

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: P200324

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200324
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-7050-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 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: 7193 lumens
Efficiency: N/A
Efficacy: 109.0 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

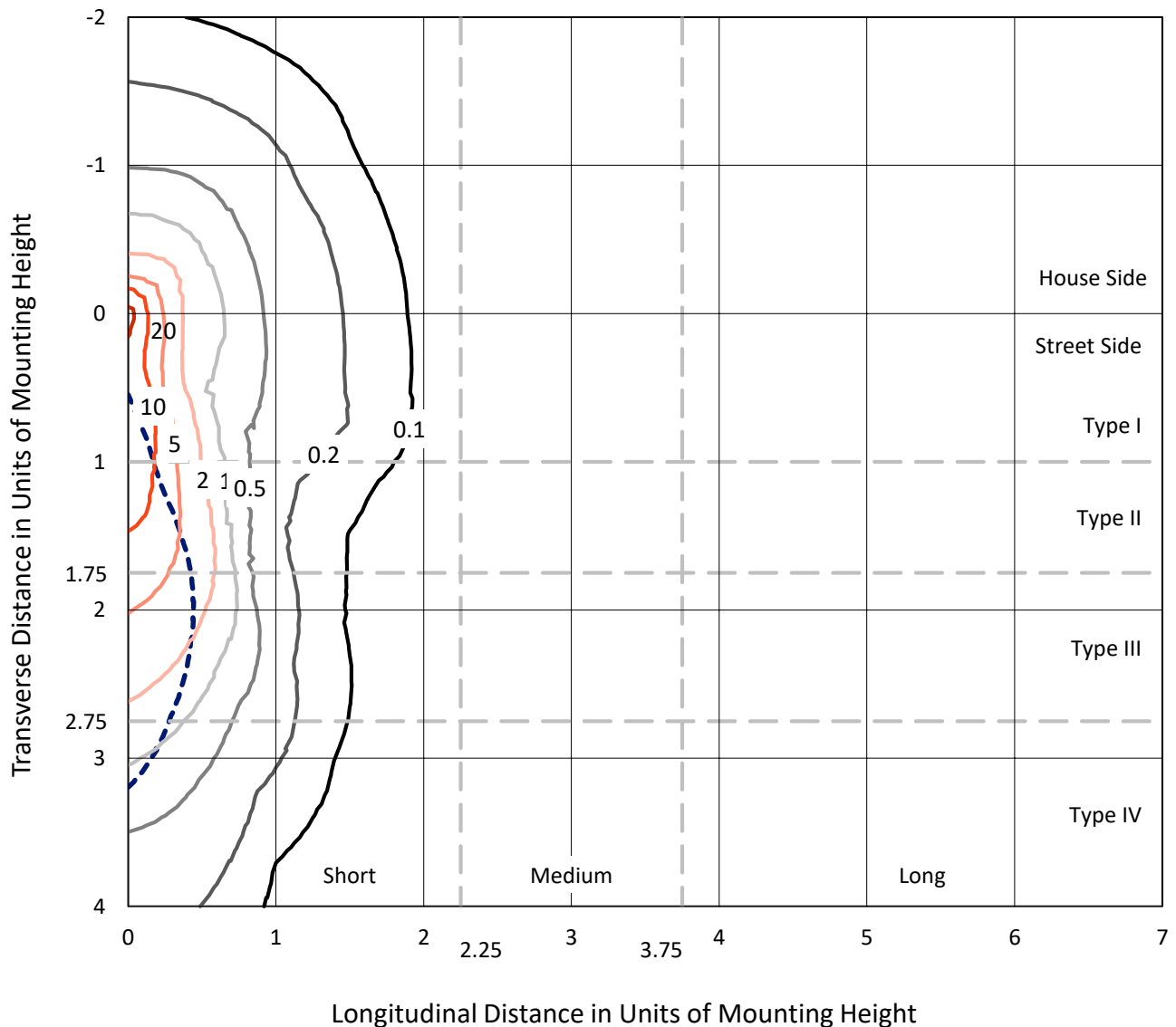


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

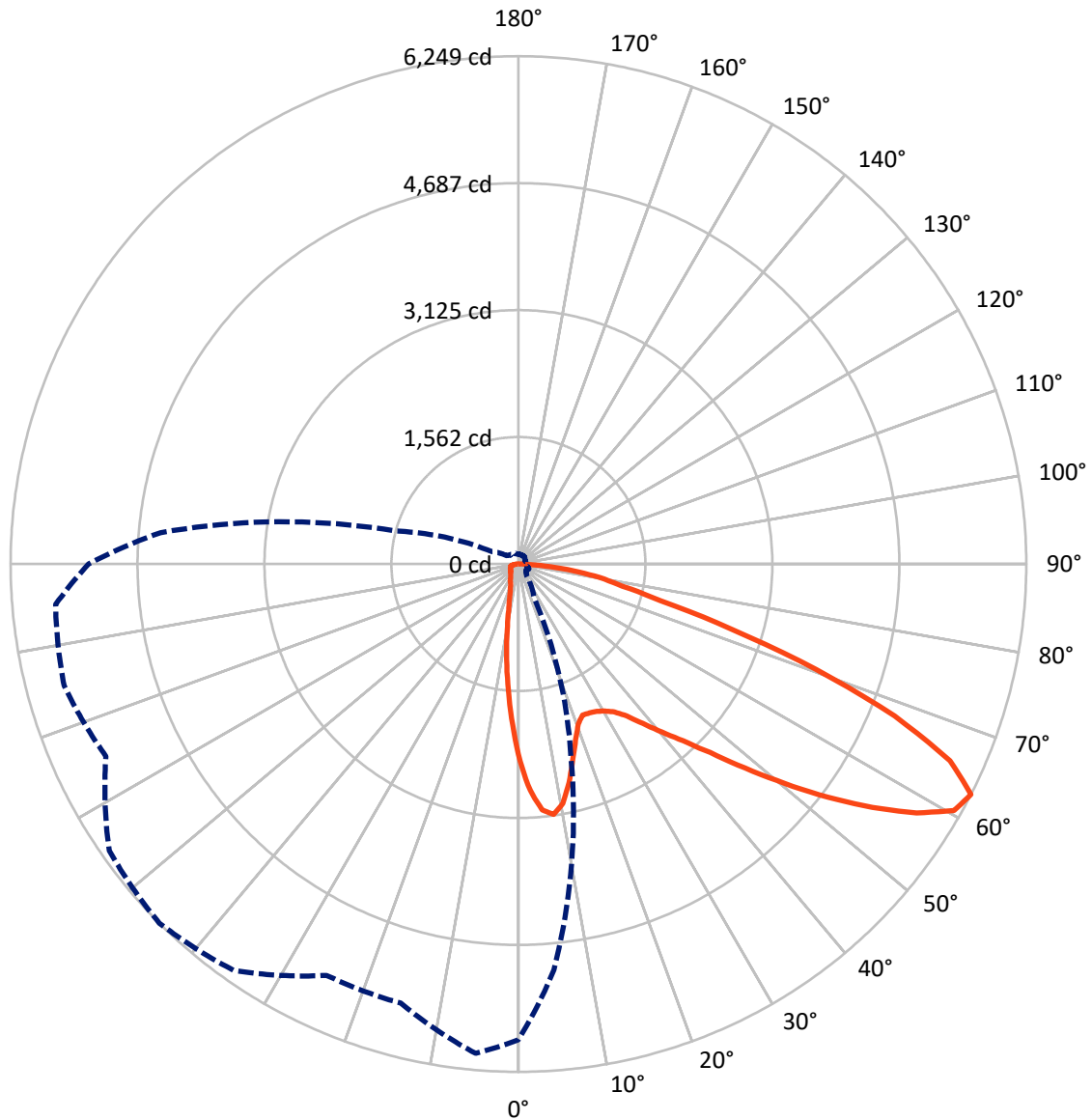


Based on 10 foot mounting height. Maximum calculated value = 24.3 fc
 Type IV - Short - Non-Cutoff

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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	1190.3	0.0	1190.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6002.7	0.0	6002.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	7193.0	0.0	7193.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	2.5
10°-20°	324.4	4.5
20°-30°	473.0	6.6
30°-40°	728.4	10.1
40°-50°	1072.1	14.9
50°-60°	1572.5	21.9
60°-70°	1757.8	24.4
70°-80°	860.6	12.0
80°-90°	227.2	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°	7193.0	100.0
0°-180°	7193.0	100.0



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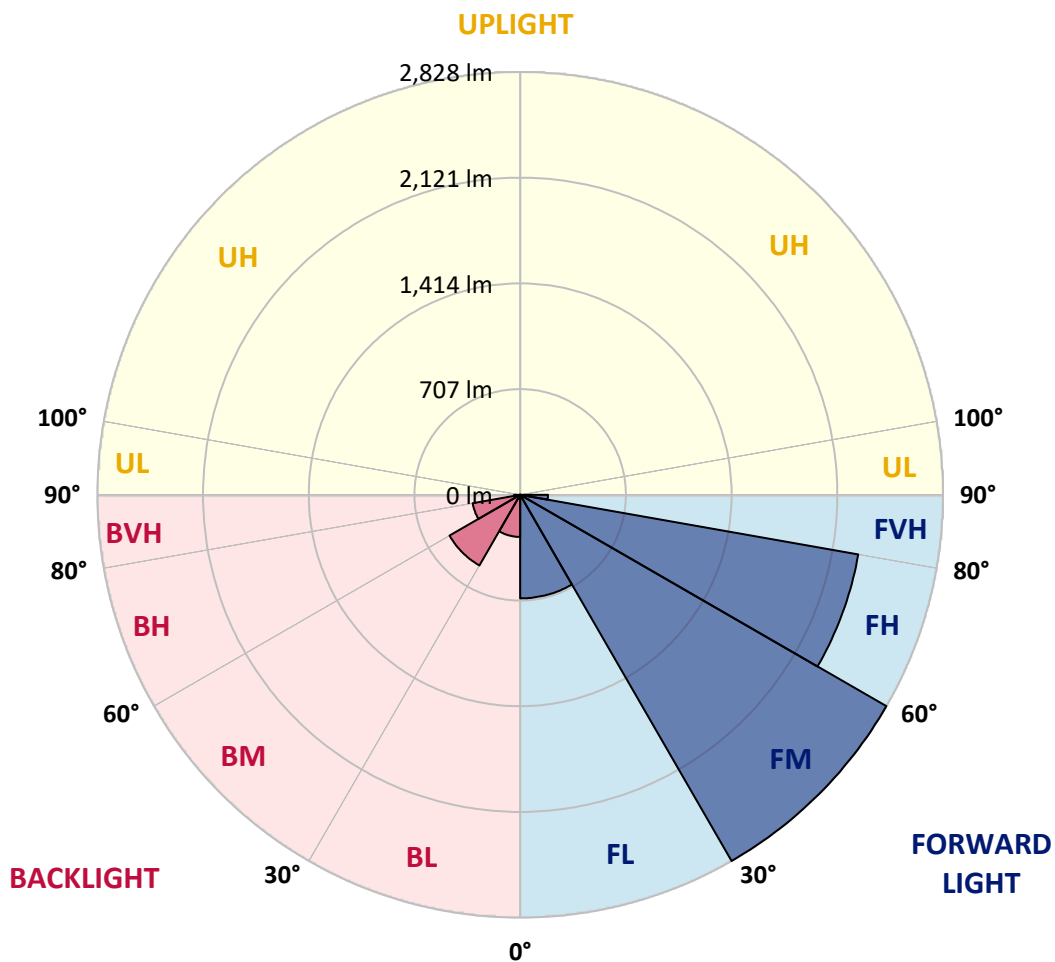
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.7	9.6			
FM	(30°-60°)	2827.6	39.3			
FH	(60°-80°)	2295.8	31.9			G2/5000
FVH	(80°-90°)	186.6	2.6			G2/225
BL	(0°-30°)	281.6	3.9	B1/500		
BM	(30°-60°)	545.4	7.6	B1/1000		
BH	(60°-80°)	322.7	4.5	B1/500		G1/500
BVH	(80°-90°)	40.6	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°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2525.1	2473.7	2388.3	2299.3	2245.1	2181.9	2132.4	2088.9	2002.0	1985.0	2000.4
5°	2374.4	2271.2	2110.3	1948.2	1840.2	1724.4	1634.2	1561.9	1451.5	1432.2	1455.5
7.5°	2132.8	2009.5	1796.7	1589.9	1437.3	1292.6	1195.3	1117.8	1031.6	994.5	996.8
10°	1924.5	1785.3	1533.8	1308.8	1183.9	1086.2	1004.3	924.9	837.5	780.1	764.3
12.5°	1807.8	1647.7	1357.8	1157.0	1041.1	938.3	850.1	765.1	671.8	613.3	596.7
15°	1787.6	1613.7	1291.8	1059.7	914.6	784.5	680.5	585.6	489.5	442.1	432.2
17.5°	1875.0	1674.6	1270.4	973.1	795.6	635.0	507.3	401.3	323.0	299.3	297.3
20°	2042.7	1791.6	1267.7	891.6	678.1	489.9	353.5	276.4	242.0	235.3	235.7
22.5°	2278.0	1973.1	1301.7	830.4	570.2	365.4	265.7	231.3	217.9	211.5	211.5
25°	2582.4	2223.0	1380.0	785.7	476.5	291.8	234.5	213.9	201.3	196.9	197.7
27.5°	2877.4	2466.2	1470.9	750.5	415.2	264.9	222.2	203.6	192.6	188.2	190.2
30°	3107.5	2682.1	1546.8	702.6	383.9	257.4	226.6	207.6	191.8	185.1	185.4
32.5°	3298.1	2871.1	1610.5	668.2	356.3	220.6	195.3	187.0	185.1	177.1	173.2
35°	3541.7	3077.1	1653.2	669.0	343.2	196.9	174.0	159.3	148.7	139.6	139.6
37.5°	3827.2	3313.5	1698.7	678.1	338.5	183.1	166.5	151.8	142.0	133.3	131.7
40°	4109.5	3545.2	1740.2	686.8	335.7	174.8	160.5	147.1	138.0	129.3	126.9
42.5°	4349.5	3735.8	1777.4	691.2	326.2	174.0	156.2	143.9	135.2	125.7	123.4
45°	4527.0	3895.6	1817.3	697.9	316.7	177.1	156.2	143.5	132.9	123.8	121.4
47.5°	4685.6	4083.0	1884.1	697.9	305.3	171.2	161.3	143.9	132.5	123.0	121.0
50°	4897.9	4340.0	2010.7	681.7	289.0	164.9	170.0	142.3	128.9	121.4	119.0
52.5°	5190.5	4669.4	2211.5	653.6	264.1	152.6	168.8	141.6	125.3	117.4	114.7
55°	5536.5	5022.1	2430.6	620.8	227.0	143.9	162.9	139.6	121.4	112.7	109.9
57.5°	5806.6	5264.9	2584.8	570.2	194.5	139.2	144.3	137.6	116.6	107.6	105.2
60°	5914.1	5255.4	2627.1	502.6	178.7	135.2	126.1	154.2	112.7	103.6	100.8
62.5°	5856.0	5012.6	2508.5	455.1	175.2	130.1	118.2	142.7	109.5	100.8	96.9
65°	5587.5	4582.4	2194.1	442.5	185.4	124.9	113.1	111.9	105.2	96.9	92.9
67.5°	5002.7	3939.5	1756.8	443.6	198.5	119.8	107.9	102.4	99.2	92.5	89.0
70°	4074.7	3114.6	1309.6	446.8	205.2	113.9	102.4	96.5	92.9	86.2	83.8
72.5°	2996.0	2400.5	951.4	426.3	206.4	107.2	94.9	89.8	86.2	79.1	77.1
75°	2049.8	1836.3	659.9	353.1	179.9	97.7	86.6	81.8	79.5	70.8	69.6
77.5°	1497.4	1378.4	422.3	262.2	138.8	85.8	76.3	72.8	71.2	61.7	60.1
80°	1201.6	1090.5	264.1	179.5	101.6	72.0	64.1	62.1	60.5	51.0	49.8
82.5°	833.5	730.3	169.6	116.6	76.3	55.8	50.6	49.8	47.4	38.8	37.6
85°	439.7	396.6	107.6	79.5	55.4	38.4	35.2	35.2	34.0	25.7	24.9
87.5°	56.1	91.3	54.6	41.5	30.4	17.0	17.0	16.6	17.8	14.6	12.7
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°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	1964.0	1983.0	1964.8	1966.0	1986.1	2046.2	2073.5	2096.1	2120.2	2136.0	2143.1
5°	1423.5	1467.8	1482.8	1514.4	1561.1	1637.8	1668.2	1690.4	1705.0	1713.7	1717.3
7.5°	973.5	1000.4	1030.4	1081.4	1183.1	1228.1	1248.3	1243.2	1226.6	1220.6	1214.7
10°	733.9	723.2	717.7	745.7	828.0	873.5	887.7	873.9	864.8	866.7	876.6
12.5°	568.6	550.0	527.5	524.3	578.5	619.2	628.3	629.1	645.7	660.3	682.1
15°	414.4	412.4	401.3	394.6	425.5	458.7	462.6	469.7	484.8	495.4	514.4
17.5°	292.2	302.9	311.6	315.9	339.3	363.0	358.6	355.1	352.3	352.3	361.4
20°	235.7	242.8	253.9	266.5	290.2	306.8	296.2	281.9	271.6	268.5	269.7
22.5°	212.3	217.9	224.2	235.3	256.6	268.1	256.6	246.3	236.1	232.5	231.3
25°	200.5	207.6	213.5	221.8	237.6	245.5	234.5	227.0	220.6	216.3	213.1
27.5°	193.8	200.1	201.7	205.6	219.1	226.2	220.6	217.5	213.5	209.6	205.6
30°	186.6	185.4	182.7	183.1	193.8	200.9	200.5	201.3	200.9	199.7	198.9
32.5°	170.4	168.0	165.7	168.0	177.9	184.3	184.7	186.2	186.2	185.8	189.0
35°	142.0	146.3	149.1	156.2	168.0	173.6	171.2	167.3	160.1	155.8	155.4
37.5°	131.3	132.1	136.8	146.7	159.7	164.9	161.3	152.2	147.5	146.7	147.9
40°	126.1	126.9	129.7	138.8	151.8	157.0	153.8	147.1	142.7	142.3	144.3
42.5°	122.6	123.4	124.9	131.3	142.0	148.3	148.7	143.9	138.8	139.2	141.2
45°	120.6	121.0	120.6	123.8	133.6	141.2	144.3	141.2	136.8	137.6	140.0
47.5°	120.2	119.0	117.4	118.2	128.5	136.0	140.0	138.8	136.8	137.6	139.6
50°	118.6	115.9	113.9	113.5	123.8	131.7	135.2	135.2	136.0	137.6	139.6
52.5°	113.9	110.7	110.7	109.5	120.6	128.1	130.5	130.9	132.1	134.8	137.6
55°	107.9	106.8	107.9	106.0	118.2	125.3	126.5	127.3	128.1	130.5	134.4
57.5°	102.8	101.2	104.0	103.2	116.3	122.6	122.6	124.2	124.2	127.3	130.5
60°	100.0	96.9	98.1	98.9	113.5	120.2	119.4	121.0	121.8	124.6	126.9
62.5°	96.5	93.7	93.7	95.7	110.3	116.6	116.3	117.4	120.6	121.4	123.8
65°	92.1	90.9	89.8	92.1	107.2	112.7	113.1	114.7	117.4	118.2	120.2
67.5°	87.8	88.2	85.8	88.2	104.4	108.7	108.7	111.9	113.1	114.7	116.6
70°	83.0	83.4	81.5	84.2	102.4	104.4	104.0	108.3	109.1	110.3	112.3
72.5°	77.1	77.1	76.3	80.3	99.2	100.0	99.2	102.8	103.2	104.4	105.2
75°	70.8	70.8	70.0	75.5	97.3	95.3	92.9	95.7	96.5	97.3	97.3
77.5°	62.5	63.3	63.3	70.0	90.5	93.3	85.4	87.0	88.2	88.6	87.4
80°	52.2	54.2	55.0	63.7	75.9	86.2	76.3	77.5	77.9	77.9	76.3
82.5°	39.9	43.5	45.5	55.0	58.1	72.4	66.4	67.6	66.4	64.1	63.3
85°	27.7	32.4	34.8	41.9	43.9	55.8	55.4	55.4	53.0	49.8	49.4
87.5°	15.0	17.8	19.4	24.9	30.1	37.6	40.7	39.5	37.6	35.6	36.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2180.3	2234.1	2319.9	2385.5	2451.5	2515.2	2584.0	2636.6	2681.3	2698.7	2751.7
5°	1753.2	1820.5	1901.5	2047.8	2151.4	2265.7	2397.8	2572.5	2639.7	2732.7	2884.9
7.5°	1239.6	1300.5	1431.0	1549.2	1695.9	1857.6	2036.0	2277.2	2365.3	2514.4	2762.3
10°	925.7	996.4	1101.2	1200.9	1330.2	1495.4	1700.3	1969.9	2077.1	2238.8	2524.3
12.5°	745.7	829.2	940.3	1034.0	1134.0	1250.7	1449.6	1745.3	1888.9	2030.4	2319.1
15°	572.9	660.3	763.5	882.6	992.9	1118.6	1327.0	1650.4	1815.7	1963.2	2209.5
17.5°	396.6	471.3	601.4	725.6	866.7	1027.7	1293.0	1670.6	1867.9	2037.9	2228.5
20°	281.1	323.8	430.6	574.5	750.5	952.5	1286.7	1776.6	2033.2	2227.3	2350.3
22.5°	236.5	252.3	314.4	446.4	649.7	896.4	1308.8	1925.2	2256.2	2504.1	2544.5
25°	215.5	225.0	257.4	350.3	559.9	855.7	1383.5	2146.7	2532.2	2780.9	2773.8
27.5°	204.0	213.9	235.3	295.8	492.3	830.4	1458.3	2409.2	2847.7	3081.4	2992.8
30°	200.5	213.9	236.5	278.8	444.0	790.4	1519.6	2639.7	3090.5	3284.3	3092.5
32.5°	197.7	199.7	210.0	240.4	398.2	743.8	1561.1	2846.5	3328.2	3477.2	3236.0
35°	159.7	169.6	186.2	215.5	371.3	715.7	1561.1	3024.9	3562.2	3672.2	3372.8
37.5°	153.8	162.5	177.1	202.1	356.3	701.9	1529.8	3196.9	3801.5	3893.2	3485.5
40°	150.7	157.8	171.6	191.8	349.9	686.0	1484.4	3348.7	4035.1	4114.6	3590.7
42.5°	148.3	154.6	167.7	185.4	341.6	668.6	1447.6	3470.5	4238.0	4303.6	3691.1
45°	147.1	153.8	168.0	188.6	325.0	645.7	1435.3	3602.2	4404.9	4461.4	3799.9
47.5°	147.1	155.0	170.0	195.3	305.3	622.0	1473.7	3775.8	4562.6	4590.3	3928.0
50°	145.9	154.6	175.6	188.6	276.4	591.9	1563.8	3994.4	4733.4	4736.6	4090.1
52.5°	143.5	153.8	189.0	184.7	243.2	552.4	1685.6	4275.2	4986.1	5005.1	4344.0
55°	140.8	152.6	185.4	175.6	215.9	505.3	1785.3	4616.4	5341.2	5393.8	4717.2
57.5°	137.2	151.0	179.5	162.9	198.1	444.8	1821.3	4866.3	5589.1	5721.2	5137.9
60°	134.0	149.9	162.1	155.4	187.0	393.8	1751.7	4816.9	5572.1	5856.8	5510.8
62.5°	130.9	151.0	147.9	150.7	181.9	361.0	1569.8	4421.1	5290.2	5716.8	5787.2
65°	127.3	140.4	139.6	146.7	180.7	348.0	1301.3	3827.6	4745.3	5274.4	5852.4
67.5°	122.6	129.7	133.6	141.6	184.7	336.5	1050.2	3157.3	3988.1	4611.3	5512.4
70°	117.4	123.4	127.7	135.2	182.3	331.4	873.5	2489.9	3164.5	3779.3	4841.4
72.5°	110.7	115.9	119.8	126.9	179.9	328.6	737.8	2005.1	2362.6	2807.4	3936.3
75°	102.8	107.6	110.3	117.4	172.4	300.9	580.1	1696.7	1767.9	1952.9	3135.2
77.5°	93.7	97.3	99.6	107.6	152.6	250.3	419.5	1308.8	1372.9	1417.9	2403.7
80°	83.0	86.6	87.8	95.3	126.5	195.7	273.6	966.8	1026.9	1037.2	1569.8
82.5°	70.8	74.3	74.3	81.5	103.6	140.8	179.5	662.3	674.2	709.0	1109.5
85°	56.9	59.7	59.7	63.3	80.3	105.2	123.4	332.5	329.0	375.6	961.2
87.5°	40.7	42.7	44.7	45.5	57.3	69.6	74.3	101.2	66.8	76.7	617.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2791.6	2814.1	2791.2	2774.6	2703.0	2644.1	2565.4	2525.1
5°	3000.8	3058.1	3038.7	2969.1	2819.7	2651.6	2460.6	2374.4
7.5°	2975.5	3108.7	3111.9	2981.8	2761.5	2514.0	2255.4	2132.8
10°	2778.5	2949.0	2997.6	2871.5	2637.8	2361.0	2064.4	1924.5
12.5°	2558.7	2725.6	2762.7	2719.2	2523.9	2245.9	1945.0	1807.8
15°	2378.8	2453.5	2497.8	2535.8	2426.2	2200.1	1938.3	1787.6
17.5°	2269.3	2260.9	2273.6	2339.6	2358.2	2252.6	2041.1	1875.0
20°	2229.7	2102.8	2099.6	2190.6	2326.2	2378.0	2242.0	2042.7
22.5°	2251.5	2045.8	2019.7	2127.7	2343.2	2558.7	2505.3	2278.0
25°	2326.6	2050.6	2029.6	2134.0	2404.9	2751.3	2789.6	2582.4
27.5°	2444.8	2080.6	2053.0	2160.1	2486.7	2913.0	3069.6	2877.4
30°	2557.1	2132.8	2098.4	2211.5	2561.5	2977.0	3241.2	3107.5
32.5°	2693.5	2230.5	2170.0	2306.0	2654.0	3079.0	3394.2	3298.1
35°	2827.2	2369.7	2294.6	2451.9	2757.2	3206.0	3569.0	3541.7
37.5°	2973.9	2551.6	2489.5	2640.5	2898.3	3325.8	3792.0	3827.2
40°	3130.5	2792.8	2719.2	2915.7	3117.4	3476.0	4024.9	4109.5
42.5°	3288.2	3060.5	2972.7	3172.0	3358.2	3624.3	4224.2	4349.5
45°	3468.9	3351.1	3309.6	3525.1	3589.5	3765.5	4371.2	4527.0
47.5°	3679.3	3680.9	3747.7	3833.9	3822.8	3925.2	4519.1	4685.6
50°	3924.8	4092.5	4240.0	4297.3	4063.2	4096.8	4724.3	4897.9
52.5°	4219.8	4584.8	4767.4	4729.9	4322.2	4306.4	5049.4	5190.5
55°	4588.7	5105.9	5287.4	5260.5	4620.0	4591.9	5454.3	5536.5
57.5°	5015.8	5610.9	5777.7	5656.7	4977.4	4905.0	5789.2	5806.6
60°	5391.0	6011.0	6157.3	6023.3	5338.0	5238.4	5998.4	5914.1
62.5°	5599.8	6146.6	6249.4	6105.1	5585.2	5593.5	6044.2	5856.0
65°	5506.5	5803.8	5837.0	5825.2	5521.5	5799.5	5879.3	5587.5
67.5°	4995.6	4937.1	4992.8	5069.9	4975.8	5528.2	5422.6	5002.7
70°	4095.6	3774.2	3885.3	3937.1	3979.8	4757.2	4706.6	4074.7
72.5°	3086.6	2644.1	2731.9	2721.2	2918.9	3815.7	3660.3	2996.0
75°	2187.0	1792.8	1803.9	1799.5	2036.8	2985.3	2650.4	2049.8
77.5°	1530.2	1298.9	1304.8	1329.4	1369.3	2251.5	1893.6	1497.4
80°	1052.2	985.8	1018.6	1020.6	949.0	1512.4	1399.0	1201.6
82.5°	783.7	685.2	677.3	688.8	743.8	1225.4	1075.1	833.5
85°	641.7	405.7	326.2	408.9	659.1	1213.5	714.1	439.7
87.5°	361.4	192.6	87.0	161.3	262.9	803.5	206.4	56.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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