

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: P270222

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SLR-7027-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6249.2 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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: 25 FT

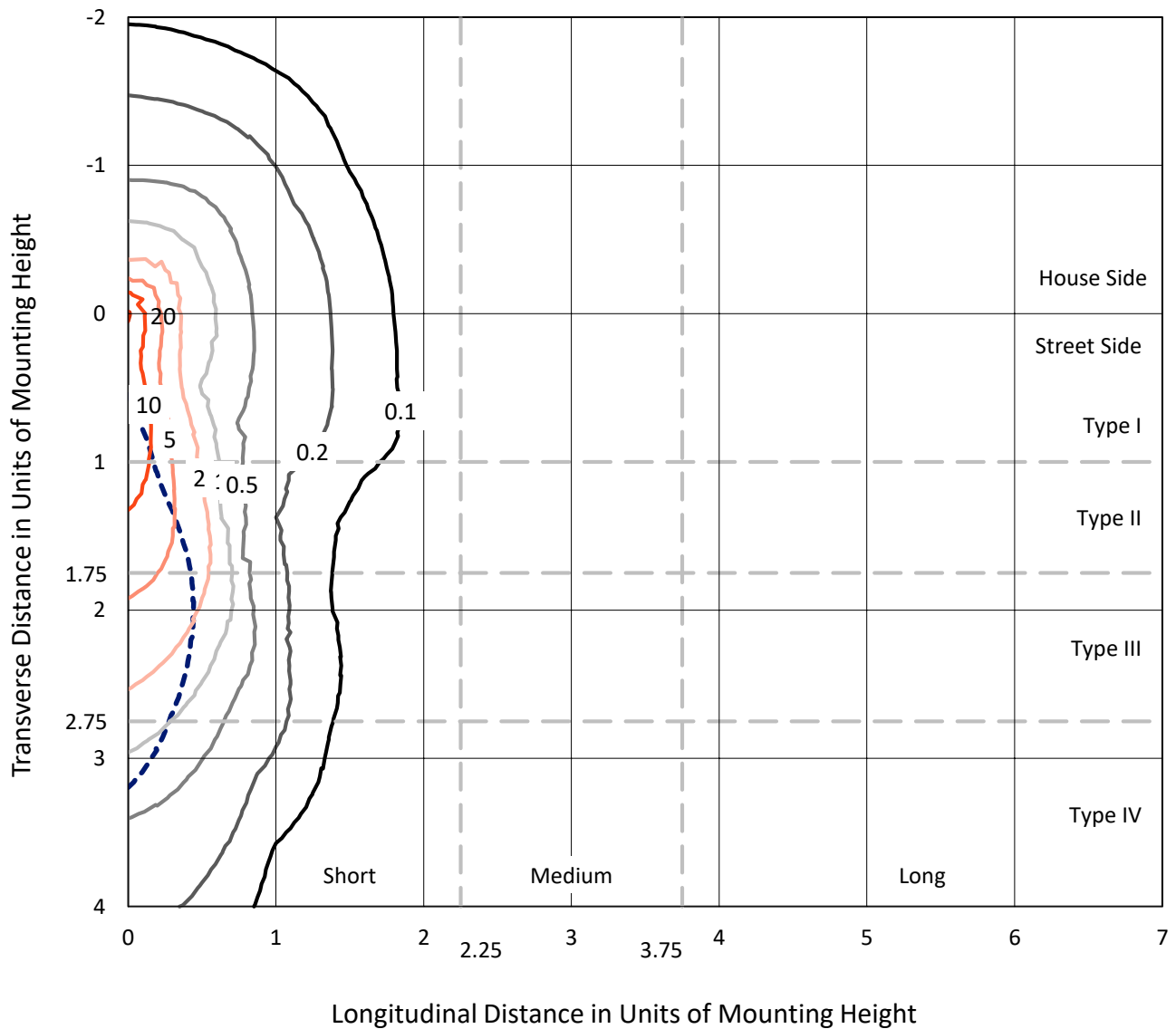


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

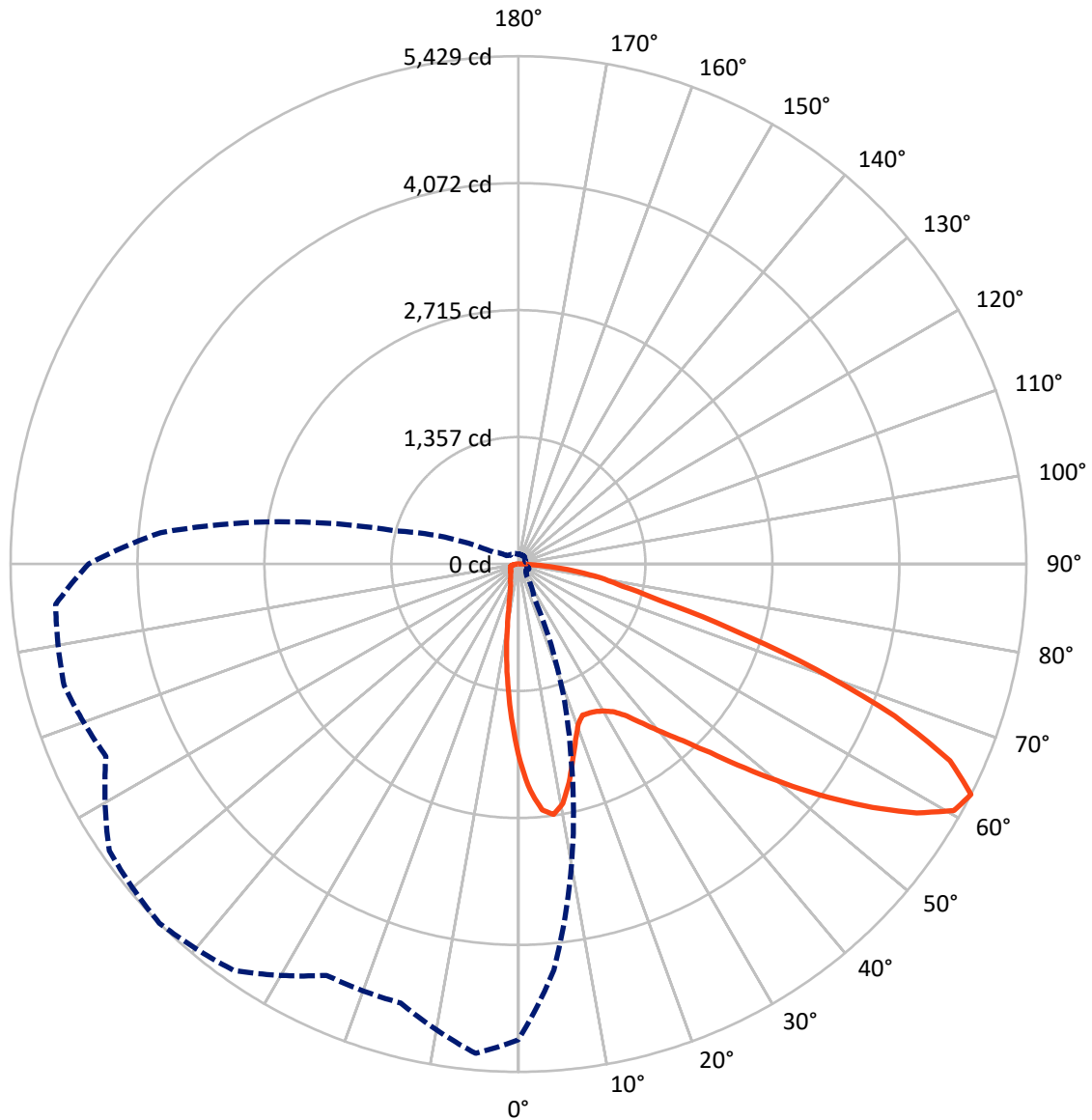


Based on 10 foot mounting height. Maximum calculated value = 21.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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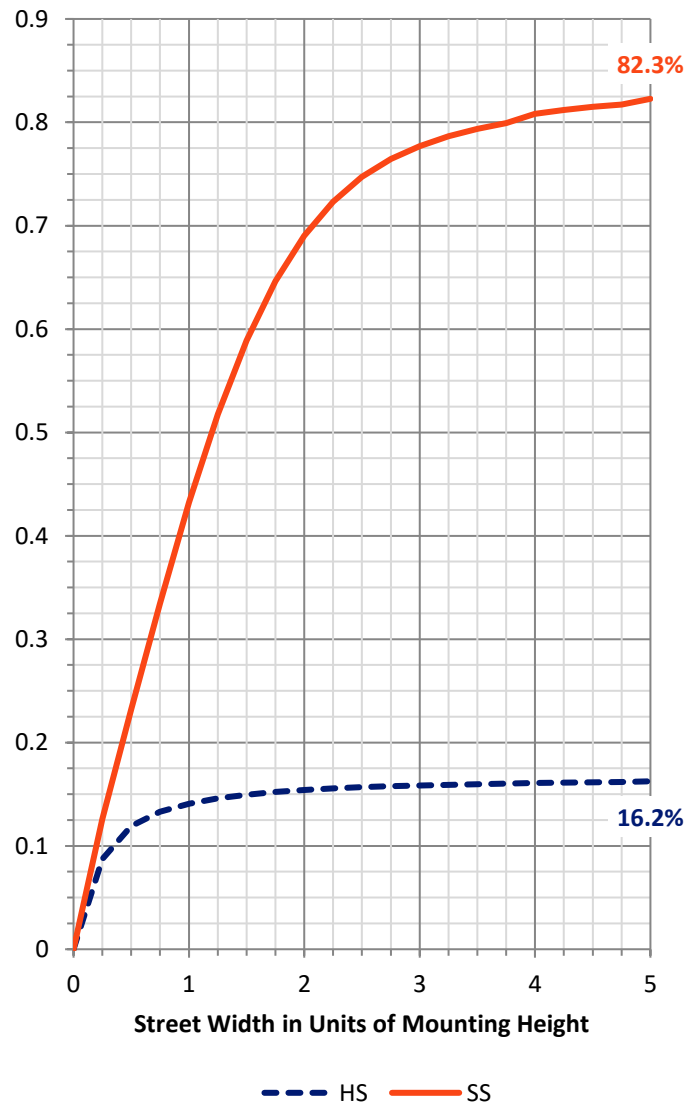
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.2	0.0	1034.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5215.0	0.0	5215.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	6249.2	0.0	6249.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	2.5
10°-20°	281.8	4.5
20°-30°	410.9	6.6
30°-40°	632.9	10.1
40°-50°	931.4	14.9
50°-60°	1366.2	21.9
60°-70°	1527.2	24.4
70°-80°	747.7	12.0
80°-90°	197.4	3.2
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°	6249.2	100.0
0°-180°	6249.2	100.0



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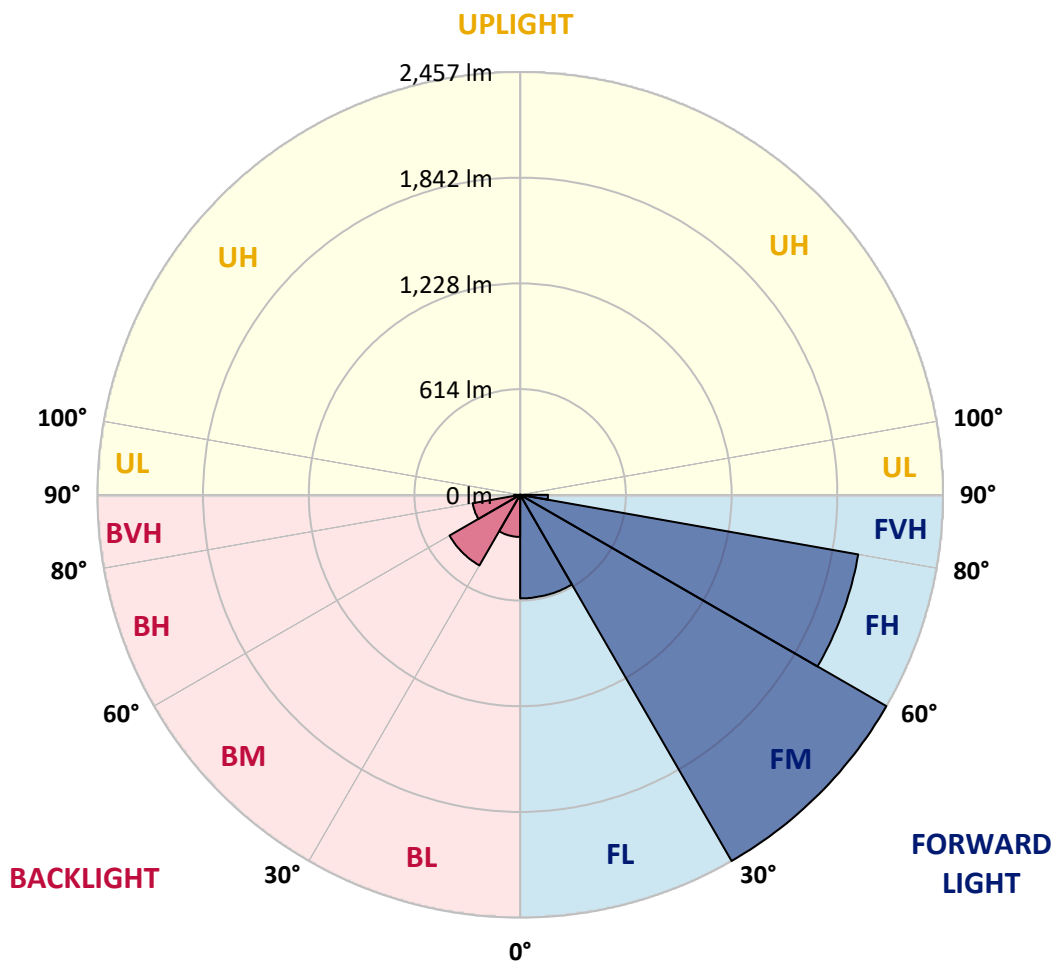
CATALOG NUMBER: GWC-AF-02-LED-E1-SLR-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.8	9.6			
FM	(30°-60°)	2456.6	39.3			
FH	(60°-80°)	1994.5	31.9			G2/5000
FVH	(80°-90°)	162.1	2.6			G2/225
BL	(0°-30°)	244.7	3.9	B1/500		
BM	(30°-60°)	473.9	7.6	B1/1000		
BH	(60°-80°)	280.4	4.5	B1/500		G1/500
BVH	(80°-90°)	35.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2
2.5°	2193.8	2149.0	2074.8	1997.7	1950.5	1895.6	1852.7	1814.8	1739.3	1724.4	1738.0
5°	2062.9	1973.1	1833.4	1692.5	1598.8	1498.2	1419.9	1356.9	1261.1	1244.2	1264.5
7.5°	1852.9	1745.8	1561.0	1381.4	1248.7	1123.1	1038.5	971.2	896.2	864.0	866.1
10°	1671.9	1551.1	1332.5	1137.1	1028.5	943.7	872.6	803.5	727.5	677.9	664.0
12.5°	1570.5	1431.4	1179.7	1005.2	904.6	815.2	738.5	664.7	583.7	532.9	518.4
15°	1553.1	1402.0	1122.3	920.7	794.6	681.5	591.3	508.8	425.3	384.0	375.5
17.5°	1628.9	1454.8	1103.7	845.5	691.2	551.6	440.8	348.7	280.7	260.1	258.4
20°	1774.6	1556.6	1101.3	774.7	589.2	425.6	307.1	240.1	210.3	204.5	204.8
22.5°	1979.1	1714.1	1130.8	721.3	495.3	317.5	230.9	201.0	189.4	183.9	183.9
25°	2243.5	1931.3	1198.9	682.6	413.9	253.5	203.7	185.9	174.9	171.0	171.8
27.5°	2499.9	2142.5	1277.8	652.0	360.7	230.1	193.0	177.0	167.4	163.5	165.3
30°	2699.8	2330.2	1343.9	610.5	333.6	223.7	196.9	180.4	166.6	160.7	161.2
32.5°	2865.4	2494.4	1399.2	580.6	309.6	191.7	169.7	162.6	160.7	153.9	150.5
35°	3077.0	2673.3	1436.3	581.3	298.1	171.0	151.2	138.5	129.1	121.4	121.4
37.5°	3324.9	2878.7	1475.7	589.2	294.0	159.1	144.6	132.0	123.3	115.8	114.4
40°	3570.3	3080.0	1511.8	596.7	291.7	151.9	139.4	127.7	120.0	112.4	110.3
42.5°	3778.7	3245.5	1544.1	600.4	283.4	151.2	135.7	125.0	117.5	109.2	107.2
45°	3933.0	3384.4	1578.9	606.4	275.2	153.9	135.7	124.8	115.4	107.5	105.6
47.5°	4070.7	3547.1	1636.9	606.4	265.2	148.8	140.1	125.0	115.2	106.9	105.1
50°	4255.2	3770.5	1746.8	592.3	251.2	143.3	147.7	123.6	112.0	105.6	103.5
52.5°	4509.4	4056.7	1921.4	567.9	229.4	132.6	146.8	123.0	109.0	102.0	99.6
55°	4810.0	4363.1	2111.6	539.3	197.2	125.0	141.6	121.4	105.6	97.9	95.5
57.5°	5044.6	4574.0	2245.7	495.3	169.1	120.9	125.5	119.6	101.4	93.5	91.4
60°	5138.0	4565.7	2282.4	436.7	155.2	117.5	109.7	133.9	97.9	90.0	87.7
62.5°	5087.6	4354.9	2179.3	395.4	152.3	113.0	102.8	124.1	95.2	87.7	84.3
65°	4854.4	3981.1	1906.3	384.5	161.2	108.5	98.3	97.2	91.4	84.3	80.8
67.5°	4346.2	3422.5	1526.3	385.5	172.5	104.2	93.9	89.0	86.2	80.4	77.3
70°	3540.0	2706.0	1137.8	388.2	178.4	99.0	89.0	83.8	80.8	74.9	72.9
72.5°	2602.8	2085.5	826.5	370.3	179.3	93.2	82.5	78.1	74.9	68.7	67.1
75°	1780.8	1595.3	573.4	306.9	156.3	84.9	75.3	71.1	69.1	61.5	60.5
77.5°	1300.9	1197.5	366.9	227.8	120.6	74.6	66.4	63.2	61.9	53.5	52.2
80°	1044.0	947.4	229.4	155.9	88.4	62.5	55.7	54.0	52.6	44.3	43.3
82.5°	724.2	634.6	147.4	101.4	66.4	48.5	43.9	43.3	41.2	33.6	32.7
85°	382.0	344.6	93.5	69.1	48.1	33.3	30.6	30.6	29.6	22.4	21.6
87.5°	48.8	79.4	47.4	36.1	26.5	14.8	14.8	14.5	15.5	12.8	11.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2
2.5°	1706.3	1722.8	1707.0	1707.9	1725.6	1777.7	1801.5	1821.0	1842.0	1855.7	1861.8
5°	1236.6	1275.1	1288.2	1315.7	1356.3	1422.8	1449.3	1468.5	1481.2	1488.9	1491.9
7.5°	845.8	869.1	895.3	939.5	1027.8	1066.9	1084.6	1080.0	1065.6	1060.4	1055.2
10°	637.5	628.4	623.6	647.9	719.4	758.9	771.3	759.2	751.3	753.0	761.7
12.5°	494.0	477.9	458.2	455.5	502.6	537.9	545.9	546.6	561.0	573.7	592.6
15°	360.0	358.3	348.7	342.9	369.7	398.5	401.9	408.1	421.1	430.5	446.9
17.5°	254.0	263.2	270.7	274.5	294.7	315.3	311.6	308.5	306.1	306.1	314.0
20°	204.8	210.9	220.5	231.6	252.2	266.5	257.4	245.0	236.1	233.3	234.3
22.5°	184.5	189.4	194.8	204.5	223.0	232.9	223.0	214.1	205.2	201.9	201.0
25°	174.2	180.4	185.5	192.7	206.5	213.3	203.7	197.2	191.7	187.9	185.2
27.5°	168.3	173.8	175.2	178.7	190.4	196.5	191.7	189.0	185.5	182.0	178.7
30°	162.1	161.2	158.7	159.1	168.3	174.5	174.2	174.9	174.5	173.6	172.8
32.5°	148.1	146.1	144.0	146.1	154.6	160.1	160.4	161.9	161.9	161.4	164.2
35°	123.3	127.1	129.5	135.7	146.1	150.8	148.8	145.3	139.1	135.4	135.0
37.5°	114.1	114.8	118.8	127.5	138.8	143.3	140.1	132.3	128.2	127.5	128.5
40°	109.7	110.3	112.6	120.6	132.0	136.5	133.7	127.7	124.1	123.6	125.5
42.5°	106.4	107.2	108.5	114.1	123.3	128.8	129.1	125.0	120.6	120.9	122.7
45°	104.8	105.1	104.8	107.5	116.2	122.7	125.5	122.7	118.8	119.6	121.6
47.5°	104.5	103.5	102.0	102.8	111.7	118.1	121.6	120.6	118.8	119.6	121.4
50°	103.0	100.7	99.0	98.6	107.5	114.4	117.5	117.5	118.1	119.6	121.4
52.5°	99.0	96.2	96.2	95.2	104.8	111.3	113.4	113.7	114.8	117.1	119.6
55°	93.9	92.7	93.9	92.0	102.8	109.0	110.0	110.6	111.3	113.4	116.8
57.5°	89.3	87.9	90.4	89.7	101.0	106.4	106.4	107.8	107.8	110.6	113.4
60°	87.0	84.3	85.2	85.9	98.6	104.5	103.8	105.1	105.8	108.2	110.3
62.5°	83.8	81.4	81.4	83.2	95.8	101.4	101.0	102.0	104.8	105.6	107.5
65°	80.0	79.1	78.1	80.0	93.2	97.9	98.3	99.6	102.0	102.8	104.5
67.5°	76.3	76.6	74.6	76.6	90.6	94.5	94.5	97.2	98.3	99.6	101.4
70°	72.1	72.6	70.7	73.2	89.0	90.6	90.4	94.1	94.9	95.8	97.6
72.5°	67.1	67.1	66.4	69.8	86.2	87.0	86.2	89.3	89.7	90.6	91.4
75°	61.5	61.5	60.8	65.7	84.5	82.9	80.8	83.2	83.8	84.5	84.5
77.5°	54.3	54.9	54.9	60.8	78.7	81.0	74.2	75.5	76.6	77.0	75.9
80°	45.4	47.2	47.8	55.3	65.9	74.9	66.4	67.4	67.7	67.7	66.4
82.5°	34.8	37.8	39.5	47.8	50.6	62.9	57.8	58.7	57.8	55.7	54.9
85°	24.1	28.1	30.3	36.4	38.2	48.5	48.1	48.1	46.1	43.3	42.9
87.5°	13.0	15.5	16.9	21.6	26.1	32.7	35.5	34.3	32.7	30.9	31.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2
2.5°	1894.2	1940.9	2015.4	2072.5	2129.8	2185.1	2245.0	2290.6	2329.5	2344.5	2390.6
5°	1523.2	1581.6	1652.1	1779.2	1869.2	1968.4	2083.1	2235.0	2293.4	2374.1	2506.4
7.5°	1077.0	1129.9	1243.3	1345.9	1473.4	1613.8	1768.9	1978.3	2055.0	2184.5	2399.8
10°	804.3	865.6	956.8	1043.3	1155.6	1299.2	1477.2	1711.5	1804.5	1945.0	2193.0
12.5°	647.9	720.4	816.9	898.3	985.3	1086.6	1259.3	1516.2	1641.1	1764.0	2014.8
15°	497.8	573.7	663.4	766.8	862.6	971.8	1152.9	1433.9	1577.5	1705.6	1919.6
17.5°	344.6	409.4	522.5	630.4	753.0	892.8	1123.3	1451.4	1622.8	1770.5	1936.0
20°	244.2	281.3	374.1	499.2	652.0	827.6	1117.9	1543.5	1766.3	1935.0	2041.8
22.5°	205.4	219.1	273.2	387.9	564.5	778.8	1137.1	1672.6	1960.1	2175.5	2210.5
25°	187.2	195.6	223.7	304.3	486.4	743.3	1202.0	1865.1	2199.9	2416.0	2409.9
27.5°	177.2	185.9	204.5	256.9	427.8	721.3	1266.9	2093.1	2474.0	2677.0	2600.1
30°	174.2	185.9	205.4	242.3	385.8	686.8	1320.1	2293.4	2684.9	2853.2	2686.7
32.5°	171.8	173.6	182.4	208.9	345.9	646.2	1356.3	2473.0	2891.5	3020.9	2811.3
35°	138.8	147.4	161.9	187.2	322.6	621.7	1356.3	2627.9	3094.8	3190.3	2930.2
37.5°	133.7	141.3	153.9	175.6	309.6	609.8	1329.1	2777.4	3302.6	3382.3	3028.1
40°	131.0	137.1	149.1	166.6	304.0	596.0	1289.5	2909.3	3505.6	3574.6	3119.5
42.5°	128.8	134.3	145.6	161.2	296.8	580.9	1257.6	3015.2	3681.9	3738.8	3206.8
45°	127.7	133.7	146.1	163.9	282.3	561.0	1246.9	3129.4	3826.8	3875.9	3301.2
47.5°	127.7	134.7	147.7	169.7	265.2	540.4	1280.4	3280.3	3964.0	3987.9	3412.5
50°	126.8	134.3	152.5	163.9	240.1	514.3	1358.6	3470.2	4112.4	4115.0	3553.3
52.5°	124.8	133.7	164.2	160.4	211.3	480.0	1464.4	3714.1	4331.7	4348.2	3773.9
55°	122.3	132.6	161.2	152.5	187.6	439.0	1551.1	4010.7	4640.3	4686.0	4098.2
57.5°	119.3	131.2	155.9	141.6	172.1	386.5	1582.3	4227.8	4855.7	4970.4	4463.7
60°	116.5	130.3	140.9	135.0	162.6	342.2	1521.8	4184.8	4840.8	5088.2	4787.6
62.5°	113.7	131.2	128.5	131.0	158.0	313.7	1363.7	3841.0	4596.0	4966.5	5027.8
65°	110.6	122.0	121.4	127.5	157.1	302.3	1130.5	3325.3	4122.6	4582.3	5084.4
67.5°	106.4	112.6	116.2	123.0	160.4	292.4	912.4	2743.1	3464.8	4006.1	4789.0
70°	102.0	107.2	111.0	117.5	158.5	287.8	758.9	2163.2	2749.3	3283.3	4206.0
72.5°	96.2	100.7	104.2	110.3	156.3	285.5	641.0	1742.1	2052.5	2439.0	3419.8
75°	89.3	93.5	95.8	102.0	149.7	261.4	503.9	1474.1	1535.9	1696.7	2723.8
77.5°	81.4	84.5	86.5	93.5	132.6	217.5	364.5	1137.1	1192.7	1231.8	2088.3
80°	72.1	75.3	76.3	82.9	110.0	170.0	237.7	839.9	892.1	901.1	1363.7
82.5°	61.5	64.6	64.6	70.7	90.0	122.3	155.9	575.5	585.8	616.0	963.9
85°	49.4	51.9	51.9	54.9	69.8	91.4	107.2	289.0	285.8	326.4	835.2
87.5°	35.5	37.1	38.8	39.5	49.9	60.5	64.6	87.9	58.1	66.7	536.3
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2	2111.2
2.5°	2425.2	2444.8	2425.0	2410.5	2348.3	2297.1	2228.8	2193.8
5°	2607.1	2656.7	2639.9	2579.6	2449.7	2303.7	2137.7	2062.9
7.5°	2585.1	2700.8	2703.4	2590.5	2399.2	2184.0	1959.5	1852.9
10°	2413.9	2562.0	2604.2	2494.7	2291.7	2051.2	1793.6	1671.9
12.5°	2222.9	2367.9	2400.2	2362.5	2192.8	1951.2	1689.8	1570.5
15°	2066.6	2131.6	2170.0	2203.1	2107.9	1911.4	1684.0	1553.1
17.5°	1971.5	1964.2	1975.3	2032.7	2048.8	1957.0	1773.3	1628.9
20°	1937.1	1826.9	1824.1	1903.1	2020.9	2065.9	1947.7	1774.6
22.5°	1956.0	1777.3	1754.7	1848.5	2035.6	2222.9	2176.6	1979.1
25°	2021.2	1781.5	1763.4	1854.0	2089.3	2390.2	2423.5	2243.5
27.5°	2124.0	1807.6	1783.6	1876.6	2160.5	2530.7	2666.8	2499.9
30°	2221.6	1852.9	1823.1	1921.4	2225.3	2586.4	2815.8	2699.8
32.5°	2340.1	1937.9	1885.3	2003.4	2305.7	2675.1	2948.7	2865.4
35°	2456.1	2058.7	1993.5	2130.2	2395.4	2785.3	3100.6	3077.0
37.5°	2583.6	2216.7	2162.8	2294.0	2517.9	2889.4	3294.4	3324.9
40°	2719.7	2426.3	2362.5	2533.1	2708.3	3019.9	3496.7	3570.3
42.5°	2856.7	2658.9	2582.5	2755.7	2917.5	3148.6	3669.8	3778.7
45°	3013.8	2911.3	2875.2	3062.5	3118.5	3271.4	3797.7	3933.0
47.5°	3196.4	3197.8	3255.8	3330.7	3321.2	3410.1	3926.1	4070.7
50°	3409.7	3555.4	3683.6	3733.4	3530.0	3559.3	4104.4	4255.2
52.5°	3666.1	3983.2	4141.8	4109.1	3755.1	3741.4	4386.8	4509.4
55°	3986.6	4435.9	4593.6	4570.1	4013.6	3989.4	4738.5	4810.0
57.5°	4357.6	4874.6	5019.5	4914.4	4324.3	4261.4	5029.5	5044.6
60°	4683.6	5222.1	5349.2	5232.8	4637.5	4551.0	5211.2	5138.0
62.5°	4865.0	5340.1	5429.4	5304.0	4852.3	4859.4	5251.0	5087.6
65°	4783.8	5042.1	5071.0	5060.7	4796.9	5038.5	5107.9	4854.4
67.5°	4340.0	4289.1	4337.6	4404.6	4322.9	4802.8	4711.0	4346.2
70°	3558.1	3279.0	3375.4	3420.4	3457.5	4132.9	4088.9	3540.0
72.5°	2681.5	2297.1	2373.4	2364.1	2535.8	3314.9	3180.0	2602.8
75°	1900.1	1557.5	1567.2	1563.4	1769.5	2593.5	2302.6	1780.8
77.5°	1329.4	1128.5	1133.7	1155.0	1189.6	1956.0	1645.2	1300.9
80°	914.1	856.4	884.9	886.6	824.5	1314.0	1215.3	1044.0
82.5°	680.8	595.3	588.5	598.5	646.2	1064.6	934.1	724.2
85°	557.6	352.4	283.4	355.2	572.7	1054.3	620.4	382.0
87.5°	314.0	167.4	75.5	140.1	228.4	698.1	179.3	48.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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