

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: P526519

Luminaire Tested: **GALN-SA1C-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3289 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

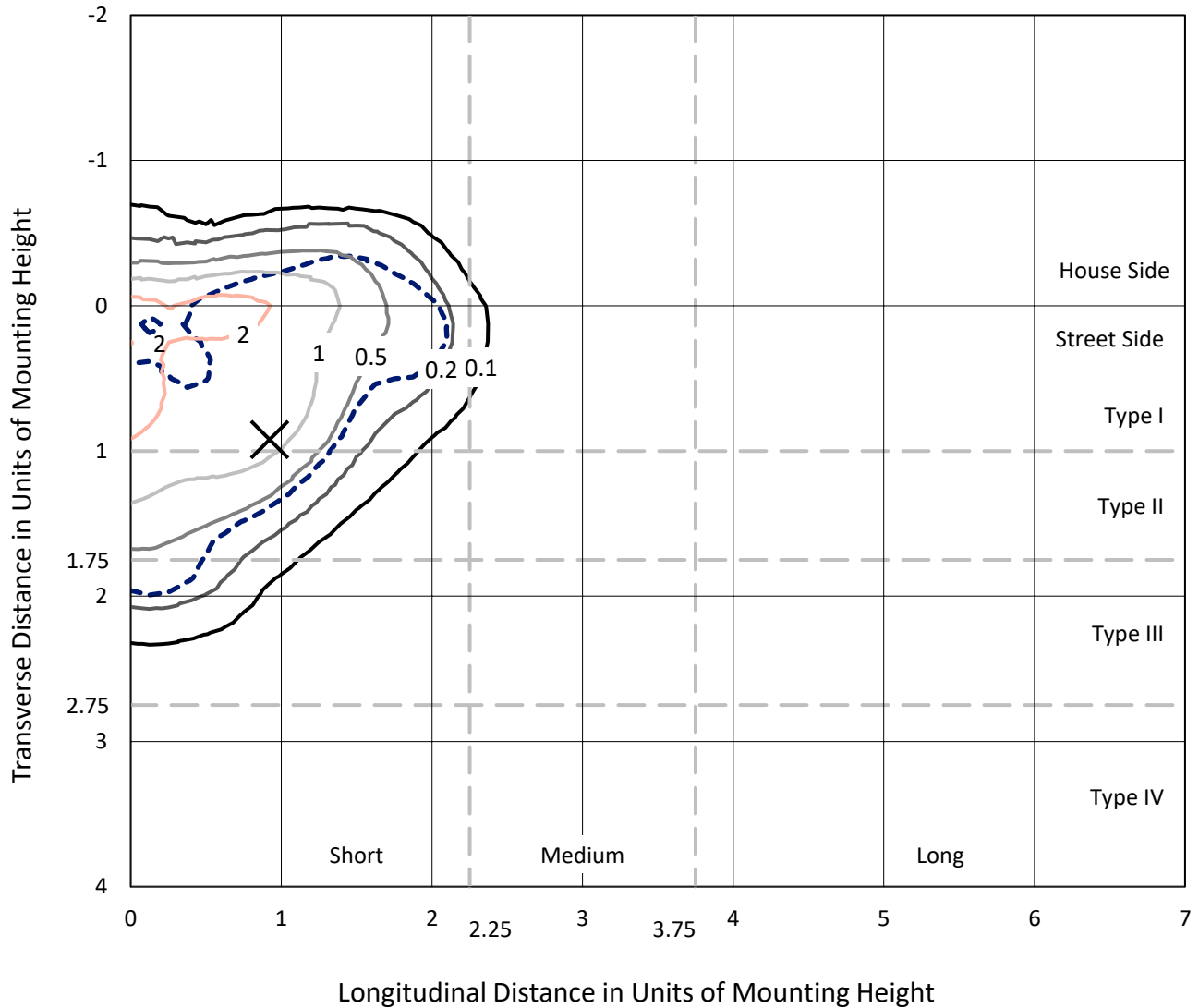
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

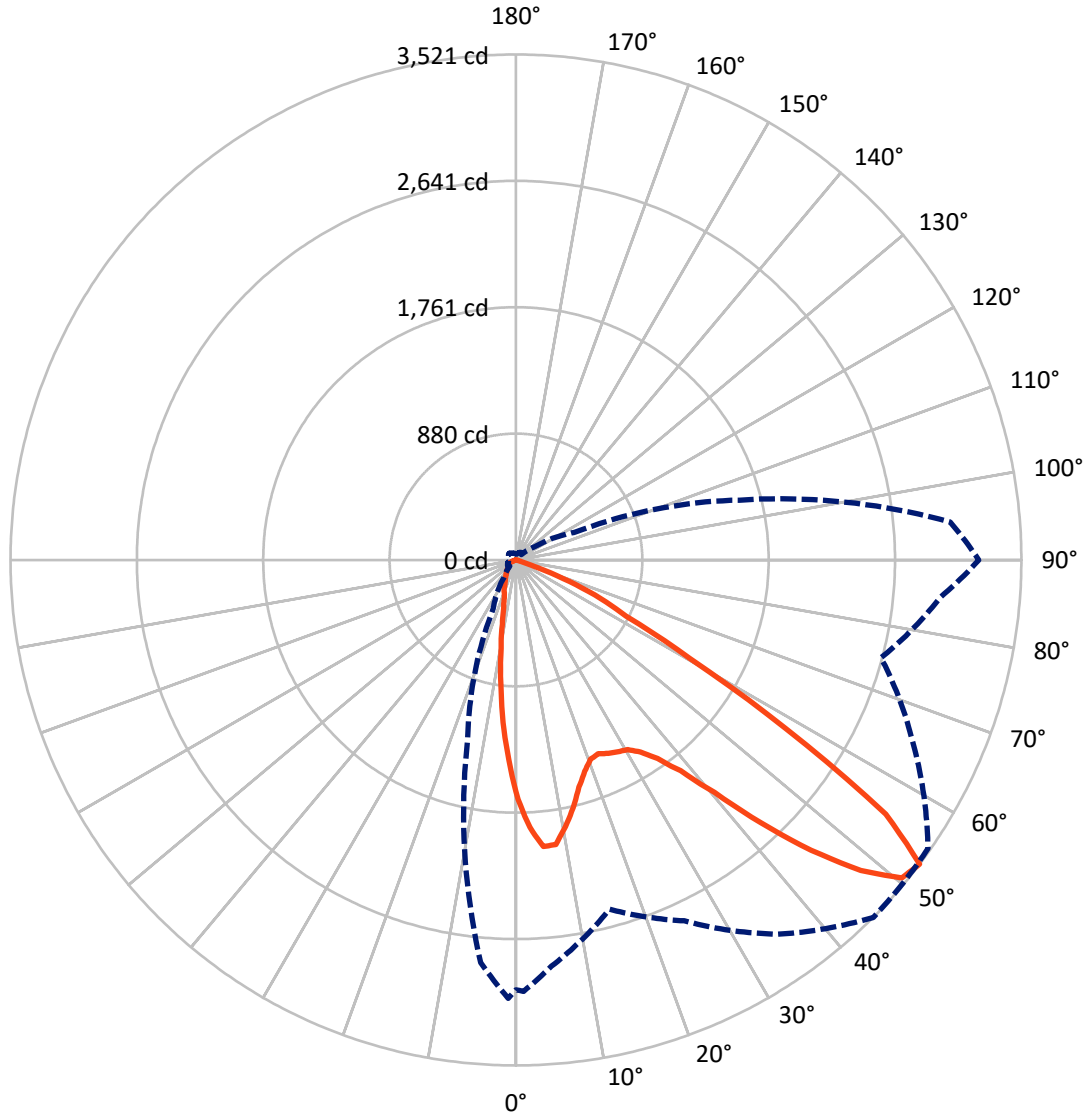
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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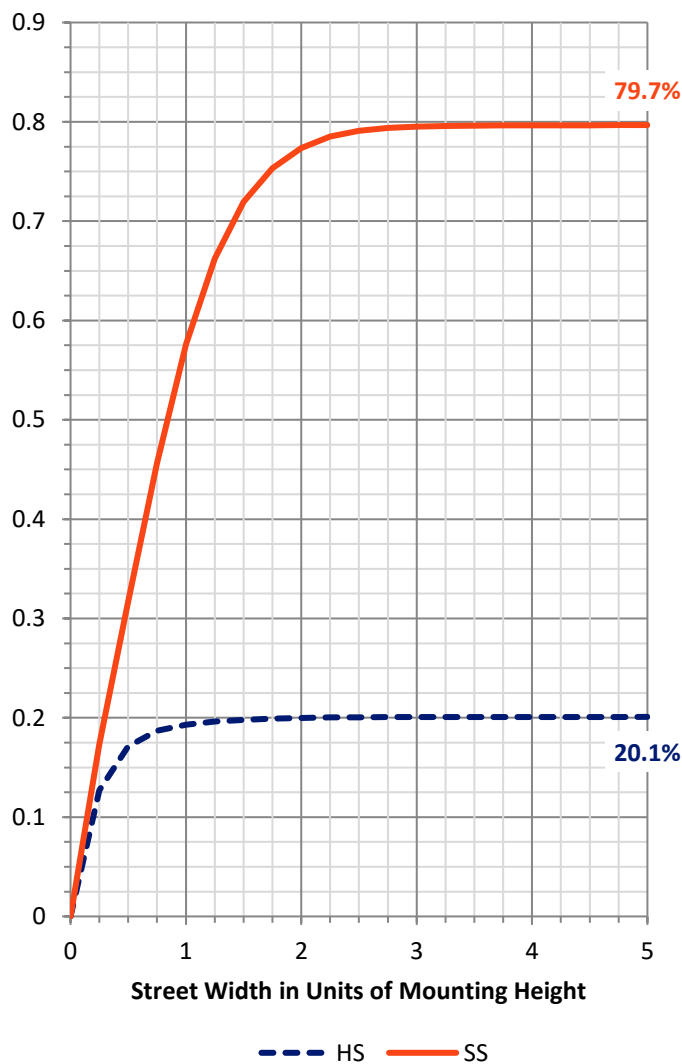
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.5	0.0	667.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2621.5	0.0	2621.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	3289.0	0.0	3289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.7
10°-20°	240.0	7.3
20°-30°	365.2	11.1
30°-40°	545.8	16.6
40°-50°	777.3	23.6
50°-60°	835.5	25.4
60°-70°	370.2	11.3
70°-80°	30.0	0.9
80°-90°	3.5	0.1
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°	3289.0	100.0
0°-180°	3289.0	100.0

Coefficient of Utilization

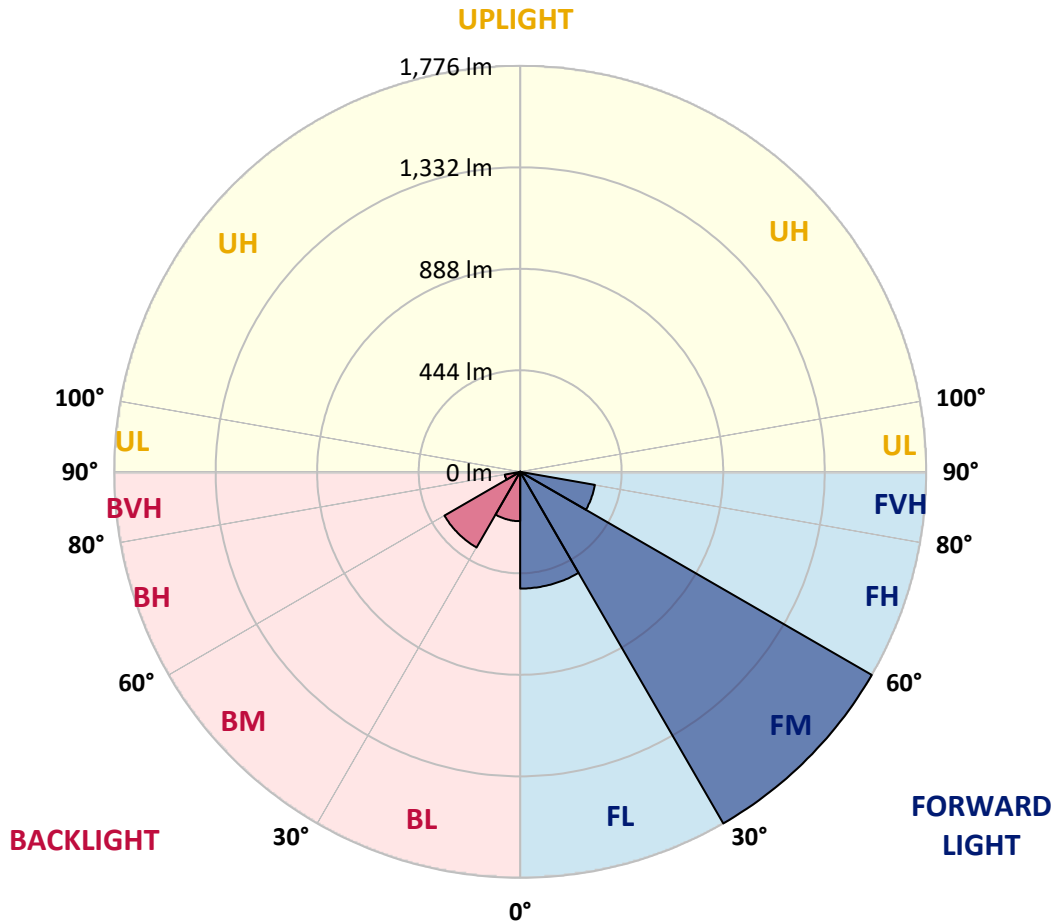


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.8	15.5			
FM (30°-60°)	1776.2	54.0			
FH (60°-80°)	331.9	10.1			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	215.9	6.6	B1/500		
BM (30°-60°)	382.4	11.6	B1/1000		
BH (60°-80°)	68.3	2.1	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7
2.5°	1764.7	1769.9	1798.3	1833.9	1852.7	1895.4	1865.6	1873.4	1857.2	1800.3	1755.7
5°	1711.0	1710.4	1746.6	1834.6	1918.0	2002.8	2005.4	1960.1	1880.5	1793.2	1668.3
7.5°	1549.3	1574.5	1612.0	1752.4	1907.0	1970.4	2000.8	1947.8	1825.5	1700.7	1565.5
10°	1427.0	1440.0	1503.4	1672.9	1786.1	1870.8	1889.6	1859.2	1765.4	1609.5	1458.1
12.5°	1356.5	1363.0	1437.4	1579.7	1699.4	1762.1	1771.2	1785.4	1718.1	1571.9	1390.2
15°	1357.2	1362.3	1462.6	1581.6	1628.9	1612.0	1641.8	1641.2	1670.3	1564.8	1447.1
17.5°	1454.8	1460.7	1551.2	1610.1	1589.4	1549.9	1548.0	1577.8	1639.2	1653.4	1533.1
20°	1623.0	1636.6	1703.3	1700.0	1583.6	1504.0	1482.0	1504.7	1647.6	1728.5	1706.5
22.5°	1849.5	1868.2	1914.8	1825.5	1610.1	1473.0	1465.8	1509.8	1703.3	1896.0	1903.1
25°	2112.1	2143.8	2166.4	2051.9	1704.5	1526.7	1493.0	1568.7	1778.3	2077.8	2153.5
27.5°	2286.1	2319.1	2313.9	2150.3	1767.9	1540.9	1512.4	1582.9	1843.6	2121.1	2284.2
30°	2421.9	2442.0	2478.2	2203.3	1831.3	1581.0	1532.5	1643.1	1865.0	2196.2	2442.0
32.5°	2580.4	2594.0	2596.6	2297.1	1929.0	1631.5	1594.6	1718.1	1959.4	2268.0	2581.7
35°	2740.2	2760.3	2718.2	2412.9	1989.2	1725.2	1698.1	1848.2	2035.1	2342.4	2735.7
37.5°	2913.6	2923.9	2826.9	2460.8	2075.2	1877.9	1863.0	1988.5	2166.4	2476.9	2906.5
40°	3059.1	3068.8	2942.7	2519.6	2165.8	2091.4	2129.6	2256.3	2345.0	2564.3	2991.9
42.5°	3140.0	3162.6	2981.5	2487.3	2347.6	2333.3	2502.8	2547.4	2552.0	2588.8	3068.2
45°	3162.0	3151.6	2917.5	2513.8	2506.7	2731.2	2885.1	2944.0	2757.7	2634.1	3087.6
47.5°	3060.4	3074.0	2823.0	2490.5	2715.6	3032.6	3231.8	3341.2	2911.0	2594.7	3039.7
50°	2978.3	2960.8	2792.6	2473.7	2771.9	3174.9	3482.2	3506.8	3052.0	2643.2	2987.3
52.5°	2994.4	3005.4	2841.1	2518.3	2773.2	3183.3	3521.0	3504.2	3056.5	2632.2	2968.6
55°	3028.7	2980.2	2820.4	2420.0	2587.5	2948.5	3125.1	3099.2	2821.1	2515.1	2922.6
57.5°	2613.4	2688.5	2593.4	2160.6	2123.7	2221.4	2218.2	2297.7	2104.3	2164.5	2660.6
60°	2121.1	2134.1	2169.7	1848.2	1469.7	1436.1	1389.5	1339.1	1416.0	1850.7	2420.0
62.5°	1865.6	1850.1	1976.9	1681.3	1037.6	868.8	861.0	892.1	1092.6	1765.4	2269.9
65°	1355.9	1375.3	1467.1	1304.8	778.9	663.1	651.4	743.3	884.3	1414.7	1732.4
67.5°	828.0	865.5	873.9	804.7	528.5	419.8	403.0	486.5	638.5	915.3	1015.6
70°	382.3	427.6	470.3	439.2	306.0	172.7	163.0	204.4	322.1	526.6	538.9
72.5°	115.8	116.4	163.0	170.1	99.0	38.8	34.3	45.3	109.3	174.0	183.1
75°	8.4	9.1	22.0	25.2	18.8	9.7	10.4	12.3	23.3	38.8	29.1
77.5°	0.6	0.6	0.6	3.2	5.8	6.5	8.4	9.7	12.3	14.2	12.9
80°	0.6	0.0	0.6	2.6	4.5	6.5	7.8	9.1	9.7	11.0	9.7
82.5°	0.0	0.0	0.0	1.9	4.5	6.5	7.1	9.7	11.0	12.9	11.0
85°	0.0	0.0	0.0	1.9	4.5	7.1	6.5	3.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7
2.5°	1763.4	1738.2	1680.6	1651.5	1582.9	1573.2	1506.0	1495.0	1472.3	1460.0	1430.3
5°	1613.3	1582.9	1489.1	1410.2	1318.4	1254.3	1205.2	1160.5	1134.6	1110.7	1121.7
7.5°	1491.1	1402.5	1298.3	1166.3	1060.2	991.7	916.6	855.2	819.0	794.4	800.2
10°	1363.0	1305.4	1160.5	1012.4	884.3	835.8	776.9	729.7	678.6	634.6	613.9
12.5°	1322.9	1237.5	1055.7	905.0	808.0	760.7	693.5	639.1	573.8	520.1	501.3
15°	1330.0	1247.8	1027.3	866.2	751.7	670.2	590.0	522.7	450.9	413.4	394.0
17.5°	1445.8	1303.5	1046.0	825.4	673.4	560.2	461.2	375.8	322.1	283.3	274.9
20°	1588.1	1423.8	1086.1	795.7	609.4	445.7	337.0	263.3	218.6	212.2	210.2
22.5°	1796.4	1620.5	1172.2	775.6	531.1	347.4	230.9	191.5	179.2	177.9	178.5
25°	2087.5	1866.9	1266.0	758.8	472.2	267.8	188.9	162.4	158.5	156.5	159.8
27.5°	2213.6	2015.7	1315.8	722.6	418.5	241.3	186.3	161.1	150.1	146.8	148.8
30°	2369.5	2114.7	1394.0	660.5	339.6	198.6	174.0	175.3	170.1	154.0	148.8
32.5°	2576.6	2238.2	1433.5	616.5	303.4	164.3	127.4	117.1	130.7	133.3	137.8
35°	2709.2	2363.7	1453.6	590.6	284.6	140.4	108.0	98.3	95.1	95.7	98.3
37.5°	2955.6	2533.2	1478.8	563.4	270.4	122.3	97.7	88.6	84.1	84.1	86.7
40°	3103.1	2667.8	1513.1	548.6	256.2	111.3	88.6	80.9	77.0	77.0	78.3
42.5°	3140.0	2734.4	1501.4	543.4	240.0	108.7	80.9	75.0	70.5	69.9	69.2
45°	3206.0	2836.0	1503.4	537.6	223.2	99.0	76.3	69.9	63.4	62.7	62.1
47.5°	3278.4	2909.1	1507.2	514.9	207.0	82.8	79.6	64.7	56.9	55.6	55.6
50°	3216.3	2967.3	1540.9	492.3	186.3	67.3	78.3	60.8	50.5	48.5	49.2
52.5°	3224.1	3035.8	1612.0	460.6	160.4	53.7	63.4	57.6	45.9	42.7	43.3
55°	3099.9	2963.4	1621.7	426.9	125.5	41.4	48.5	50.5	38.8	37.5	37.5
57.5°	2668.4	2509.3	1430.9	346.1	82.8	34.3	34.9	44.0	33.6	32.3	33.0
60°	2283.5	2014.4	1151.5	228.4	51.8	27.2	25.2	44.6	29.8	29.1	31.1
62.5°	2081.7	1655.4	873.3	141.7	35.6	20.7	17.5	36.2	25.9	25.9	28.5
65°	1504.0	1112.0	507.8	74.4	25.2	16.2	12.9	20.7	21.3	22.0	23.3
67.5°	931.5	561.5	214.1	36.2	16.8	11.0	8.4	12.9	14.2	14.2	15.5
70°	459.9	223.8	71.2	20.7	12.9	9.1	5.8	7.1	7.1	6.5	7.1
72.5°	142.3	67.3	18.1	12.9	9.1	5.8	3.2	2.6	1.3	0.0	0.6
75°	16.2	12.9	11.6	9.1	5.8	2.6	0.6	0.0	0.0	0.0	0.0
77.5°	9.7	11.0	11.0	9.1	5.8	1.9	0.0	0.0	0.0	0.0	0.0
80°	7.8	8.4	9.1	8.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	9.7	11.0	12.3	11.0	7.1	3.2	1.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.9	0.6	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7
2.5°	1418.0	1403.7	1423.8	1394.0	1393.4	1394.0	1385.6	1377.9	1390.2	1423.2	1426.4
5°	1082.2	1112.6	1122.3	1154.0	1136.6	1110.7	1115.9	1098.4	1141.1	1159.9	1145.0
7.5°	787.9	786.0	851.3	855.2	863.6	864.2	862.9	828.7	793.7	801.5	824.8
10°	611.3	578.3	610.0	606.8	627.5	621.7	630.1	593.2	605.5	605.5	620.4
12.5°	498.1	463.2	457.3	448.9	457.3	460.6	463.8	456.7	477.4	487.1	497.5
15°	380.4	361.0	355.8	339.6	342.2	351.3	359.0	362.3	355.8	370.7	372.0
17.5°	276.2	275.6	278.8	278.2	275.6	273.6	273.0	264.6	262.0	263.3	268.5
20°	209.6	214.8	225.8	236.8	242.6	235.5	225.8	211.5	205.7	207.0	207.7
22.5°	179.2	187.0	201.8	214.1	219.9	207.0	189.5	177.2	174.7	174.0	173.4
25°	162.4	171.4	182.4	186.3	185.7	177.9	165.0	159.8	158.5	157.2	151.4
27.5°	153.3	156.5	158.5	163.0	165.0	159.8	156.5	148.8	147.5	147.5	143.6
30°	148.1	146.2	148.8	145.5	148.1	144.3	144.9	144.9	141.7	143.0	143.0
32.5°	137.8	138.4	138.4	132.0	133.9	129.4	133.9	137.8	138.4	139.1	144.3
35°	100.9	112.6	118.4	118.4	120.3	117.1	116.4	111.9	106.1	100.3	97.7
37.5°	88.6	93.2	100.9	105.4	108.7	106.1	100.3	93.2	89.9	87.3	84.7
40°	78.9	82.8	88.0	93.2	99.6	96.4	87.3	84.1	80.2	80.2	77.6
42.5°	71.2	73.1	76.3	84.1	91.2	84.7	78.3	75.7	73.7	73.1	72.5
45°	64.0	64.7	67.9	74.4	82.8	76.3	69.9	66.6	67.3	67.9	67.3
47.5°	57.6	58.9	60.8	68.6	73.7	70.5	63.4	61.5	61.5	61.5	62.1
50°	49.8	53.0	56.9	63.4	67.3	65.3	59.5	56.9	55.6	55.6	56.3
52.5°	44.6	47.2	52.4	60.2	65.3	62.1	56.3	52.4	49.8	49.2	50.5
55°	38.8	43.3	51.8	57.6	64.7	61.5	55.0	50.5	45.9	45.3	45.3
57.5°	34.9	42.0	49.8	56.9	62.7	60.2	55.0	49.2	43.3	42.7	42.7
60°	33.0	40.8	48.5	55.0	62.7	58.9	54.3	47.9	41.4	41.4	40.8
62.5°	31.1	38.2	45.9	52.4	60.2	56.9	52.4	45.9	39.5	39.5	38.2
65°	25.9	33.0	38.2	44.0	52.4	49.2	44.6	40.1	34.9	33.6	34.3
67.5°	18.1	22.6	27.8	33.6	38.8	37.5	35.6	32.3	27.8	27.2	26.5
70°	9.1	12.3	16.8	22.6	27.2	25.9	24.6	22.0	19.4	18.8	18.8
72.5°	1.3	3.9	7.1	10.4	14.2	14.9	14.2	13.6	12.9	12.3	12.9
75°	0.0	0.0	0.0	2.6	5.8	7.1	8.4	9.7	9.7	8.4	10.4
77.5°	0.0	0.0	0.0	0.0	0.6	3.2	6.5	8.4	10.4	9.1	12.3
80°	0.0	0.0	0.0	0.0	0.6	3.9	6.5	9.1	10.4	9.1	12.9
82.5°	0.0	0.0	0.0	0.0	0.6	4.5	6.5	8.4	9.7	9.1	11.6
85°	0.0	0.0	0.0	0.0	1.9	3.9	2.6	1.3	0.6	0.6	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7	1667.7
2.5°	1444.5	1490.4	1539.6	1558.4	1616.6	1660.6	1690.3	1754.4	1764.1	1764.7
5°	1160.5	1183.8	1267.9	1307.4	1394.0	1461.3	1533.1	1636.6	1705.8	1711.0
7.5°	824.8	889.5	925.0	1027.9	1134.6	1240.1	1346.8	1467.1	1547.4	1549.3
10°	663.7	705.8	769.1	846.1	936.0	1043.4	1185.7	1325.5	1407.0	1427.0
12.5°	534.3	608.1	680.5	760.1	828.7	909.5	1062.8	1249.1	1316.4	1356.5
15°	411.4	478.7	564.1	657.2	734.9	842.9	1017.6	1230.4	1343.6	1357.2
17.5°	303.4	363.6	442.5	530.4	646.9	800.2	1025.3	1325.5	1432.2	1454.8
20°	218.0	252.9	315.0	417.2	565.4	750.4	1033.1	1421.9	1584.2	1623.0
22.5°	172.7	187.0	227.7	318.3	474.2	698.0	1088.1	1606.2	1793.2	1849.5
25°	150.1	157.8	177.2	251.0	416.6	692.8	1176.0	1827.5	2071.3	2112.1
27.5°	144.9	146.2	163.0	230.3	385.5	658.5	1209.7	1984.7	2244.7	2286.1
30°	152.7	173.4	174.7	194.7	328.0	590.6	1227.1	2136.7	2391.5	2421.9
32.5°	132.0	125.5	130.0	150.7	288.5	551.1	1260.1	2269.3	2559.1	2580.4
35°	91.9	96.4	106.7	130.7	252.3	509.7	1268.5	2415.5	2718.2	2740.2
37.5°	84.7	87.3	95.7	111.3	221.9	486.5	1256.9	2522.2	2883.2	2913.6
40°	78.9	82.2	86.7	100.9	199.2	460.6	1240.7	2618.6	2984.1	3059.1
42.5°	74.4	77.0	80.9	96.4	179.8	434.7	1218.1	2754.4	3074.7	3140.0
45°	69.2	73.1	77.6	93.8	168.8	417.2	1201.3	2746.0	3127.1	3162.0
47.5°	64.0	70.5	75.7	87.3	165.6	408.8	1208.4	2714.3	3084.4	3060.4
50°	58.9	67.3	76.3	72.5	157.8	392.0	1216.8	2757.7	2982.8	2978.3
52.5°	54.3	64.0	71.2	59.5	140.4	375.8	1298.3	2814.6	3054.6	2994.4
55°	47.9	57.6	56.9	47.9	113.9	363.6	1362.3	2815.9	3006.1	3028.7
57.5°	43.3	51.1	44.6	40.1	84.1	304.0	1258.2	2361.1	2573.3	2613.4
60°	40.1	49.8	33.6	31.7	55.0	219.3	1098.4	1828.8	2045.5	2121.1
62.5°	36.9	47.2	26.5	25.9	38.2	155.9	903.1	1530.5	1762.8	1865.6
65°	32.3	33.6	21.3	20.1	27.2	84.1	549.9	1053.8	1317.7	1355.9
67.5°	26.5	25.9	17.5	16.2	18.1	40.8	242.6	527.9	764.0	828.0
70°	21.3	21.3	14.9	12.9	12.9	18.8	63.4	210.2	345.4	382.3
72.5°	15.5	16.2	11.6	10.4	9.7	9.1	10.4	42.0	90.6	115.8
75°	13.6	14.2	11.6	9.1	7.1	5.8	4.5	3.9	5.2	8.4
77.5°	14.9	14.9	12.3	8.4	6.5	4.5	2.6	1.3	1.3	0.6
80°	18.8	19.4	16.2	11.0	7.8	5.2	3.2	1.3	0.6	0.6
82.5°	20.1	22.0	18.1	13.6	9.7	5.8	3.2	0.6	0.0	0.0
85°	5.2	8.4	14.2	12.3	9.7	5.8	3.2	0.6	0.0	0.0
87.5°	0.0	0.6	1.9	1.9	2.6	2.6	1.9	0.6	0.0	0.0
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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