

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: P382806

Luminaire Tested: **GLEON-SA1D-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5610.7 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

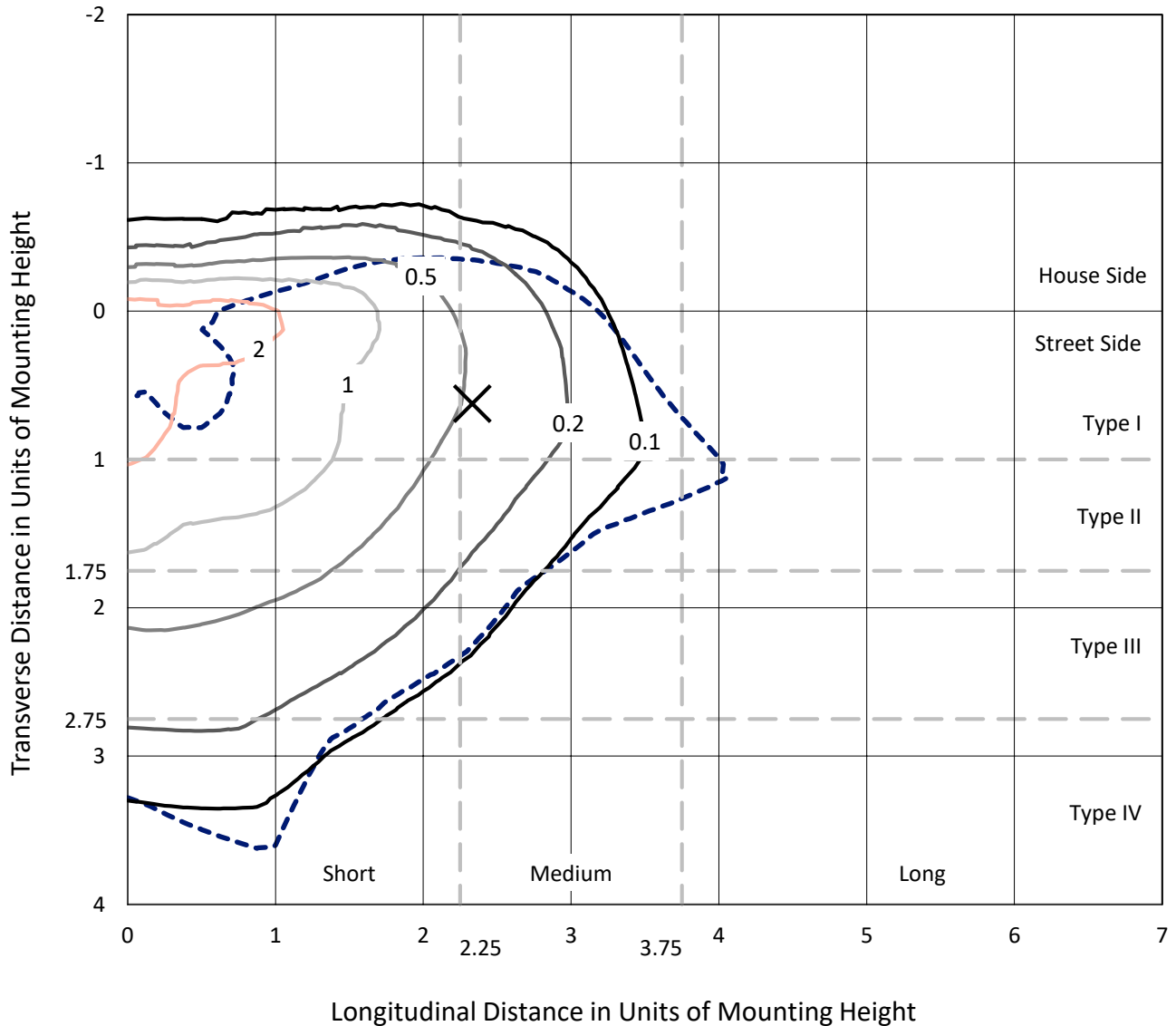
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

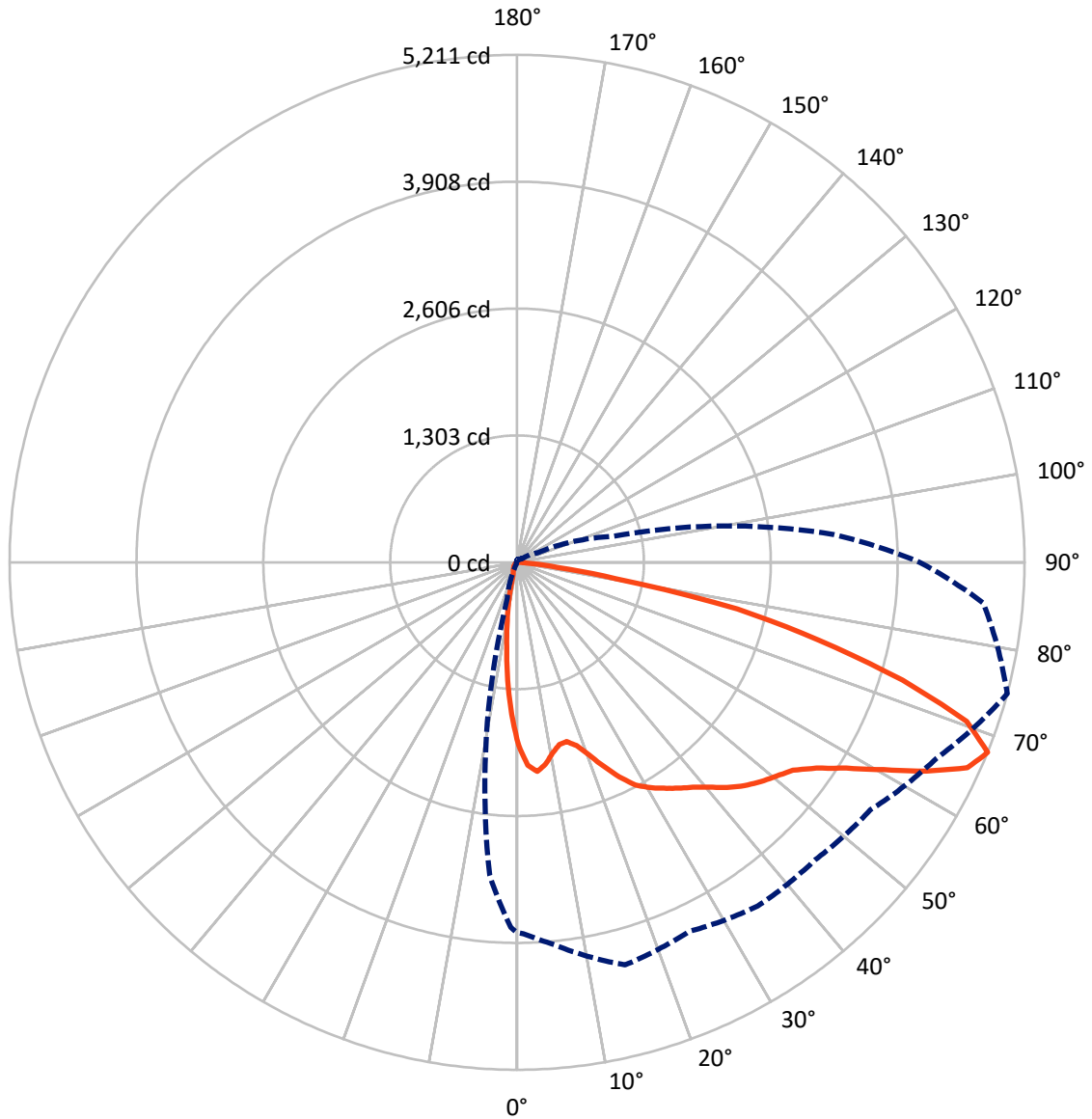
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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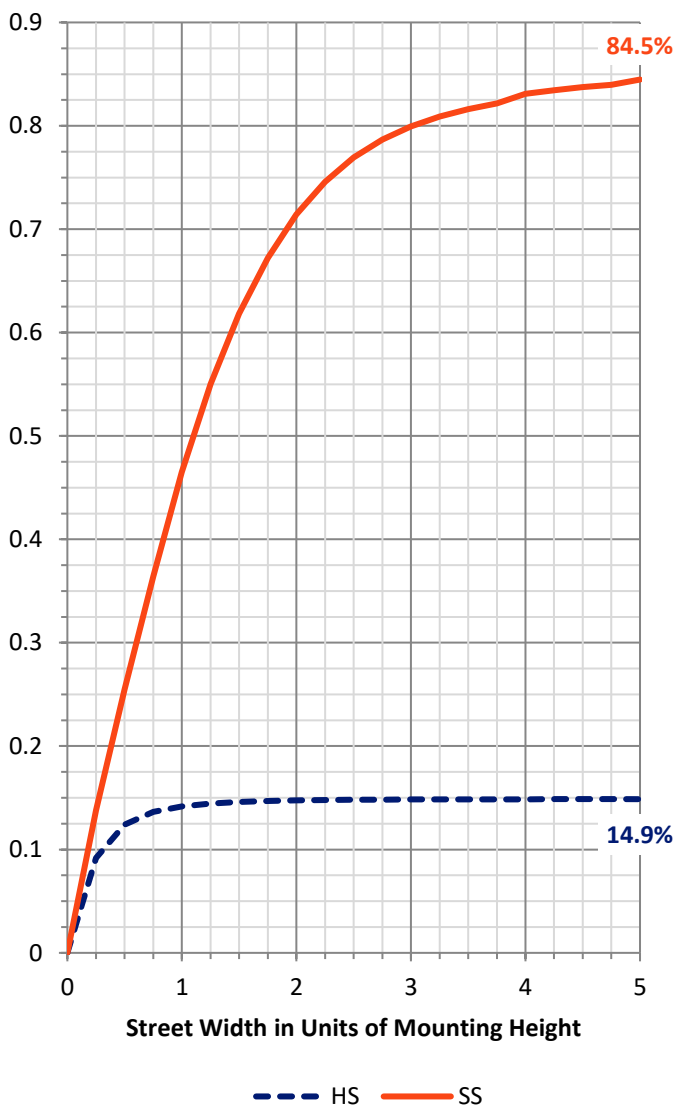
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	841.9	0.0	841.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	4768.8	0.0	4768.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	5610.7	0.0	5610.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	2.5
10°-20°	281.1	5.0
20°-30°	397.7	7.1
30°-40°	584.8	10.4
40°-50°	840.5	15.0
50°-60°	1183.2	21.1
60°-70°	1381.9	24.6
70°-80°	705.0	12.6
80°-90°	93.7	1.7
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°	5610.7	100.0
0°-180°	5610.7	100.0

Coefficient of Utilization

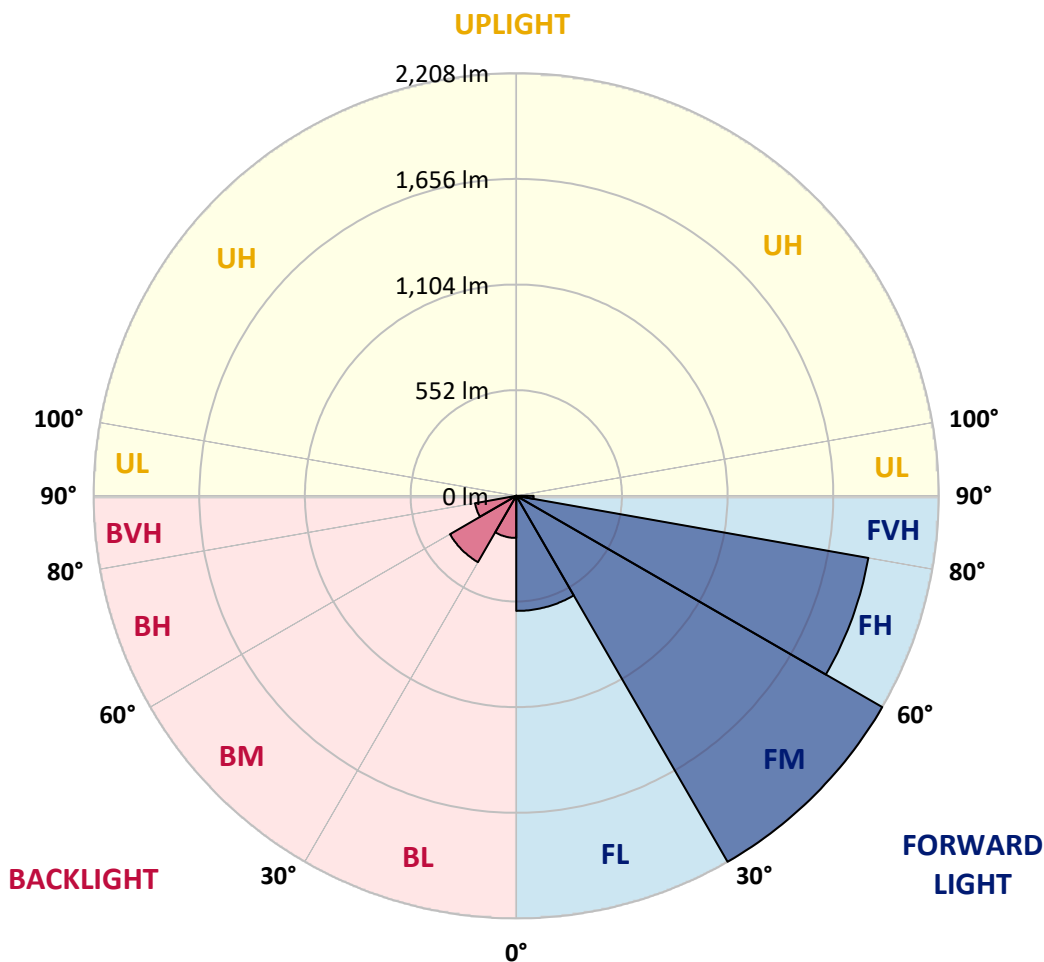


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.5	10.7			
FM (30°-60°)	2208.3	39.4			
FH (60°-80°)	1868.2	33.3			G2/5000
FVH (80°-90°)	90.8	1.6			G1/100
BL (0°-30°)	220.2	3.9	B1/500		
BM (30°-60°)	400.2	7.1	B1/1000		
BH (60°-80°)	218.7	3.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3
2.5°	2040.5	2043.6	2060.1	2098.4	2140.1	2143.3	2171.4	2142.5	2132.7	2085.9	2037.5
5°	2055.8	2068.0	2124.7	2237.1	2334.6	2366.0	2388.4	2331.5	2271.7	2157.4	2035.4
7.5°	1931.8	1952.2	2041.2	2252.3	2426.6	2503.7	2518.3	2429.3	2282.9	2094.7	1911.3
10°	1772.8	1796.2	1903.5	2163.0	2402.5	2534.6	2554.8	2438.0	2227.5	1993.1	1777.0
12.5°	1644.2	1671.6	1781.3	2062.5	2319.3	2465.4	2505.3	2408.5	2179.7	1921.1	1685.4
15°	1584.8	1616.2	1731.6	1997.6	2227.1	2342.1	2375.1	2333.3	2153.2	1909.7	1664.1
17.5°	1618.9	1652.9	1772.0	2003.2	2140.4	2189.5	2216.2	2233.1	2153.2	1978.5	1726.3
20°	1758.5	1795.1	1921.1	2059.8	2068.6	2050.2	2078.7	2138.6	2178.1	2109.3	1875.7
22.5°	1951.4	1994.4	2136.7	2156.8	2033.6	1964.2	1967.9	2061.7	2223.6	2275.1	2082.9
25°	2186.6	2239.3	2383.8	2301.5	2048.2	1912.8	1911.5	1998.4	2267.9	2441.2	2314.0
27.5°	2420.3	2478.2	2605.3	2477.9	2108.5	1903.5	1900.9	1979.4	2311.3	2589.1	2566.1
30°	2616.2	2672.5	2782.0	2605.7	2173.6	1925.3	1912.6	1999.8	2337.1	2685.0	2750.1
32.5°	2775.6	2820.8	2909.3	2693.8	2243.3	1967.6	1939.9	2054.5	2380.9	2766.0	2919.1
35°	2951.0	2998.6	3034.0	2777.5	2321.4	2028.4	1988.9	2141.4	2448.4	2848.4	3104.4
37.5°	3151.1	3198.5	3194.2	2854.0	2420.5	2129.2	2104.0	2279.1	2553.4	2930.0	3311.2
40°	3347.1	3395.4	3360.8	2937.7	2536.9	2295.3	2276.7	2485.9	2694.0	3034.5	3553.6
42.5°	3530.5	3582.8	3509.0	3016.9	2675.7	2504.7	2536.7	2752.3	2870.0	3163.2	3762.4
45°	3678.2	3731.6	3633.0	3094.0	2821.8	2758.9	2854.8	3047.3	3081.6	3271.8	3903.6
47.5°	3785.6	3836.1	3719.1	3171.1	3009.0	3069.5	3236.8	3356.6	3272.6	3366.1	4003.8
50°	3854.2	3893.5	3744.4	3267.6	3254.5	3432.1	3634.6	3693.1	3452.6	3451.2	4125.5
52.5°	3897.8	3915.6	3763.0	3368.3	3510.7	3826.8	4024.3	4042.6	3637.8	3544.8	4289.5
55°	4047.9	4062.3	3894.8	3490.3	3722.6	4172.6	4376.7	4359.7	3847.5	3728.0	4483.0
57.5°	4304.1	4319.3	4167.3	3665.7	3894.1	4386.3	4632.1	4662.7	4093.4	3985.2	4690.3
60°	4432.8	4461.0	4406.8	3887.9	4060.2	4522.8	4806.2	4903.8	4400.6	4324.3	4891.3
62.5°	4316.1	4357.0	4435.8	4134.3	4225.2	4598.1	4860.4	4990.1	4715.3	4719.6	5015.1
65°	4083.3	4115.9	4249.3	4269.3	4320.9	4588.8	4726.5	4869.5	4908.0	5082.6	5008.5
67.5°	3802.1	3814.3	3927.5	4280.0	4182.2	4309.2	4324.1	4429.9	4755.7	5211.3	4807.3
70°	3397.3	3404.0	3502.8	3924.1	3594.0	3621.9	3599.8	3621.3	4088.6	4897.9	4299.4
72.5°	2734.2	2750.9	2891.5	3258.8	2618.3	2537.7	2711.0	2701.5	3148.7	4138.0	3193.2
75°	2013.1	2042.0	2254.4	2624.9	1837.7	1662.3	1788.8	1822.5	2238.4	3200.9	1996.9
77.5°	1409.4	1431.0	1636.7	1929.6	1330.0	1188.6	1142.9	1183.0	1477.5	2315.5	1006.0
80°	811.9	819.9	951.2	1114.1	896.2	1025.4	928.9	956.6	885.3	1030.2	432.7
82.5°	531.3	532.7	583.9	663.2	558.2	648.5	480.0	613.7	544.6	413.8	140.8
85°	287.0	288.7	338.6	470.7	316.0	178.6	105.0	215.6	336.8	94.9	38.6
87.5°	31.7	29.0	102.1	171.1	87.8	16.2	5.6	24.2	53.9	6.1	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°	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3
2.5°	2012.8	1990.7	1935.8	1877.5	1830.8	1786.9	1742.7	1688.8	1647.1	1638.6	1624.7
5°	1969.8	1899.8	1784.5	1668.6	1575.3	1457.6	1382.9	1324.7	1267.8	1264.4	1252.9
7.5°	1819.3	1727.4	1564.9	1404.7	1273.4	1161.2	1048.0	972.3	912.7	891.7	879.2
10°	1674.7	1571.3	1368.5	1185.7	1068.5	969.4	889.6	810.4	738.6	689.2	666.9
12.5°	1573.8	1459.5	1235.9	1078.3	994.3	900.2	802.9	704.1	621.4	561.9	525.5
15°	1534.6	1412.7	1191.5	1035.8	932.1	813.1	688.7	575.7	484.0	430.0	397.3
17.5°	1581.1	1439.2	1188.1	983.9	839.0	691.0	553.6	420.2	333.9	292.9	271.9
20°	1699.1	1523.7	1186.7	920.5	728.6	546.4	375.0	276.4	224.0	201.2	191.3
22.5°	1866.1	1631.7	1197.4	857.7	613.4	390.4	258.9	203.1	176.2	164.0	158.4
25°	2080.8	1783.2	1227.4	800.9	505.3	291.3	201.8	170.1	151.2	141.7	137.7
27.5°	2309.7	1957.6	1274.2	751.4	417.2	232.3	172.8	145.7	132.1	125.5	121.8
30°	2498.4	2159.5	1321.5	696.3	353.5	202.5	158.2	132.9	117.2	113.0	109.5
32.5°	2663.5	2312.4	1354.9	646.7	311.8	180.0	143.0	118.8	108.2	100.0	96.2
35°	2834.3	2439.6	1353.9	611.8	283.1	162.9	130.2	106.3	93.5	84.0	81.0
37.5°	3019.3	2583.5	1330.8	582.0	270.6	149.3	123.1	99.7	86.9	77.3	73.6
40°	3235.9	2734.4	1307.1	554.2	267.1	138.5	118.0	94.4	80.8	71.5	67.8
42.5°	3447.0	2870.5	1286.4	533.4	252.3	138.2	113.5	90.4	76.0	67.0	62.7
45°	3615.7	2997.3	1282.5	520.9	236.5	143.0	111.1	87.8	72.3	63.3	59.2
47.5°	3756.1	3134.9	1307.9	512.2	221.7	130.5	116.9	85.9	68.8	60.1	55.5
50°	3923.0	3304.0	1368.0	497.8	206.0	117.5	134.0	86.4	66.0	56.9	52.1
52.5°	4155.8	3537.9	1456.3	473.6	184.4	105.5	131.8	86.9	62.7	53.4	48.6
55°	4416.8	3830.0	1551.1	433.5	154.5	89.8	113.0	83.2	56.6	49.7	45.2
57.5°	4691.1	4095.0	1607.5	385.7	122.8	77.6	90.4	75.7	49.9	44.6	41.7
60°	4734.2	4195.7	1581.7	326.9	97.5	67.5	67.0	77.0	44.6	39.3	37.2
62.5°	4627.1	4069.2	1457.0	274.5	81.6	59.2	55.1	67.3	40.4	35.1	33.0
65°	4421.1	3727.1	1255.1	247.4	75.7	50.8	45.7	47.3	35.3	30.6	28.7
67.5°	4134.6	3270.5	1030.5	232.0	75.0	43.6	39.0	35.9	30.6	26.5	25.0
70°	3548.7	2724.6	822.1	223.6	72.8	36.7	33.0	29.3	25.5	22.6	21.2
72.5°	2611.9	1930.6	639.5	214.3	73.3	29.3	28.7	24.2	20.5	17.5	17.0
75°	1509.1	1103.0	419.4	173.5	69.9	22.6	23.9	17.0	14.3	12.2	12.2
77.5°	804.3	672.7	159.8	72.3	25.5	14.3	13.6	10.1	9.0	7.5	7.2
80°	350.5	296.0	48.1	20.2	14.1	7.7	5.0	4.6	4.0	3.2	2.9
82.5°	124.1	107.1	15.6	9.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.1	20.2	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3
2.5°	1596.6	1590.7	1556.2	1557.5	1563.6	1572.4	1551.7	1561.3	1587.0	1611.8	1621.0
5°	1234.6	1235.9	1214.9	1228.0	1239.6	1247.6	1214.1	1214.6	1235.1	1263.0	1277.6
7.5°	869.9	867.8	868.9	900.0	922.0	906.0	918.6	875.2	877.9	897.8	882.9
10°	646.7	617.4	600.9	624.3	648.5	639.8	618.2	604.1	614.0	636.1	634.5
12.5°	508.2	466.1	441.5	424.7	444.6	428.1	427.7	415.5	402.1	404.6	439.9
15°	382.2	351.7	322.4	295.6	295.0	289.4	261.0	229.1	226.5	228.0	246.4
17.5°	262.9	252.5	240.5	217.4	211.3	187.9	160.2	147.6	141.1	144.0	150.2
20°	184.7	180.7	182.0	169.5	160.8	138.5	122.2	117.2	116.2	119.1	122.0
22.5°	153.1	145.9	145.1	139.5	130.8	114.6	105.8	102.8	101.5	104.1	106.3
25°	134.0	126.8	123.9	120.4	111.1	100.0	94.6	91.9	90.6	92.2	93.5
27.5°	118.0	111.3	108.7	106.3	97.3	89.3	85.1	82.6	81.6	82.2	83.5
30°	106.0	100.2	96.8	93.8	86.1	80.6	76.9	74.4	73.3	73.3	74.7
32.5°	93.5	90.4	87.2	83.5	76.3	72.6	68.8	66.1	65.1	65.4	66.4
35°	77.9	76.9	77.6	74.2	68.0	64.8	61.1	58.2	57.4	57.7	58.8
37.5°	69.1	64.3	67.3	65.4	61.9	57.7	52.9	50.2	48.9	49.7	50.2
40°	63.5	57.7	55.5	57.4	56.9	49.9	45.7	43.0	42.0	42.3	42.8
42.5°	58.8	51.8	47.0	46.8	49.9	43.6	39.0	36.7	35.3	35.3	35.9
45°	54.2	46.8	40.9	36.4	42.0	37.0	32.7	30.6	29.0	29.0	29.3
47.5°	50.8	42.6	35.6	29.8	31.7	30.3	26.8	24.7	23.1	23.1	23.4
50°	47.6	38.3	30.8	25.0	23.7	25.0	21.8	19.4	18.4	18.1	18.6
52.5°	44.2	34.0	26.3	21.2	18.6	18.9	17.0	15.4	14.1	14.1	14.6
55°	40.7	30.6	22.8	18.1	15.4	14.1	13.6	12.5	11.5	11.5	11.9
57.5°	37.2	26.8	19.4	14.9	12.2	11.2	11.2	10.3	9.6	9.6	10.1
60°	34.0	23.1	15.9	12.2	9.6	9.3	9.6	8.8	8.2	8.2	8.8
62.5°	30.3	19.7	13.0	10.1	7.7	7.5	8.2	7.7	7.2	7.2	7.7
65°	25.8	16.8	10.3	7.7	5.9	5.9	6.9	6.3	5.9	5.9	6.3
67.5°	21.8	14.1	8.0	5.6	4.3	4.6	5.9	5.3	5.0	5.0	5.6
70°	18.1	10.9	5.6	3.4	2.4	3.4	4.6	4.6	4.6	4.6	5.0
72.5°	13.6	7.5	3.2	1.3	1.0	2.4	3.7	4.3	4.0	4.0	4.8
75°	8.8	4.3	1.0	0.0	0.0	1.3	2.9	3.4	3.4	3.2	4.0
77.5°	5.0	1.3	0.0	0.0	0.0	0.0	1.9	1.6	1.3	1.0	1.9
80°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3	1882.3
2.5°	1658.5	1689.8	1734.0	1780.7	1852.8	1910.0	1966.0	2014.1	2032.7	2040.5
5°	1312.7	1358.7	1423.3	1506.2	1636.2	1753.1	1871.7	1991.0	2042.8	2055.8
7.5°	942.0	1000.7	1082.8	1186.7	1339.0	1490.6	1656.1	1831.2	1911.5	1931.8
10°	697.2	768.9	863.0	972.5	1117.9	1273.6	1454.1	1654.2	1745.9	1772.8
12.5°	494.7	591.6	717.7	850.8	976.7	1115.8	1298.4	1519.0	1615.2	1644.2
15°	290.5	384.4	533.4	711.8	873.1	1014.0	1199.5	1449.6	1555.7	1584.8
17.5°	166.7	213.4	326.1	524.9	743.9	939.0	1168.4	1466.9	1591.8	1618.9
20°	127.3	142.2	187.9	338.1	592.9	865.4	1168.4	1564.7	1718.6	1758.5
22.5°	111.3	122.2	140.8	201.8	436.4	786.5	1181.9	1706.0	1907.3	1951.4
25°	98.8	108.7	124.6	151.7	297.7	692.6	1214.1	1879.7	2129.5	2186.6
27.5°	88.5	97.8	112.2	132.9	203.6	579.4	1257.4	2083.2	2374.5	2420.3
30°	79.2	87.9	101.0	115.6	157.1	451.1	1294.4	2275.1	2567.0	2616.2
32.5°	70.4	78.4	90.1	101.0	128.6	333.6	1298.4	2427.1	2726.7	2775.6
35°	62.2	69.4	80.0	88.5	106.6	263.3	1236.4	2559.0	2886.4	2951.0
37.5°	54.2	61.1	70.4	76.9	93.8	214.7	1141.8	2706.0	3091.3	3151.1
40°	46.8	52.9	62.4	66.7	88.8	165.1	1039.0	2860.1	3292.3	3347.1
42.5°	39.9	45.7	55.1	63.3	77.9	123.3	927.8	3004.7	3473.0	3530.5
45°	33.3	39.3	48.6	67.0	64.6	92.2	809.0	3100.7	3615.7	3678.2
47.5°	26.8	33.7	46.5	63.8	51.6	67.8	715.0	3191.6	3724.0	3785.6
50°	21.5	28.4	52.4	56.9	42.3	51.8	675.7	3272.9	3794.9	3854.2
52.5°	17.5	23.9	49.5	43.6	35.3	42.8	696.9	3404.7	3860.5	3897.8
55°	14.6	18.9	29.8	30.3	30.0	36.4	723.2	3594.0	4030.3	4047.9
57.5°	12.8	15.2	20.8	23.4	25.2	32.4	723.7	3865.5	4293.2	4304.1
60°	10.9	13.3	17.2	18.9	21.8	29.0	697.4	3960.5	4396.6	4432.8
62.5°	9.6	11.7	14.3	15.6	18.4	26.1	635.8	3823.1	4254.8	4316.1
65°	8.5	10.6	11.9	13.3	16.2	23.4	534.2	3548.3	4019.3	4083.3
67.5°	7.5	9.3	10.6	11.9	14.6	20.8	393.4	3229.0	3748.9	3802.1
70°	6.6	8.2	9.6	10.6	12.8	17.5	238.7	2740.0	3375.2	3397.3
72.5°	6.3	7.5	8.8	9.6	11.2	15.4	120.9	2013.6	2698.2	2734.2
75°	5.6	6.6	8.0	8.5	9.9	13.3	49.2	1322.5	1955.4	2013.1
77.5°	4.6	6.1	7.2	7.7	8.5	10.9	25.0	845.2	1372.3	1409.4
80°	1.6	4.6	6.1	6.3	7.2	8.0	16.5	462.7	796.0	811.9
82.5°	0.0	2.9	4.8	4.6	5.0	6.1	10.6	220.0	525.5	531.3
85°	0.0	1.3	3.7	2.9	2.1	4.3	3.7	48.1	275.6	287.0
87.5°	0.0	0.0	0.3	1.3	1.0	1.6	0.6	0.3	25.0	31.7
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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