

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: P200638

Luminaire Tested: **GWC-AF-02-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200638
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-SLL-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7198 lumens
Efficiency: N/A
Efficacy: 83.7 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): 86
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



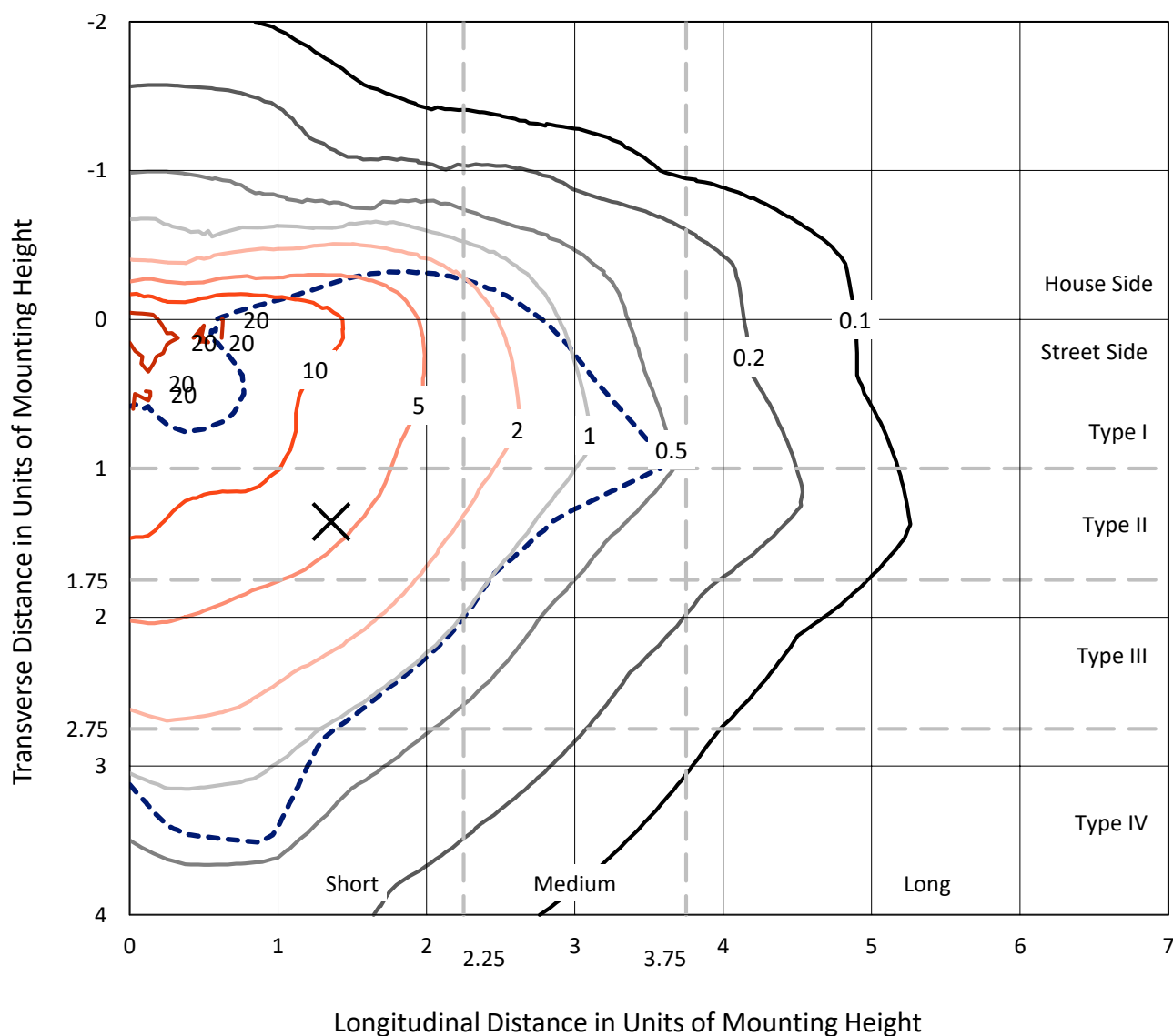
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

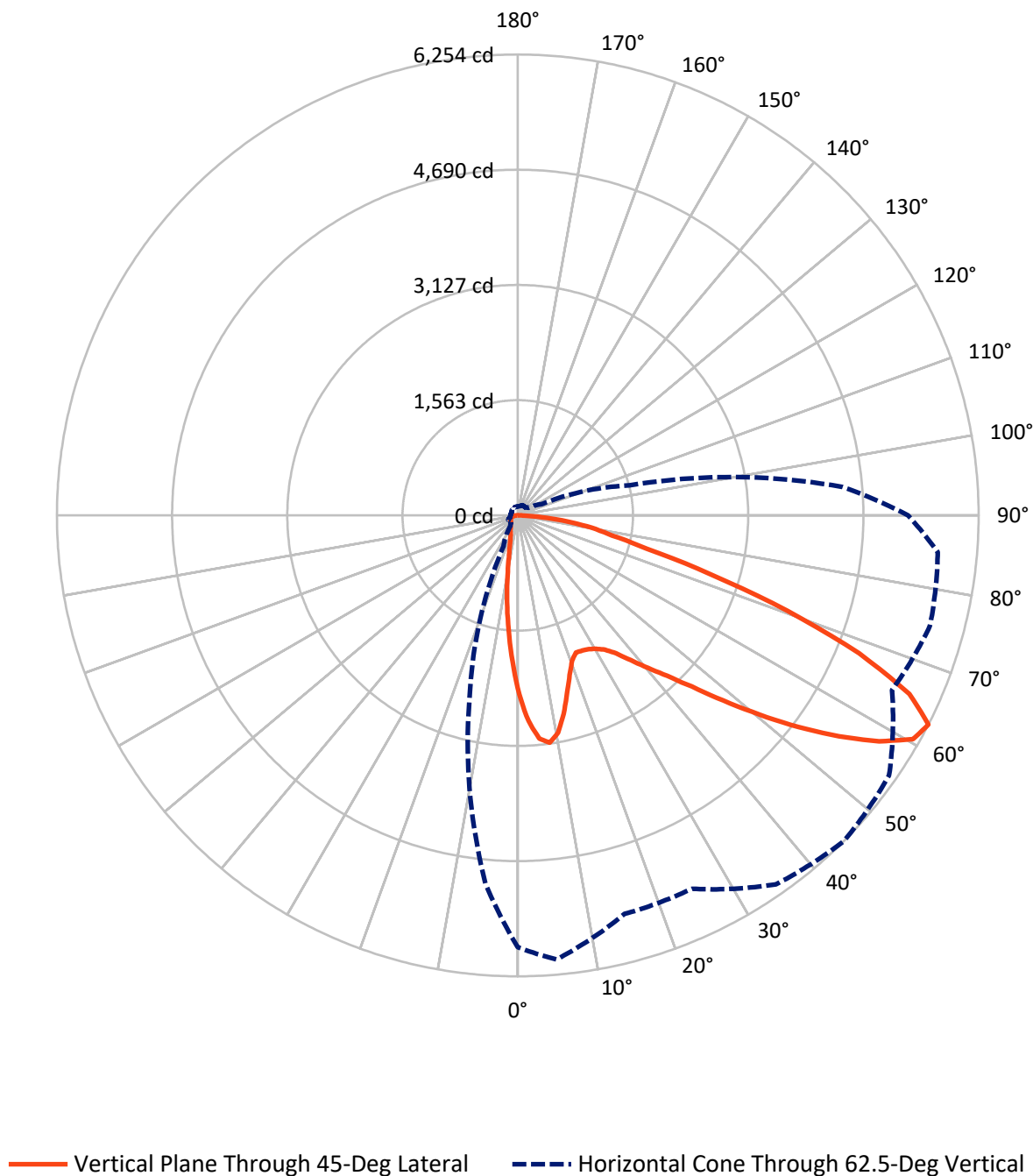


Based on 10 foot mounting height. Maximum calculated value = 28.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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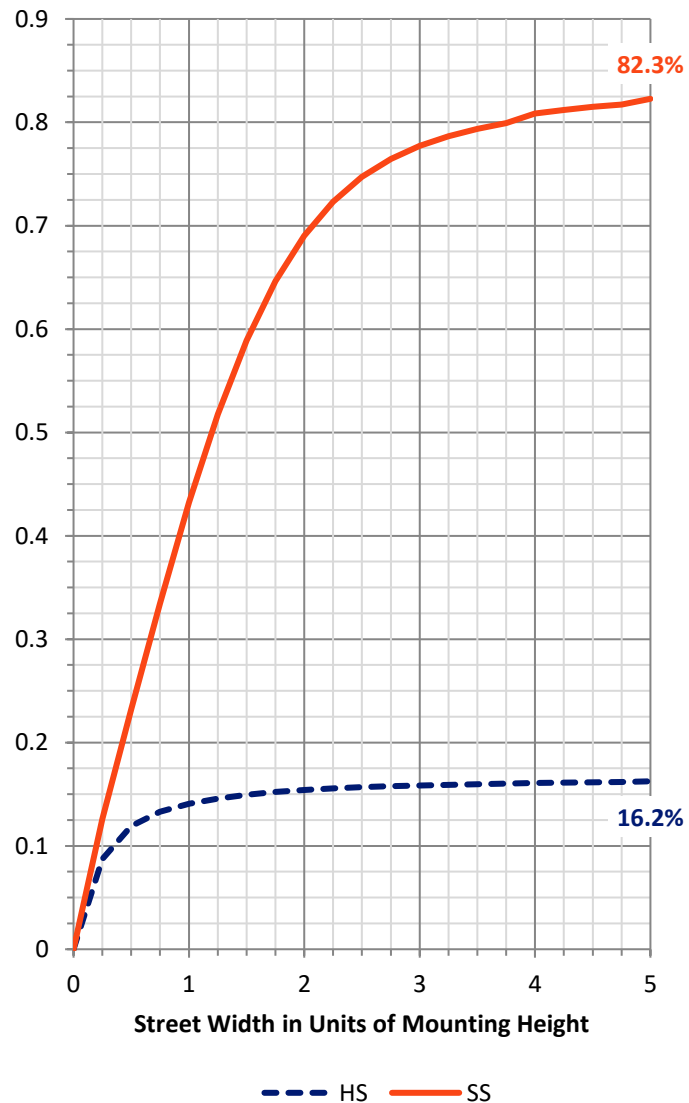
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.2	0.0	1191.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6006.8	0.0	6006.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	7198.0	0.0	7198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	2.5
10°-20°	324.6	4.5
20°-30°	473.3	6.6
30°-40°	729.0	10.1
40°-50°	1072.8	14.9
50°-60°	1573.6	21.9
60°-70°	1759.1	24.4
70°-80°	861.2	12.0
80°-90°	227.4	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°	7198.0	100.0
0°-180°	7198.0	100.0

Coefficient of Utilization



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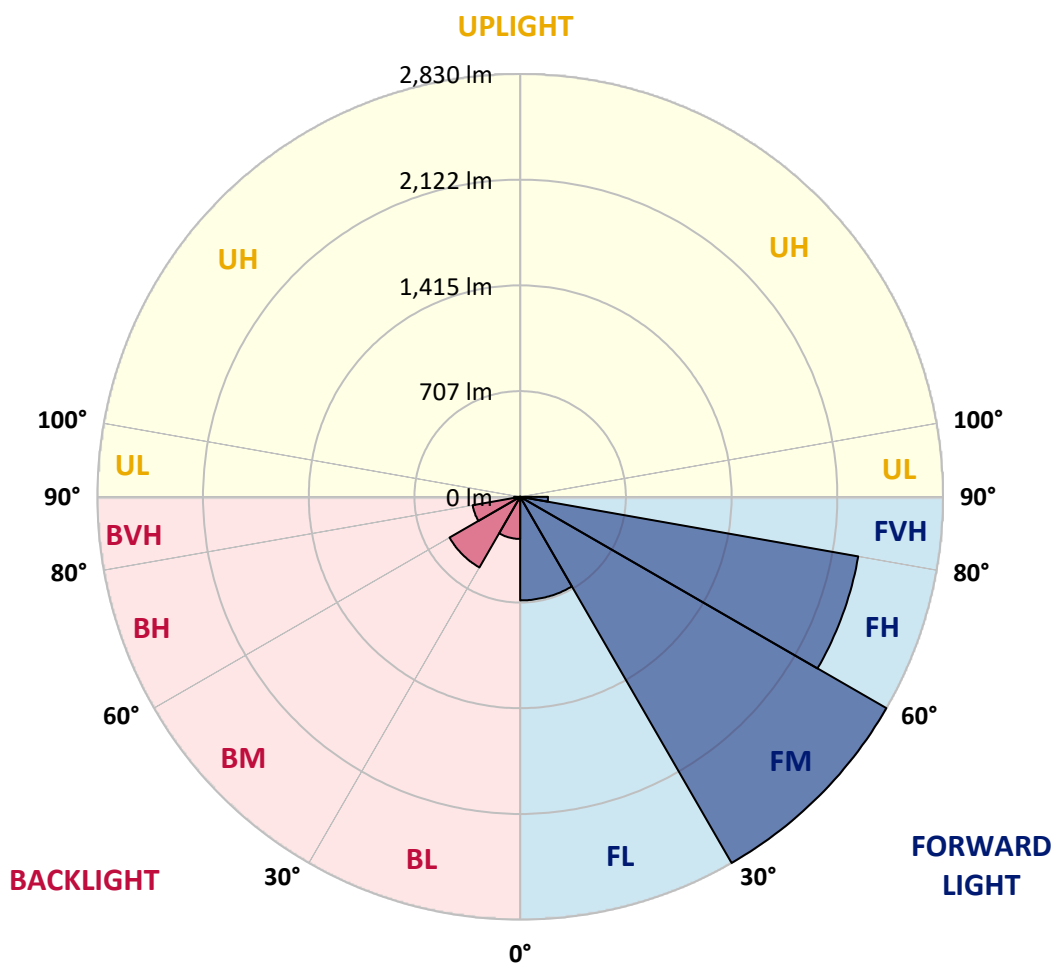
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.1	9.6			
FM	(30°-60°)	2829.6	39.3			
FH	(60°-80°)	2297.4	31.9			G2/5000
FVH	(80°-90°)	186.7	2.6			G2/225
BL	(0°-30°)	281.8	3.9	B1/500		
BM	(30°-60°)	545.8	7.6	B1/1000		
BH	(60°-80°)	322.9	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°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2526.8	2567.2	2645.9	2704.9	2776.5	2793.1	2816.1	2793.5	2753.6	2700.5	2683.1
5°	2376.1	2462.3	2653.5	2821.6	2971.2	3040.8	3060.2	3002.8	2886.9	2734.6	2641.6
7.5°	2134.3	2257.0	2515.8	2763.5	2983.9	3114.0	3110.9	2977.5	2764.2	2516.2	2367.0
10°	1925.8	2065.9	2362.6	2639.6	2873.5	2999.7	2951.0	2780.5	2526.0	2240.4	2078.5
12.5°	1809.1	1946.4	2247.5	2525.6	2721.1	2764.6	2727.4	2560.5	2320.7	2031.8	1890.2
15°	1788.9	1939.6	2201.6	2427.9	2537.5	2499.5	2455.2	2380.4	2211.1	1964.6	1817.0
17.5°	1876.3	2042.5	2254.2	2359.9	2341.3	2275.2	2262.5	2270.8	2230.1	2039.4	1869.2
20°	2044.1	2243.5	2379.6	2327.8	2192.1	2101.1	2104.2	2231.3	2351.9	2228.9	2034.6
22.5°	2279.5	2507.1	2560.5	2344.8	2129.2	2021.2	2047.3	2253.0	2546.2	2505.9	2257.8
25°	2584.2	2791.5	2753.2	2406.5	2135.5	2031.0	2052.0	2328.2	2775.7	2782.8	2534.0
27.5°	2879.4	3071.7	2915.0	2488.5	2161.6	2054.4	2082.1	2446.5	2994.9	3083.6	2849.7
30°	3109.7	3243.4	2979.1	2563.2	2213.1	2099.9	2134.3	2558.9	3094.6	3286.5	3092.7
32.5°	3300.4	3396.5	3081.2	2655.8	2307.6	2171.5	2232.1	2695.4	3238.3	3479.6	3330.5
35°	3544.1	3571.4	3208.2	2759.1	2453.6	2296.2	2371.3	2829.1	3375.2	3674.7	3564.7
37.5°	3829.8	3794.6	3328.1	2900.4	2642.4	2491.2	2553.3	2975.9	3488.0	3895.9	3804.1
40°	4112.3	4027.7	3478.5	3119.6	2917.8	2721.1	2794.7	3132.6	3593.2	4117.5	4038.0
42.5°	4352.5	4227.1	3626.8	3360.5	3174.2	2974.8	3062.6	3290.5	3693.7	4306.6	4240.9
45°	4530.2	4374.3	3768.1	3592.0	3527.5	3311.9	3353.4	3471.3	3802.5	4464.5	4407.9
47.5°	4688.9	4522.3	3928.0	3825.5	3836.5	3750.3	3683.4	3681.8	3930.7	4593.5	4565.8
50°	4901.3	4727.6	4099.7	4066.0	4300.3	4242.9	4095.3	3927.6	4093.0	4739.9	4736.7
52.5°	5194.1	5052.9	4309.4	4325.2	4733.2	4770.8	4588.0	4222.7	4347.0	5008.6	4989.6
55°	5540.4	5458.1	4595.1	4623.2	5264.2	5291.1	5109.5	4591.9	4720.5	5397.5	5344.9
57.5°	5810.6	5793.2	4908.5	4980.9	5660.7	5781.7	5614.8	5019.2	5141.5	5725.1	5593.0
60°	5918.2	6002.5	5242.0	5341.7	6027.5	6161.6	6015.2	5394.8	5514.6	5860.9	5576.0
62.5°	5860.1	6048.4	5597.3	5589.0	6109.4	6253.8	6150.9	5603.7	5791.2	5720.8	5293.9
65°	5591.4	5883.4	5803.5	5525.3	5829.2	5841.1	5807.8	5510.3	5856.5	5278.0	4748.6
67.5°	5006.2	5426.4	5532.1	4979.3	5073.5	4996.3	4940.5	4999.1	5516.2	4614.5	3990.9
70°	4077.5	4709.8	4760.5	3982.6	3939.8	3888.0	3776.8	4098.5	4844.8	3781.9	3166.7
72.5°	2998.1	3662.8	3818.3	2920.9	2723.1	2733.8	2645.9	3088.7	3939.0	2809.4	2364.2
75°	2051.2	2652.3	2987.4	2038.2	1800.8	1805.1	1794.0	2188.5	3137.4	1954.3	1769.1
77.5°	1498.5	1894.9	2253.0	1370.3	1330.3	1305.8	1299.8	1531.3	2405.4	1418.9	1373.8
80°	1202.5	1399.9	1513.5	949.6	1021.3	1019.3	986.4	1052.9	1570.9	1037.9	1027.6
82.5°	834.1	1075.9	1226.2	744.3	689.3	677.8	685.7	784.2	1110.3	709.5	674.6
85°	440.0	714.6	1214.4	659.6	409.1	326.4	406.0	642.2	961.9	375.9	329.2
87.5°	56.2	206.5	804.0	263.1	161.4	87.1	192.7	361.7	617.7	76.8	66.9
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°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2638.4	2585.8	2516.9	2453.2	2387.2	2321.5	2235.6	2181.8	2144.6	2137.5	2121.7
5°	2574.3	2399.4	2267.3	2152.9	2049.2	1902.8	1821.7	1754.5	1718.5	1714.9	1706.2
7.5°	2278.7	2037.4	1858.9	1697.1	1550.3	1432.0	1301.4	1240.5	1215.5	1221.5	1227.4
10°	1971.3	1701.4	1496.5	1331.1	1201.7	1102.0	997.1	926.3	877.2	867.3	865.4
12.5°	1746.5	1450.6	1251.5	1134.8	1034.7	940.9	829.7	746.3	682.6	660.8	646.2
15°	1651.6	1327.9	1119.4	993.6	883.2	764.1	660.8	573.3	514.8	495.8	485.1
17.5°	1671.8	1293.9	1028.4	867.3	726.1	601.8	471.7	396.9	361.7	352.6	352.6
20°	1777.8	1287.6	953.2	751.0	574.9	430.9	324.1	281.3	269.9	268.7	271.8
22.5°	1926.6	1309.7	897.0	650.1	446.7	314.6	252.4	236.6	231.5	232.7	236.2
25°	2148.2	1384.5	856.3	560.3	350.6	257.6	225.1	215.6	213.3	216.4	220.8
27.5°	2410.9	1459.3	830.9	492.6	296.0	235.4	214.1	204.2	205.8	209.7	213.7
30°	2641.6	1520.6	791.0	444.4	279.0	236.6	214.1	200.6	199.0	199.8	201.0
32.5°	2848.5	1562.2	744.3	398.5	240.6	210.1	199.8	197.8	189.1	186.0	186.4
35°	3027.0	1562.2	716.2	371.5	215.6	186.4	169.7	159.9	155.5	155.9	160.3
37.5°	3199.1	1530.9	702.3	356.5	202.2	177.3	162.6	153.9	148.0	146.8	147.6
40°	3351.0	1485.4	686.5	350.2	191.9	171.7	157.9	150.8	144.4	142.4	142.8
42.5°	3472.9	1448.6	669.1	341.9	185.6	167.8	154.7	148.4	141.3	139.3	138.9
45°	3604.7	1436.3	646.2	325.3	188.7	168.2	153.9	147.2	140.1	137.7	136.9
47.5°	3778.4	1474.7	622.4	305.5	195.5	170.1	155.1	147.2	139.7	137.7	136.9
50°	3997.2	1564.9	592.3	276.6	188.7	175.7	154.7	146.0	139.7	137.7	136.1
52.5°	4278.1	1686.8	552.8	243.3	184.8	189.1	153.9	143.6	137.7	134.9	132.2
55°	4619.6	1786.5	505.7	216.0	175.7	185.6	152.7	140.9	134.5	130.6	128.2
57.5°	4869.7	1822.5	445.1	198.2	163.0	179.6	151.2	137.3	130.6	127.4	124.2
60°	4820.2	1752.9	394.1	187.2	155.5	162.2	150.0	134.1	127.0	124.6	121.9
62.5°	4424.1	1570.9	361.3	182.0	150.8	148.0	151.2	131.0	123.8	121.5	120.7
65°	3830.2	1302.2	348.2	180.8	146.8	139.7	140.5	127.4	120.3	118.3	117.5
67.5°	3159.5	1050.9	336.7	184.8	141.7	133.7	129.8	122.7	116.7	114.7	113.2
70°	2491.6	874.1	331.6	182.4	135.3	127.8	123.5	117.5	112.4	110.4	109.2
72.5°	2006.5	738.3	328.8	180.0	127.0	119.9	115.9	110.8	105.3	104.5	103.3
75°	1697.9	580.5	301.1	172.5	117.5	110.4	107.6	102.9	97.3	97.3	96.5
77.5°	1309.7	419.8	250.5	152.7	107.6	99.7	97.3	93.8	87.4	88.6	88.2
80°	967.4	273.8	195.9	126.6	95.4	87.8	86.7	83.1	76.4	77.9	77.9
82.5°	662.8	179.6	140.9	103.7	81.5	74.4	74.4	70.8	63.3	64.1	66.5
85°	332.8	123.5	105.3	80.3	63.3	59.7	59.7	57.0	49.5	49.9	53.0
87.5°	101.3	74.4	69.6	57.4	45.5	44.7	42.7	40.8	36.0	35.6	37.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2097.5	2075.0	2047.7	1987.5	1967.3	1966.2	1984.4	1965.4	2001.8	1986.3	2003.3
5°	1691.5	1669.4	1638.9	1562.2	1515.5	1483.8	1468.8	1424.5	1456.5	1433.2	1452.6
7.5°	1244.0	1249.2	1229.0	1183.9	1082.2	1031.2	1001.1	974.2	997.5	995.1	1032.3
10°	874.5	888.3	874.1	828.6	746.3	718.2	723.7	734.4	764.9	780.7	838.1
12.5°	629.5	628.7	619.6	578.9	524.7	527.8	550.4	569.0	597.1	613.7	672.3
15°	470.1	462.9	459.0	425.8	394.9	401.6	412.7	414.7	432.5	442.4	489.9
17.5°	355.3	358.9	363.2	339.5	316.2	311.8	303.1	292.4	297.6	299.5	323.3
20°	282.1	296.4	307.1	290.4	266.7	254.0	242.9	235.8	235.8	235.4	242.2
22.5°	246.5	256.8	268.3	256.8	235.4	224.4	218.0	212.5	211.7	211.7	218.0
25°	227.1	234.6	245.7	237.8	222.0	213.7	207.7	200.6	197.8	197.1	201.4
27.5°	217.6	220.8	226.3	219.2	205.8	201.8	200.2	193.9	190.3	188.3	192.7
30°	201.4	200.6	201.0	193.9	183.2	182.8	185.6	186.8	185.6	185.2	191.9
32.5°	186.4	184.8	184.4	178.1	168.2	165.8	168.2	170.5	173.3	177.3	185.2
35°	167.4	171.3	173.7	168.2	156.3	149.2	146.4	142.1	139.7	139.7	148.8
37.5°	152.3	161.4	165.0	159.9	146.8	136.9	132.2	131.4	131.8	133.3	142.1
40°	147.2	153.9	157.1	151.9	138.9	129.8	127.0	126.2	127.0	129.4	138.1
42.5°	144.0	148.8	148.4	142.1	131.4	125.0	123.5	122.7	123.5	125.8	135.3
45°	141.3	144.4	141.3	133.7	123.8	120.7	121.1	120.7	121.5	123.8	132.9
47.5°	138.9	140.1	136.1	128.6	118.3	117.5	119.1	120.3	121.1	123.1	132.6
50°	135.3	135.3	131.8	123.8	113.6	114.0	115.9	118.7	119.1	121.5	129.0
52.5°	131.0	130.6	128.2	120.7	109.6	110.8	110.8	114.0	114.7	117.5	125.4
55°	127.4	126.6	125.4	118.3	106.0	108.0	106.8	108.0	110.0	112.8	121.5
57.5°	124.2	122.7	122.7	116.3	103.3	104.1	101.3	102.9	105.3	107.6	116.7
60°	121.1	119.5	120.3	113.6	98.9	98.1	96.9	100.1	100.9	103.7	112.8
62.5°	117.5	116.3	116.7	110.4	95.8	93.8	93.8	96.5	96.9	100.9	109.6
65°	114.7	113.2	112.8	107.2	92.2	89.8	91.0	92.2	93.0	96.9	105.3
67.5°	112.0	108.8	108.8	104.5	88.2	85.9	88.2	87.8	89.0	92.6	99.3
70°	108.4	104.1	104.5	102.5	84.3	81.5	83.5	83.1	83.9	86.3	93.0
72.5°	102.9	99.3	100.1	99.3	80.3	76.4	77.2	77.2	77.2	79.1	86.3
75°	95.8	93.0	95.4	97.3	75.6	70.0	70.8	70.8	69.6	70.8	79.5
77.5°	87.1	85.5	93.4	90.6	70.0	63.3	63.3	62.5	60.1	61.7	71.2
80°	77.6	76.4	86.3	76.0	63.7	55.0	54.2	52.2	49.9	51.0	60.5
82.5°	67.7	66.5	72.4	58.2	55.0	45.5	43.5	40.0	37.6	38.8	47.5
85°	55.4	55.4	55.8	43.9	41.9	34.8	32.4	27.7	24.9	25.7	34.0
87.5°	39.6	40.8	37.6	30.1	24.9	19.4	17.8	15.0	12.7	14.6	17.8
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°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2090.4	2133.9	2183.4	2246.7	2300.9	2389.9	2475.4	2526.8
5°	1563.0	1635.4	1725.6	1841.5	1949.5	2111.8	2272.8	2376.1
7.5°	1118.6	1196.2	1293.5	1438.3	1591.0	1798.0	2010.9	2134.3
10°	925.5	1005.0	1086.9	1184.7	1309.7	1534.9	1786.5	1925.8
12.5°	765.6	850.7	939.0	1041.8	1157.8	1358.8	1648.8	1809.1
15°	586.0	681.0	785.0	915.2	1060.4	1292.7	1614.8	1788.9
17.5°	401.6	507.7	635.5	796.1	973.8	1271.3	1675.7	1876.3
20°	276.6	353.7	490.3	678.6	892.3	1268.6	1792.8	2044.1
22.5°	231.5	265.9	365.6	570.6	830.9	1302.6	1974.5	2279.5
25°	214.1	234.6	292.0	476.8	786.2	1380.9	2224.5	2584.2
27.5°	203.8	222.4	265.1	415.5	751.0	1471.9	2467.9	2879.4
30°	207.7	226.7	257.6	384.2	703.1	1547.9	2683.9	3109.7
32.5°	187.2	195.5	220.8	356.5	668.7	1611.6	2873.1	3300.4
35°	159.5	174.1	197.1	343.5	669.5	1654.4	3079.2	3544.1
37.5°	151.9	166.6	183.2	338.7	678.6	1699.9	3315.8	3829.8
40°	147.2	160.6	174.9	335.9	687.3	1741.4	3547.7	4112.3
42.5°	144.0	156.3	174.1	326.4	691.7	1778.6	3738.4	4352.5
45°	143.6	156.3	177.3	316.9	698.4	1818.6	3898.3	4530.2
47.5°	144.0	161.4	171.3	305.5	698.4	1885.4	4085.8	4688.9
50°	142.4	170.1	165.0	289.2	682.2	2012.1	4343.0	4901.3
52.5°	141.7	169.0	152.7	264.3	654.1	2213.1	4672.6	5194.1
55°	139.7	163.0	144.0	227.1	621.2	2432.3	5025.6	5540.4
57.5°	137.7	144.4	139.3	194.7	570.6	2586.6	5268.5	5810.6
60°	154.3	126.2	135.3	178.8	502.9	2628.9	5259.0	5918.2
62.5°	142.8	118.3	130.2	175.3	455.4	2510.2	5016.1	5860.1
65°	112.0	113.2	125.0	185.6	442.8	2195.6	4585.6	5591.4
67.5°	102.5	108.0	119.9	198.6	444.0	1758.0	3942.2	5006.2
70°	96.5	102.5	114.0	205.4	447.1	1310.5	3116.8	4077.5
72.5°	89.8	95.0	107.2	206.5	426.5	952.0	2402.2	2998.1
75°	81.9	86.7	97.7	180.0	353.3	660.4	1837.6	2051.2
77.5°	72.8	76.4	85.9	138.9	262.3	422.6	1379.4	1498.5
80°	62.1	64.1	72.0	101.7	179.6	264.3	1091.3	1202.5
82.5°	49.9	50.6	55.8	76.4	116.7	169.7	730.8	834.1
85°	35.2	35.2	38.4	55.4	79.5	107.6	396.9	440.0
87.5°	16.6	17.0	17.0	30.5	41.5	54.6	91.4	56.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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