

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: P270167

Luminaire Tested: **GWC-AF-01-LED-E1-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270167
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-7027-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3923 lumens
Efficiency: N/A
Efficacy: 89.2 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): 44
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

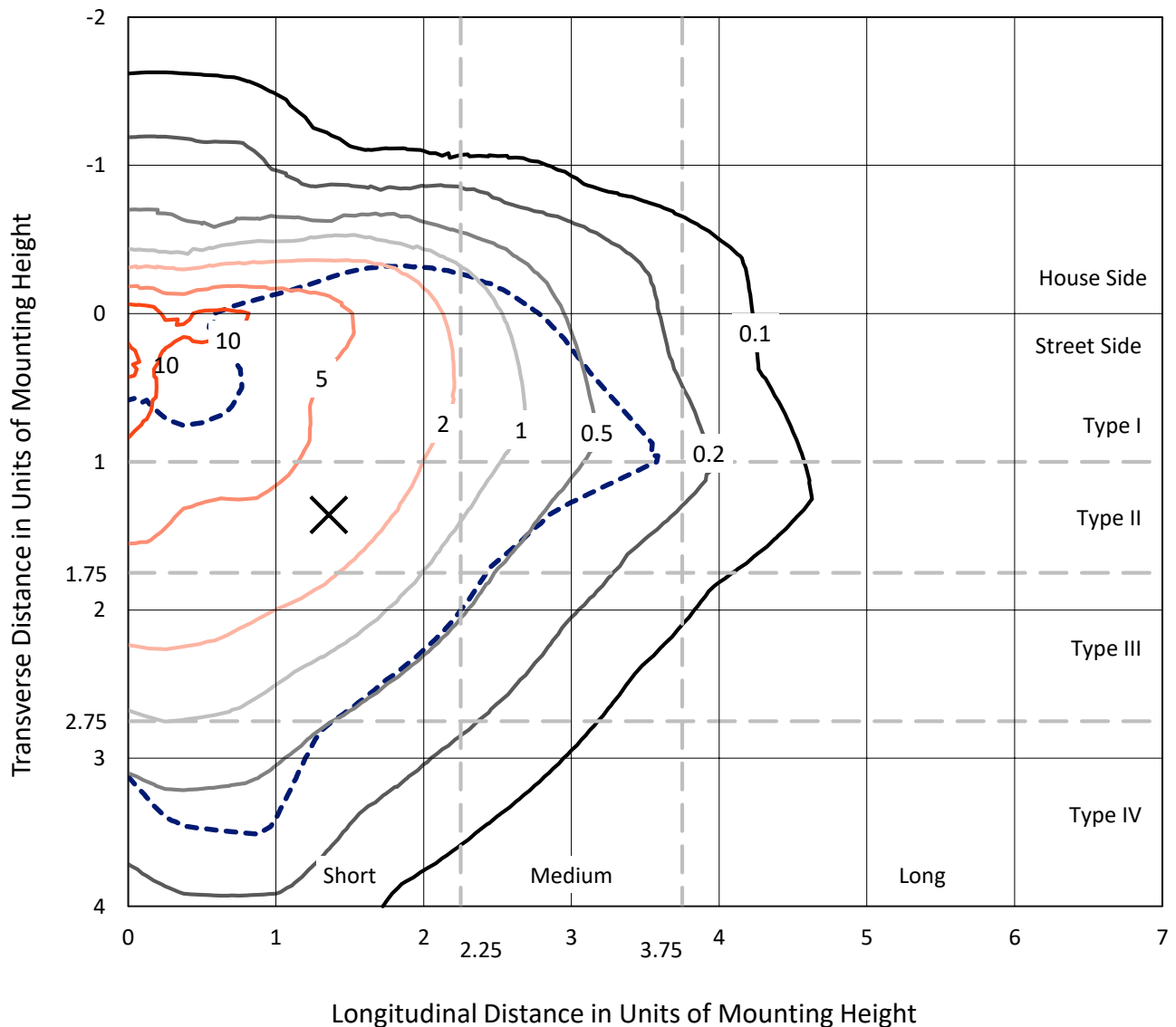


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

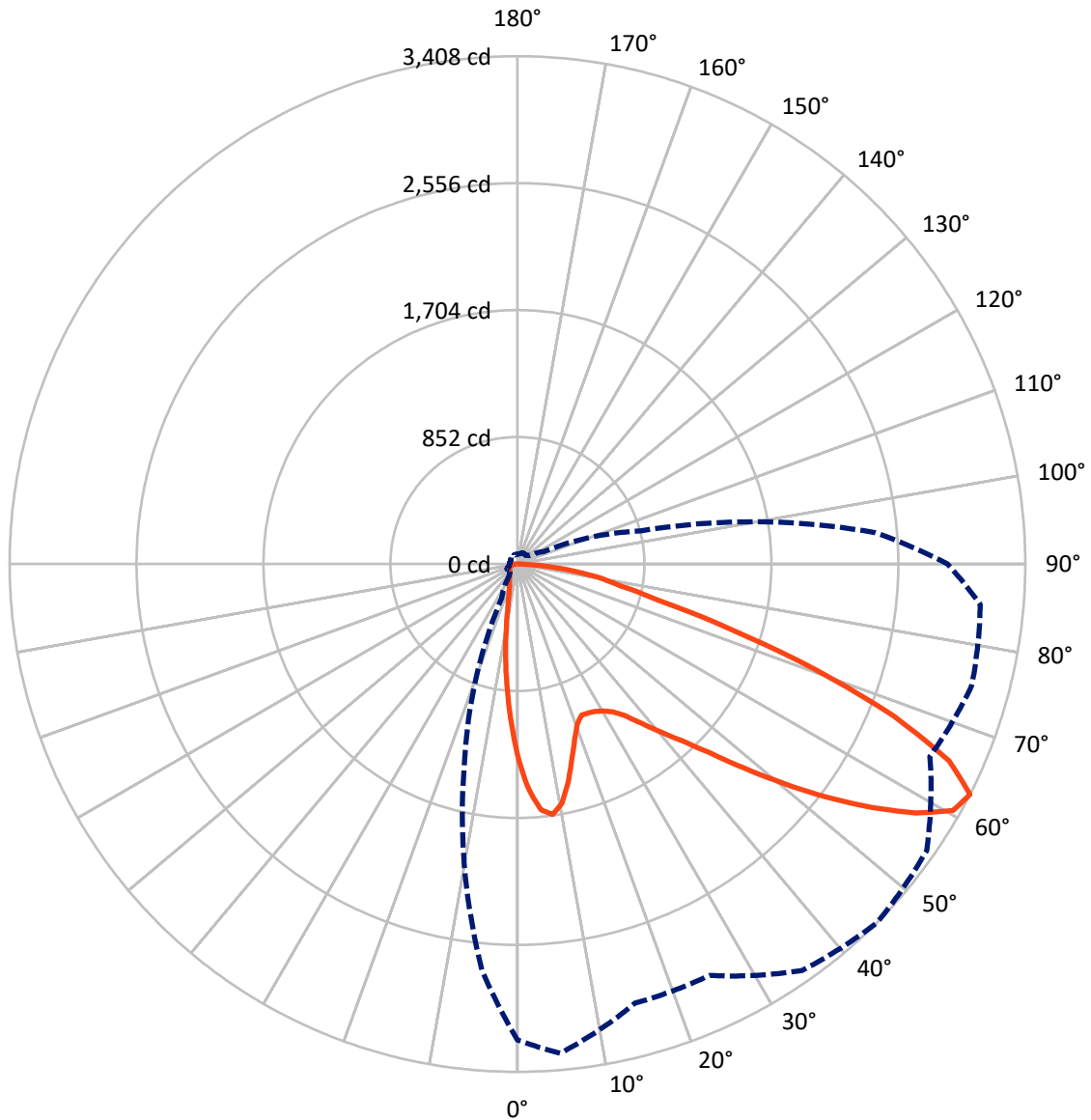


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - Non-Cutoff

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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	649.2	0.0	649.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3273.8	0.0	3273.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	3923.0	0.0	3923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	2.5
10°-20°	176.9	4.5
20°-30°	258.0	6.6
30°-40°	397.3	10.1
40°-50°	584.7	14.9
50°-60°	857.6	21.9
60°-70°	958.7	24.4
70°-80°	469.4	12.0
80°-90°	123.9	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°	3923.0	100.0
0°-180°	3923.0	100.0

Coefficient of Utilization



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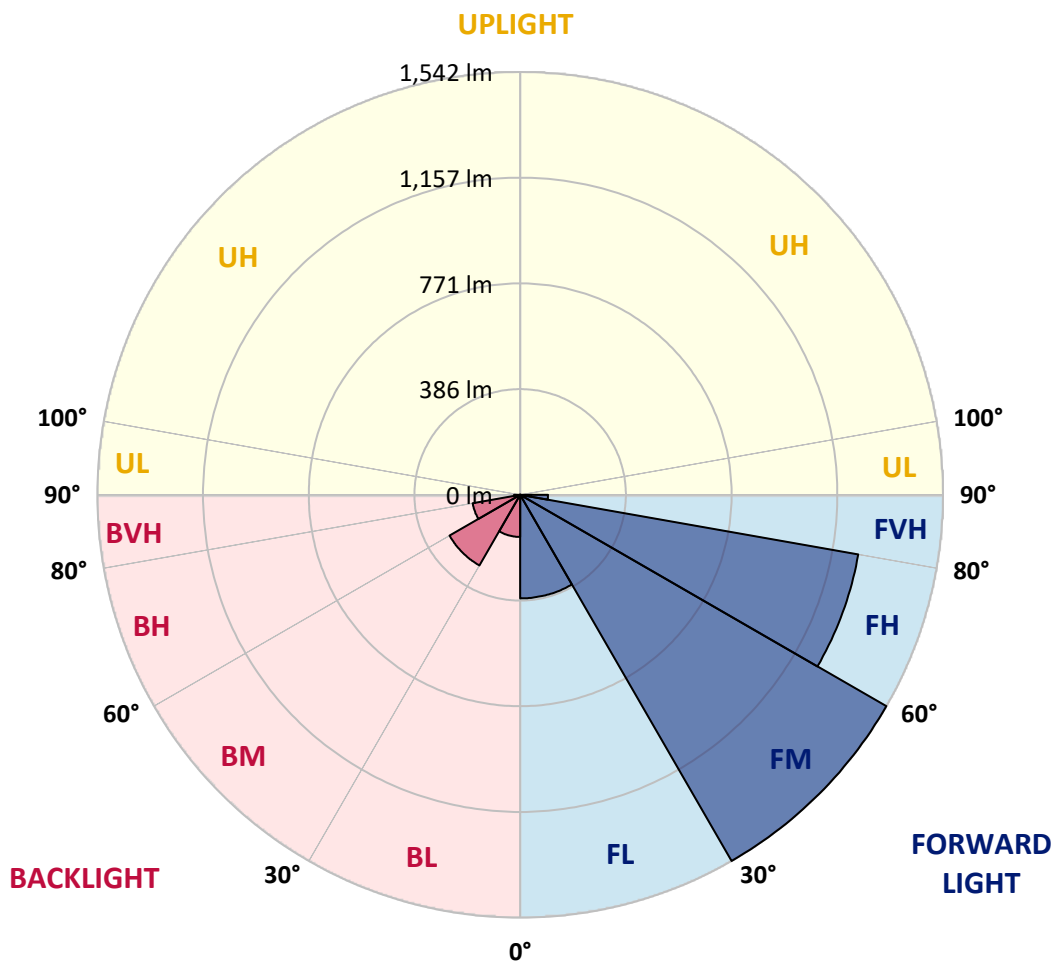
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.8	9.6			
FM	(30°-60°)	1542.2	39.3			
FH	(60°-80°)	1252.1	31.9			G1/1800
FVH	(80°-90°)	101.8	2.6			G2/225
BL	(0°-30°)	153.6	3.9	B1/500		
BM	(30°-60°)	297.5	7.6	B1/1000		
BH	(60°-80°)	176.0	4.5	B1/500		G1/500
BVH	(80°-90°)	22.2	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°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1377.1	1399.1	1442.0	1474.2	1513.3	1522.3	1534.8	1522.4	1500.7	1471.9	1462.4
5°	1294.9	1342.0	1446.1	1537.8	1619.4	1657.4	1667.9	1636.6	1573.4	1490.4	1439.8
7.5°	1163.2	1230.0	1371.2	1506.1	1626.2	1697.2	1695.5	1622.8	1506.5	1371.4	1290.1
10°	1049.6	1125.9	1287.7	1438.6	1566.0	1634.8	1608.3	1515.4	1376.7	1221.1	1132.9
12.5°	986.0	1060.8	1224.8	1376.6	1483.0	1506.7	1486.4	1395.4	1264.9	1107.4	1030.1
15°	975.0	1057.1	1199.9	1323.3	1383.0	1362.3	1338.1	1297.3	1205.0	1070.7	990.3
17.5°	1022.6	1113.2	1228.5	1286.2	1276.0	1240.0	1233.2	1237.7	1215.3	1111.5	1018.8
20°	1114.1	1222.8	1297.0	1268.6	1194.7	1145.1	1146.9	1216.0	1281.8	1214.8	1108.9
22.5°	1242.4	1366.3	1395.4	1278.0	1160.4	1101.5	1115.8	1228.0	1387.7	1365.8	1230.5
25°	1408.5	1521.4	1500.4	1311.5	1163.8	1106.9	1118.4	1268.9	1512.7	1516.7	1381.1
27.5°	1569.2	1674.1	1588.7	1356.3	1178.0	1119.6	1134.7	1333.4	1632.3	1680.5	1553.1
30°	1694.8	1767.7	1623.6	1397.0	1206.2	1144.5	1163.2	1394.6	1686.6	1791.2	1685.5
32.5°	1798.8	1851.1	1679.3	1447.4	1257.6	1183.4	1216.5	1469.0	1764.9	1896.4	1815.1
35°	1931.5	1946.4	1748.6	1503.8	1337.2	1251.3	1292.4	1541.9	1839.5	2002.7	1942.9
37.5°	2087.3	2068.1	1813.9	1580.7	1440.2	1357.8	1391.7	1621.9	1901.0	2123.4	2073.3
40°	2241.4	2195.1	1895.9	1700.2	1590.2	1483.0	1523.2	1707.3	1958.3	2244.1	2200.7
42.5°	2372.2	2303.9	1976.7	1831.6	1730.0	1621.4	1669.1	1793.3	2013.1	2347.1	2311.3
45°	2469.0	2384.0	2053.6	1957.6	1922.6	1805.1	1827.6	1891.9	2072.4	2433.1	2402.3
47.5°	2555.5	2464.7	2140.8	2085.0	2091.0	2044.0	2007.5	2006.6	2142.3	2503.4	2488.5
50°	2671.3	2576.6	2234.4	2215.9	2343.7	2312.4	2232.0	2140.5	2230.8	2583.3	2581.5
52.5°	2830.9	2753.8	2348.7	2357.3	2579.7	2600.1	2500.5	2301.5	2369.1	2729.7	2719.3
55°	3019.6	2974.6	2504.4	2519.7	2869.0	2883.6	2784.7	2502.7	2572.7	2941.7	2913.1
57.5°	3166.9	3157.4	2675.2	2714.6	3085.0	3151.2	3060.0	2735.6	2802.2	3120.3	3048.2
60°	3225.5	3271.4	2857.0	2911.2	3285.0	3358.1	3278.4	2940.2	3005.5	3194.3	3039.0
62.5°	3193.8	3296.4	3050.6	3046.2	3329.7	3408.3	3352.4	3054.1	3156.3	3117.8	2885.1
65°	3047.4	3206.5	3162.9	3011.4	3176.9	3183.5	3165.4	3003.2	3191.9	2876.6	2588.0
67.5°	2728.4	2957.4	3015.0	2713.8	2765.2	2723.0	2692.6	2724.5	3006.4	2515.0	2175.1
70°	2222.2	2566.8	2594.6	2170.6	2147.3	2119.0	2058.3	2233.7	2640.5	2061.3	1725.9
72.5°	1633.9	1996.4	2081.1	1591.9	1484.1	1489.8	1442.0	1683.3	2146.8	1531.2	1288.4
75°	1117.9	1445.6	1628.2	1110.8	981.4	983.9	977.7	1192.8	1710.0	1065.1	964.2
77.5°	816.6	1032.7	1228.0	746.9	725.0	711.6	708.5	834.5	1310.9	773.4	748.7
80°	655.4	763.0	824.9	517.6	556.6	555.5	537.6	573.8	856.2	565.7	560.1
82.5°	454.6	586.4	668.2	405.7	375.8	369.5	373.8	427.5	605.1	386.7	367.6
85°	239.8	389.4	661.8	359.5	223.0	178.0	221.3	350.0	524.3	204.9	179.4
87.5°	30.6	112.6	438.3	143.4	87.9	47.4	105.0	197.1	336.7	41.9	36.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1437.9	1409.4	1371.7	1337.0	1301.0	1265.3	1218.5	1189.0	1168.9	1164.9	1156.3
5°	1403.1	1307.8	1235.7	1173.4	1116.9	1037.1	992.8	956.2	936.6	934.6	929.8
7.5°	1241.9	1110.3	1013.1	925.0	844.9	780.4	709.3	676.1	662.5	665.7	669.0
10°	1074.4	927.3	815.7	725.4	655.0	600.5	543.5	504.8	478.1	472.7	471.6
12.5°	951.8	790.6	682.2	618.6	564.0	512.8	452.2	406.8	372.0	360.1	352.1
15°	900.1	723.8	610.0	541.5	481.3	416.5	360.1	312.5	280.6	270.2	264.5
17.5°	911.2	705.2	560.5	472.7	395.8	328.1	257.1	216.3	197.1	192.1	192.1
20°	968.9	701.8	519.5	409.3	313.4	234.8	176.6	153.3	147.1	146.5	148.1
22.5°	1049.9	713.9	488.9	354.3	243.5	171.4	137.6	128.9	126.1	126.8	128.7
25°	1170.9	754.5	466.7	305.3	191.1	140.3	122.7	117.5	116.2	117.9	120.4
27.5°	1314.0	795.3	452.8	268.6	161.3	128.3	116.7	111.3	112.2	114.4	116.4
30°	1439.8	828.7	431.0	242.2	152.1	128.9	116.7	109.4	108.4	109.0	109.6
32.5°	1552.5	851.5	405.7	217.2	131.2	114.5	109.0	107.8	103.0	101.4	101.6
35°	1649.7	851.5	390.4	202.5	117.5	101.6	92.5	87.1	84.8	85.0	87.3
37.5°	1743.5	834.3	382.8	194.4	110.2	96.6	88.7	83.9	80.7	79.9	80.5
40°	1826.3	809.6	374.1	190.9	104.7	93.7	86.1	82.1	78.7	77.7	77.9
42.5°	1892.8	789.5	364.6	186.3	101.1	91.4	84.4	80.8	77.0	75.8	75.6
45°	1964.7	782.9	352.1	177.2	102.9	91.6	83.9	80.2	76.4	75.1	74.6
47.5°	2059.3	803.8	339.2	166.5	106.4	92.7	84.5	80.2	76.1	75.1	74.6
50°	2178.5	852.9	322.9	150.7	102.9	95.8	84.4	79.6	76.1	75.1	74.2
52.5°	2331.6	919.3	301.2	132.6	100.7	103.0	83.9	78.3	75.1	73.5	72.0
55°	2517.7	973.7	275.6	117.8	95.8	101.1	83.3	76.7	73.3	71.1	69.9
57.5°	2654.0	993.3	242.6	108.1	88.8	97.9	82.4	74.7	71.1	69.3	67.7
60°	2627.1	955.3	214.8	102.0	84.8	88.5	81.7	73.1	69.2	67.9	66.5
62.5°	2411.2	856.2	196.9	99.3	82.1	80.7	82.4	71.3	67.6	66.3	65.8
65°	2087.5	709.8	189.8	98.5	79.9	76.1	76.5	69.3	65.5	64.5	64.0
67.5°	1722.1	572.8	183.6	100.7	77.3	72.9	70.7	66.8	63.6	62.5	61.7
70°	1358.0	476.5	180.6	99.4	73.8	69.7	67.4	64.0	61.3	60.1	59.5
72.5°	1093.5	402.4	179.2	98.2	69.2	65.3	63.2	60.4	57.3	57.0	56.2
75°	925.3	316.4	164.1	94.1	64.0	60.1	58.7	56.1	53.1	53.1	52.6
77.5°	713.9	228.8	136.5	83.3	58.7	54.3	53.1	51.2	47.7	48.2	48.1
80°	527.2	149.2	106.8	69.0	52.0	47.9	47.3	45.3	41.6	42.5	42.5
82.5°	361.2	97.9	76.7	56.6	44.5	40.6	40.6	38.5	34.6	34.9	36.2
85°	181.4	67.4	57.3	43.7	34.6	32.6	32.6	31.0	26.9	27.2	28.8
87.5°	55.2	40.6	38.0	31.4	24.9	24.3	23.3	22.2	19.7	19.5	20.5
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°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1143.2	1130.8	1116.1	1083.3	1072.2	1071.6	1081.5	1071.1	1091.0	1082.5	1091.8
5°	921.9	909.9	893.3	851.5	825.9	808.7	800.5	776.3	793.8	781.0	791.6
7.5°	678.0	680.8	669.9	645.3	589.7	562.0	545.6	531.0	543.7	542.3	562.7
10°	476.6	484.1	476.5	451.6	406.8	391.4	394.4	400.3	416.9	425.4	456.8
12.5°	343.2	342.7	337.8	315.6	285.9	287.6	299.9	310.2	325.5	334.4	366.4
15°	256.1	252.3	250.2	232.0	215.2	218.8	224.9	226.1	235.7	241.0	266.9
17.5°	193.7	195.7	197.9	185.1	172.4	169.9	165.2	159.4	162.1	163.2	176.2
20°	153.8	161.5	167.4	158.3	145.3	138.5	132.4	128.5	128.5	128.3	132.1
22.5°	134.3	140.0	146.2	140.0	128.3	122.3	118.8	115.8	115.4	115.4	118.8
25°	123.7	127.9	133.8	129.6	121.0	116.4	113.2	109.4	107.8	107.3	109.8
27.5°	118.5	120.4	123.3	119.5	112.2	110.0	109.1	105.7	103.8	102.6	105.0
30°	109.8	109.4	109.6	105.7	99.8	99.6	101.1	101.8	101.1	100.9	104.7
32.5°	101.6	100.7	100.5	97.0	91.6	90.4	91.6	93.0	94.4	96.6	100.9
35°	91.2	93.3	94.7	91.6	85.2	81.2	79.8	77.4	76.1	76.1	81.0
37.5°	83.1	87.9	89.9	87.1	79.9	74.6	72.0	71.5	71.9	72.7	77.4
40°	80.2	83.9	85.6	82.9	75.6	70.7	69.2	68.8	69.2	70.4	75.3
42.5°	78.5	81.0	80.8	77.4	71.5	68.1	67.4	66.8	67.4	68.6	73.8
45°	77.0	78.7	77.0	72.9	67.6	65.8	65.9	65.8	66.3	67.6	72.5
47.5°	75.6	76.4	74.2	70.1	64.5	64.0	64.9	65.5	65.9	67.1	72.3
50°	73.8	73.8	71.9	67.6	62.0	62.2	63.2	64.7	64.9	66.3	70.2
52.5°	71.3	71.1	69.9	65.8	59.7	60.4	60.4	62.2	62.5	64.0	68.5
55°	69.3	69.0	68.5	64.5	57.9	58.8	58.2	58.8	59.9	61.4	66.3
57.5°	67.7	66.8	66.8	63.4	56.2	56.8	55.2	56.1	57.3	58.7	63.6
60°	65.9	65.1	65.5	62.0	53.9	53.4	52.8	54.5	54.9	56.6	61.4
62.5°	64.0	63.4	63.6	60.1	52.2	51.2	51.2	52.6	52.8	54.9	59.7
65°	62.5	61.7	61.4	58.4	50.2	49.0	49.5	50.2	50.7	52.8	57.3
67.5°	61.1	59.3	59.3	57.0	48.1	46.8	48.1	47.9	48.5	50.5	54.1
70°	59.1	56.8	57.0	55.9	46.0	44.5	45.5	45.3	45.8	47.0	50.7
72.5°	56.1	54.1	54.5	54.1	43.7	41.6	42.0	42.0	42.0	43.1	47.0
75°	52.2	50.7	52.0	53.1	41.2	38.2	38.5	38.5	38.0	38.5	43.4
77.5°	47.4	46.6	50.9	49.3	38.2	34.6	34.6	34.0	32.8	33.6	38.7
80°	42.3	41.6	47.0	41.4	34.8	30.0	29.6	28.4	27.2	27.8	33.0
82.5°	36.9	36.2	39.4	31.7	30.0	24.9	23.7	21.7	20.5	21.1	26.0
85°	30.3	30.3	30.5	24.0	22.8	19.0	17.6	15.1	13.6	14.1	18.5
87.5°	21.6	22.2	20.5	16.3	13.6	10.6	9.7	8.2	6.8	7.9	9.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1139.3	1163.0	1190.0	1224.5	1254.0	1302.5	1349.2	1377.1
5°	851.9	891.3	940.4	1003.6	1062.5	1150.9	1238.8	1294.9
7.5°	609.6	651.9	705.0	784.0	867.1	980.0	1095.9	1163.2
10°	504.4	547.7	592.4	645.6	713.9	836.5	973.7	1049.6
12.5°	417.4	463.6	511.8	567.8	631.0	740.6	898.7	986.0
15°	319.3	371.1	427.9	498.7	578.0	704.5	880.1	975.0
17.5°	218.8	276.7	346.3	433.9	530.7	693.0	913.2	1022.6
20°	150.7	192.7	267.2	369.8	486.3	691.3	977.1	1114.1
22.5°	126.1	144.9	199.2	311.0	452.8	709.9	1076.1	1242.4
25°	116.7	127.9	159.2	259.9	428.5	752.6	1212.4	1408.5
27.5°	111.1	121.2	144.4	226.5	409.3	802.2	1345.0	1569.2
30°	113.2	123.5	140.3	209.3	383.1	843.6	1462.8	1694.8
32.5°	102.0	106.4	120.4	194.4	364.4	878.4	1565.8	1798.8
35°	86.9	95.0	107.3	187.1	364.9	901.7	1678.3	1931.5
37.5°	82.9	90.8	99.8	184.6	369.8	926.4	1807.2	2087.3
40°	80.2	87.6	95.3	183.1	374.7	949.1	1933.5	2241.4
42.5°	78.5	85.2	95.0	178.0	377.0	969.4	2037.4	2372.2
45°	78.3	85.2	96.6	172.7	380.6	991.1	2124.6	2469.0
47.5°	78.5	87.9	93.3	166.5	380.6	1027.7	2226.8	2555.5
50°	77.7	92.7	89.9	157.7	371.8	1096.7	2367.0	2671.3
52.5°	77.3	92.0	83.3	144.1	356.4	1206.2	2546.7	2830.9
55°	76.1	88.8	78.5	123.7	338.7	1325.5	2739.0	3019.6
57.5°	75.1	78.7	75.8	106.1	311.0	1409.7	2871.4	3166.9
60°	84.1	68.8	73.8	97.5	274.2	1432.7	2866.2	3225.5
62.5°	77.9	64.5	71.0	95.5	248.2	1368.1	2733.8	3193.8
65°	61.1	61.7	68.1	101.1	241.4	1196.6	2499.2	3047.4
67.5°	55.9	58.8	65.3	108.2	242.0	958.1	2148.6	2728.4
70°	52.6	55.9	62.2	111.8	243.7	714.2	1698.7	2222.2
72.5°	49.0	51.7	58.4	112.6	232.5	518.9	1309.2	1633.9
75°	44.6	47.3	53.3	98.2	192.5	360.0	1001.5	1117.9
77.5°	39.6	41.6	46.8	75.6	143.0	230.3	751.7	816.6
80°	33.9	34.9	39.3	55.4	97.9	144.1	594.8	655.4
82.5°	27.2	27.6	30.5	41.6	63.6	92.5	398.3	454.6
85°	19.3	19.3	20.9	30.3	43.4	58.7	216.3	239.8
87.5°	9.1	9.3	9.3	16.6	22.6	29.7	49.9	30.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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