

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: P200169

Luminaire Tested: **GWC-AF-01-LED-E1-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200169
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-01-LED-E1-SLR-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6269.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

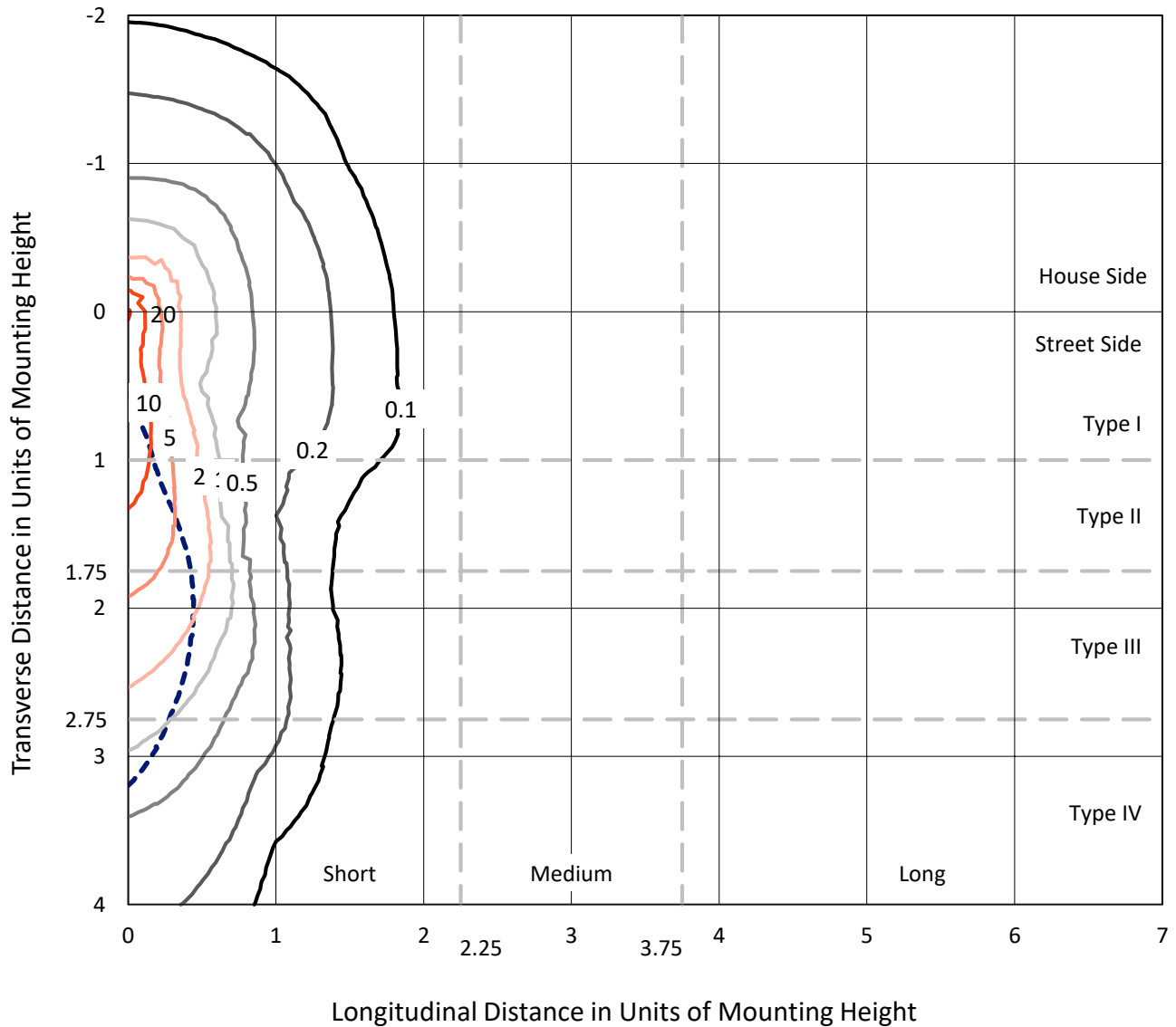
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

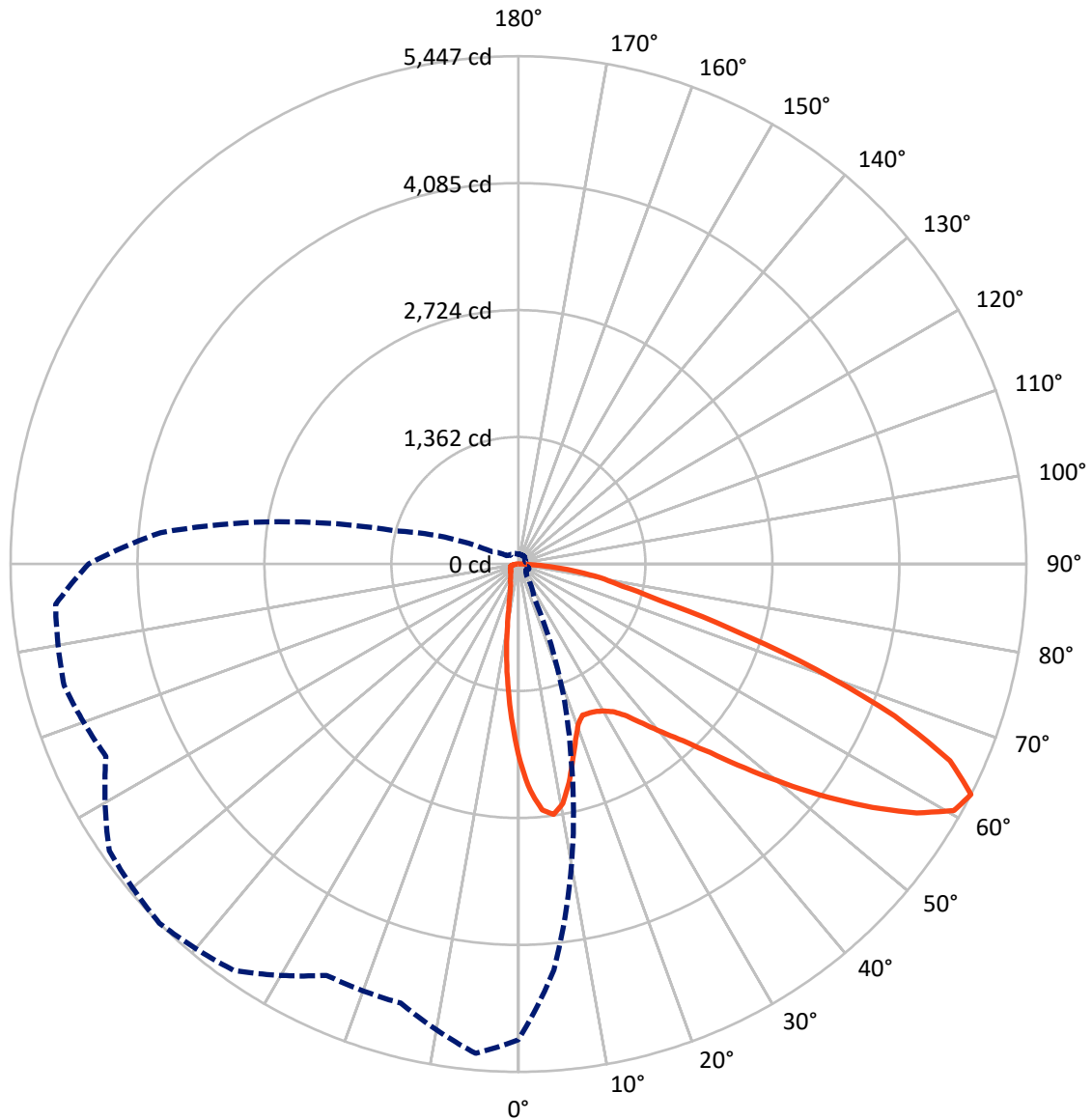
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 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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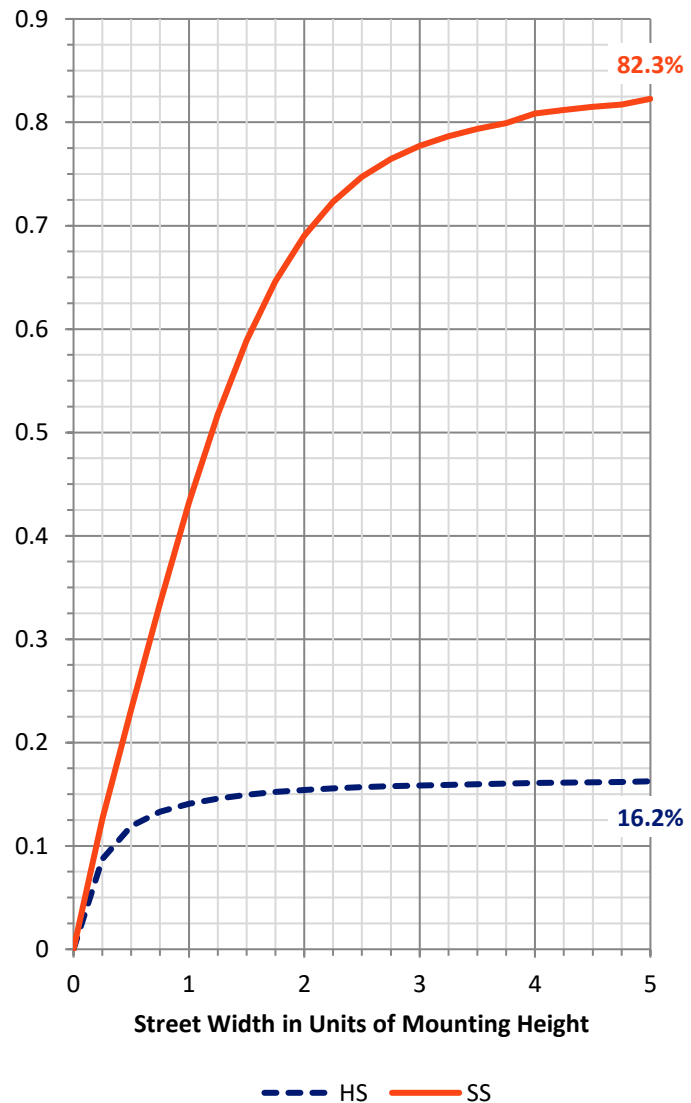
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1037.5	0.0	1037.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5232.1	0.0	5232.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	6269.7	0.0	6269.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	2.5
10°-20°	282.8	4.5
20°-30°	412.3	6.6
30°-40°	634.9	10.1
40°-50°	934.5	14.9
50°-60°	1370.7	21.9
60°-70°	1532.2	24.4
70°-80°	750.1	12.0
80°-90°	198.1	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°	6269.7	100.0
0°-180°	6269.7	100.0



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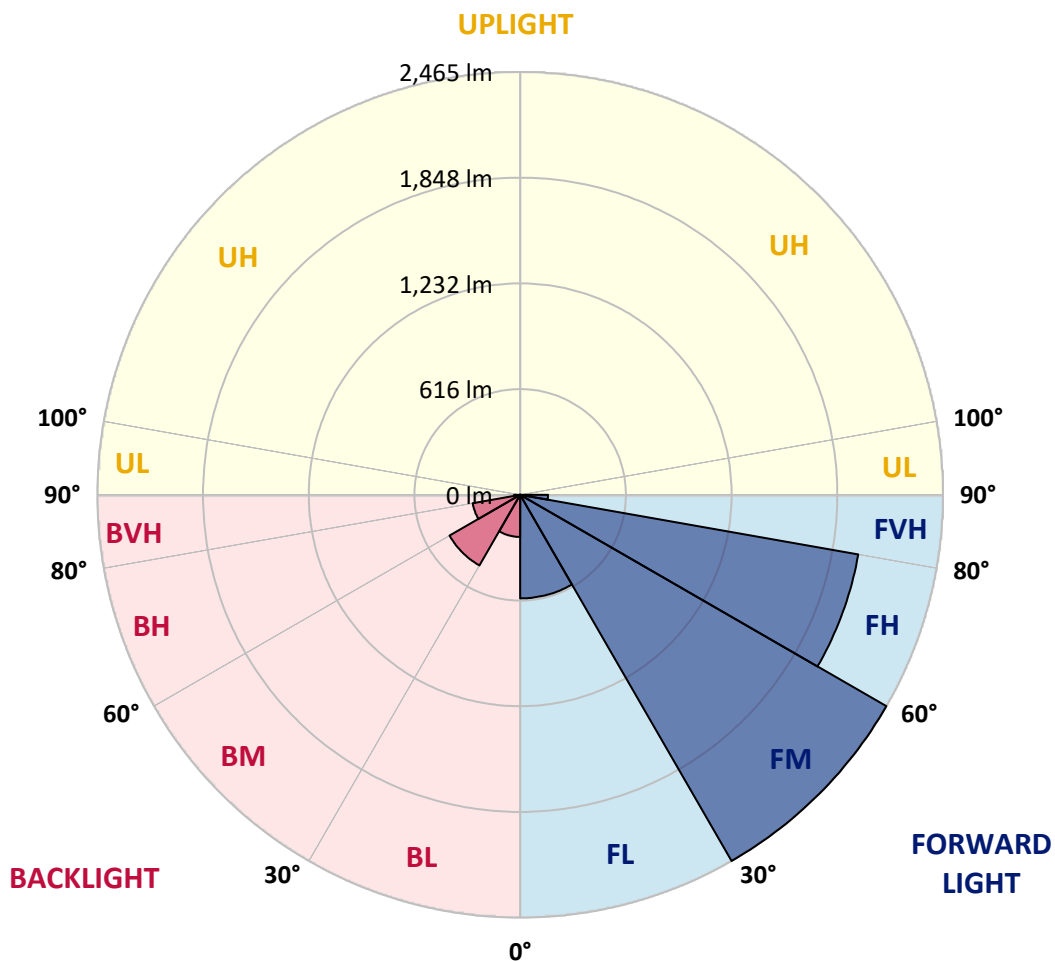
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.7	9.6			
FM	(30°-60°)	2464.7	39.3			
FH	(60°-80°)	2001.1	31.9			G2/5000
FVH	(80°-90°)	162.7	2.6			G2/225
BL	(0°-30°)	245.5	3.9	B1/500		
BM	(30°-60°)	475.4	7.6	B1/1000		
BH	(60°-80°)	281.3	4.5	B1/500		G1/500
BVH	(80°-90°)	35.4	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°	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	2201.0	2156.2	2081.7	2004.2	1956.9	1901.8	1858.7	1820.8	1744.9	1730.1	1743.6
5°	2069.6	1979.7	1839.4	1698.1	1604.0	1503.0	1424.5	1361.3	1265.2	1248.3	1268.7
7.5°	1859.0	1751.5	1566.1	1385.9	1252.8	1126.7	1041.9	974.4	899.2	866.8	868.9
10°	1677.4	1556.1	1336.9	1140.8	1031.9	946.7	875.4	806.2	730.0	680.0	666.2
12.5°	1575.8	1436.1	1183.6	1008.4	907.5	817.8	741.0	666.9	585.5	534.6	520.1
15°	1558.2	1406.6	1126.0	923.6	797.2	683.7	593.1	510.5	426.7	385.3	376.8
17.5°	1634.4	1459.6	1107.3	848.2	693.5	553.5	442.2	349.8	281.6	260.9	259.2
20°	1780.4	1561.6	1105.0	777.2	591.1	427.0	308.1	240.9	210.9	205.1	205.4
22.5°	1985.5	1719.8	1134.6	723.7	496.9	318.4	231.6	201.6	189.9	184.4	184.4
25°	2250.9	1937.7	1202.8	684.9	415.3	254.3	204.4	186.5	175.4	171.7	172.4
27.5°	2508.1	2149.6	1282.1	654.2	361.9	230.9	193.6	177.5	167.9	164.1	165.8
30°	2708.6	2337.7	1348.2	612.4	334.6	224.3	197.5	181.0	167.2	161.3	161.6
32.5°	2874.7	2502.5	1403.8	582.5	310.6	192.3	170.2	163.1	161.3	154.4	151.0
35°	3087.1	2682.1	1441.0	583.2	299.1	171.7	151.6	138.9	129.6	121.6	121.6
37.5°	3335.8	2888.2	1480.6	591.1	295.0	159.6	145.1	132.4	123.8	116.1	114.8
40°	3582.0	3090.1	1516.8	598.6	292.6	152.3	139.9	128.2	120.3	112.7	110.7
42.5°	3791.2	3256.3	1549.3	602.4	284.4	151.6	136.2	125.4	117.8	109.6	107.5
45°	3945.9	3395.5	1584.0	608.3	276.1	154.4	136.2	125.1	115.8	107.9	105.8
47.5°	4084.1	3558.8	1642.2	608.3	266.1	149.2	140.7	125.4	115.5	107.2	105.5
50°	4269.2	3782.9	1752.5	594.1	252.0	143.7	148.2	124.1	112.3	105.8	103.7
52.5°	4524.2	4070.0	1927.6	569.7	230.3	133.1	147.2	123.4	109.3	102.4	99.9
55°	4825.8	4377.4	2118.5	541.1	197.8	125.4	142.0	121.6	105.8	98.2	95.9
57.5°	5061.3	4589.1	2252.9	496.9	169.6	121.3	125.8	119.9	101.7	93.7	91.7
60°	5155.0	4580.8	2289.9	438.0	155.8	117.8	110.0	134.4	98.2	90.3	87.9
62.5°	5104.3	4369.1	2186.5	396.7	152.7	113.3	103.0	124.4	95.4	87.9	84.4
65°	4870.3	3994.2	1912.5	385.7	161.6	108.9	98.6	97.5	91.7	84.4	81.0
67.5°	4360.5	3433.7	1531.3	386.7	173.0	104.4	94.1	89.3	86.5	80.6	77.5
70°	3551.7	2714.8	1141.5	389.4	178.9	99.2	89.3	84.1	81.0	75.1	73.0
72.5°	2611.4	2092.3	829.2	371.5	179.9	93.4	82.8	78.3	75.1	68.9	67.2
75°	1786.7	1600.6	575.2	307.8	156.8	85.1	75.5	71.3	69.3	61.7	60.7
77.5°	1305.2	1201.5	368.1	228.5	121.0	74.8	66.5	63.4	62.0	53.8	52.4
80°	1047.4	950.5	230.3	156.5	88.6	62.7	55.9	54.1	52.7	44.5	43.5
82.5°	726.5	636.6	147.8	101.7	66.5	48.6	44.1	43.5	41.3	33.8	32.7
85°	383.3	345.7	93.7	69.3	48.3	33.5	30.7	30.7	29.7	22.4	21.7
87.5°	48.9	79.6	47.6	36.2	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°	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	1711.9	1728.5	1712.6	1713.6	1731.1	1783.6	1807.3	1827.0	1848.1	1861.8	1868.0
5°	1240.7	1279.3	1292.4	1320.0	1360.7	1427.5	1454.1	1473.4	1486.1	1493.7	1496.8
7.5°	848.5	872.0	898.2	942.6	1031.2	1070.5	1088.1	1083.6	1069.1	1064.0	1058.8
10°	639.7	630.3	625.5	650.0	721.7	761.4	773.8	761.7	753.7	755.4	764.1
12.5°	495.6	479.5	459.8	457.1	504.2	539.7	547.7	548.3	562.8	575.6	594.5
15°	361.2	359.5	349.8	343.9	370.8	399.8	403.2	409.5	422.6	431.9	448.4
17.5°	254.7	264.0	271.6	275.4	295.7	316.4	312.6	309.5	307.1	307.1	315.0
20°	205.4	211.6	221.3	232.3	253.0	267.4	258.2	245.7	236.8	234.1	235.1
22.5°	185.1	189.9	195.4	205.1	223.7	233.6	223.7	214.7	205.7	202.6	201.6
25°	174.7	181.0	186.1	193.3	207.1	214.0	204.4	197.8	192.3	188.5	185.8
27.5°	168.9	174.4	175.7	179.2	191.0	197.1	192.3	189.6	186.1	182.7	179.2
30°	162.6	161.6	159.3	159.6	168.9	175.1	174.7	175.4	175.1	174.0	173.4
32.5°	148.5	146.5	144.4	146.5	155.1	160.6	160.9	162.3	162.3	162.0	164.7
35°	123.8	127.6	129.9	136.2	146.5	151.3	149.2	145.8	139.6	135.7	135.4
37.5°	114.5	115.1	119.3	127.9	139.2	143.7	140.7	132.7	128.6	127.9	128.9
40°	110.0	110.7	113.0	121.0	132.4	136.9	134.1	128.2	124.4	124.1	125.8
42.5°	106.8	107.5	108.9	114.5	123.8	129.2	129.6	125.4	121.0	121.3	123.1
45°	105.2	105.5	105.2	107.9	116.5	123.1	125.8	123.1	119.3	119.9	122.0
47.5°	104.8	103.7	102.4	103.0	112.0	118.6	122.0	121.0	119.3	119.9	121.6
50°	103.4	101.0	99.2	98.9	107.9	114.8	117.8	117.8	118.6	119.9	121.6
52.5°	99.2	96.5	96.5	95.4	105.2	111.7	113.8	114.1	115.1	117.5	119.9
55°	94.1	93.1	94.1	92.4	103.0	109.3	110.3	111.0	111.7	113.8	117.2
57.5°	89.6	88.3	90.6	89.9	101.4	106.8	106.8	108.2	108.2	111.0	113.8
60°	87.2	84.4	85.5	86.1	98.9	104.8	104.0	105.5	106.2	108.5	110.7
62.5°	84.1	81.6	81.6	83.4	96.2	101.7	101.4	102.4	105.2	105.8	107.9
65°	80.3	79.3	78.3	80.3	93.4	98.2	98.6	99.9	102.4	103.0	104.8
67.5°	76.5	76.8	74.8	76.8	90.9	94.8	94.8	97.5	98.6	99.9	101.7
70°	72.4	72.7	71.0	73.4	89.3	90.9	90.6	94.4	95.1	96.2	97.9
72.5°	67.2	67.2	66.5	70.0	86.5	87.2	86.5	89.6	89.9	90.9	91.7
75°	61.7	61.7	61.0	65.9	84.8	83.1	81.0	83.4	84.1	84.8	84.8
77.5°	54.4	55.1	55.1	61.0	79.0	81.3	74.5	75.8	76.8	77.2	76.2
80°	45.5	47.3	47.9	55.4	66.2	75.1	66.5	67.5	67.9	67.9	66.5
82.5°	34.8	38.0	39.6	47.9	50.6	63.1	57.9	58.9	57.9	55.9	55.1
85°	24.1	28.2	30.3	36.5	38.3	48.6	48.3	48.3	46.1	43.5	43.1
87.5°	13.1	15.5	16.9	21.7	26.2	32.7	35.5	34.5	32.7	31.0	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°	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	1900.4	1947.3	2022.1	2079.2	2136.8	2192.3	2252.3	2298.2	2337.1	2352.3	2398.4
5°	1528.2	1586.8	1657.4	1784.9	1875.3	1974.8	2090.0	2242.3	2300.9	2381.8	2514.6
7.5°	1080.4	1133.5	1247.3	1350.4	1478.2	1619.1	1774.6	1984.8	2061.8	2191.7	2407.7
10°	806.8	868.5	959.8	1046.7	1159.4	1303.4	1482.1	1717.0	1810.4	1951.4	2200.3
12.5°	650.0	722.7	819.6	901.2	988.5	1090.2	1263.4	1521.3	1646.4	1769.8	2021.4
15°	499.4	575.6	665.5	769.3	865.4	975.0	1156.7	1438.6	1582.6	1711.2	1925.9
17.5°	345.7	410.8	524.3	632.4	755.4	895.8	1127.0	1456.2	1628.1	1776.4	1942.5
20°	245.0	282.2	375.3	500.7	654.2	830.2	1121.5	1548.5	1772.2	1941.5	2048.6
22.5°	206.1	219.9	274.0	389.1	566.3	781.3	1140.8	1678.2	1966.6	2182.7	2217.9
25°	187.8	196.1	224.3	305.4	488.0	745.8	1206.0	1871.1	2207.1	2424.0	2417.7
27.5°	177.9	186.5	205.1	257.8	429.1	723.7	1271.1	2099.9	2482.2	2685.9	2608.6
30°	174.7	186.5	206.1	243.0	387.1	689.0	1324.5	2300.9	2693.8	2862.7	2695.5
32.5°	172.4	174.0	183.0	209.5	347.1	648.2	1360.7	2481.2	2901.0	3030.9	2820.6
35°	139.2	147.8	162.3	187.8	323.7	623.8	1360.7	2636.6	3105.0	3200.8	2939.9
37.5°	134.1	141.7	154.4	176.2	310.6	611.7	1333.4	2786.5	3313.4	3393.4	3038.1
40°	131.3	137.5	149.6	167.2	305.0	598.0	1293.8	2918.9	3517.2	3586.5	3129.8
42.5°	129.2	134.7	146.2	161.6	297.8	582.8	1261.8	3025.0	3694.0	3751.2	3217.3
45°	128.2	134.1	146.5	164.4	283.3	562.8	1251.1	3139.7	3839.4	3888.7	3312.1
47.5°	128.2	135.1	148.2	170.2	266.1	542.2	1284.5	3291.0	3976.9	4001.1	3423.8
50°	127.2	134.7	153.0	164.4	240.9	516.0	1363.1	3481.7	4125.9	4128.6	3565.1
52.5°	125.1	134.1	164.7	160.9	212.0	481.5	1469.3	3726.4	4346.1	4362.6	3786.4
55°	122.7	133.1	161.6	153.0	188.2	440.5	1556.1	4023.8	4655.6	4701.4	4111.6
57.5°	119.6	131.7	156.5	142.0	172.7	387.7	1587.5	4241.7	4871.7	4986.8	4478.4
60°	116.8	130.6	141.3	135.4	163.1	343.3	1526.9	4198.6	4856.9	5104.9	4803.4
62.5°	114.1	131.7	128.9	131.3	158.6	314.7	1368.3	3853.6	4611.1	4983.0	5044.4
65°	111.0	122.3	121.6	127.9	157.5	303.3	1134.2	3336.3	4136.2	4597.3	5101.1
67.5°	106.8	113.0	116.5	123.4	160.9	293.3	915.4	2752.0	3476.2	4019.4	4804.8
70°	102.4	107.5	111.3	117.8	158.9	288.8	761.4	2170.3	2758.3	3294.2	4219.9
72.5°	96.5	101.0	104.4	110.7	156.8	286.4	643.1	1747.7	2059.3	2447.0	3431.0
75°	89.6	93.7	96.2	102.4	150.3	262.3	505.6	1478.9	1541.0	1702.2	2732.7
77.5°	81.6	84.8	86.8	93.7	133.1	218.2	365.7	1140.8	1196.6	1235.9	2095.1
80°	72.4	75.5	76.5	83.1	110.3	170.6	238.4	842.7	895.1	904.0	1368.3
82.5°	61.7	64.8	64.8	71.0	90.3	122.7	156.5	577.3	587.6	618.0	967.1
85°	49.6	52.1	52.1	55.1	70.0	91.7	107.5	289.8	286.7	327.4	837.9
87.5°	35.5	37.2	39.0	39.6	50.0	60.7	64.8	88.3	58.2	66.9	538.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	2433.3	2452.9	2432.9	2418.5	2356.1	2304.7	2236.1	2201.0
5°	2615.6	2665.5	2648.6	2588.0	2457.7	2311.3	2144.7	2069.6
7.5°	2593.5	2709.7	2712.5	2599.0	2407.0	2191.3	1965.9	1859.0
10°	2421.8	2570.4	2612.8	2502.9	2299.2	2057.9	1799.5	1677.4
12.5°	2230.2	2375.7	2408.1	2370.2	2200.0	1957.6	1695.3	1575.8
15°	2073.4	2138.6	2177.1	2210.3	2114.7	1917.6	1689.5	1558.2
17.5°	1978.0	1970.7	1981.8	2039.4	2055.5	1963.5	1779.1	1634.4
20°	1943.5	1832.8	1830.1	1909.3	2027.6	2072.7	1954.1	1780.4
22.5°	1962.4	1783.2	1760.5	1854.6	2042.4	2230.2	2183.7	1985.5
25°	2027.9	1787.4	1769.1	1860.1	2096.1	2398.1	2431.6	2250.9
27.5°	2131.0	1813.6	1789.4	1882.8	2167.5	2539.1	2675.5	2508.1
30°	2228.9	1859.0	1829.0	1927.6	2232.7	2594.9	2825.1	2708.6
32.5°	2347.8	1944.2	1891.4	2010.0	2313.3	2683.8	2958.5	2874.7
35°	2464.3	2065.5	2000.0	2137.1	2403.2	2794.4	3110.8	3087.1
37.5°	2592.2	2224.0	2169.9	2301.5	2526.3	2898.8	3305.3	3335.8
40°	2728.6	2434.3	2370.2	2541.4	2717.3	3029.9	3508.2	3582.0
42.5°	2866.1	2667.7	2591.1	2764.8	2927.2	3159.1	3681.9	3791.2
45°	3023.6	2920.9	2884.7	3072.5	3128.8	3282.1	3810.1	3945.9
47.5°	3207.0	3208.4	3266.6	3341.8	3332.1	3421.4	3939.1	4084.1
50°	3421.1	3567.1	3695.7	3745.6	3541.7	3570.9	4117.9	4269.2
52.5°	3678.1	3996.3	4155.4	4122.7	3767.4	3753.6	4401.2	4524.2
55°	3999.6	4450.4	4608.7	4585.3	4026.9	4002.4	4754.2	4825.8
57.5°	4371.9	4890.6	5036.1	4930.6	4338.4	4275.4	5046.0	5061.3
60°	4699.0	5239.3	5366.9	5250.1	4652.8	4565.9	5228.4	5155.0
62.5°	4881.0	5357.6	5447.2	5321.4	4868.2	4875.5	5268.3	5104.3
65°	4799.6	5058.8	5087.7	5077.4	4812.7	5055.0	5124.7	4870.3
67.5°	4354.3	4303.3	4351.9	4419.1	4337.1	4818.6	4726.5	4360.5
70°	3569.9	3289.7	3386.6	3431.7	3468.9	4146.5	4102.4	3551.7
72.5°	2690.4	2304.7	2381.2	2371.9	2544.2	3325.9	3190.5	2611.4
75°	1906.3	1562.7	1572.3	1568.5	1775.3	2602.1	2310.2	1786.7
77.5°	1333.8	1132.2	1137.3	1158.7	1193.6	1962.4	1650.5	1305.2
80°	917.1	859.2	887.8	889.6	827.2	1318.3	1219.4	1047.4
82.5°	683.1	597.3	590.3	600.4	648.2	1068.1	937.1	726.5
85°	559.3	353.6	284.4	356.4	574.5	1057.7	622.5	383.3
87.5°	315.0	167.9	75.8	140.7	229.2	700.3	179.9	48.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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