

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: P270165

Luminaire Tested: **GWC-AF-01-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270165
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-SLL-7027
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4854.4 lumens
Efficiency: N/A
Efficacy: 82.3 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

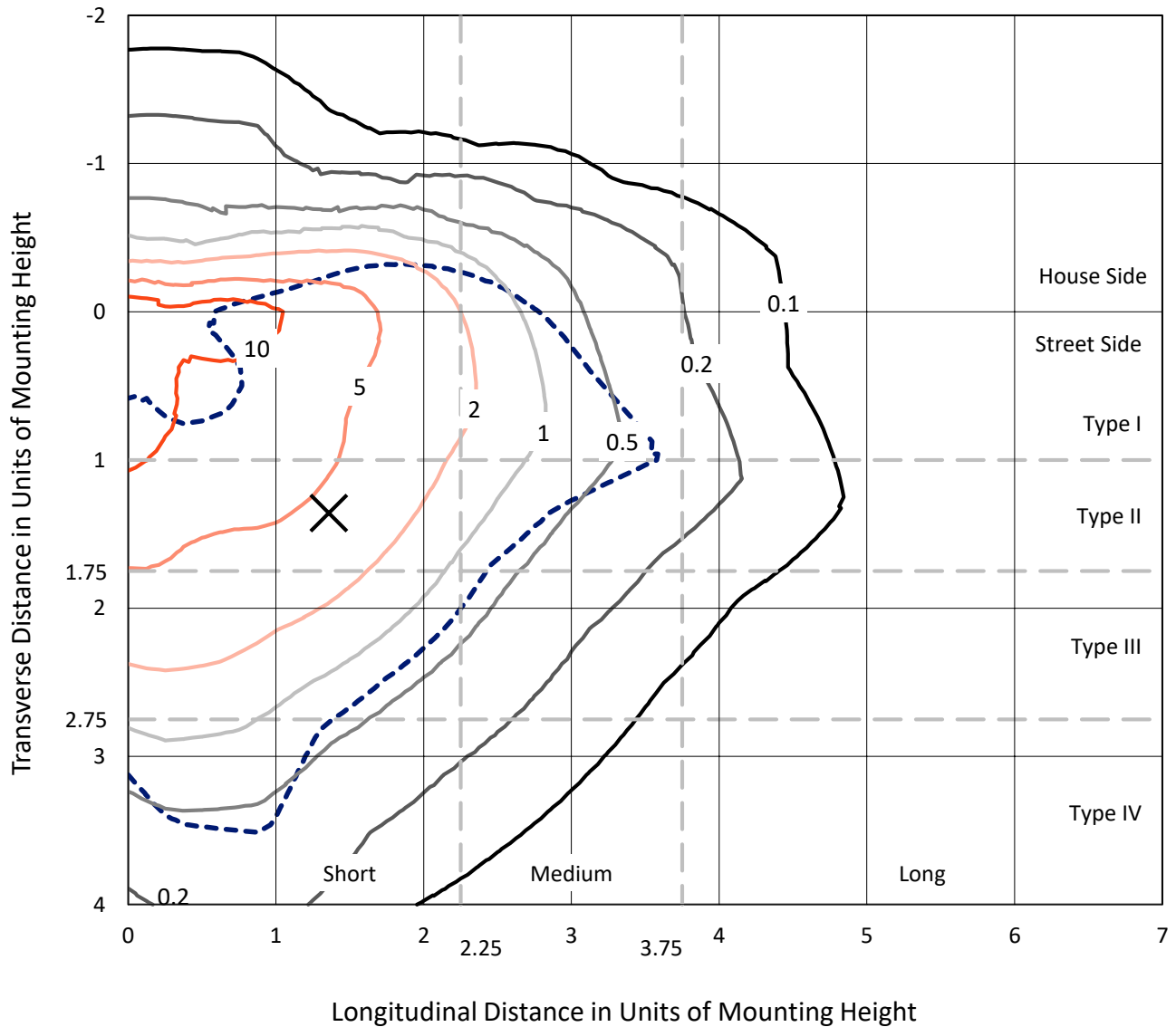
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

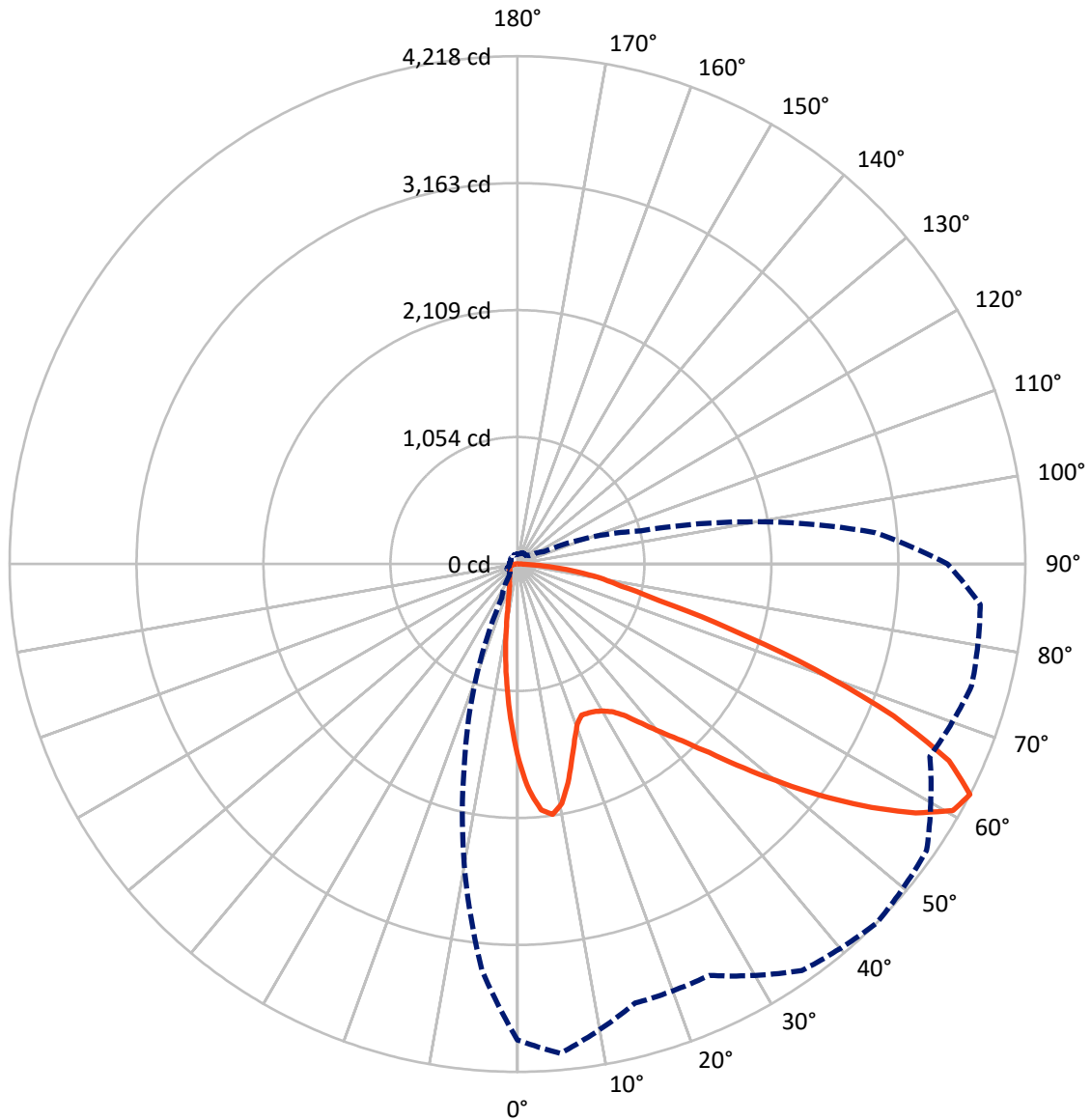
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.3	0.0	803.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4051.1	0.0	4051.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	4854.4	0.0	4854.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	2.5
10°-20°	218.9	4.5
20°-30°	319.2	6.6
30°-40°	491.6	10.1
40°-50°	723.5	14.9
50°-60°	1061.2	21.9
60°-70°	1186.3	24.4
70°-80°	580.8	12.0
80°-90°	153.3	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°	4854.4	100.0
0°-180°	4854.4	100.0



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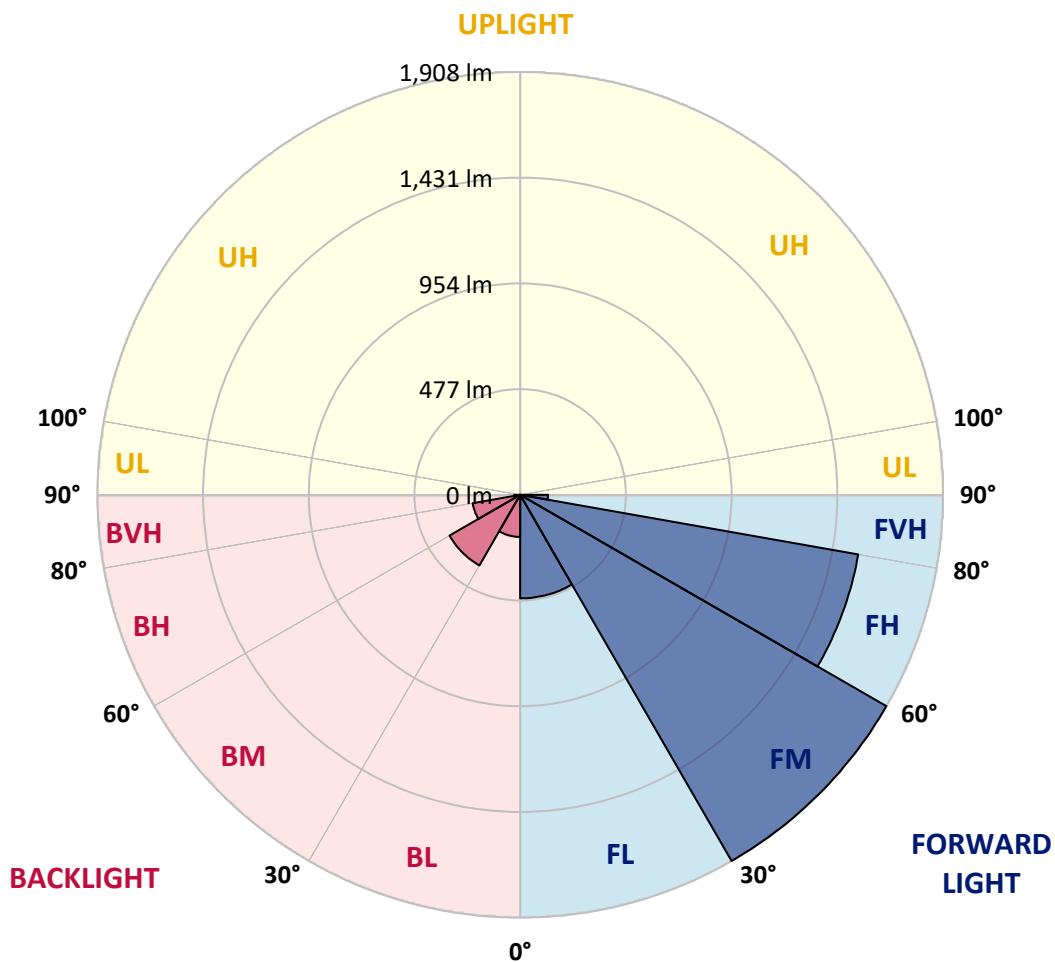
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.5	9.6			
FM (30°-60°)	1908.3	39.3			
FH (60°-80°)	1549.4	31.9			G1/1800
FVH (80°-90°)	125.9	2.6			G2/225
BL (0°-30°)	190.1	3.9	B1/500		
BM (30°-60°)	368.1	7.6	B1/1000		
BH (60°-80°)	217.8	4.5	B1/500		G1/500
BVH (80°-90°)	27.4	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°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1704.2	1731.4	1784.5	1824.2	1872.4	1883.7	1899.1	1883.9	1857.1	1821.3	1809.5
5°	1602.4	1660.6	1789.6	1902.9	2003.8	2050.8	2063.9	2025.1	1946.9	1844.2	1781.5
7.5°	1439.4	1522.2	1696.7	1863.8	2012.4	2100.1	2098.0	2008.2	1864.3	1696.9	1596.3
10°	1298.8	1393.2	1593.4	1780.3	1938.0	2023.1	1990.1	1875.2	1703.5	1510.9	1401.7
12.5°	1220.1	1312.7	1515.7	1703.4	1835.1	1864.5	1839.4	1726.8	1565.0	1370.3	1274.8
15°	1206.5	1308.1	1484.8	1637.4	1711.4	1685.7	1655.8	1605.5	1491.1	1324.9	1225.4
17.5°	1265.4	1377.6	1520.2	1591.4	1579.0	1534.5	1526.0	1531.5	1504.0	1375.3	1260.6
20°	1378.5	1513.0	1604.8	1569.9	1478.4	1416.9	1419.1	1504.8	1586.1	1503.1	1372.2
22.5°	1537.3	1690.8	1726.8	1581.3	1435.9	1363.1	1380.7	1519.5	1717.2	1690.0	1522.6
25°	1742.8	1882.7	1856.7	1623.0	1440.3	1369.7	1383.8	1570.1	1872.0	1876.7	1708.9
27.5°	1941.9	2071.6	1965.9	1678.3	1457.8	1385.5	1404.2	1649.9	2019.7	2079.5	1921.8
30°	2097.3	2187.5	2009.1	1728.7	1492.5	1416.2	1439.4	1725.7	2087.0	2216.5	2085.8
32.5°	2225.8	2290.7	2078.0	1791.1	1556.4	1464.4	1505.3	1817.8	2183.9	2346.7	2246.1
35°	2390.2	2408.6	2163.7	1860.7	1654.8	1548.6	1599.3	1908.0	2276.2	2478.2	2404.0
37.5°	2582.8	2559.1	2244.5	1956.0	1782.1	1680.1	1722.1	2007.1	2352.3	2627.5	2565.5
40°	2773.3	2716.4	2346.0	2103.9	1967.7	1835.1	1884.7	2112.6	2423.3	2776.9	2723.2
42.5°	2935.4	2850.9	2445.9	2266.3	2140.8	2006.3	2065.5	2219.2	2491.1	2904.4	2860.2
45°	3055.1	2950.0	2541.2	2422.5	2379.0	2233.5	2261.7	2341.2	2564.4	3010.8	2972.8
47.5°	3162.3	3049.8	2649.0	2579.9	2587.4	2529.3	2484.2	2483.1	2650.9	3098.0	3079.2
50°	3305.6	3188.4	2764.9	2742.2	2900.2	2861.6	2761.8	2648.8	2760.3	3196.6	3194.6
52.5°	3503.0	3407.7	2906.2	2916.9	3192.0	3217.5	3094.1	2847.8	2931.7	3377.8	3365.1
55°	3736.5	3681.0	3099.0	3117.8	3550.2	3568.3	3445.9	3096.8	3183.6	3640.1	3604.7
57.5°	3918.8	3907.0	3310.3	3359.1	3817.5	3899.3	3786.6	3385.1	3467.5	3861.2	3772.0
60°	3991.3	4048.1	3535.3	3602.6	4065.0	4155.4	4056.7	3638.2	3719.2	3952.6	3760.5
62.5°	3952.2	4079.2	3774.9	3769.3	4120.3	4217.6	4148.3	3779.2	3905.7	3858.2	3570.3
65°	3770.9	3967.9	3913.9	3726.3	3931.3	3939.2	3916.9	3716.2	3949.7	3559.5	3202.5
67.5°	3376.2	3659.7	3730.9	3358.0	3421.6	3369.5	3332.0	3371.3	3720.2	3112.1	2691.5
70°	2749.9	3176.3	3210.5	2685.9	2657.0	2622.2	2547.1	2764.1	3267.3	2550.6	2135.6
72.5°	2021.9	2470.2	2575.1	1970.0	1836.5	1843.7	1784.5	2083.1	2656.5	1894.6	1594.4
75°	1383.4	1788.7	2014.8	1374.5	1214.5	1217.5	1209.8	1475.9	2115.9	1318.1	1193.0
77.5°	1010.6	1278.0	1519.5	924.0	897.1	880.6	876.7	1032.7	1622.2	957.0	926.5
80°	811.0	944.1	1020.7	640.4	688.7	687.5	665.3	710.1	1059.5	700.0	693.0
82.5°	562.5	725.7	827.0	502.0	464.9	457.1	462.4	528.9	748.7	478.4	455.0
85°	296.7	481.9	819.0	444.8	275.9	220.2	273.9	433.2	648.8	253.5	222.1
87.5°	37.9	139.2	542.2	177.4	108.9	58.7	130.0	243.9	416.5	51.7	45.0
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°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1779.5	1743.9	1697.4	1654.5	1609.9	1565.7	1507.7	1471.5	1446.4	1441.5	1430.9
5°	1736.2	1618.1	1529.1	1451.9	1382.0	1283.3	1228.6	1183.2	1159.0	1156.6	1150.6
7.5°	1536.8	1374.0	1253.7	1144.5	1045.5	965.8	877.6	836.6	819.8	823.7	827.8
10°	1329.4	1147.5	1009.2	897.6	810.5	743.2	672.6	624.7	591.7	584.9	583.5
12.5°	1177.9	978.3	844.0	765.4	697.9	634.7	559.6	503.3	460.3	445.6	435.8
15°	1113.9	895.6	754.9	670.0	595.7	515.3	445.6	386.7	347.1	334.3	327.2
17.5°	1127.5	872.7	693.5	584.9	489.7	405.9	318.1	267.6	243.9	237.8	237.8
20°	1199.0	868.3	642.8	506.5	387.8	290.6	218.6	189.7	181.9	181.2	183.3
22.5°	1299.3	883.4	605.0	438.5	301.3	212.2	170.3	159.5	156.1	156.9	159.3
25°	1448.7	933.7	577.5	377.8	236.4	173.7	151.9	145.4	143.8	146.0	148.8
27.5°	1625.9	984.2	560.5	332.3	199.7	158.8	144.4	137.7	138.8	141.5	144.1
30°	1781.5	1025.5	533.5	299.7	188.1	159.5	144.4	135.3	134.2	134.7	135.6
32.5°	1921.0	1053.5	502.0	268.8	162.2	141.8	134.7	133.4	127.6	125.5	125.8
35°	2041.4	1053.5	483.0	250.5	145.4	125.8	114.4	107.7	104.9	105.1	108.1
37.5°	2157.5	1032.4	473.6	240.4	136.4	119.6	109.7	103.8	99.8	99.1	99.5
40°	2260.0	1001.8	462.9	236.2	129.4	115.8	106.4	101.7	97.3	96.1	96.4
42.5°	2342.2	976.9	451.3	230.5	125.1	113.1	104.4	100.2	95.3	94.0	93.7
45°	2431.1	968.7	435.8	219.4	127.3	113.5	103.8	99.3	94.4	92.9	92.3
47.5°	2548.2	994.6	419.8	206.0	131.8	114.8	104.7	99.3	94.2	92.9	92.3
50°	2695.8	1055.4	399.4	186.5	127.3	118.4	104.4	98.5	94.2	92.9	91.7
52.5°	2885.3	1137.7	372.7	164.1	124.7	127.6	103.8	96.8	92.9	91.0	89.1
55°	3115.5	1204.8	341.0	145.7	118.4	125.1	102.9	95.0	90.6	88.0	86.4
57.5°	3284.2	1229.2	300.3	133.7	110.0	121.1	102.0	92.5	88.0	85.9	83.8
60°	3250.7	1182.2	265.8	126.2	104.9	109.5	101.1	90.5	85.7	84.0	82.1
62.5°	2983.7	1059.5	243.6	122.8	101.7	99.8	102.0	88.4	83.5	81.9	81.3
65°	2583.2	878.3	234.8	122.0	99.1	94.2	94.7	85.9	81.1	79.8	79.3
67.5°	2130.8	708.8	227.1	124.7	95.5	90.2	87.6	82.7	78.7	77.3	76.4
70°	1680.4	589.5	223.6	123.0	91.3	86.1	83.3	79.3	75.7	74.5	73.7
72.5°	1353.1	497.9	221.7	121.5	85.7	80.8	78.2	74.6	71.0	70.4	69.7
75°	1145.1	391.5	203.0	116.3	79.3	74.5	72.7	69.3	65.7	65.7	65.0
77.5°	883.4	283.1	168.9	102.9	72.7	67.3	65.7	63.2	59.0	59.7	59.5
80°	652.4	184.6	132.1	85.3	64.3	59.3	58.4	56.1	51.6	52.6	52.6
82.5°	446.9	121.1	95.0	69.9	54.9	50.1	50.1	47.8	42.7	43.2	44.8
85°	224.4	83.3	71.0	54.2	42.7	40.3	40.3	38.4	33.3	33.6	35.8
87.5°	68.4	50.1	47.0	38.6	30.7	30.2	28.8	27.5	24.3	24.1	25.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1414.7	1399.4	1381.0	1340.5	1326.7	1326.0	1338.3	1325.4	1350.1	1339.6	1351.1
5°	1140.8	1125.8	1105.4	1053.5	1022.0	1000.7	990.6	960.6	982.2	966.5	979.6
7.5°	838.9	842.5	828.9	798.5	729.9	695.4	675.2	657.0	672.7	671.2	696.2
10°	589.7	599.1	589.5	558.7	503.3	484.4	488.0	495.2	515.8	526.4	565.3
12.5°	424.5	424.0	417.9	390.5	353.8	356.0	371.2	383.8	402.7	413.8	453.4
15°	317.0	312.3	309.6	287.2	266.3	270.8	278.4	279.6	291.7	298.3	330.3
17.5°	239.7	242.1	245.0	229.0	213.2	210.3	204.5	197.2	200.7	201.9	218.0
20°	190.4	199.9	207.1	195.9	179.9	171.3	163.9	159.0	159.0	158.8	163.3
22.5°	166.2	173.3	180.9	173.3	158.8	151.4	147.1	143.3	142.8	142.8	147.1
25°	153.3	158.2	165.6	160.3	149.7	144.1	140.0	135.3	133.4	132.9	135.9
27.5°	146.8	148.8	152.6	147.9	138.8	136.2	135.0	130.8	128.4	127.0	130.0
30°	135.9	135.3	135.6	130.8	123.5	123.2	125.1	125.9	125.1	124.9	129.4
32.5°	125.8	124.7	124.3	120.1	113.5	111.7	113.5	115.1	116.9	119.6	124.9
35°	112.8	115.5	117.1	113.5	105.5	100.6	98.8	95.8	94.2	94.2	100.3
37.5°	102.8	108.9	111.3	107.7	99.1	92.3	89.1	88.7	88.8	89.9	95.8
40°	99.3	103.8	105.9	102.4	93.7	87.6	85.7	85.1	85.7	87.2	93.2
42.5°	97.1	100.3	100.2	95.8	88.7	84.4	83.3	82.7	83.3	84.9	91.3
45°	95.3	97.3	95.3	90.2	83.5	81.3	81.7	81.3	81.9	83.5	89.7
47.5°	93.7	94.4	91.7	86.7	79.8	79.3	80.3	81.1	81.7	83.1	89.4
50°	91.3	91.3	88.8	83.5	76.5	76.8	78.2	80.0	80.3	81.9	87.0
52.5°	88.4	88.0	86.4	81.3	73.9	74.6	74.6	76.8	77.3	79.3	84.6
55°	85.9	85.3	84.6	79.8	71.5	72.9	72.0	72.9	74.2	76.0	81.9
57.5°	83.8	82.7	82.7	78.4	69.7	70.2	68.4	69.3	71.0	72.7	78.7
60°	81.7	80.6	81.1	76.5	66.7	66.1	65.3	67.6	68.0	69.9	76.0
62.5°	79.3	78.4	78.7	74.5	64.6	63.2	63.2	65.0	65.3	68.0	73.9
65°	77.3	76.4	76.0	72.4	62.2	60.5	61.4	62.2	62.7	65.3	71.0
67.5°	75.5	73.4	73.4	70.4	59.5	57.9	59.5	59.3	60.0	62.4	67.0
70°	73.1	70.2	70.4	69.1	56.9	54.9	56.4	56.1	56.6	58.2	62.7
72.5°	69.3	67.0	67.6	67.0	54.2	51.6	52.0	52.0	52.0	53.4	58.2
75°	64.6	62.7	64.3	65.7	50.9	47.3	47.8	47.8	47.0	47.8	53.5
77.5°	58.7	57.6	63.1	61.2	47.3	42.7	42.7	42.2	40.6	41.6	48.0
80°	52.3	51.6	58.2	51.3	42.9	37.1	36.6	35.3	33.6	34.5	40.9
82.5°	45.6	44.8	48.9	39.3	37.1	30.7	29.4	26.9	25.3	26.1	32.0
85°	37.4	37.4	37.5	29.6	28.2	23.4	21.9	18.7	16.8	17.3	22.9
87.5°	26.7	27.5	25.3	20.3	16.8	13.0	11.9	10.2	8.5	9.9	11.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0
2.5°	1409.8	1439.2	1472.5	1515.3	1551.7	1611.7	1669.4	1704.2
5°	1054.2	1102.8	1163.8	1241.9	1314.8	1424.3	1532.8	1602.4
7.5°	754.3	806.7	872.3	970.0	1073.0	1212.6	1356.1	1439.4
10°	624.1	677.9	733.0	799.0	883.4	1035.1	1204.8	1298.8
12.5°	516.3	573.7	633.2	702.7	780.7	916.5	1112.0	1220.1
15°	395.3	459.3	529.5	617.2	715.2	871.9	1089.0	1206.5
17.5°	270.8	342.3	428.6	536.8	656.8	857.4	1130.1	1265.4
20°	186.5	238.6	330.7	457.6	601.8	855.5	1209.1	1378.5
22.5°	156.1	179.3	246.6	384.8	560.5	878.5	1331.6	1537.3
25°	144.4	158.2	197.0	321.6	530.2	931.4	1500.3	1742.8
27.5°	137.4	149.9	178.9	280.2	506.5	992.6	1664.4	1941.9
30°	140.0	152.9	173.7	259.2	474.1	1043.9	1810.1	2097.3
32.5°	126.2	131.8	148.8	240.4	450.9	1086.9	1937.6	2225.8
35°	107.5	117.4	132.9	231.7	451.5	1115.8	2076.6	2390.2
37.5°	102.4	112.4	123.5	228.3	457.6	1146.3	2236.2	2582.8
40°	99.3	108.3	117.9	226.6	463.5	1174.4	2392.6	2773.3
42.5°	97.1	105.5	117.4	220.2	466.5	1199.4	2521.3	2935.4
45°	96.8	105.5	119.6	213.7	471.0	1226.5	2629.0	3055.1
47.5°	97.1	108.9	115.5	206.0	471.0	1271.6	2755.6	3162.3
50°	96.1	114.8	111.3	195.1	460.0	1357.0	2929.0	3305.6
52.5°	95.5	113.9	102.9	178.3	441.1	1492.5	3151.3	3503.0
55°	94.2	110.0	97.1	153.3	419.0	1640.3	3389.3	3736.5
57.5°	92.9	97.3	94.0	131.3	384.8	1744.4	3553.2	3918.8
60°	104.1	85.1	91.3	120.6	339.2	1773.0	3546.8	3991.3
62.5°	96.4	79.8	87.9	118.1	307.1	1692.9	3382.8	3952.2
65°	75.5	76.4	84.4	125.1	298.5	1480.8	3092.5	3770.9
67.5°	69.1	72.9	80.8	133.9	299.4	1185.7	2658.7	3376.2
70°	65.0	69.1	76.8	138.5	301.6	883.8	2102.0	2749.9
72.5°	60.5	64.0	72.4	139.2	287.6	642.1	1620.1	2021.9
75°	55.2	58.4	65.9	121.5	238.3	445.4	1239.2	1383.4
77.5°	49.0	51.6	57.9	93.7	177.0	285.0	930.3	1010.6
80°	42.0	43.2	48.6	68.6	121.1	178.3	736.0	811.0
82.5°	33.6	34.1	37.5	51.6	78.7	114.4	492.9	562.5
85°	23.7	23.7	26.0	37.4	53.5	72.7	267.6	296.7
87.5°	11.1	11.5	11.5	20.5	27.9	36.8	61.7	37.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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