

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: P527144

Luminaire Tested: **GALN-SA2A-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527144
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-SA2A-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

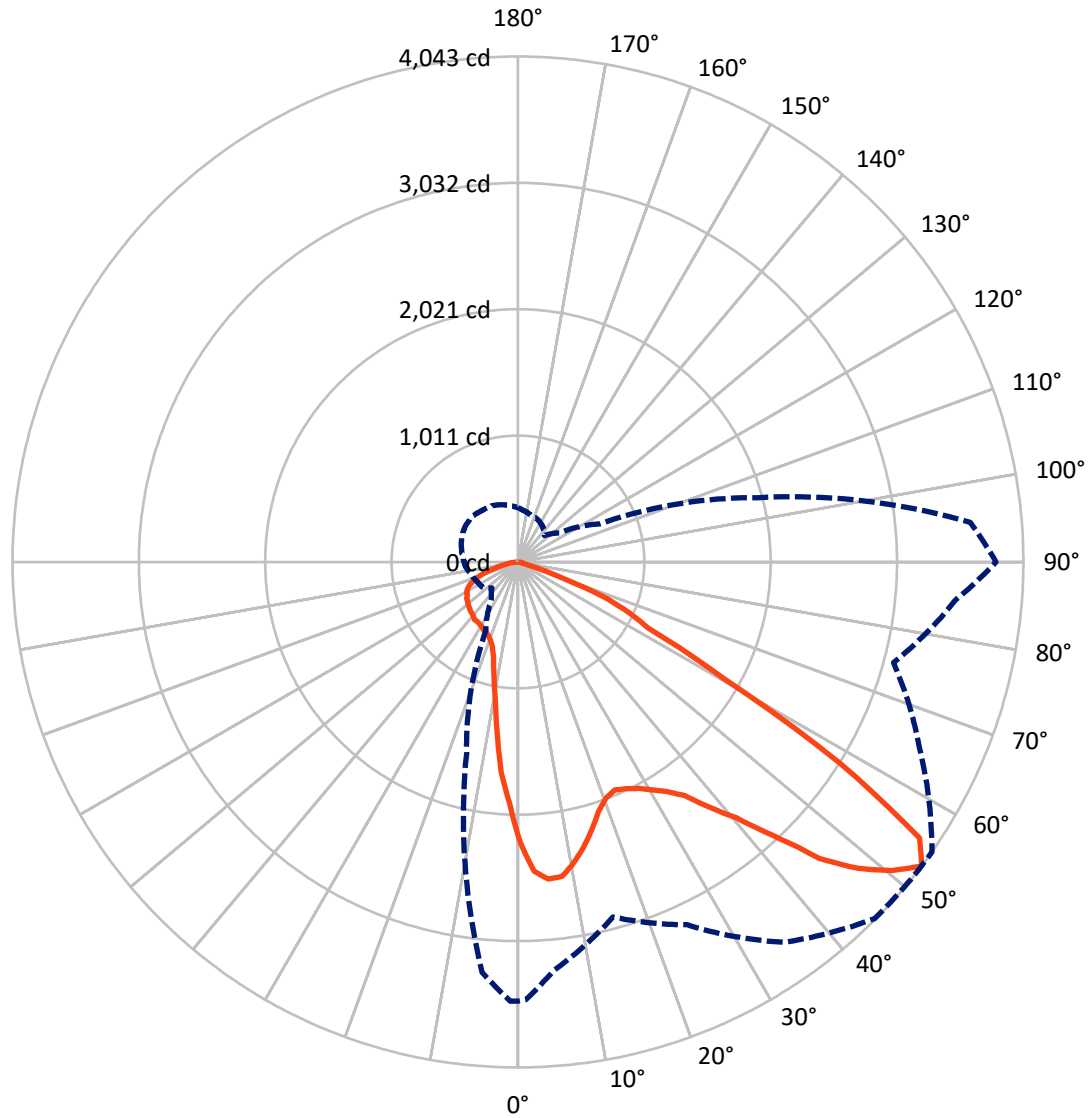
Lumens per Lamp: N/A
Luminaire Lumens: 5035 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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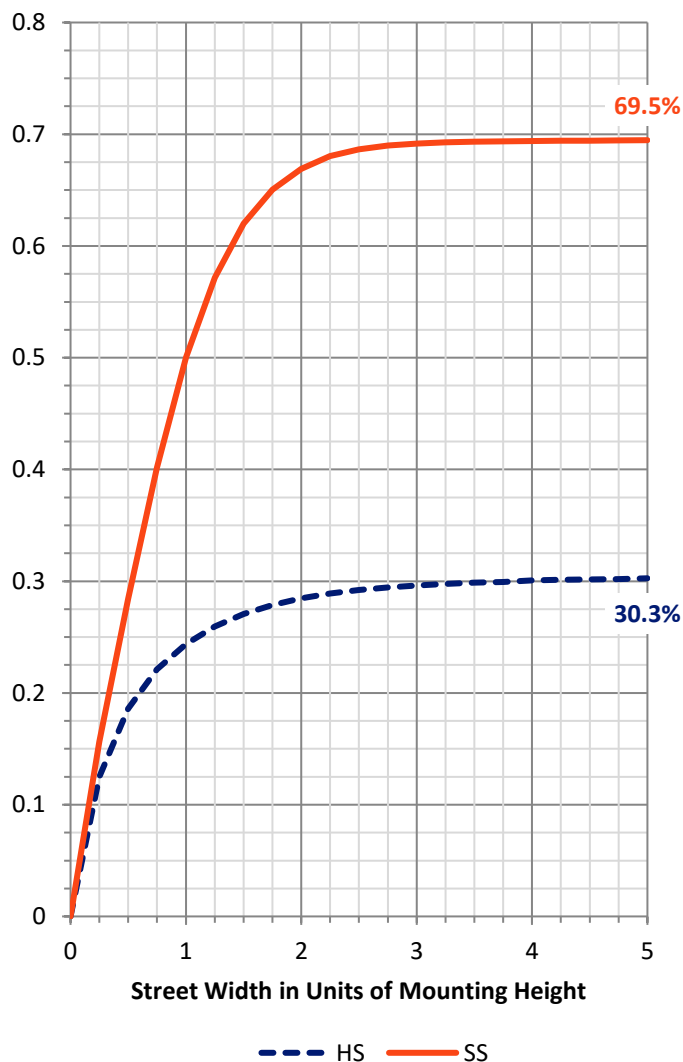
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.9	0.0	1535.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3499.0	0.0	3499.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	5035.0	0.0	5035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.4
10°-20°	370.0	7.3
20°-30°	561.0	11.1
30°-40°	810.6	16.1
40°-50°	1083.1	21.5
50°-60°	1209.0	24.0
60°-70°	663.2	13.2
70°-80°	143.4	2.8
80°-90°	23.2	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°	5035.0	100.0
0°-180°	5035.0	100.0

Coefficient of Utilization



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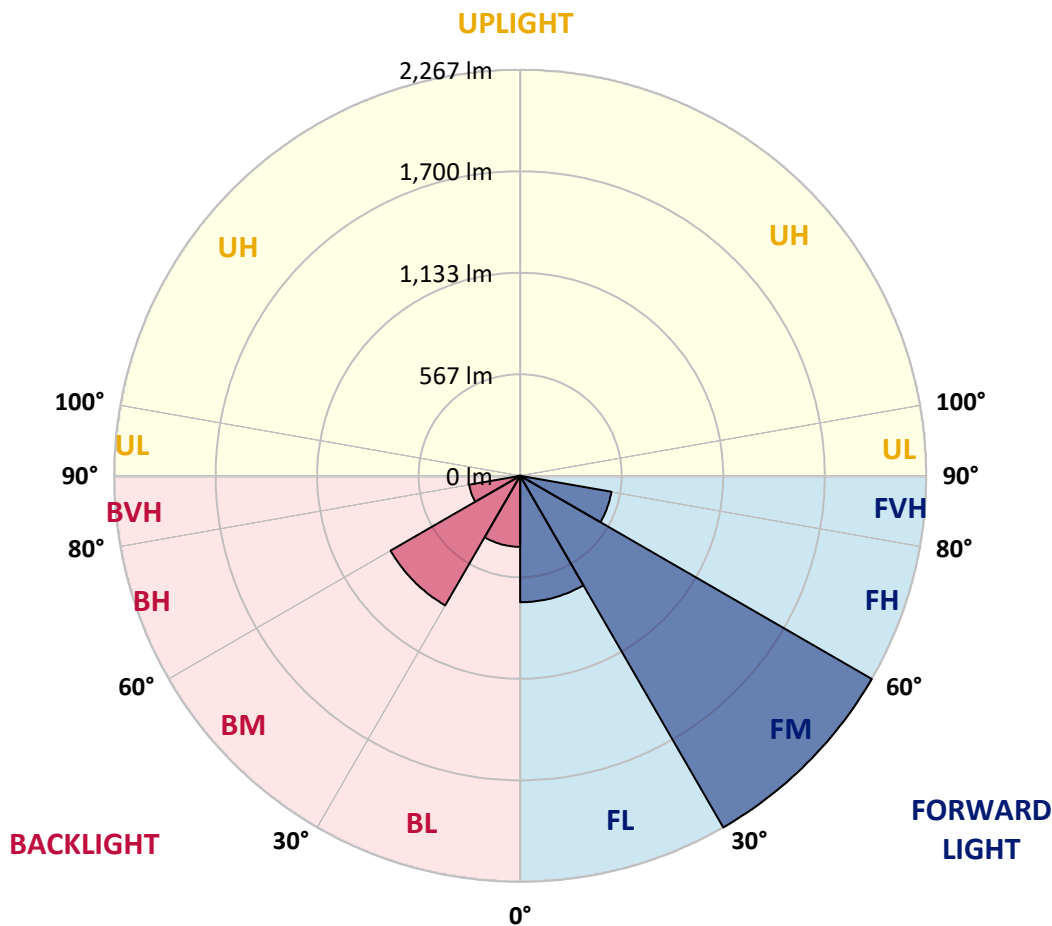
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.0	14.0			
FM (30°-60°)	2267.0	45.0			
FH (60°-80°)	517.5	10.3			G0/660
FVH (80°-90°)	8.6	0.2			G0/10
BL (0°-30°)	396.6	7.9	B1/500		
BM (30°-60°)	835.7	16.6	B1/1000		
BH (60°-80°)	289.1	5.7	B1/500		G1/500
BVH (80°-90°)	14.6	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°	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0
2.5°	2357.0	2343.8	2355.5	2411.4	2443.8	2465.8	2479.8	2477.6	2424.7	2373.2	2373.2
5°	2287.9	2271.0	2295.3	2421.7	2548.9	2559.9	2578.3	2548.2	2470.2	2376.1	2258.5
7.5°	2087.9	2100.4	2140.9	2307.0	2472.4	2555.5	2577.6	2539.3	2412.9	2237.2	2064.4
10°	1915.2	1944.6	2037.9	2217.3	2369.5	2477.6	2501.8	2448.2	2348.2	2132.8	1978.4
12.5°	1855.6	1837.2	1940.9	2120.3	2265.8	2323.9	2335.0	2338.6	2271.0	2079.8	1891.6
15°	1848.3	1860.0	1940.9	2076.9	2166.6	2169.5	2187.9	2216.6	2225.4	2115.9	1932.1
17.5°	1954.1	1940.2	2023.2	2131.3	2088.7	2046.0	2050.4	2091.6	2164.4	2146.7	2059.3
20°	2110.7	2142.3	2207.8	2196.7	2082.1	1974.0	1974.7	2013.7	2157.0	2274.7	2236.4
22.5°	2371.0	2401.9	2450.4	2317.3	2082.1	1952.7	1927.7	1980.6	2204.1	2426.9	2436.4
25°	2608.4	2665.1	2678.3	2521.7	2186.4	1972.5	1956.3	2008.5	2251.1	2575.4	2665.8
27.5°	2824.6	2845.2	2903.3	2653.3	2244.5	1985.7	1984.3	2051.2	2310.7	2649.6	2870.9
30°	2995.2	2993.0	3026.0	2736.4	2337.2	2060.0	1988.7	2115.1	2388.6	2772.4	3060.6
32.5°	3111.3	3136.3	3206.2	2851.8	2376.1	2130.6	2074.7	2190.1	2483.5	2830.5	3194.4
35°	3315.7	3359.1	3270.9	2915.8	2499.6	2200.4	2135.0	2292.3	2530.5	2893.7	3358.3
37.5°	3508.3	3475.2	3385.5	2950.3	2579.8	2329.8	2268.8	2490.1	2676.8	3031.2	3467.1
40°	3631.8	3631.1	3471.6	2978.2	2636.4	2527.6	2523.9	2690.8	2856.2	3117.9	3589.2
42.5°	3685.5	3737.0	3506.8	2975.3	2755.5	2767.2	2841.5	2990.7	2983.4	3135.6	3586.2
44°	3759.0	3789.9	3567.9	2981.9	2834.9	2929.0	3104.0	3198.8	3094.4	3126.0	3582.6
45°	3756.1	3758.3	3481.1	2990.7	2902.5	3064.3	3220.9	3381.1	3192.2	3105.4	3631.1
47.5°	3670.1	3645.1	3407.6	2925.3	3113.5	3421.6	3566.4	3663.4	3312.8	3061.3	3570.8
50°	3500.2	3471.6	3228.9	2897.4	3157.6	3643.6	3843.6	3878.9	3422.3	3017.9	3511.3
52.5°	3512.0	3503.9	3279.7	2939.3	3201.7	3713.4	4034.0	4042.8	3546.5	3109.1	3512.0
55°	3722.3	3694.3	3425.2	2991.5	3169.4	3631.8	3912.7	3897.2	3504.6	3054.0	3576.7
57.5°	3406.1	3424.5	3223.8	2784.9	2773.9	2952.5	3076.0	3037.8	2924.6	2756.2	3327.5
60°	2748.1	2800.3	2819.4	2329.1	2093.1	2001.2	1964.4	1896.8	1915.9	2264.4	2923.1
62.5°	2357.0	2354.1	2473.9	2111.5	1371.1	1179.2	1161.6	1177.0	1397.6	2229.1	2862.8
65°	1868.8	1918.8	1955.6	1789.4	1085.1	875.6	874.9	972.7	1209.4	1863.0	2311.4
67.5°	1186.6	1252.0	1297.6	1144.7	725.6	623.4	606.5	724.2	838.1	1221.9	1391.7
70°	669.0	699.9	720.5	660.2	461.7	323.5	304.4	332.3	506.5	791.1	824.9
72.5°	258.1	272.0	300.0	302.2	174.2	104.4	84.5	101.5	213.2	313.2	298.5
75°	39.7	42.6	60.3	72.0	50.0	38.2	40.4	41.9	59.6	80.9	67.6
77.5°	19.1	19.1	18.4	21.3	25.0	27.2	29.4	32.3	35.3	39.0	37.5
80°	12.5	12.5	12.5	14.7	18.4	22.1	25.0	26.5	27.9	30.9	29.4
82.5°	8.1	8.1	8.1	11.0	14.7	18.4	19.9	23.5	26.5	30.9	28.7
85°	4.4	4.4	4.4	7.4	11.0	15.4	14.7	11.8	6.6	0.7	1.5
87.5°	1.5	1.5	1.5	1.5	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°	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0
2.5°	2311.4	2277.6	2274.7	2205.6	2143.8	2113.7	2089.4	2021.8	2036.5	1997.5	1996.8
5°	2199.7	2130.6	2018.8	1926.9	1835.0	1816.6	1736.5	1666.7	1668.9	1618.9	1627.7
7.5°	1999.0	1951.2	1815.2	1671.1	1549.0	1462.3	1386.6	1341.0	1282.9	1263.1	1252.8
10°	1871.8	1813.0	1660.1	1479.2	1342.5	1296.1	1223.4	1182.9	1123.4	1094.0	1073.4
12.5°	1815.9	1729.9	1538.7	1355.0	1263.8	1216.0	1154.2	1080.7	1010.1	982.9	945.5
15°	1821.8	1718.9	1503.5	1305.0	1195.4	1102.8	1047.6	966.0	894.0	846.2	819.0
17.5°	1910.8	1785.8	1519.6	1266.7	1109.4	993.2	885.2	796.9	739.6	703.6	694.8
20°	2121.0	1951.2	1546.8	1205.0	1023.4	878.5	745.5	653.6	609.5	608.7	609.5
22.5°	2296.0	2127.6	1602.0	1168.2	937.4	731.5	599.2	569.8	560.9	579.3	581.5
25°	2532.0	2326.1	1696.8	1149.1	858.0	623.4	541.8	530.8	530.1	553.6	554.3
27.5°	2773.9	2499.6	1753.4	1093.2	777.1	567.6	507.3	505.1	516.8	541.8	539.6
30°	2938.5	2645.2	1855.6	1026.3	681.5	518.3	493.3	496.3	512.4	531.5	534.5
32.5°	3130.4	2788.6	1882.1	989.6	622.7	477.1	459.5	466.1	486.7	516.8	533.0
35°	3350.3	2890.0	1922.5	939.6	600.6	445.5	436.7	444.1	469.0	488.9	506.5
37.5°	3512.7	3069.4	1929.9	900.6	576.4	427.9	413.9	438.2	452.9	480.8	489.6
40°	3633.3	3199.5	1949.0	876.3	557.3	405.1	405.1	421.3	441.1	466.8	484.5
42.5°	3710.5	3294.4	1963.0	854.3	520.5	398.5	394.8	411.0	437.4	462.4	470.5
44°	3757.5	3334.8	1949.0	833.7	510.2	390.4	390.4	404.4	424.9	454.3	463.9
45°	3769.3	3385.5	1918.1	833.0	497.7	380.8	379.4	405.8	419.8	455.8	461.7
47.5°	3814.9	3448.0	1921.8	809.4	467.6	358.0	383.8	395.5	408.0	439.6	459.5
50°	3813.4	3487.0	1913.7	774.9	445.5	332.3	374.9	388.2	400.7	433.0	441.1
52.5°	3823.7	3632.6	1987.9	719.7	405.8	299.2	345.5	374.9	390.4	417.6	434.5
55°	3818.6	3715.6	2061.5	678.6	349.9	279.4	320.5	355.1	377.2	405.8	413.9
57.5°	3487.7	3284.1	1907.8	601.4	289.7	255.8	285.3	334.5	362.4	391.9	402.1
60°	2849.6	2531.3	1573.3	442.6	238.2	235.3	265.4	327.9	339.7	365.4	383.0
62.5°	2633.4	2220.3	1247.6	338.2	203.6	215.4	244.8	296.3	314.7	346.3	362.4
65°	2060.7	1474.8	772.7	228.6	179.4	193.4	221.3	259.5	289.7	319.1	338.2
67.5°	1220.4	805.8	382.3	160.3	156.6	171.3	200.0	228.6	263.2	295.5	305.1
70°	664.6	396.3	163.2	122.0	133.1	146.3	174.2	194.1	227.2	252.2	268.3
72.5°	213.2	120.6	81.6	90.4	101.5	116.9	133.8	158.1	181.6	196.3	209.5
75°	51.5	50.7	58.1	63.2	73.5	85.3	99.3	111.7	130.1	144.1	155.9
77.5°	36.0	39.0	44.8	52.2	55.9	60.3	69.1	78.7	86.8	97.0	104.4
80°	27.9	30.1	34.6	38.2	41.9	45.6	50.0	53.7	58.8	65.4	69.1
82.5°	26.5	27.9	32.3	34.6	33.1	32.3	35.3	36.8	37.5	39.7	41.9
85°	2.2	0.0	1.5	5.1	12.5	18.4	19.9	19.9	19.1	20.6	20.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.9	2.2
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°	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0
2.5°	1987.9	1963.0	1972.5	1984.3	1967.4	1928.4	1938.7	1934.3	1974.0	1971.0	2010.7
5°	1666.7	1627.7	1632.1	1689.5	1671.1	1690.9	1651.2	1646.1	1653.4	1657.1	1663.7
7.5°	1275.6	1270.4	1314.5	1363.0	1385.8	1362.3	1323.3	1314.5	1306.4	1290.3	1327.0
10°	1041.0	1042.5	1039.6	1076.3	1102.0	1096.9	1073.4	1070.4	1055.0	1049.1	1069.7
12.5°	929.3	909.4	899.9	888.1	908.0	921.2	910.9	903.5	904.3	911.6	914.6
15°	821.2	808.7	788.1	774.9	784.4	777.8	774.2	788.9	785.2	783.7	801.4
17.5°	699.9	710.2	708.7	694.0	706.5	701.4	700.6	690.3	676.4	666.1	672.0
20°	619.8	638.9	653.6	654.3	660.9	660.2	649.2	617.6	607.3	605.1	606.5
22.5°	591.1	601.4	619.0	644.0	644.0	632.3	619.0	582.3	572.7	562.4	558.0
25°	568.3	588.2	610.9	613.9	625.6	614.6	593.3	574.9	555.1	541.1	541.1
27.5°	556.5	578.6	595.5	600.6	616.8	608.0	585.9	562.4	538.9	538.2	525.7
30°	551.4	572.0	583.0	595.5	602.9	588.9	582.3	557.3	533.7	527.9	507.3
32.5°	536.0	565.4	585.9	583.0	588.9	583.0	573.4	552.9	526.4	513.2	511.0
35°	518.3	547.7	569.8	585.2	588.9	576.4	570.5	542.6	506.5	499.9	477.1
37.5°	508.8	526.4	553.6	578.6	583.7	577.1	557.3	528.6	492.6	485.2	465.4
40°	497.0	519.8	541.1	561.7	577.1	560.9	538.2	510.2	494.0	472.0	466.1
42.5°	488.2	513.9	531.5	554.3	572.0	550.7	524.2	505.1	482.3	467.6	450.7
44°	485.2	508.8	520.5	548.5	563.2	547.0	524.9	505.1	478.6	465.4	450.7
45°	474.9	507.3	519.8	544.8	557.3	544.0	516.1	496.3	477.1	461.0	445.5
47.5°	464.6	486.7	508.0	527.9	536.7	532.3	508.8	484.5	461.7	452.1	437.4
50°	461.7	483.8	503.6	522.0	532.3	523.5	502.1	478.6	452.1	436.7	424.2
52.5°	447.0	474.2	496.3	502.1	515.4	510.2	494.0	468.3	443.3	430.1	419.8
55°	425.7	454.3	484.5	491.8	511.0	502.9	478.6	454.3	433.0	413.2	399.9
57.5°	417.6	445.5	474.9	484.5	496.3	483.0	477.1	451.4	417.6	407.3	386.7
60°	397.0	432.3	456.6	478.6	479.3	475.7	465.4	436.0	408.0	388.9	374.2
62.5°	380.8	413.9	433.0	453.6	466.1	455.8	445.5	418.3	388.2	366.9	349.9
65°	357.3	387.4	403.6	416.1	430.1	428.6	411.0	391.1	359.5	342.6	326.4
67.5°	321.3	347.7	369.8	381.6	390.4	388.2	374.9	361.0	328.6	311.7	300.0
70°	277.9	305.1	319.1	325.7	334.5	338.9	328.6	322.0	293.3	271.3	260.3
72.5°	223.5	241.1	261.7	267.6	271.3	274.2	274.2	268.3	238.9	230.1	211.0
75°	164.7	178.7	194.1	194.1	200.7	201.4	202.9	199.2	177.2	165.4	161.0
77.5°	111.7	122.0	134.5	139.7	144.1	143.4	142.6	132.3	120.6	115.4	111.0
80°	72.8	83.1	89.0	95.6	100.0	99.3	100.7	93.4	88.2	79.4	80.9
82.5°	43.4	51.5	57.3	65.4	65.4	67.6	67.6	65.4	60.3	55.9	55.9
85°	20.6	27.2	30.9	36.0	39.0	39.7	35.3	30.1	25.0	22.8	25.0
87.5°	3.7	5.1	7.4	6.6	8.1	7.4	7.4	7.4	7.4	5.9	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°	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0	2246.0
2.5°	1996.0	2032.8	2058.5	2101.2	2174.7	2233.5	2293.8	2338.6	2343.8	2357.0
5°	1688.0	1707.8	1773.3	1858.6	1918.8	2018.1	2082.1	2198.2	2241.6	2287.9
7.5°	1318.2	1350.5	1438.0	1495.4	1627.7	1752.0	1880.6	2024.0	2081.3	2087.9
10°	1111.6	1158.7	1218.2	1310.1	1382.2	1520.4	1680.6	1840.2	1904.1	1915.2
12.5°	976.3	1036.6	1116.0	1182.2	1251.3	1371.9	1525.5	1722.5	1805.6	1855.6
15°	846.2	908.7	996.2	1088.1	1149.1	1293.2	1474.1	1696.1	1804.2	1848.3
17.5°	712.4	770.5	842.5	941.8	1064.6	1226.3	1466.0	1784.3	1902.7	1954.1
20°	597.7	630.1	713.9	816.1	969.7	1157.9	1468.9	1914.4	2087.9	2110.7
22.5°	552.9	560.2	593.3	687.4	855.8	1088.1	1521.1	2099.0	2296.0	2371.0
25°	518.3	516.8	525.7	588.9	772.7	1060.9	1572.6	2268.8	2526.8	2608.4
27.5°	499.2	484.5	485.2	544.8	713.9	1016.8	1638.7	2463.6	2788.6	2824.6
30°	489.6	486.7	477.9	502.1	649.9	950.6	1649.8	2655.5	2943.0	2995.2
32.5°	483.8	455.1	444.1	452.9	589.6	878.5	1690.9	2782.0	3134.1	3111.3
35°	454.3	428.6	421.3	430.1	547.0	838.1	1663.7	2892.2	3277.5	3315.7
37.5°	443.3	420.5	405.8	398.5	507.3	804.3	1649.8	3062.1	3416.4	3508.3
40°	433.0	408.8	391.1	383.8	476.4	759.4	1645.4	3192.9	3576.7	3631.8
42.5°	421.3	405.8	386.0	372.7	438.9	714.6	1594.6	3233.4	3625.9	3685.5
44°	417.6	394.1	373.5	369.1	424.2	691.8	1584.3	3270.1	3668.6	3759.0
45°	413.9	391.9	368.3	362.4	419.1	679.3	1570.4	3278.9	3739.2	3756.1
47.5°	403.6	389.6	366.9	350.7	408.0	652.1	1528.5	3228.9	3667.1	3670.1
50°	395.5	379.4	355.8	324.2	393.3	629.3	1547.6	3210.6	3493.6	3500.2
52.5°	386.7	362.4	349.2	294.8	369.1	610.2	1588.0	3293.6	3513.5	3512.0
55°	376.4	349.9	317.6	269.8	328.6	585.9	1685.8	3457.6	3697.3	3722.3
57.5°	360.2	337.5	291.1	247.8	282.3	539.6	1654.2	3143.7	3401.7	3406.1
60°	338.9	317.6	263.9	230.8	231.6	425.7	1479.2	2449.6	2684.2	2748.1
62.5°	318.3	306.6	241.1	206.6	197.0	338.9	1250.6	2035.7	2304.1	2357.0
65°	294.1	265.4	221.3	188.2	169.1	237.5	885.9	1521.1	1797.5	1868.8
67.5°	263.2	232.3	194.8	165.4	144.8	158.8	457.3	864.6	1144.7	1186.6
70°	230.1	201.4	163.9	139.7	116.9	109.5	201.4	412.4	625.6	669.0
72.5°	188.9	162.5	130.9	110.3	87.5	75.7	67.6	110.3	222.0	258.1
75°	136.7	118.4	98.5	78.7	61.8	48.5	39.7	33.1	36.8	39.7
77.5°	100.7	86.0	72.8	55.9	43.4	34.6	27.2	20.6	19.9	19.1
80°	78.7	69.8	58.1	44.8	33.8	25.7	19.1	14.0	12.5	12.5
82.5°	61.8	57.3	47.8	36.8	27.9	20.6	14.0	9.6	8.1	8.1
85°	23.5	23.5	34.6	30.1	21.3	14.7	9.6	5.1	4.4	4.4
87.5°	5.9	5.9	5.9	5.9	5.1	4.4	4.4	2.2	1.5	1.5
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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