.5	615.6	591.5	573.6
30°	572.1	586.1	617.2	636.6	650.6	657.6	637.4	628.0	610.2	590.0	574.4
32.5°	565.9	578.3	604.7	629.6	638.9	638.9	642.1	631.2	606.3	572.1	558.8
35°	545.7	562.7	584.5	613.2	630.4	640.5	624.9	612.5	596.2	561.2	537.1
37.5°	534.0	545.7	573.6	600.9	615.6	626.5	620.3	598.5	576.8	547.9	528.5
40°	521.6	540.2	565.1	590.7	607.1	617.9	613.2	587.6	561.2	534.0	520.8
42.5°	513.0	525.5	551.1	579.8	599.3	620.3	606.3	574.4	555.8	518.4	503.7
45°	506.0	526.3	553.4	565.1	585.3	607.1	582.2	562.7	541.0	513.8	501.4
47.5°	497.4	516.1	534.0	565.1	574.4	584.5	579.8	548.7	530.1	500.6	492.0
50°	494.4	501.4	534.0	551.1	564.3	574.4	562.0	538.6	520.8	490.5	471.8
52.5°	481.9	495.1	516.1	538.6	555.0	567.4	547.2	532.4	508.3	476.5	464.8
55°	466.4	474.1	511.5	534.8	543.3	551.9	544.1	520.0	495.1	462.5	450.9
57.5°	446.2	464.0	494.4	527.0	537.8	542.5	530.1	510.7	479.6	450.9	432.1
60°	425.2	443.8	477.2	503.7	514.6	531.7	513.0	501.4	465.6	433.7	413.5
62.5°	404.2	425.2	450.1	483.5	492.8	499.8	495.1	478.8	450.1	414.3	389.4
65°	379.3	394.9	426.0	443.0	449.3	465.6	449.3	443.0	417.4	383.2	362.2
67.5°	342.0	355.2	382.4	398.8	403.4	410.4	409.6	402.6	373.9	350.5	331.9
70°	299.3	310.9	328.0	347.4	349.8	358.3	350.5	349.0	330.3	298.5	288.4
72.5°	240.1	251.0	273.6	282.1	282.9	286.0	282.1	276.7	272.0	238.7	228.6
75°	184.2	190.4	201.3	209.1	209.1	213.0	210.6	205.2	192.8	171.8	161.7
77.5°	128.3	134.4	148.5	153.2	152.4	153.9	146.9	141.5	122.8	111.9	103.4
80°	93.3	97.2	104.1	107.3	108.1	110.4	101.8	97.2	86.3	73.8	69.9
82.5°	67.7	69.9	70.7	74.6	74.6	70.7	68.4	63.7	56.0	48.2	45.1
85°	28.0	28.7	29.5	34.2	35.0	42.0	38.8	36.6	31.9	27.2	24.9
87.5°	7.0	7.8	10.1	8.5	10.1	10.1	10.9	12.4	12.4	10.1	10.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2119.7	2125.8	2205.2	2215.3	2254.1	2293.7	2373.8	2431.3	2478.0	2508.3	2516.8
5°	1793.9	1833.6	1870.1	1929.2	1982.9	2059.0	2146.8	2255.7	2392.5	2462.5	2490.4
7.5°	1404.5	1451.2	1504.1	1561.5	1640.1	1776.9	1894.2	2020.1	2195.1	2267.3	2377.0
10°	1146.5	1198.5	1268.5	1312.9	1407.7	1538.2	1675.1	1820.4	1987.5	2091.6	2218.3
12.5°	1013.6	1056.3	1120.9	1214.1	1284.8	1369.5	1471.4	1654.8	1894.2	1993.0	2080.0
15°	866.7	914.1	988.7	1092.1	1176.8	1277.9	1392.1	1591.8	1846.8	1999.2	2073.0
17.5°	745.4	779.6	858.1	947.5	1044.7	1155.0	1319.0	1588.8	1896.6	2091.6	2212.1
20°	661.5	666.1	708.8	785.0	917.2	1061.0	1273.9	1573.2	2055.9	2251.0	2403.3
22.5°	608.6	603.9	604.7	669.2	761.7	968.5	1203.2	1626.1	2237.0	2504.4	2607.0
25°	582.2	569.7	562.0	576.0	659.9	858.9	1149.6	1696.1	2432.1	2713.5	2839.4
27.5°	568.2	546.5	530.9	533.2	594.6	803.7	1116.2	1726.4	2625.6	3005.0	3049.2
30°	562.7	535.6	513.0	505.3	545.7	726.8	1044.7	1778.4	2799.0	3165.0	3203.2
32.5°	543.3	509.9	488.1	481.2	497.4	659.1	993.4	1815.7	2952.1	3339.2	3325.9
35°	520.8	492.8	465.6	452.3	464.0	615.6	952.1	1797.8	3132.5	3474.4	3467.4
37.5°	518.4	481.9	459.4	437.6	436.8	562.0	896.2	1814.9	3247.5	3717.0	3621.4
40°	498.2	474.9	445.4	427.5	417.4	534.8	841.8	1774.5	3416.2	3814.9	3720.8
42.5°	499.0	464.0	438.4	417.4	407.3	495.1	804.5	1763.6	3475.2	3974.2	3767.5
45°	486.6	452.3	430.6	405.8	400.3	464.8	768.7	1713.1	3579.4	3982.0	3709.1
47.5°	474.1	443.8	420.5	391.0	378.5	453.9	740.7	1671.2	3525.0	3909.0	3628.3
50°	465.6	430.6	408.9	387.9	352.9	435.3	704.2	1661.1	3448.8	3810.2	3478.3
52.5°	450.9	419.8	397.2	380.9	324.9	418.2	690.2	1720.1	3542.1	3736.4	3434.8
55°	436.8	405.0	376.2	344.4	301.6	373.1	651.4	1775.3	3678.1	3906.6	3632.3
57.5°	422.0	391.7	360.6	322.6	279.1	326.4	611.0	1785.4	3423.1	3610.5	3448.0
60°	402.6	363.8	340.4	290.7	254.9	270.5	484.2	1574.0	2655.2	3015.1	3020.5
62.5°	380.9	338.9	318.7	260.4	230.0	233.2	394.9	1323.0	2153.9	2495.8	2644.3
65°	352.1	311.7	287.6	240.9	212.2	202.1	289.2	969.3	1636.2	2024.8	2193.5
67.5°	314.8	276.7	246.4	209.8	189.6	173.4	197.4	545.7	966.1	1359.4	1410.7
70°	275.1	242.5	210.6	180.3	157.8	146.1	144.5	241.7	461.7	731.4	832.5
72.5°	216.9	193.6	167.9	145.3	130.6	113.5	103.4	100.3	156.2	297.7	411.2
75°	155.4	136.0	121.3	106.5	95.6	86.3	78.5	71.5	65.3	74.6	102.6
77.5°	98.0	90.9	79.3	75.4	69.1	66.9	63.7	59.8	55.2	52.1	52.1
80°	66.1	61.4	57.6	56.8	54.4	53.6	54.4	50.5	45.9	42.0	43.5
82.5°	44.3	43.5	42.8	42.0	42.8	43.5	45.1	44.3	40.4	38.1	38.8
85°	26.5	28.0	29.5	31.1	34.2	30.3	24.9	21.0	18.6	17.1	16.3
87.5°	10.1	14.0	12.4	11.7	12.4	11.7	10.9	10.1	8.5	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2573.6	2589.1	2602.3	2599.2	2572.0	2535.5	2520.7	2445.3	2429.8	2419.7
5°	2608.6	2698.7	2718.2	2706.5	2635.7	2546.4	2459.3	2348.9	2284.4	2282.1
7.5°	2544.0	2655.2	2690.2	2716.6	2622.5	2467.1	2317.8	2152.3	2111.8	2115.0
10°	2380.0	2557.3	2643.6	2670.7	2562.7	2428.2	2221.4	2053.6	1967.3	1965.7
12.5°	2289.1	2428.2	2452.3	2490.4	2458.5	2322.5	2165.5	1977.4	1893.5	1891.9
15°	2208.2	2300.0	2307.0	2360.6	2377.7	2286.0	2180.3	1979.7	1912.1	1905.1
17.5°	2279.0	2215.3	2188.8	2195.8	2246.3	2279.8	2265.8	2111.8	2042.7	2003.9
20°	2326.4	2184.2	2104.1	2111.8	2171.7	2293.7	2393.2	2303.1	2193.5	2198.1
22.5°	2453.1	2188.8	2063.7	2055.1	2150.0	2366.9	2537.1	2544.8	2439.1	2413.4
25°	2642.8	2242.4	2051.2	2048.9	2139.9	2445.3	2705.0	2830.9	2722.8	2675.4
27.5°	2795.1	2326.4	2090.1	2097.9	2171.7	2509.0	2847.9	3015.1	2932.6	2874.4
30°	2928.8	2413.4	2144.5	2108.8	2257.2	2542.5	2909.4	3224.9	3158.9	3110.7
32.5°	2984.0	2537.1	2230.8	2171.7	2327.9	2582.9	3036.9	3428.6	3371.8	3252.9
35°	3077.3	2606.2	2277.4	2272.7	2451.6	2680.1	3096.7	3563.0	3539.7	3434.0
37.5°	3151.9	2676.1	2443.0	2391.7	2621.0	2843.3	3193.1	3748.8	3695.2	3645.4
40°	3209.4	2801.3	2597.7	2665.3	2829.3	2991.8	3281.7	3760.5	3915.2	3770.6
42.5°	3156.5	2913.2	2851.8	3013.5	3169.0	3161.2	3291.8	3850.6	3966.4	3891.0
45°	3143.4	3102.9	3253.7	3400.6	3436.4	3301.9	3219.5	3751.1	3950.9	3917.5
47.5°	3111.5	3289.5	3552.2	3791.6	3737.2	3395.9	3133.2	3733.3	3960.3	3900.4
50°	3100.6	3329.9	3772.9	4006.1	3973.5	3477.5	3092.8	3618.2	3894.2	3888.7
52.5°	3099.8	3413.0	3864.7	4122.7	4142.9	3606.6	3148.0	3676.5	3945.5	3991.3
55°	3134.7	3386.6	3853.0	4058.2	4050.4	3549.0	3154.2	3715.4	4008.4	4053.5
57.5°	2956.8	3033.7	3179.8	3342.3	3300.3	2939.7	2816.8	3434.8	3678.8	3646.2
60°	2553.4	2312.4	2147.6	2139.9	2058.3	1945.5	2305.4	3065.6	3065.6	3033.7
62.5°	2236.2	1518.0	1304.2	1243.6	1302.0	1431.7	2223.8	2981.7	2896.9	2860.4
65°	1955.6	1158.9	942.8	925.7	1026.7	1222.7	2010.8	2540.1	2390.9	2269.7
67.5°	1258.4	848.8	701.1	670.8	792.8	897.8	1338.5	1562.3	1468.3	1420.8
70°	811.5	552.6	390.2	366.1	413.5	553.4	855.0	910.9	774.2	742.3
72.5°	384.0	238.7	136.8	112.7	126.7	211.4	338.1	363.8	302.4	276.7
75°	122.1	87.9	56.0	48.2	45.9	54.4	77.8	59.8	43.5	42.8
77.5°	54.4	52.1	44.3	37.3	32.7	27.2	22.6	18.6	19.4	20.2
80°	45.1	41.2	36.6	32.7	27.2	21.0	16.3	12.4	12.4	13.2
82.5°	39.6	35.8	31.9	27.2	23.3	17.1	12.4	8.5	7.8	7.8
85°	17.1	20.2	21.8	23.3	18.6	14.0	8.5	5.4	4.7	4.7
87.5°	7.0	6.2	5.4	4.7	3.9	3.9	3.1	2.3	1.6	1.6
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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