

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: P200325

Luminaire Tested: **GWC-AF-01-LED-E1-SLR-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200325  
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-7050-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 800mA 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: 4515 lumens  
Efficiency: N/A  
Efficacy: 102.6 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): 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

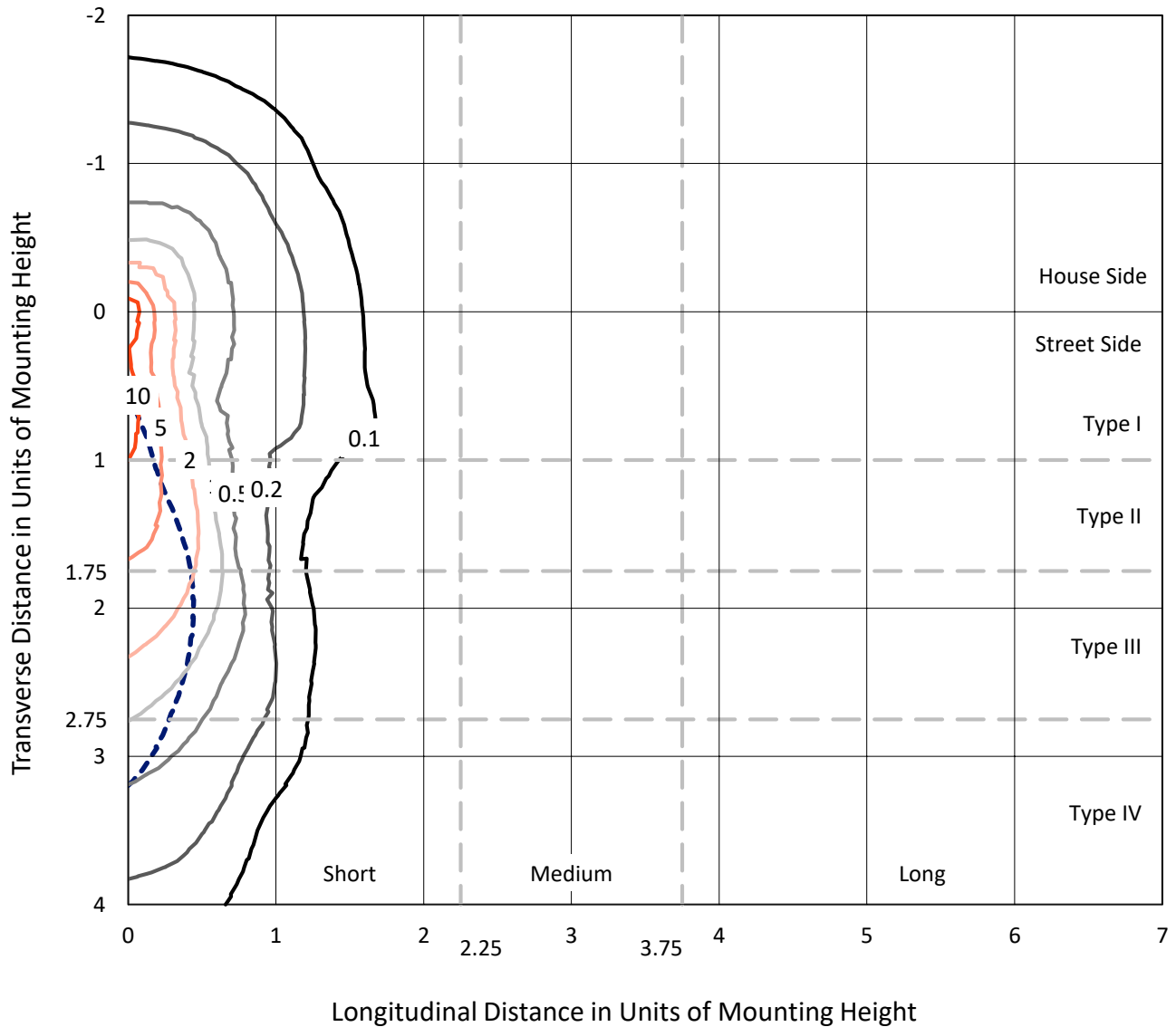


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### Iso-Footcandle Lines of Horizontal Illumination

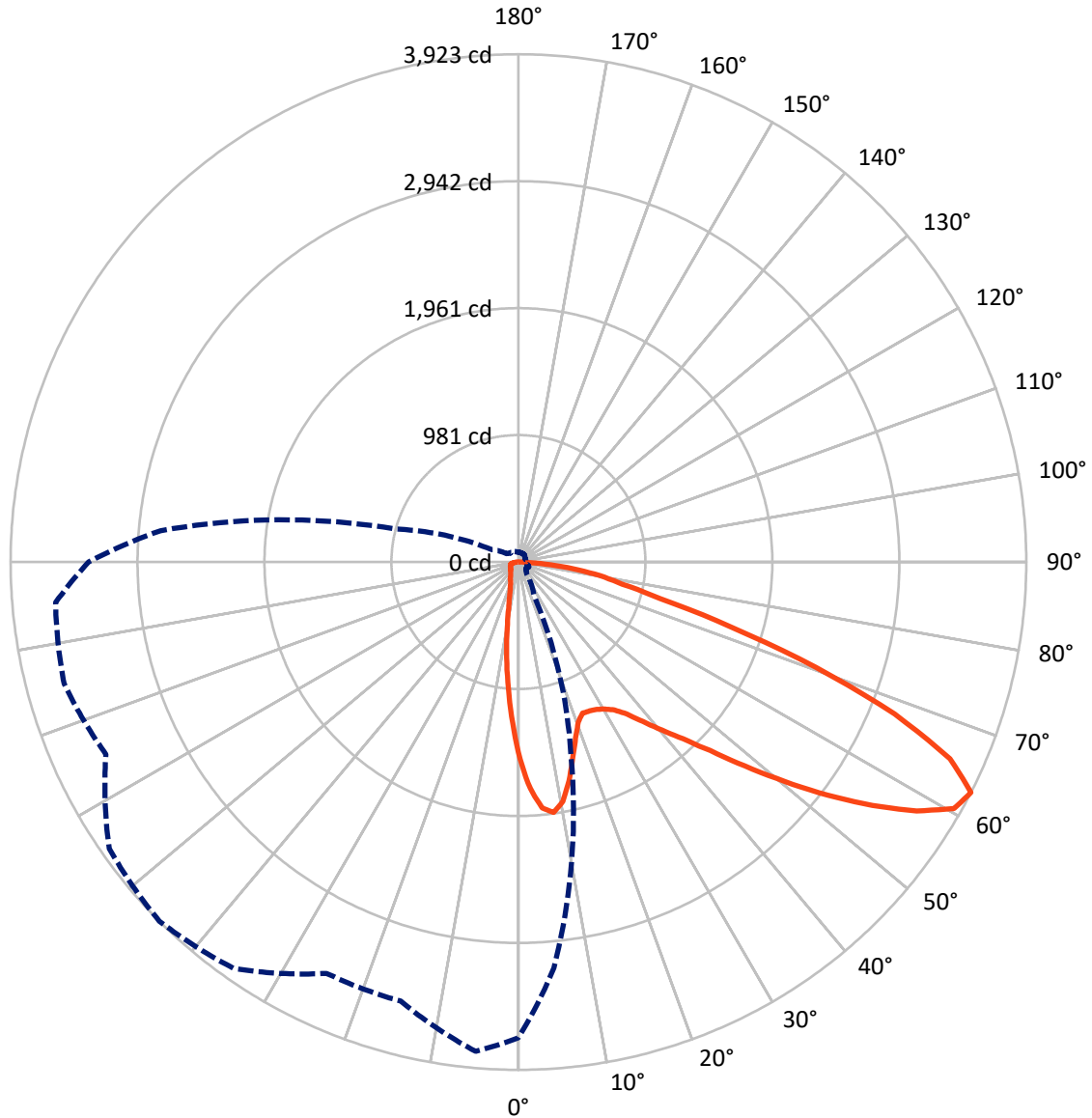
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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
<b>House Side</b>	Lumens	747.2	0.0	747.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3767.8	0.0	3767.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	4515.0	0.0	4515.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	2.5
10°-20°	203.6	4.5
20°-30°	296.9	6.6
30°-40°	457.2	10.1
40°-50°	672.9	14.9
50°-60°	987.1	21.9
60°-70°	1103.4	24.4
70°-80°	540.2	12.0
80°-90°	142.6	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°	4515.0	100.0
0°-180°	4515.0	100.0



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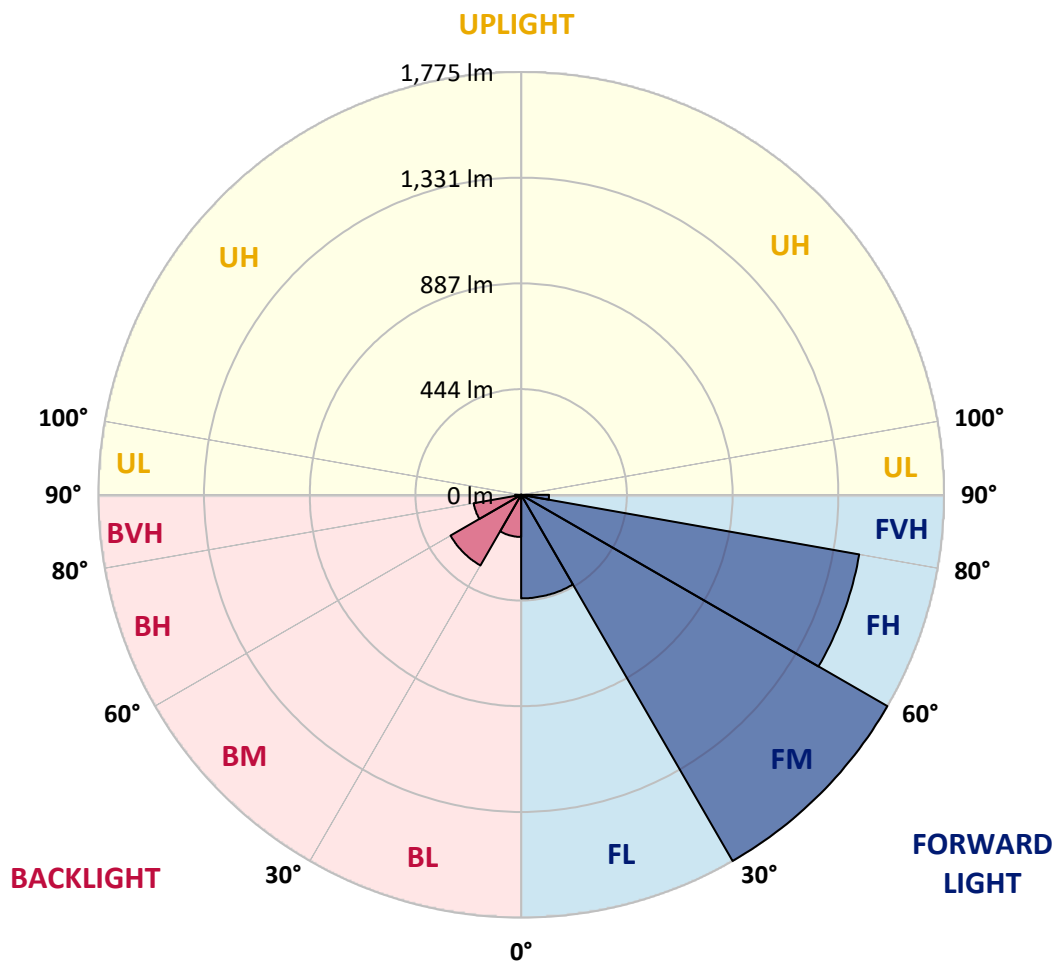
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.8	9.6			
FM	(30°-60°)	1774.9	39.3			
FH	(60°-80°)	1441.0	31.9			G1/1800
FVH	(80°-90°)	117.1	2.6			G2/225
BL	(0°-30°)	176.8	3.9	B1/500		
BM	(30°-60°)	342.3	7.6	B1/1000		
BH	(60°-80°)	202.6	4.5	B1/500		G1/500
BVH	(80°-90°)	25.5	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°	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1585.0	1552.7	1499.1	1443.3	1409.3	1369.5	1338.5	1311.2	1256.6	1245.9	1255.6
5°	1490.4	1425.6	1324.6	1222.9	1155.1	1082.4	1025.8	980.4	911.1	899.0	913.6
7.5°	1338.8	1261.3	1127.8	998.0	902.2	811.4	750.3	701.6	647.5	624.2	625.7
10°	1208.0	1120.6	962.8	821.5	743.1	681.8	630.4	580.5	525.7	489.7	479.8
12.5°	1134.8	1034.2	852.3	726.2	653.5	589.0	533.6	480.3	421.7	385.0	374.5
15°	1122.1	1012.9	810.9	665.2	574.1	492.4	427.1	367.6	307.3	277.5	271.3
17.5°	1176.9	1051.1	797.5	610.8	499.4	398.6	318.4	251.9	202.8	187.9	186.6
20°	1282.2	1124.6	795.7	559.7	425.7	307.5	221.9	173.5	151.9	147.7	147.9
22.5°	1429.9	1238.5	817.1	521.2	357.9	229.3	166.8	145.2	136.8	132.8	132.8
25°	1621.0	1395.4	866.2	493.2	299.1	183.2	147.2	134.3	126.3	123.6	124.1
27.5°	1806.1	1548.0	923.3	471.1	260.6	166.3	139.5	127.8	120.9	118.1	119.4
30°	1950.6	1683.5	970.9	441.0	241.0	161.6	142.2	130.3	120.4	116.2	116.4
32.5°	2070.2	1802.1	1010.9	419.5	223.6	138.5	122.6	117.4	116.2	111.2	108.7
35°	2223.1	1931.5	1037.7	419.9	215.4	123.6	109.2	100.0	93.3	87.6	87.6
37.5°	2402.3	2079.9	1066.2	425.7	212.5	114.9	104.5	95.3	89.1	83.6	82.6
40°	2579.5	2225.3	1092.3	431.1	210.7	109.7	100.8	92.3	86.6	81.2	79.7
42.5°	2730.2	2345.0	1115.6	433.8	204.8	109.2	98.0	90.3	84.9	78.9	77.4
45°	2841.6	2445.2	1140.7	438.1	198.8	111.2	98.0	90.1	83.4	77.7	76.2
47.5°	2941.1	2562.9	1182.7	438.1	191.6	107.5	101.3	90.3	83.1	77.2	75.9
50°	3074.4	2724.2	1262.1	427.9	181.4	103.5	106.7	89.4	80.9	76.2	74.7
52.5°	3258.1	2930.9	1388.2	410.3	165.8	95.8	106.0	88.9	78.7	73.7	72.0
55°	3475.2	3152.3	1525.7	389.7	142.5	90.3	102.3	87.6	76.2	70.7	69.0
57.5°	3644.8	3304.7	1622.5	357.9	122.1	87.4	90.6	86.4	73.2	67.5	66.0
60°	3712.3	3298.8	1649.0	315.5	112.2	84.9	79.2	96.8	70.7	65.0	63.3
62.5°	3675.8	3146.4	1574.6	285.7	110.0	81.7	74.2	89.6	68.8	63.3	60.8
65°	3507.3	2876.3	1377.2	277.7	116.4	78.4	71.0	70.2	66.0	60.8	58.3
67.5°	3140.2	2472.8	1102.7	278.5	124.6	75.2	67.8	64.3	62.3	58.1	55.8
70°	2557.7	1955.0	822.0	280.5	128.8	71.5	64.3	60.6	58.3	54.1	52.6
72.5°	1880.6	1506.8	597.2	267.6	129.6	67.3	59.6	56.3	54.1	49.6	48.4
75°	1286.6	1152.6	414.2	221.6	112.9	61.3	54.4	51.4	49.9	44.4	43.7
77.5°	939.9	865.2	265.1	164.6	87.1	53.9	47.9	45.7	44.7	38.7	37.7
80°	754.3	684.5	165.8	112.7	63.8	45.2	40.2	39.0	38.0	32.0	31.3
82.5°	523.2	458.4	106.5	73.2	47.9	35.0	31.8	31.3	29.8	24.3	23.6
85°	276.0	248.9	67.5	49.9	34.7	24.1	22.1	22.1	21.3	16.1	15.6
87.5°	35.2	57.3	34.3	26.1	19.1	10.7	10.7	10.4	11.2	9.2	7.9
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°	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1232.8	1244.7	1233.3	1234.0	1246.7	1284.4	1301.5	1315.7	1330.8	1340.8	1345.2
5°	893.5	921.3	930.7	950.6	979.9	1028.0	1047.1	1061.0	1070.2	1075.7	1077.9
7.5°	611.1	627.9	646.8	678.8	742.6	770.9	783.6	780.3	769.9	766.2	762.5
10°	460.7	453.9	450.5	468.1	519.7	548.3	557.2	548.5	542.8	544.0	550.2
12.5°	356.9	345.2	331.1	329.1	363.1	388.7	394.4	394.9	405.3	414.5	428.1
15°	260.1	258.9	251.9	247.7	267.1	287.9	290.4	294.9	304.3	311.0	322.9
17.5°	183.4	190.1	195.6	198.3	213.0	227.8	225.1	222.9	221.1	221.1	226.9
20°	147.9	152.4	159.3	167.3	182.2	192.6	185.9	177.0	170.5	168.5	169.3
22.5°	133.3	136.8	140.7	147.7	161.1	168.3	161.1	154.6	148.2	145.9	145.2
25°	125.8	130.3	134.0	139.2	149.2	154.1	147.2	142.5	138.5	135.8	133.8
27.5°	121.6	125.6	126.6	129.1	137.5	142.0	138.5	136.5	134.0	131.5	129.1
30°	117.1	116.4	114.7	114.9	121.6	126.1	125.8	126.3	126.1	125.3	124.8
32.5°	107.0	105.5	104.0	105.5	111.7	115.7	115.9	116.9	116.9	116.7	118.6
35°	89.1	91.8	93.6	98.0	105.5	109.0	107.5	105.0	100.5	97.8	97.5
37.5°	82.4	82.9	85.9	92.1	100.3	103.5	101.3	95.6	92.6	92.1	92.8
40°	79.2	79.7	81.4	87.1	95.3	98.5	96.5	92.3	89.6	89.4	90.6
42.5°	76.9	77.4	78.4	82.4	89.1	93.1	93.3	90.3	87.1	87.4	88.6
45°	75.7	75.9	75.7	77.7	83.9	88.6	90.6	88.6	85.9	86.4	87.9
47.5°	75.5	74.7	73.7	74.2	80.7	85.4	87.9	87.1	85.9	86.4	87.6
50°	74.5	72.7	71.5	71.2	77.7	82.6	84.9	84.9	85.4	86.4	87.6
52.5°	71.5	69.5	69.5	68.8	75.7	80.4	81.9	82.2	82.9	84.6	86.4
55°	67.8	67.0	67.8	66.5	74.2	78.7	79.4	79.9	80.4	81.9	84.4
57.5°	64.5	63.5	65.3	64.8	73.0	76.9	76.9	77.9	77.9	79.9	81.9
60°	62.8	60.8	61.6	62.0	71.2	75.5	75.0	75.9	76.4	78.2	79.7
62.5°	60.6	58.8	58.8	60.1	69.2	73.2	73.0	73.7	75.7	76.2	77.7
65°	57.8	57.1	56.3	57.8	67.3	70.7	71.0	72.0	73.7	74.2	75.5
67.5°	55.1	55.3	53.9	55.3	65.5	68.3	68.3	70.2	71.0	72.0	73.2
70°	52.1	52.4	51.1	52.9	64.3	65.5	65.3	68.0	68.5	69.2	70.5
72.5°	48.4	48.4	47.9	50.4	62.3	62.8	62.3	64.5	64.8	65.5	66.0
75°	44.4	44.4	43.9	47.4	61.1	59.8	58.3	60.1	60.6	61.1	61.1
77.5°	39.2	39.7	39.7	43.9	56.8	58.6	53.6	54.6	55.3	55.6	54.9
80°	32.8	34.0	34.5	40.0	47.7	54.1	47.9	48.6	48.9	48.9	47.9
82.5°	25.1	27.3	28.5	34.5	36.5	45.4	41.7	42.4	41.7	40.2	39.7
85°	17.4	20.4	21.8	26.3	27.5	35.0	34.7	34.7	33.3	31.3	31.0
87.5°	9.4	11.2	12.2	15.6	18.9	23.6	25.6	24.8	23.6	22.3	22.6
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°	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1368.6	1402.3	1456.2	1497.4	1538.8	1578.8	1622.0	1655.0	1683.0	1693.9	1727.2
5°	1100.5	1142.7	1193.6	1285.4	1350.4	1422.2	1505.1	1614.8	1657.0	1715.3	1810.8
7.5°	778.1	816.3	898.2	972.4	1064.5	1166.0	1278.0	1429.4	1484.7	1578.3	1733.9
10°	581.0	625.5	691.2	753.8	834.9	938.7	1067.2	1236.5	1303.8	1405.3	1584.5
12.5°	468.1	520.5	590.2	649.0	711.8	785.0	909.9	1095.5	1185.6	1274.5	1455.7
15°	359.6	414.5	479.3	554.0	623.2	702.1	832.9	1036.0	1139.7	1232.3	1386.9
17.5°	248.9	295.8	377.5	455.4	544.0	645.1	811.6	1048.6	1172.5	1279.2	1398.8
20°	176.5	203.3	270.3	360.6	471.1	597.9	807.6	1115.1	1276.2	1398.1	1475.3
22.5°	148.4	158.3	197.3	280.2	407.8	562.7	821.5	1208.5	1416.2	1571.8	1597.1
25°	135.3	141.2	161.6	219.9	351.4	537.1	868.4	1347.5	1589.4	1745.6	1741.1
27.5°	128.1	134.3	147.7	185.7	309.0	521.2	915.3	1512.3	1787.5	1934.2	1878.6
30°	125.8	134.3	148.4	175.0	278.7	496.1	953.8	1657.0	1939.9	2061.5	1941.1
32.5°	124.1	125.3	131.8	150.9	249.9	466.9	979.9	1786.8	2089.1	2182.6	2031.2
35°	100.3	106.5	116.9	135.3	233.1	449.2	979.9	1898.7	2236.0	2305.0	2117.1
37.5°	96.5	102.0	111.2	126.8	223.6	440.5	960.3	2006.7	2386.2	2443.7	2187.8
40°	94.6	99.0	107.7	120.4	219.7	430.6	931.7	2102.0	2532.8	2582.7	2253.9
42.5°	93.1	97.0	105.2	116.4	214.4	419.7	908.6	2178.4	2660.2	2701.4	2316.9
45°	92.3	96.5	105.5	118.4	204.0	405.3	901.0	2261.1	2764.9	2800.4	2385.2
47.5°	92.3	97.3	106.7	122.6	191.6	390.4	925.0	2370.0	2863.9	2881.3	2465.6
50°	91.6	97.0	110.2	118.4	173.5	371.5	981.6	2507.3	2971.1	2973.1	2567.3
52.5°	90.1	96.5	118.6	115.9	152.6	346.7	1058.1	2683.5	3129.7	3141.7	2726.7
55°	88.4	95.8	116.4	110.2	135.5	317.2	1120.6	2897.7	3352.6	3385.6	2961.0
57.5°	86.1	94.8	112.7	102.3	124.3	279.2	1143.2	3054.5	3508.2	3591.1	3225.1
60°	84.1	94.1	101.8	97.5	117.4	247.2	1099.5	3023.5	3497.6	3676.3	3459.1
62.5°	82.2	94.8	92.8	94.6	114.2	226.6	985.3	2775.1	3320.6	3588.4	3632.6
65°	79.9	88.1	87.6	92.1	113.4	218.4	816.8	2402.5	2978.6	3310.7	3673.5
67.5°	76.9	81.4	83.9	88.9	115.9	211.2	659.2	1981.8	2503.3	2894.5	3460.1
70°	73.7	77.4	80.2	84.9	114.4	208.0	548.3	1562.9	1986.3	2372.3	3038.9
72.5°	69.5	72.7	75.2	79.7	112.9	206.3	463.1	1258.6	1483.0	1762.2	2470.8
75°	64.5	67.5	69.2	73.7	108.2	188.9	364.1	1065.0	1109.7	1225.8	1967.9
77.5°	58.8	61.1	62.5	67.5	95.8	157.1	263.3	821.5	861.7	890.0	1508.8
80°	52.1	54.4	55.1	59.8	79.4	122.9	171.8	606.8	644.6	651.0	985.3
82.5°	44.4	46.7	46.7	51.1	65.0	88.4	112.7	415.7	423.2	445.0	696.4
85°	35.7	37.5	37.5	39.7	50.4	66.0	77.4	208.7	206.5	235.8	603.4
87.5°	25.6	26.8	28.0	28.5	36.0	43.7	46.7	63.5	41.9	48.1	387.4
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4	1525.4
2.5°	1752.3	1766.4	1752.0	1741.6	1696.7	1659.7	1610.3	1585.0
5°	1883.6	1919.5	1907.4	1863.7	1769.9	1664.4	1544.5	1490.4
7.5°	1867.7	1951.3	1953.3	1871.6	1733.4	1578.0	1415.7	1338.8
10°	1744.1	1851.0	1881.6	1802.4	1655.7	1482.0	1295.8	1208.0
12.5°	1606.1	1710.8	1734.1	1706.8	1584.2	1409.8	1220.9	1134.8
15°	1493.1	1540.1	1567.9	1591.7	1522.9	1381.0	1216.7	1122.1
17.5°	1424.4	1419.2	1427.1	1468.6	1480.2	1414.0	1281.2	1176.9
20°	1399.6	1319.9	1317.9	1375.0	1460.1	1492.6	1407.3	1282.2
22.5°	1413.2	1284.2	1267.8	1335.5	1470.8	1606.1	1572.6	1429.9
25°	1460.4	1287.1	1274.0	1339.5	1509.5	1726.9	1751.0	1621.0
27.5°	1534.6	1306.0	1288.6	1355.9	1560.9	1828.5	1926.7	1806.1
30°	1605.1	1338.8	1317.2	1388.2	1607.8	1868.7	2034.5	1950.6
32.5°	1690.7	1400.1	1362.1	1447.5	1665.9	1932.7	2130.5	2070.2
35°	1774.6	1487.4	1440.3	1539.1	1730.7	2012.4	2240.2	2223.1
37.5°	1866.7	1601.6	1562.6	1657.5	1819.3	2087.6	2380.2	2402.3
40°	1965.0	1753.0	1706.8	1830.2	1956.8	2181.9	2526.4	2579.5
42.5°	2064.0	1921.0	1865.9	1991.0	2107.9	2275.0	2651.5	2730.2
45°	2177.4	2103.5	2077.4	2212.7	2253.1	2363.6	2743.8	2841.6
47.5°	2309.5	2310.5	2352.4	2406.5	2399.6	2463.8	2836.6	2941.1
50°	2463.6	2568.8	2661.4	2697.4	2550.5	2571.6	2965.4	3074.4
52.5°	2648.7	2877.8	2992.5	2968.9	2713.0	2703.1	3169.5	3258.1
55°	2880.3	3204.9	3318.9	3302.0	2899.9	2882.3	3423.6	3475.2
57.5°	3148.4	3521.9	3626.6	3550.7	3124.3	3078.9	3633.8	3644.8
60°	3383.9	3773.1	3864.9	3780.8	3350.6	3288.1	3765.1	3712.3
62.5°	3514.9	3858.2	3922.7	3832.1	3505.8	3511.0	3793.9	3675.8
65°	3456.4	3643.0	3663.9	3656.4	3465.8	3640.3	3690.4	3507.3
67.5°	3135.7	3099.0	3134.0	3182.4	3123.3	3470.0	3403.8	3140.2
70°	2570.8	2369.0	2438.8	2471.3	2498.1	2986.0	2954.3	2557.7
72.5°	1937.4	1659.7	1714.8	1708.1	1832.2	2395.1	2297.5	1880.6
75°	1372.8	1125.3	1132.3	1129.5	1278.5	1873.9	1663.7	1286.6
77.5°	960.5	815.3	819.0	834.4	859.5	1413.2	1188.6	939.9
80°	660.4	618.8	639.4	640.6	595.7	949.3	878.1	754.3
82.5°	491.9	430.1	425.2	432.4	466.9	769.2	674.8	523.2
85°	402.8	254.6	204.8	256.6	413.7	761.7	448.2	276.0
87.5°	226.9	120.9	54.6	101.3	165.1	504.3	129.6	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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