

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: P646736

Luminaire Tested: **GALN-SA1C-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4801.4 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

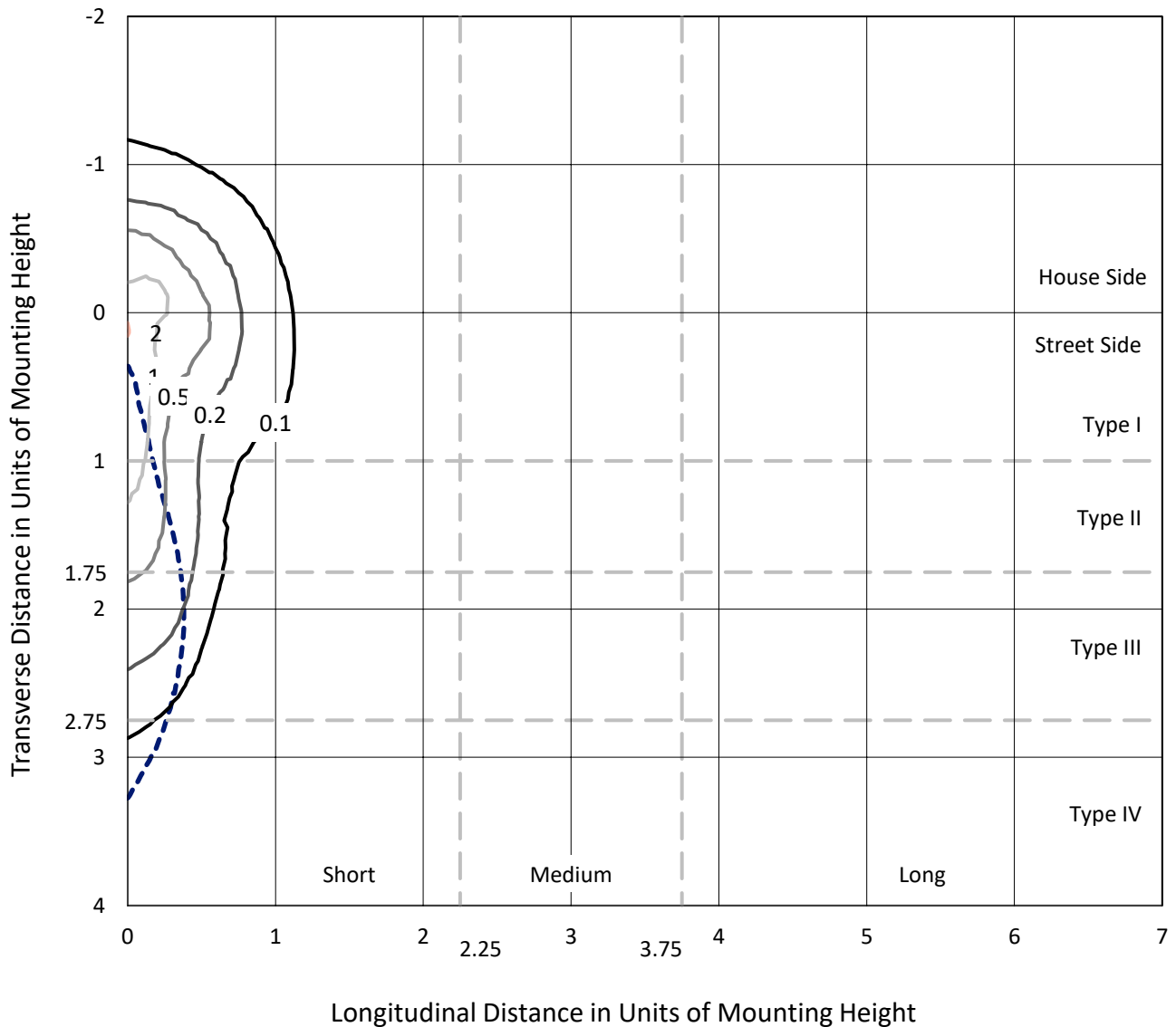
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

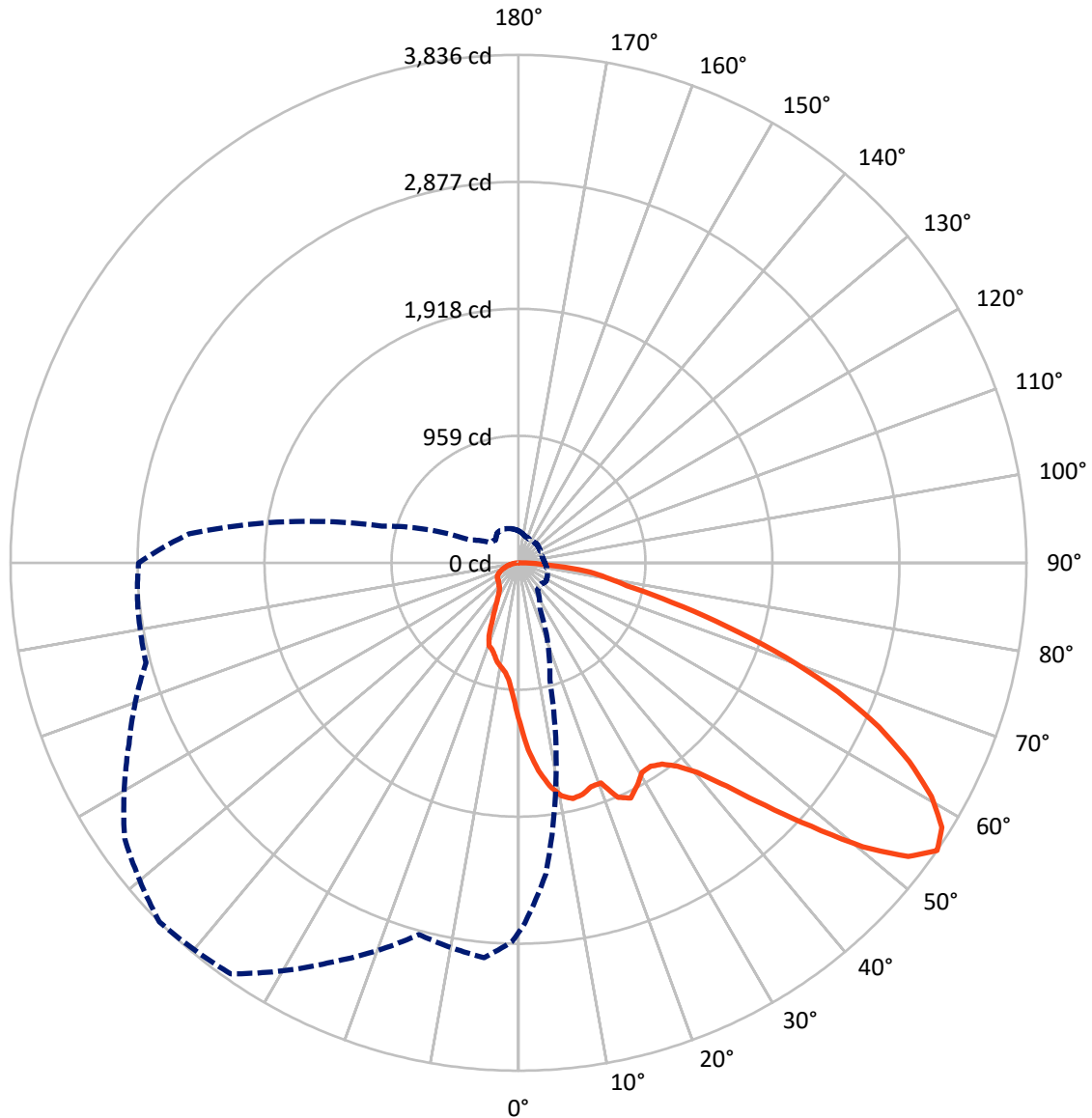
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1050.3	0.0	1050.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3751.1	0.0	3751.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	4801.4	0.0	4801.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	2.1
10°-20°	270.9	5.6
20°-30°	468.1	9.7
30°-40°	544.0	11.3
40°-50°	758.9	15.8
50°-60°	1029.8	21.4
60°-70°	979.7	20.4
70°-80°	529.3	11.0
80°-90°	118.6	2.5
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°	4801.4	100.0
0°-180°	4801.4	100.0

Coefficient of Utilization



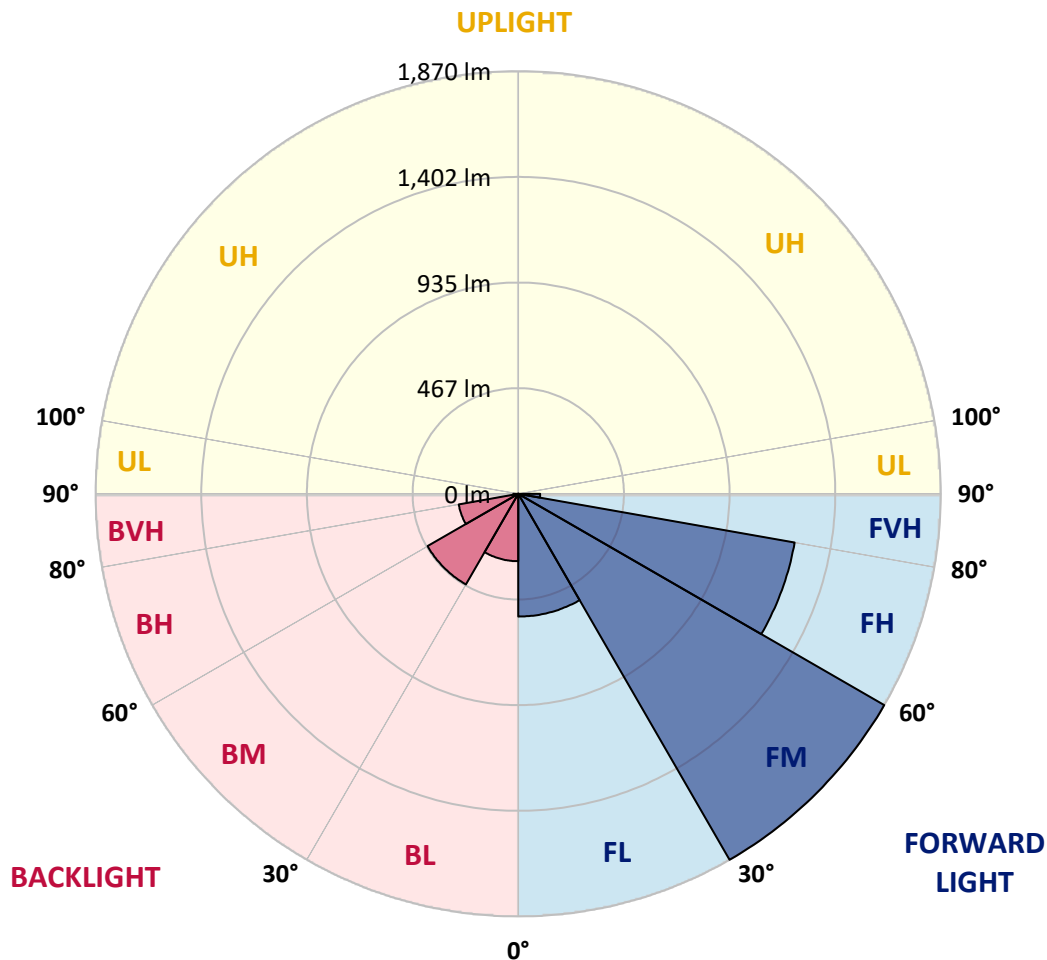
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.0	11.3			
FM (30°-60°)	1869.5	38.9			
FH (60°-80°)	1241.6	25.9			G1/1800
FVH (80°-90°)	96.9	2.0			G1/100
BL (0°-30°)	298.1	6.2	B1/500		
BM (30°-60°)	463.1	9.6	B1/1000		
BH (60°-80°)	267.4	5.6	B1/500		G1/500
BVH (80°-90°)	21.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1338.6	1333.5	1319.3	1281.9	1244.3	1205.9	1176.5	1139.7	1101.4	1080.8	1054.5
5°	1357.0	1351.3	1317.7	1233.5	1157.1	1077.0	1013.0	956.9	934.1	900.5	873.6
7.5°	1314.0	1311.4	1261.0	1140.0	1035.5	930.7	858.1	813.1	772.3	757.1	760.2
10°	1274.6	1264.5	1201.4	1043.4	921.4	836.2	784.3	740.2	711.4	703.8	705.4
12.5°	1242.0	1228.4	1154.0	978.4	871.7	803.6	737.4	691.5	665.2	672.5	697.2
15°	1235.3	1217.0	1134.0	956.3	844.5	756.8	684.2	631.3	611.7	627.5	667.1
17.5°	1278.4	1255.3	1168.2	963.6	818.5	708.9	619.9	559.4	542.9	568.3	619.9
20°	1416.8	1382.6	1275.0	1005.7	816.0	685.1	582.6	521.7	528.7	576.8	630.7
22.5°	1672.8	1621.5	1461.9	1067.2	829.3	679.1	575.0	543.2	581.5	622.4	657.9
25°	1723.5	1683.3	1495.5	1081.1	826.5	675.0	596.5	612.3	655.1	675.3	663.0
27.5°	1752.0	1706.1	1493.2	1012.0	739.0	612.3	570.2	596.5	607.2	587.6	554.1
30°	1818.5	1770.7	1530.9	939.5	608.5	454.2	398.2	387.4	394.7	398.5	386.4
32.5°	1910.1	1862.8	1601.9	892.0	526.2	375.7	320.6	305.4	301.8	297.8	293.0
35°	2028.5	1956.0	1671.5	861.6	492.3	347.5	296.8	285.1	280.3	274.6	269.6
37.5°	2148.9	2072.8	1759.6	829.6	469.7	327.8	280.9	275.6	267.3	261.4	254.0
40°	2276.9	2191.7	1839.7	801.7	447.9	315.2	269.6	269.0	258.2	251.2	242.7
42.5°	2387.8	2300.0	1911.3	784.6	431.1	301.8	262.6	264.5	253.4	243.0	231.8
45°	2475.8	2389.6	1977.5	784.6	417.5	288.5	261.4	260.0	249.0	236.0	223.3
47.5°	2553.0	2464.1	2042.1	804.5	409.0	277.5	254.4	256.6	245.2	228.7	216.3
50°	2612.9	2534.4	2129.3	835.6	400.3	268.6	245.5	257.5	242.0	224.9	210.6
52.5°	2689.3	2619.0	2234.1	878.1	393.1	258.8	237.6	257.5	241.7	225.2	209.7
55°	2795.1	2720.9	2360.5	913.2	381.4	249.6	230.6	250.2	240.8	223.6	207.2
57.5°	2869.2	2813.8	2449.9	936.6	364.6	237.9	224.3	243.3	236.6	217.6	199.6
58°	2872.7	2818.5	2462.8	942.0	360.5	235.7	222.7	240.1	234.7	215.1	197.0
60°	2832.8	2786.2	2465.4	934.4	337.0	224.6	214.5	227.1	224.6	200.2	183.4
62.5°	2687.7	2638.0	2363.0	872.7	306.0	210.9	201.8	209.7	204.0	179.3	163.8
65°	2481.5	2390.0	2152.7	775.7	283.8	196.4	184.7	185.3	179.3	161.5	147.9
67.5°	2206.9	2104.5	1822.7	653.8	267.0	180.2	164.4	162.8	155.5	144.2	133.0
70°	1868.9	1798.9	1481.2	531.8	248.4	162.5	141.6	140.6	136.2	127.6	117.8
72.5°	1514.7	1425.8	1196.1	425.7	225.5	145.4	120.3	122.3	116.6	110.6	101.7
75°	1117.8	1059.6	924.6	341.5	194.8	126.7	100.4	101.1	98.5	92.2	85.2
77.5°	736.2	718.7	661.4	224.3	149.9	100.7	82.1	82.7	80.8	75.1	67.8
80°	495.4	483.7	448.2	144.5	100.1	72.8	63.3	64.0	63.7	57.6	47.8
82.5°	305.4	300.3	288.8	97.6	69.4	52.3	41.8	43.7	47.2	40.6	32.7
85°	144.2	144.5	174.5	53.2	40.9	33.6	22.8	24.4	24.4	24.4	18.4
87.5°	18.7	19.7	24.0	22.5	14.9	12.7	8.2	7.0	6.0	7.9	5.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1045.3	1039.0	1025.3	1022.2	1020.2	1025.7	1011.4	1015.2	1008.9	1026.6	1023.8
5°	875.2	875.9	886.9	894.2	896.8	894.2	884.7	868.3	855.6	850.5	851.7
7.5°	754.2	765.3	784.3	805.6	824.8	830.5	825.1	793.8	759.6	738.1	731.1
10°	713.9	728.9	750.7	767.5	784.6	798.3	801.1	776.7	736.2	685.1	665.2
12.5°	716.2	736.5	757.4	762.7	761.2	766.6	764.1	759.9	733.3	668.4	635.1
15°	695.3	719.3	733.9	731.1	726.0	721.3	714.6	704.2	694.7	649.0	612.3
17.5°	647.1	671.8	683.9	684.8	684.8	683.6	667.4	663.6	662.3	640.2	617.7
20°	656.0	669.6	664.2	655.4	657.9	666.5	656.9	655.1	662.3	672.1	668.1
22.5°	661.1	656.3	615.8	576.5	567.6	594.2	599.6	620.8	650.3	685.8	708.9
25°	629.7	591.4	518.8	474.5	449.5	474.2	506.5	545.8	589.8	635.4	662.3
27.5°	526.5	497.3	445.4	405.4	383.6	387.4	415.0	450.8	491.6	522.3	542.0
30°	396.6	383.6	356.7	343.0	329.7	326.6	338.3	352.0	370.0	373.8	378.8
32.5°	292.1	290.2	291.7	287.3	284.8	284.5	280.9	284.2	286.0	288.2	283.8
35°	264.2	261.7	257.2	256.0	254.4	255.0	253.4	251.8	253.1	255.0	256.3
37.5°	249.9	246.1	239.8	237.6	237.6	238.5	236.0	235.4	237.6	243.6	246.7
40°	238.8	234.4	227.1	224.3	226.1	228.7	225.2	223.9	229.3	235.7	240.8
42.5°	228.4	224.9	217.9	214.8	216.3	221.1	216.0	215.1	222.1	229.0	235.1
45°	219.6	216.0	209.7	208.1	208.7	213.2	209.7	209.7	216.3	223.9	229.3
47.5°	212.6	208.1	204.0	202.7	203.3	205.9	205.2	205.2	211.6	219.6	224.9
50°	205.6	201.8	196.4	197.0	198.6	202.1	201.8	202.7	209.1	218.8	224.6
52.5°	202.4	196.7	190.7	191.3	196.1	200.2	199.0	199.9	207.2	225.5	233.8
55°	199.0	191.3	184.3	185.3	190.7	196.7	195.1	196.4	204.9	230.0	241.4
57.5°	192.3	183.4	175.8	176.4	184.3	190.7	188.2	189.7	199.9	225.2	237.2
58°	189.4	181.8	174.5	174.8	182.4	189.4	186.6	187.8	198.3	223.9	235.4
60°	177.3	173.0	166.6	166.9	174.2	180.2	178.7	179.9	190.0	214.8	223.3
62.5°	160.9	158.4	156.8	156.8	161.2	166.9	168.5	170.1	179.3	194.2	201.8
65°	143.2	143.2	143.5	143.5	146.3	153.6	154.6	158.7	167.2	174.5	180.2
67.5°	131.2	130.5	131.2	129.6	130.8	135.2	140.0	143.8	152.7	157.8	159.7
70°	115.6	115.3	115.6	113.4	115.0	118.8	122.0	128.3	137.5	141.3	142.2
72.5°	100.4	100.4	101.1	99.4	99.4	103.6	105.8	112.8	121.3	123.6	123.9
75°	84.6	85.5	85.5	83.3	83.9	86.4	89.3	95.1	103.0	104.5	104.5
77.5°	67.2	70.6	70.6	68.4	69.4	69.7	73.5	76.3	82.4	83.0	80.5
80°	48.8	52.3	55.1	53.2	54.8	52.9	55.1	57.0	63.0	60.2	56.1
82.5°	34.8	37.3	39.6	39.9	38.4	34.8	37.7	38.0	40.9	37.0	34.8
85°	19.3	21.5	24.4	23.1	20.6	18.4	19.3	20.0	19.7	18.7	17.5
87.5°	5.1	5.4	6.0	4.5	4.1	3.5	4.8	4.8	5.4	5.7	5.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1026.0	1039.9	1070.0	1092.8	1120.7	1154.6	1194.5	1234.7	1278.1	1291.7	1310.7
5°	848.9	883.8	898.3	939.8	981.0	1042.8	1108.6	1185.0	1268.6	1308.9	1347.5
7.5°	725.4	744.1	759.3	789.7	839.1	914.2	996.8	1092.2	1210.7	1269.2	1325.9
10°	658.9	660.8	679.5	717.1	760.2	826.5	904.7	1011.4	1143.5	1214.7	1281.3
12.5°	614.8	606.6	626.9	666.2	715.0	776.0	848.0	949.6	1095.0	1168.2	1248.7
15°	576.2	563.2	578.4	618.6	666.8	738.7	816.0	923.7	1076.0	1161.3	1250.5
17.5°	577.1	541.4	546.7	580.6	628.4	701.6	795.4	922.7	1104.9	1203.1	1308.9
20°	648.4	591.1	566.7	573.0	619.3	699.1	804.9	967.1	1199.6	1342.8	1455.8
22.5°	718.4	683.9	644.6	631.6	656.9	740.6	865.4	1071.9	1405.5	1621.2	1825.5
25°	694.1	723.5	713.6	695.3	701.0	770.4	906.6	1158.1	1565.5	1808.4	2000.3
27.5°	555.3	608.8	619.6	619.3	621.5	678.5	815.3	1100.1	1585.4	1844.2	2027.6
30°	390.2	395.0	400.7	411.8	422.0	472.9	638.0	965.8	1576.5	1860.3	2044.0
32.5°	281.6	287.9	295.8	311.1	335.1	400.0	558.1	923.0	1623.4	1927.2	2092.2
35°	257.5	264.8	272.4	289.9	312.7	372.9	526.5	905.3	1700.4	2035.5	2178.7
37.5°	249.9	258.2	264.8	277.5	295.8	353.2	497.6	893.2	1779.2	2150.2	2294.6
40°	244.5	254.0	259.4	269.6	282.3	335.1	472.0	883.8	1855.6	2255.0	2387.8
42.5°	239.8	249.6	256.6	263.9	274.3	319.0	449.1	874.2	1921.8	2356.7	2480.5
45°	234.1	246.4	255.3	261.0	270.2	305.4	431.7	866.6	1997.2	2447.0	2574.3
47.5°	229.3	243.0	254.0	260.7	264.2	295.8	417.8	877.1	2087.8	2541.4	2661.4
50°	229.7	242.7	256.6	267.0	257.8	287.9	409.3	918.6	2205.6	2653.5	2730.2
52.5°	239.8	255.6	266.7	269.3	249.0	278.4	404.8	991.1	2345.0	2752.6	2799.5
55°	251.2	267.6	279.7	278.1	244.2	266.4	403.9	1068.4	2497.6	2868.3	2889.8
57.5°	247.0	271.2	289.6	281.3	244.5	254.7	399.7	1130.8	2625.3	2954.7	2979.2
58°	245.8	269.9	290.8	280.6	243.6	251.2	398.8	1136.2	2643.0	2960.8	2991.8
60°	233.5	258.8	289.9	275.9	238.2	241.7	388.4	1153.7	2638.3	2929.7	2999.4
62.5°	210.9	231.8	267.9	252.8	221.7	229.0	364.9	1132.1	2509.7	2780.2	2888.2
65°	185.6	201.2	225.2	222.4	198.3	216.0	332.9	1046.9	2252.1	2537.5	2651.2
67.5°	166.6	179.3	194.5	190.3	178.4	198.6	298.4	902.8	1963.3	2246.1	2389.3
70°	147.3	157.1	164.7	161.8	158.1	181.5	267.6	732.7	1686.4	1969.3	2108.1
72.5°	127.6	136.9	143.2	139.1	136.9	163.4	242.7	568.6	1332.0	1624.6	1803.0
75°	106.7	116.0	120.3	115.6	114.3	144.2	205.6	424.8	999.3	1252.5	1406.4
77.5°	82.7	92.5	98.2	96.6	97.2	118.5	166.0	290.8	714.6	853.7	1015.9
80°	57.9	68.7	72.5	70.9	75.4	90.3	117.2	184.7	492.9	554.1	668.4
82.5°	35.8	46.0	46.6	48.2	51.3	66.9	88.4	112.4	309.4	319.9	402.9
85°	18.1	21.8	23.4	26.0	28.8	40.9	50.3	69.7	199.3	150.8	225.2
87.5°	6.0	6.3	7.6	9.5	11.7	16.8	21.5	28.5	49.4	27.2	69.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0	1205.0
2.5°	1349.1	1376.0	1395.6	1413.7	1396.2	1394.7	1377.6	1350.0	1338.6	1338.6
5°	1428.6	1491.6	1542.6	1575.2	1561.3	1527.7	1472.3	1401.6	1363.7	1357.0
7.5°	1450.4	1574.9	1669.7	1703.2	1679.8	1605.6	1499.5	1380.4	1325.9	1314.0
10°	1437.1	1599.0	1738.0	1791.3	1758.6	1646.5	1501.8	1355.8	1288.6	1274.6
12.5°	1423.2	1602.2	1750.7	1827.7	1806.5	1679.5	1517.9	1339.6	1262.0	1242.0
15°	1433.4	1603.4	1735.2	1814.7	1828.3	1719.1	1544.5	1351.3	1256.6	1235.3
17.5°	1497.3	1627.5	1713.0	1777.3	1825.2	1772.9	1620.3	1407.4	1304.7	1278.4
20°	1631.0	1685.2	1725.7	1775.5	1852.4	1882.8	1775.1	1561.3	1440.0	1416.8
22.5°	2018.1	2008.2	1925.2	1924.3	2035.8	2157.8	2150.5	1874.3	1691.8	1672.8
25°	2163.1	2117.5	1997.5	1968.3	2017.5	2205.6	2178.4	1938.2	1769.7	1723.5
27.5°	2106.4	1993.4	1914.5	1907.9	1891.6	2069.4	2134.9	1964.2	1797.0	1752.0
30°	2103.0	1936.7	1823.9	1837.2	1852.7	2022.5	2159.0	2045.7	1866.7	1818.5
32.5°	2111.5	1944.6	1830.6	1833.1	1879.4	2029.5	2185.7	2134.3	1958.2	1910.1
35°	2146.0	1989.6	1873.0	1867.0	1939.2	2075.1	2230.9	2273.7	2083.3	2028.5
37.5°	2201.8	2079.2	1950.6	1949.0	2053.9	2157.5	2287.3	2414.3	2207.8	2148.9
40°	2283.9	2184.0	2088.7	2080.2	2209.7	2291.4	2360.5	2564.2	2352.6	2276.9
42.5°	2383.0	2309.8	2270.9	2304.8	2429.3	2441.9	2474.5	2702.6	2475.8	2387.8
45°	2474.8	2471.4	2525.5	2615.5	2688.0	2612.0	2593.6	2795.4	2571.5	2475.8
47.5°	2584.1	2678.5	2842.0	2973.8	3049.8	2810.0	2695.3	2855.9	2641.1	2553.0
50°	2695.0	2926.5	3187.5	3371.3	3387.4	3025.0	2765.3	2912.9	2704.5	2612.9
52.5°	2811.5	3124.5	3472.0	3685.5	3654.1	3212.3	2833.1	2951.6	2769.7	2689.3
55°	2912.9	3245.8	3631.0	3836.0	3790.0	3326.3	2906.3	2993.4	2862.9	2795.1
57.5°	2969.6	3255.9	3591.4	3770.4	3720.7	3304.1	2939.9	3024.4	2922.4	2869.2
58°	2977.8	3242.3	3556.2	3732.4	3681.7	3285.4	2939.5	3023.2	2926.2	2872.7
60°	2970.5	3154.0	3425.5	3582.2	3529.0	3168.3	2927.5	2999.4	2878.1	2832.8
62.5°	2903.1	3000.7	3199.6	3313.7	3298.4	2985.1	2878.1	2909.8	2731.4	2687.7
65°	2814.4	2791.6	2910.4	2991.1	3002.6	2848.0	2829.0	2715.9	2543.3	2481.5
67.5°	2706.7	2554.7	2554.4	2600.3	2619.3	2637.0	2726.6	2505.3	2272.1	2206.9
70°	2523.9	2189.4	2088.7	2142.9	2127.0	2276.9	2543.9	2209.4	1945.2	1868.9
72.5°	2188.8	1737.4	1576.2	1645.9	1605.9	1785.6	2225.8	1818.2	1608.5	1514.7
75°	1774.2	1299.7	1133.4	1197.4	1172.6	1354.4	1852.1	1320.6	1153.7	1117.8
77.5°	1377.6	941.7	845.1	836.2	854.6	1008.0	1358.6	891.7	760.5	736.2
80°	885.0	674.1	679.8	668.4	677.8	635.4	824.8	568.9	515.1	495.4
82.5°	582.6	469.7	560.0	516.9	490.9	427.3	541.1	372.5	316.1	305.4
85°	396.9	345.9	314.8	240.8	283.5	329.1	405.8	200.5	159.0	144.2
87.5°	179.3	120.3	88.4	54.5	86.1	99.4	197.0	23.4	18.1	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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