

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: P299336

Luminaire Tested: **GLNA-AF-01-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SLR-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5280.5 lumens
Efficiency: N/A
Efficacy: 89.5 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

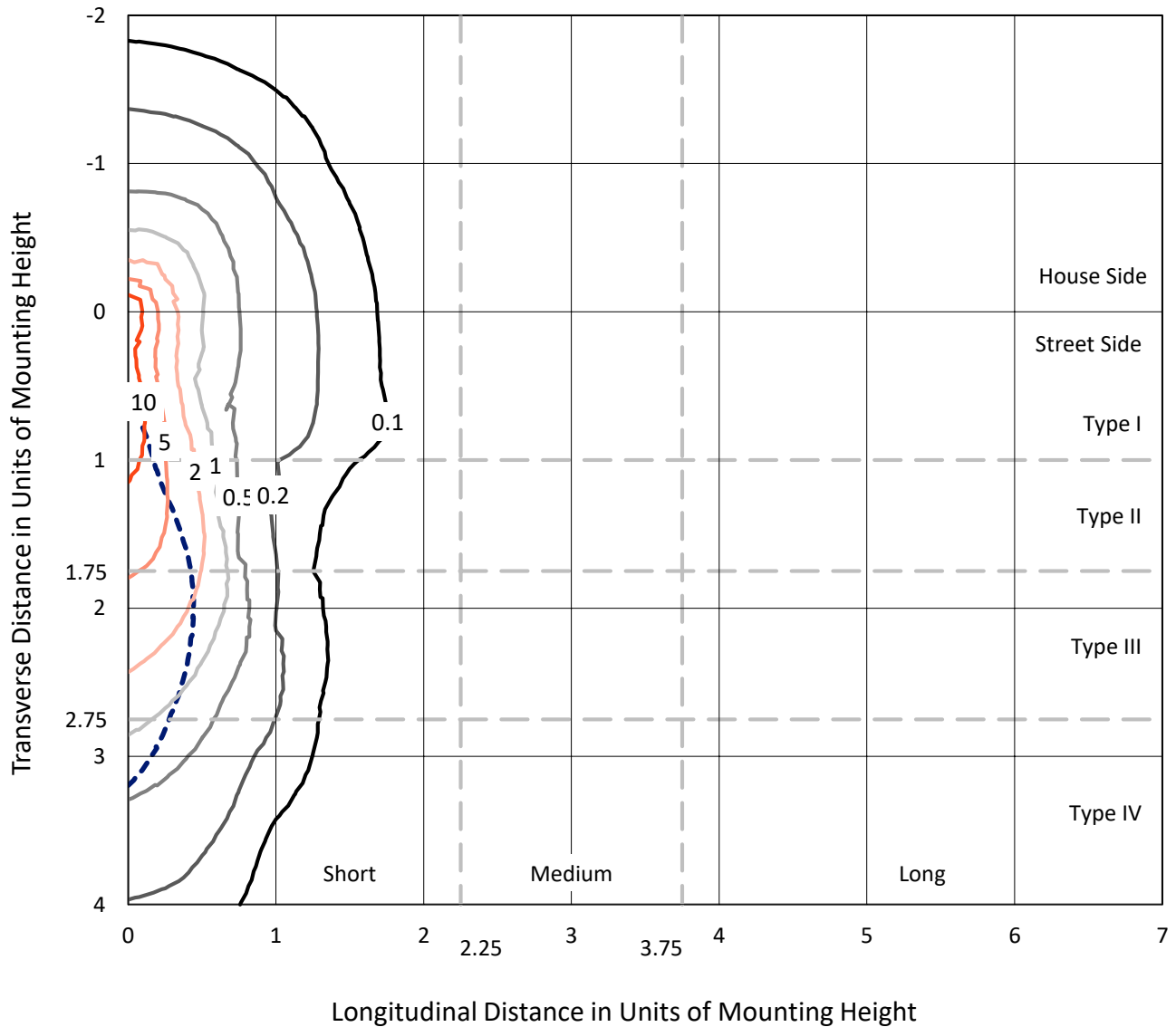
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

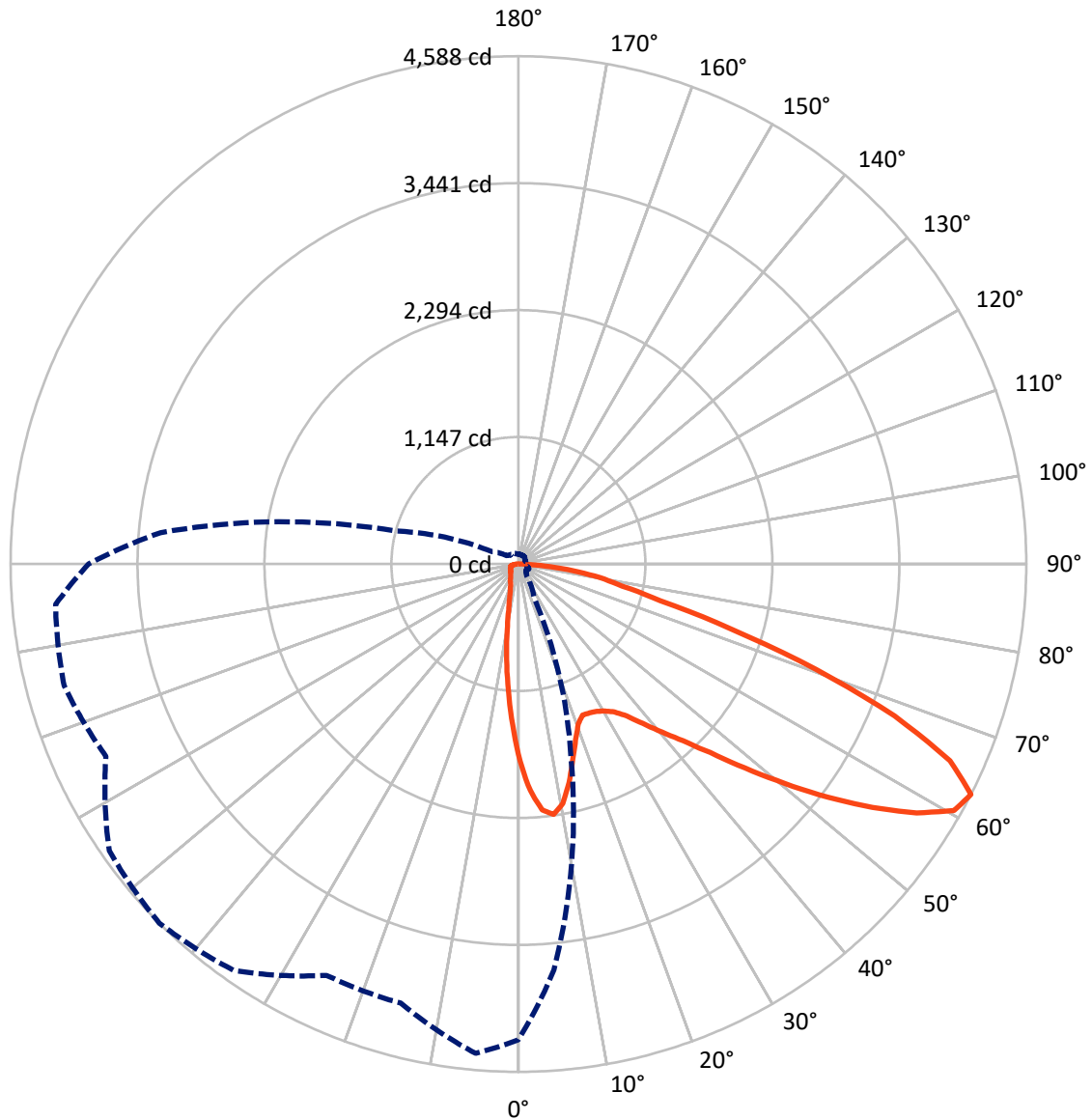
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 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	873.8	0.0	873.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4406.6	0.0	4406.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	5280.5	0.0	5280.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	2.5
10°-20°	238.1	4.5
20°-30°	347.2	6.6
30°-40°	534.8	10.1
40°-50°	787.0	14.9
50°-60°	1154.4	21.9
60°-70°	1290.5	24.4
70°-80°	631.8	12.0
80°-90°	166.8	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°	5280.5	100.0
0°-180°	5280.5	100.0



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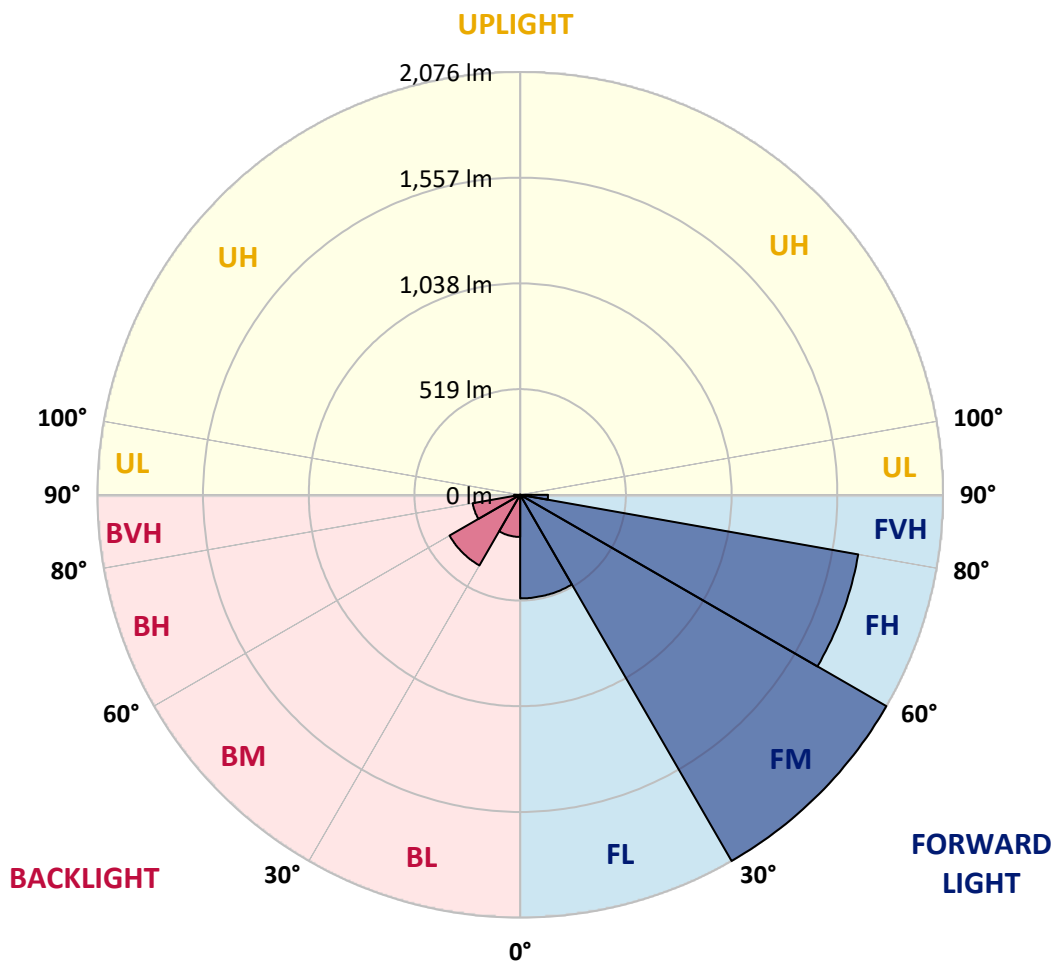
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	508.5	9.6			
FM	(30°-60°)	2075.8	39.3			
FH	(60°-80°)	1685.3	31.9			G1/1800
FVH	(80°-90°)	137.0	2.6			G2/225
BL	(0°-30°)	206.7	3.9	B1/500		
BM	(30°-60°)	400.4	7.6	B1/1000		
BH	(60°-80°)	236.9	4.5	B1/500		G1/500
BVH	(80°-90°)	29.8	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°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1853.7	1816.0	1753.2	1687.9	1648.2	1601.7	1565.4	1533.5	1469.6	1457.2	1468.5
5°	1743.1	1667.4	1549.2	1430.2	1350.9	1265.9	1199.7	1146.6	1065.6	1051.3	1068.5
7.5°	1565.8	1475.2	1319.0	1167.2	1055.1	948.9	877.5	820.6	757.3	730.1	731.7
10°	1412.8	1310.6	1126.0	960.8	869.1	797.4	737.3	678.9	614.8	572.7	561.1
12.5°	1327.1	1209.6	996.8	849.3	764.3	688.9	624.1	561.7	493.2	450.2	438.1
15°	1312.3	1184.6	948.4	778.0	671.4	575.9	499.6	429.9	359.3	324.5	317.2
17.5°	1376.5	1229.3	932.6	714.3	584.0	466.2	372.4	294.6	237.2	219.8	218.3
20°	1499.5	1315.2	930.6	654.6	497.8	359.7	259.5	202.9	177.7	172.7	173.0
22.5°	1672.3	1448.5	955.6	609.6	418.6	268.2	195.1	169.8	159.9	155.3	155.3
25°	1895.8	1631.9	1013.0	576.8	349.7	214.2	172.1	157.0	147.7	144.6	145.2
27.5°	2112.4	1810.4	1079.8	551.0	304.8	194.5	163.1	149.5	141.4	138.1	139.6
30°	2281.3	1969.0	1135.5	515.8	281.8	188.9	166.3	152.4	140.8	135.9	136.1
32.5°	2421.2	2107.7	1182.3	490.5	261.5	162.0	143.4	137.3	135.9	130.1	127.2
35°	2600.0	2258.9	1213.7	491.1	251.9	144.6	127.7	117.0	109.1	102.5	102.5
37.5°	2809.6	2432.5	1247.0	497.8	248.5	134.4	122.2	111.4	104.2	97.8	96.7
40°	3016.8	2602.6	1277.5	504.2	246.4	128.3	117.8	108.0	101.3	94.9	93.1
42.5°	3193.1	2742.5	1304.8	507.4	239.5	127.7	114.7	105.6	99.3	92.3	90.6
45°	3323.4	2859.8	1334.1	512.3	232.5	130.1	114.7	105.4	97.5	90.9	89.1
47.5°	3439.7	2997.4	1383.2	512.3	224.1	125.7	118.5	105.6	97.3	90.2	88.8
50°	3595.6	3186.0	1476.1	500.5	212.2	121.0	124.8	104.5	94.6	89.1	87.3
52.5°	3810.4	3427.9	1623.5	479.8	193.9	112.0	123.9	104.0	92.0	86.2	84.2
55°	4064.4	3686.8	1784.3	455.7	166.6	105.6	119.6	102.5	89.1	82.7	80.7
57.5°	4262.7	3865.0	1897.5	418.6	142.8	102.2	106.0	101.1	85.6	78.9	77.2
60°	4341.6	3858.0	1928.6	368.9	131.2	99.3	92.6	113.2	82.7	76.0	74.0
62.5°	4299.0	3679.8	1841.5	334.1	128.6	95.5	86.8	104.7	80.4	74.0	71.1
65°	4101.9	3364.0	1610.8	324.8	136.1	91.7	83.0	82.2	77.2	71.1	68.2
67.5°	3672.5	2892.0	1289.7	325.7	145.7	88.0	79.3	75.2	72.8	67.9	65.3
70°	2991.3	2286.5	961.4	328.0	150.6	83.6	75.2	70.8	68.2	63.3	61.5
72.5°	2199.4	1762.3	698.4	312.9	151.5	78.6	69.7	65.9	63.3	58.1	56.6
75°	1504.8	1348.0	484.5	259.2	132.1	71.7	63.5	60.1	58.3	51.9	51.1
77.5°	1099.2	1011.9	310.0	192.4	101.8	63.0	56.1	53.4	52.3	45.3	44.1
80°	882.2	800.6	193.9	131.8	74.6	52.8	47.0	45.6	44.4	37.4	36.6
82.5°	611.9	536.1	124.5	85.6	56.1	41.0	37.2	36.6	34.8	28.5	27.6
85°	322.8	291.1	78.9	58.3	40.6	28.1	25.8	25.8	25.0	18.9	18.3
87.5°	41.2	67.0	40.1	30.5	22.3	12.5	12.5	12.2	13.1	10.7	9.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1441.8	1455.8	1442.4	1443.3	1458.0	1502.2	1522.2	1538.7	1556.5	1568.1	1573.2
5°	1045.0	1077.5	1088.5	1111.7	1146.0	1202.3	1224.6	1240.9	1251.7	1258.0	1260.7
7.5°	714.7	734.4	756.4	793.9	868.5	901.6	916.4	912.6	900.5	896.1	891.8
10°	538.8	530.9	526.8	547.5	607.8	641.2	651.7	641.5	634.8	636.3	643.5
12.5°	417.4	403.8	387.3	384.9	424.7	454.6	461.3	461.8	474.0	484.7	500.7
15°	304.2	302.7	294.6	289.7	312.3	336.7	339.6	344.8	355.9	363.7	377.6
17.5°	214.5	222.3	228.7	231.9	249.0	266.4	263.3	260.6	258.6	258.6	265.3
20°	173.0	178.2	186.4	195.6	213.1	225.2	217.4	206.9	199.4	197.1	198.0
22.5°	155.9	159.9	164.6	172.7	188.4	196.8	188.4	180.8	173.3	170.7	169.8
25°	147.2	152.4	156.8	162.8	174.4	180.2	172.1	166.6	162.0	158.8	156.4
27.5°	142.3	146.8	148.1	151.0	160.8	166.0	162.0	159.7	156.8	153.9	151.0
30°	137.0	136.1	134.1	134.4	142.3	147.5	147.2	147.7	147.5	146.6	146.1
32.5°	125.1	123.4	121.6	123.4	130.6	135.2	135.6	136.7	136.7	136.5	138.8
35°	104.2	107.4	109.4	114.7	123.4	127.4	125.7	122.8	117.6	114.3	114.1
37.5°	96.4	96.9	100.4	107.6	117.3	121.0	118.5	111.8	108.3	107.6	108.5
40°	92.6	93.1	95.2	101.8	111.4	115.2	112.9	108.0	104.7	104.5	106.0
42.5°	90.0	90.6	91.7	96.4	104.2	108.9	109.1	105.6	101.8	102.2	103.6
45°	88.5	88.8	88.5	90.9	98.1	103.6	106.0	103.6	100.4	101.1	102.7
47.5°	88.2	87.3	86.2	86.8	94.4	99.8	102.7	101.8	100.4	101.1	102.5
50°	87.1	85.1	83.6	83.3	90.9	96.7	99.3	99.3	99.8	101.1	102.5
52.5°	83.6	81.3	81.3	80.4	88.5	94.0	95.8	96.0	96.9	98.9	101.1
55°	79.3	78.4	79.3	77.8	86.8	92.0	92.9	93.5	94.0	95.8	98.7
57.5°	75.5	74.3	76.4	75.7	85.3	90.0	90.0	91.1	91.1	93.5	95.8
60°	73.5	71.1	72.0	72.6	83.3	88.2	87.7	88.8	89.4	91.5	93.1
62.5°	70.8	68.8	68.8	70.2	81.0	85.6	85.3	86.2	88.5	89.1	90.9
65°	67.7	66.8	65.9	67.7	78.6	82.7	83.0	84.2	86.2	86.8	88.2
67.5°	64.4	64.8	63.0	64.8	76.6	79.8	79.8	82.2	83.0	84.2	85.6
70°	61.0	61.2	59.8	61.9	75.2	76.6	76.4	79.5	80.1	81.0	82.4
72.5°	56.6	56.6	56.1	59.0	72.8	73.5	72.8	75.5	75.7	76.6	77.2
75°	51.9	51.9	51.4	55.4	71.4	69.9	68.2	70.2	70.8	71.4	71.4
77.5°	45.9	46.5	46.5	51.4	66.4	68.5	62.7	63.9	64.8	65.0	64.1
80°	38.3	39.8	40.3	46.8	55.7	63.3	56.1	56.9	57.2	57.2	56.1
82.5°	29.4	31.9	33.4	40.3	42.7	53.1	48.8	49.6	48.8	47.0	46.5
85°	20.3	23.8	25.6	30.8	32.3	41.0	40.6	40.6	38.9	36.6	36.3
87.5°	11.1	13.1	14.2	18.3	22.1	27.6	29.9	29.0	27.6	26.1	26.5
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°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	1600.6	1640.0	1703.0	1751.2	1799.7	1846.5	1897.0	1935.6	1968.3	1981.2	2020.0
5°	1287.1	1336.4	1395.9	1503.3	1579.4	1663.2	1760.2	1888.5	1937.8	2006.1	2117.8
7.5°	910.0	954.7	1050.5	1137.3	1245.0	1363.7	1494.6	1671.7	1736.4	1845.8	2027.8
10°	679.5	731.5	808.4	881.6	976.5	1097.8	1248.2	1446.2	1524.8	1643.5	1853.1
12.5°	547.5	608.7	690.3	759.1	832.5	918.1	1064.2	1281.2	1386.7	1490.6	1702.4
15°	420.6	484.7	560.6	647.9	728.8	821.2	974.2	1211.6	1332.9	1441.3	1622.0
17.5°	291.1	346.0	441.5	532.6	636.3	754.4	949.2	1226.4	1371.2	1496.1	1636.0
20°	206.4	237.7	316.1	421.8	551.0	699.2	944.6	1304.2	1492.6	1635.1	1725.4
22.5°	173.6	185.2	230.8	327.7	476.9	658.0	960.8	1413.3	1656.3	1838.3	1867.9
25°	158.2	165.2	188.9	257.2	411.0	628.1	1015.7	1575.9	1858.9	2041.5	2036.3
27.5°	149.7	157.0	172.7	217.1	361.4	609.6	1070.5	1768.7	2090.6	2262.1	2197.1
30°	147.2	157.0	173.6	204.7	326.0	580.2	1115.5	1937.8	2268.8	2411.1	2270.3
32.5°	145.2	146.6	154.1	176.5	292.3	546.0	1146.0	2089.7	2443.2	2552.7	2375.6
35°	117.3	124.5	136.7	158.2	272.6	525.4	1146.0	2220.6	2615.1	2695.8	2476.1
37.5°	112.9	119.3	130.1	148.3	261.5	515.2	1123.1	2346.9	2790.7	2858.1	2558.8
40°	110.6	115.8	126.0	140.8	256.9	503.6	1089.7	2458.3	2962.2	3020.6	2636.0
42.5°	108.9	113.5	123.1	136.1	250.8	490.9	1062.7	2547.7	3111.2	3159.3	2709.7
45°	108.0	112.9	123.4	138.5	238.6	474.0	1053.7	2644.4	3233.7	3275.1	2789.5
47.5°	108.0	113.8	124.8	143.4	224.1	456.6	1081.8	2771.9	3349.5	3369.8	2883.6
50°	107.1	113.5	128.9	138.5	202.9	434.5	1148.0	2932.3	3474.9	3477.2	3002.6
52.5°	105.4	112.9	138.8	135.6	178.5	405.5	1237.5	3138.5	3660.4	3674.3	3188.9
55°	103.3	112.0	136.1	128.9	158.5	371.0	1310.6	3388.9	3921.0	3959.6	3463.0
57.5°	100.7	110.9	131.8	119.6	145.4	326.5	1337.0	3572.4	4103.0	4199.9	3771.8
60°	98.4	110.0	119.0	114.1	137.3	289.1	1285.9	3536.1	4090.5	4299.5	4045.6
62.5°	96.0	110.9	108.5	110.6	133.5	265.0	1152.4	3245.5	3883.6	4196.8	4248.5
65°	93.5	103.1	102.5	107.6	132.7	255.5	955.3	2809.8	3483.6	3872.0	4296.3
67.5°	90.0	95.2	98.1	104.0	135.6	247.0	770.9	2317.8	2927.7	3385.2	4046.7
70°	86.2	90.6	93.8	99.3	133.8	243.2	641.2	1827.8	2323.1	2774.4	3554.1
72.5°	81.3	85.1	88.0	93.1	132.1	241.2	541.7	1472.0	1734.4	2061.0	2889.7
75°	75.5	78.9	81.0	86.2	126.5	220.9	425.8	1245.6	1297.8	1433.7	2301.6
77.5°	68.8	71.4	73.1	78.9	112.0	183.7	308.0	960.8	1007.9	1040.9	1764.6
80°	61.0	63.5	64.4	69.9	92.9	143.7	200.9	709.7	753.8	761.4	1152.4
82.5°	51.9	54.6	54.6	59.8	76.0	103.3	131.8	486.2	494.9	520.5	814.5
85°	41.8	43.9	43.9	46.5	59.0	77.2	90.6	244.1	241.5	275.8	705.6
87.5°	29.9	31.4	32.8	33.4	42.1	51.1	54.6	74.3	49.0	56.3	453.1
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°	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1	1784.1
2.5°	2049.4	2065.9	2049.0	2036.9	1984.3	1941.1	1883.3	1853.7
5°	2202.9	2245.0	2230.7	2179.7	2069.9	1946.5	1806.4	1743.1
7.5°	2184.3	2282.1	2284.4	2189.0	2027.3	1845.6	1655.8	1565.8
10°	2039.8	2164.8	2200.6	2108.0	1936.4	1733.3	1515.5	1412.8
12.5°	1878.4	2000.8	2028.2	1996.2	1852.9	1648.7	1427.9	1327.1
15°	1746.3	1801.2	1833.6	1861.6	1781.2	1615.1	1422.9	1312.3
17.5°	1665.9	1659.8	1669.1	1717.5	1731.2	1653.7	1498.4	1376.5
20°	1636.9	1543.7	1541.3	1608.1	1707.7	1745.7	1645.8	1499.5
22.5°	1652.9	1501.9	1482.7	1562.0	1720.2	1878.4	1839.2	1672.3
25°	1708.0	1505.4	1489.9	1566.7	1765.4	2019.7	2047.9	1895.8
27.5°	1794.8	1527.5	1507.1	1585.8	1825.5	2138.5	2253.4	2112.4
30°	1877.2	1565.8	1540.5	1623.5	1880.4	2185.5	2379.4	2281.3
32.5°	1977.4	1637.5	1593.0	1692.8	1948.3	2260.3	2491.7	2421.2
35°	2075.5	1739.6	1684.5	1800.0	2024.0	2353.6	2620.0	2600.0
37.5°	2183.2	1873.2	1827.6	1938.5	2127.7	2441.5	2783.7	2809.6
40°	2298.1	2050.2	1996.2	2140.5	2288.6	2551.8	2954.7	3016.8
42.5°	2414.0	2246.7	2182.3	2328.5	2465.3	2660.6	3101.0	3193.1
45°	2546.6	2460.1	2429.6	2587.8	2635.1	2764.3	3209.0	3323.4
47.5°	2701.0	2702.2	2751.2	2814.5	2806.4	2881.5	3317.6	3439.7
50°	2881.3	3004.3	3112.7	3154.7	2982.9	3007.6	3468.2	3595.6
52.5°	3097.8	3365.7	3499.8	3472.2	3173.0	3161.3	3706.8	3810.4
55°	3368.6	3748.4	3881.6	3861.8	3391.6	3370.9	4004.1	4064.4
57.5°	3682.1	4119.0	4241.5	4152.7	3654.0	3600.9	4249.9	4262.7
60°	3957.6	4412.8	4520.2	4421.7	3918.7	3845.5	4403.5	4341.6
62.5°	4110.8	4512.3	4587.8	4481.9	4100.1	4106.2	4437.1	4299.0
65°	4042.4	4260.7	4285.0	4276.3	4053.4	4257.4	4316.1	4101.9
67.5°	3667.3	3624.4	3665.3	3721.9	3652.8	4058.3	3980.8	3672.5
70°	3006.7	2770.6	2852.3	2890.2	2921.6	3492.3	3455.1	2991.3
72.5°	2265.9	1941.1	2005.5	1997.7	2142.8	2801.1	2687.1	2199.4
75°	1605.5	1316.1	1324.2	1321.0	1495.2	2191.5	1945.8	1504.8
77.5°	1123.3	953.5	957.9	975.9	1005.2	1652.9	1390.1	1099.2
80°	772.4	723.7	747.7	749.2	696.7	1110.3	1027.0	882.2
82.5°	575.3	503.0	497.2	505.6	546.0	899.6	789.2	611.9
85°	471.1	297.8	239.5	300.2	483.8	890.9	524.3	322.8
87.5°	265.3	141.4	63.9	118.5	193.1	589.8	151.5	41.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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