

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: P647723

Luminaire Tested: **GALN-SA1A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.9 lumens
Efficiency: N/A
Efficacy: 60.7 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

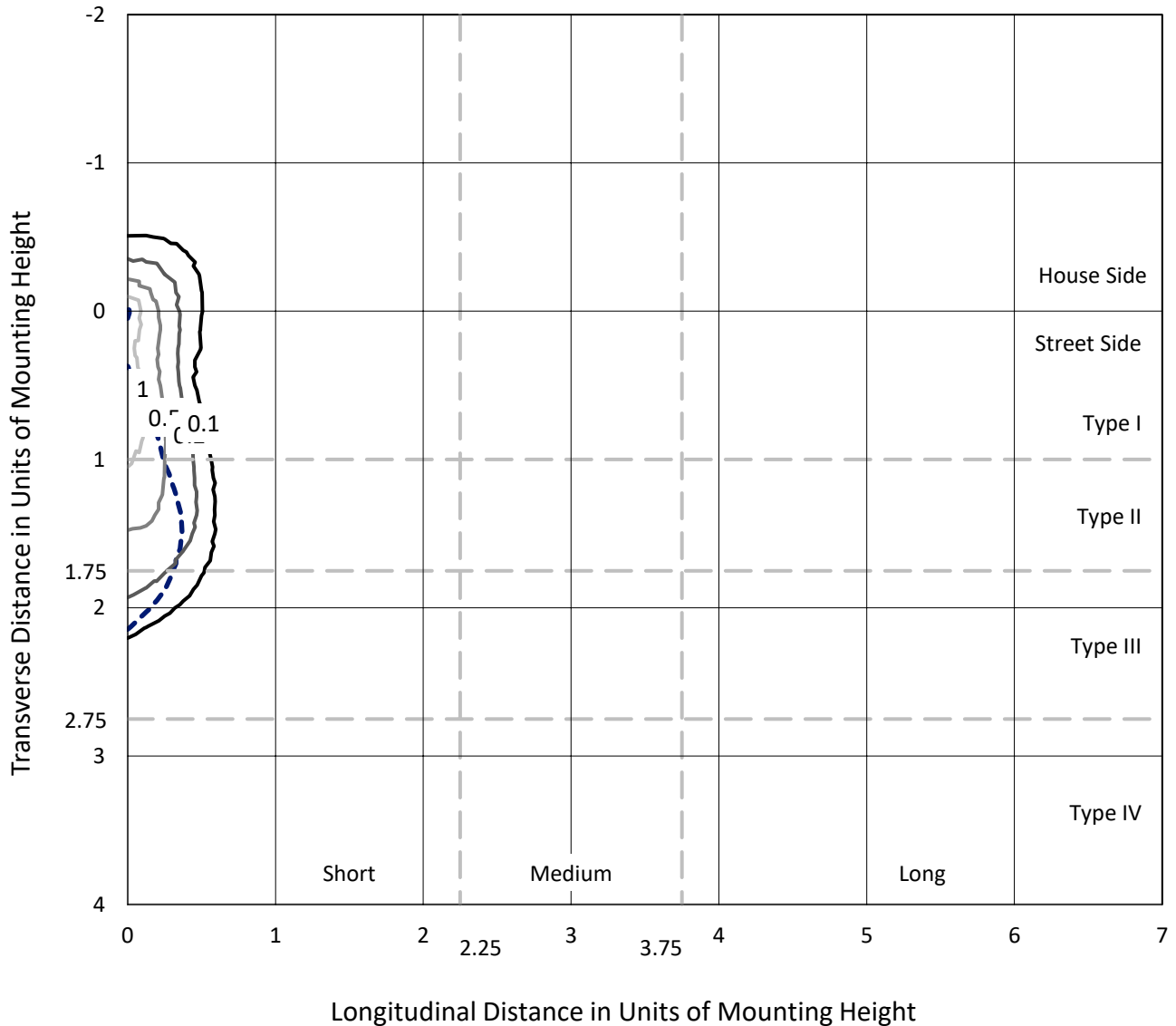
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

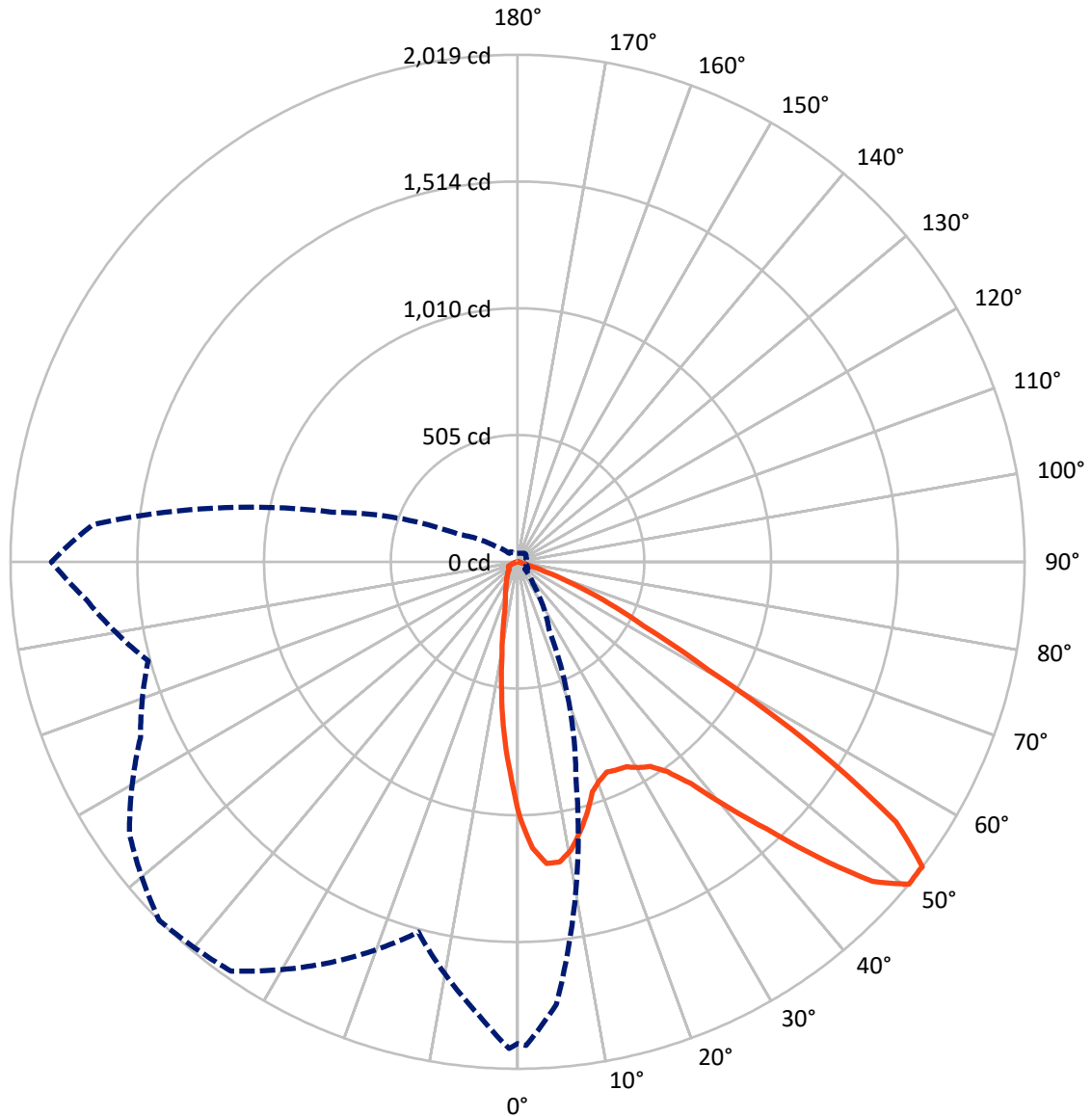
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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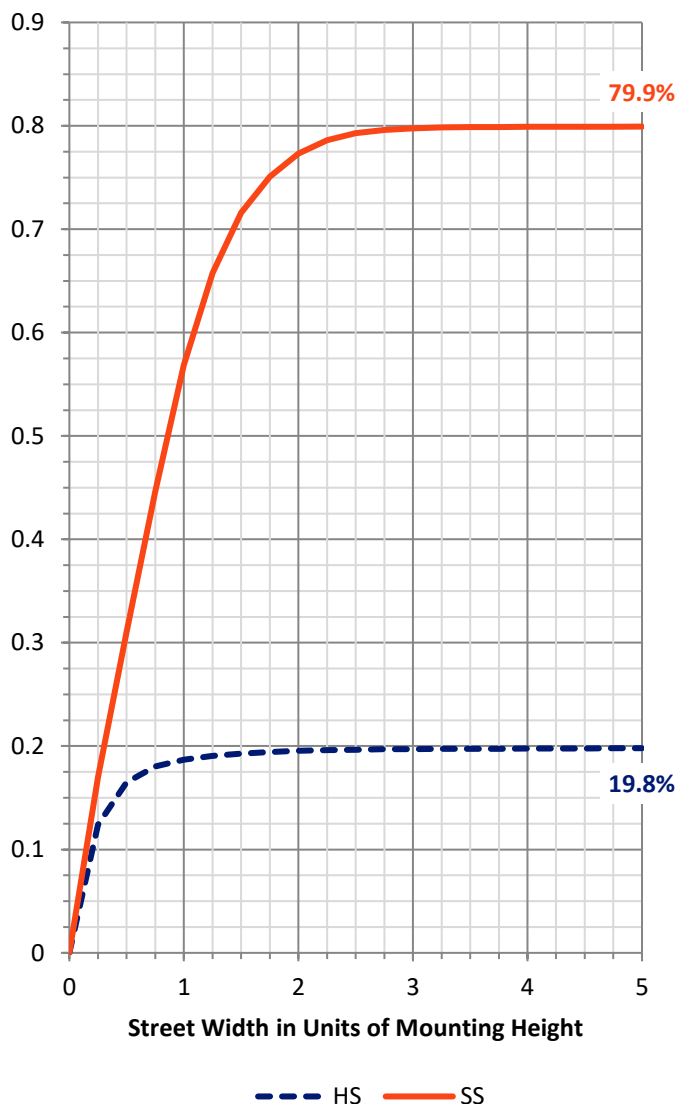
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	401.2	0.0	401.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	1601.7	0.0	1601.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	2002.9	0.0	2002.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	3.7
10°-20°	147.1	7.3
20°-30°	221.1	11.0
30°-40°	331.8	16.6
40°-50°	466.3	23.3
50°-60°	503.0	25.1
60°-70°	233.5	11.7
70°-80°	22.0	1.1
80°-90°	4.1	0.2
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°	2002.9	100.0
0°-180°	2002.9	100.0

Coefficient of Utilization

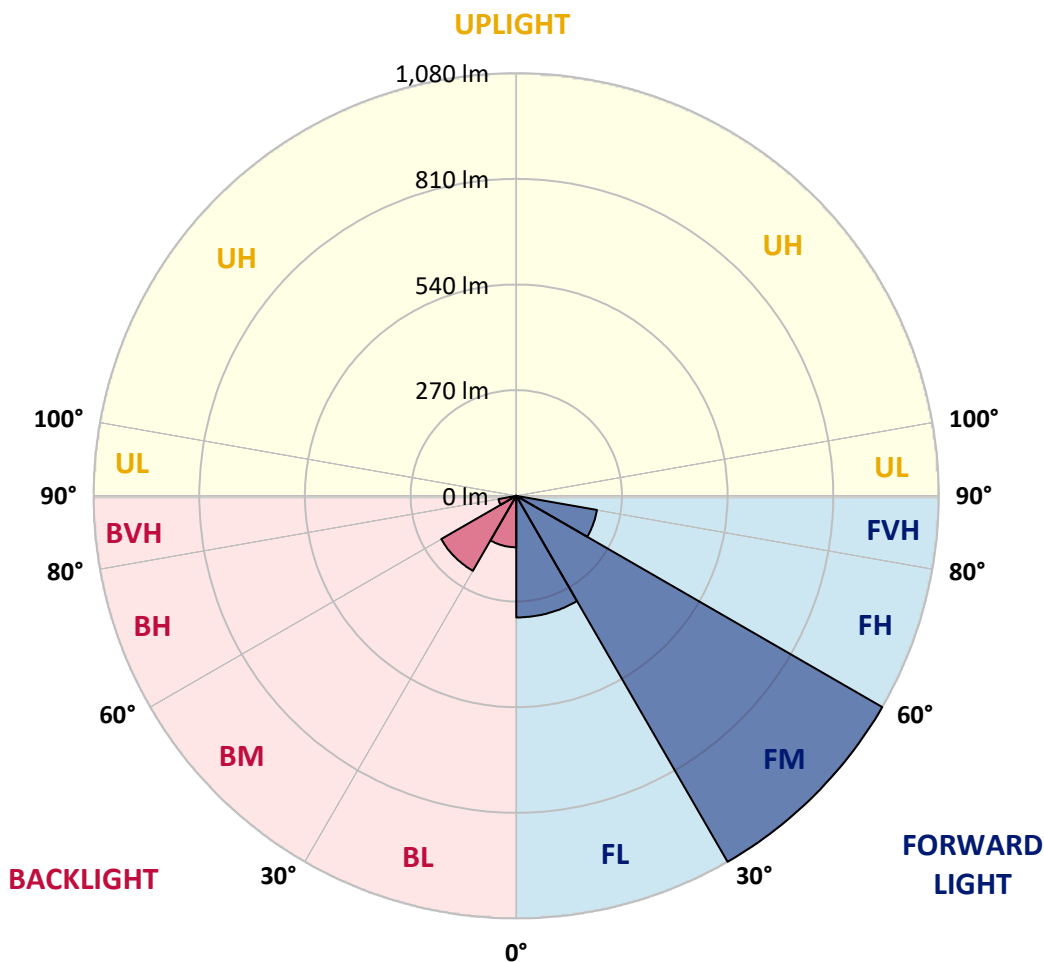


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.7	15.5			
FM (30°-60°)	1079.7	53.9			
FH (60°-80°)	209.4	10.5			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	131.5	6.6	B1/500		
BM (30°-60°)	221.4	11.1	B1/1000		
BH (60°-80°)	46.1	2.3	B0/110		G0/110
BVH (80°-90°)	2.2	0.1			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°	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7
2.5°	1055.9	1039.6	1018.9	1001.8	976.4	925.1	911.2	894.5	880.6	861.9	835.7
5°	960.1	954.9	945.4	881.0	834.5	772.5	721.7	700.2	672.0	649.0	632.3
7.5°	887.0	866.3	836.1	771.3	697.0	630.6	574.3	541.2	503.9	491.2	468.5
10°	808.7	813.5	769.0	677.9	588.1	534.5	499.6	467.8	433.9	411.7	379.5
12.5°	783.6	768.1	734.0	621.5	544.8	494.8	452.3	412.9	377.1	341.4	310.4
15°	799.9	776.1	728.4	609.6	511.5	449.1	395.8	342.6	309.6	263.9	231.7
17.5°	858.3	839.3	775.3	622.3	494.4	405.4	326.3	271.4	221.0	179.6	163.3
20°	955.7	928.7	848.5	638.6	468.9	352.5	264.7	197.1	149.4	131.9	122.8
22.5°	1051.1	1036.4	935.1	670.0	446.2	305.6	198.7	132.7	111.7	108.5	102.5
25°	1232.7	1188.6	1067.4	726.9	428.8	261.5	149.8	106.9	94.6	92.2	93.0
27.5°	1340.8	1303.9	1189.8	764.6	409.3	227.7	126.8	98.2	89.8	84.6	82.7
30°	1444.5	1401.6	1250.6	786.8	367.6	191.9	112.4	94.2	92.2	84.6	82.3
32.5°	1524.4	1482.3	1338.4	820.2	350.5	168.9	92.6	73.5	68.4	67.6	74.7
35°	1646.8	1601.9	1413.5	838.5	337.4	157.0	80.3	65.5	59.6	57.2	57.6
37.5°	1760.8	1730.3	1483.1	845.6	323.5	153.4	72.0	58.8	53.6	52.1	51.7
40°	1856.2	1787.8	1549.0	853.2	317.5	146.7	66.8	53.6	50.0	47.7	47.7
42.5°	1899.9	1830.4	1622.9	848.9	315.9	135.9	66.8	49.3	46.5	44.1	43.7
45°	1890.4	1862.2	1655.9	846.8	315.9	125.2	60.8	48.1	44.1	41.0	40.2
47.5°	1915.1	1878.1	1697.2	855.2	309.6	117.6	51.3	50.5	41.7	37.7	37.0
50°	1919.4	1926.6	1769.2	898.5	295.7	108.1	40.2	49.6	40.2	34.1	33.4
52°	1948.0	1903.5	1791.0	921.5	280.9	100.9	33.7	42.5	38.5	31.8	31.0
52.5°	1908.6	1937.7	1796.2	929.9	282.5	96.2	32.6	41.7	37.7	31.8	29.8
55°	1864.6	1892.4	1775.1	947.7	259.1	75.5	25.4	30.2	34.1	27.8	26.6
57.5°	1620.6	1648.8	1542.7	867.9	211.0	53.2	21.1	22.6	30.2	25.8	24.7
60°	1440.6	1420.3	1294.7	724.0	149.8	29.8	16.7	17.5	33.0	23.9	23.4
62.5°	1316.5	1273.2	1082.1	559.1	91.4	19.9	13.1	13.5	25.4	22.2	22.2
65°	974.0	925.5	718.9	338.2	44.9	13.9	9.9	10.7	15.9	19.1	19.1
67.5°	555.9	537.3	347.3	152.6	18.7	8.8	7.5	8.4	12.3	15.5	14.7
70°	255.5	229.3	133.5	32.2	8.8	6.0	6.0	6.7	9.9	11.5	10.7
72.5°	74.7	70.7	32.6	5.2	3.6	3.6	4.0	5.2	7.5	8.8	8.0
75°	5.6	3.6	2.3	1.6	1.6	2.3	3.2	5.2	7.5	8.4	6.7
77.5°	0.4	0.8	0.4	0.4	1.2	2.3	3.6	6.3	9.9	10.3	7.5
80°	0.4	0.4	0.0	0.4	1.2	2.3	4.0	7.1	11.1	11.9	6.3
82.5°	0.0	0.0	0.0	0.4	1.6	3.2	4.8	7.5	10.3	12.7	6.7
85°	0.0	0.0	0.0	0.4	2.3	4.4	5.6	2.0	1.2	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°	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7
2.5°	854.4	844.1	840.1	843.7	842.4	841.3	863.1	858.3	857.5	864.7	863.1
5°	641.4	623.1	673.1	652.9	674.0	686.7	689.0	690.3	704.9	689.5	709.7
7.5°	457.0	461.7	461.3	474.9	499.1	520.6	533.3	523.4	522.6	520.6	511.8
10°	365.2	356.9	355.2	352.1	359.6	378.0	393.4	381.1	372.3	384.3	380.7
12.5°	298.4	286.9	280.5	267.9	268.3	280.5	280.5	280.5	289.3	296.1	301.2
15°	228.9	219.4	219.4	206.6	203.9	204.3	210.6	211.4	225.3	229.3	231.3
17.5°	160.1	155.0	160.9	166.1	162.9	163.7	166.1	166.9	168.9	167.3	171.2
20°	123.2	122.4	123.9	133.1	139.8	143.8	141.1	137.1	134.8	129.1	129.1
22.5°	104.5	106.1	108.9	116.4	125.2	127.6	124.4	115.3	108.1	107.3	107.7
25°	93.0	94.6	99.0	103.7	108.5	112.4	109.3	102.5	98.6	95.0	95.0
27.5°	85.8	86.6	89.0	92.6	96.5	99.8	98.6	95.0	90.6	89.0	85.4
30°	80.3	81.4	84.3	85.0	88.6	90.2	88.2	87.5	84.6	82.7	81.4
32.5°	77.5	77.1	79.1	79.9	80.3	81.4	79.1	80.3	79.9	76.7	75.5
35°	58.4	61.6	66.8	71.1	72.3	73.9	73.5	72.0	67.6	64.0	59.6
37.5°	52.5	54.4	57.2	60.8	65.5	67.6	66.8	62.8	57.6	55.2	54.4
40°	48.5	49.6	52.1	54.4	59.2	62.8	60.0	56.5	52.5	50.5	49.3
42.5°	44.9	45.3	46.5	48.9	52.5	58.0	53.2	48.5	46.9	45.7	44.9
45°	41.0	41.0	42.5	43.7	47.7	52.9	48.1	43.7	42.9	42.1	41.7
47.5°	37.7	38.1	38.9	40.6	43.7	47.3	44.1	40.6	38.5	38.1	37.3
50°	33.7	34.1	35.8	37.3	41.3	43.3	41.3	37.3	35.4	34.1	34.1
52°	30.6	31.8	33.4	36.6	39.3	42.5	40.2	35.8	33.4	32.2	31.4
52.5°	30.2	31.0	32.6	36.2	39.3	42.1	39.8	35.4	32.6	31.8	31.0
55°	27.0	28.2	31.0	35.4	38.9	42.1	38.9	35.0	31.0	29.0	28.2
57.5°	25.8	26.6	30.2	35.8	38.5	42.1	38.9	35.0	31.0	27.4	26.6
60°	24.7	26.2	30.2	34.6	38.1	42.5	39.3	34.6	30.2	25.8	25.8
62.5°	23.4	24.7	29.8	33.7	36.6	41.0	37.7	33.7	29.0	24.7	24.3
65°	20.3	22.2	26.2	28.2	31.4	35.4	32.2	29.4	25.4	21.8	21.5
67.5°	15.5	16.3	19.5	21.8	23.9	27.4	25.8	22.2	19.5	16.7	16.7
70°	10.7	11.5	13.9	15.1	17.1	19.1	17.9	15.1	13.1	11.5	11.1
72.5°	7.5	8.0	8.8	9.6	10.3	11.1	10.7	8.8	7.5	7.1	6.7
75°	6.0	6.7	7.1	6.7	6.3	6.0	6.0	5.2	4.4	4.0	4.0
77.5°	6.0	6.3	6.0	5.2	4.4	4.0	3.6	3.2	2.3	2.0	2.3
80°	5.2	5.2	5.2	4.4	4.0	3.6	3.2	2.8	2.3	2.0	2.0
82.5°	5.6	5.6	5.2	4.4	4.4	3.6	3.6	3.2	2.8	2.0	2.0
85°	0.0	0.0	0.0	0.8	2.0	3.6	3.6	3.2	2.8	2.3	2.3
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	1.6	2.0	2.3	2.3	2.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7
2.5°	877.4	892.5	921.1	949.8	967.2	987.9	1025.3	1045.1	1071.0	1083.7	1108.7
5°	707.0	742.8	755.4	788.0	823.0	857.9	913.6	974.8	1025.7	1060.7	1105.9
7.5°	515.8	524.1	573.5	595.3	652.6	716.1	792.0	869.1	933.5	990.7	1025.3
10°	386.6	417.3	448.3	490.0	536.0	601.7	674.4	759.4	842.9	900.1	943.8
12.5°	310.8	335.0	376.3	421.3	478.1	521.4	594.5	678.7	786.8	842.9	900.4
15°	235.3	266.2	313.1	359.6	419.6	465.3	539.3	645.3	784.5	861.5	911.2
17.5°	174.5	195.5	237.6	289.7	350.9	415.3	515.0	641.7	811.1	902.9	954.2
20°	133.5	140.7	167.3	213.8	280.2	364.4	475.7	657.3	889.7	1003.4	1055.5
22.5°	108.1	111.3	121.6	153.8	218.1	319.9	457.0	668.0	978.4	1123.8	1193.4
25°	94.2	93.4	100.1	114.1	170.5	278.2	433.2	708.5	1086.9	1265.3	1327.7
27.5°	85.8	85.8	89.0	99.0	141.5	251.2	418.0	737.6	1196.1	1389.7	1423.4
30°	81.4	82.3	91.4	94.6	117.6	218.9	393.0	766.9	1300.6	1469.1	1515.7
32.5°	75.5	72.3	70.3	78.3	99.0	190.0	368.0	779.3	1385.3	1566.5	1606.2
35°	58.0	56.5	58.8	64.8	85.0	165.3	340.1	793.2	1482.7	1679.4	1687.3
37.5°	52.5	52.1	53.6	58.8	71.6	143.8	320.3	789.6	1557.0	1772.8	1751.3
40°	48.5	48.5	49.6	54.0	64.0	128.7	299.7	786.4	1628.9	1877.6	1814.9
42.5°	45.3	45.3	47.3	50.0	60.8	118.8	284.2	782.1	1689.3	1942.1	1852.3
45°	41.0	42.1	45.3	48.1	61.6	112.0	272.6	765.4	1710.0	1941.2	1834.3
47.5°	37.7	39.3	42.5	46.5	55.7	110.1	264.7	750.7	1702.8	1893.5	1778.3
50°	34.1	36.2	40.6	47.3	47.3	106.1	256.4	763.8	1697.6	1856.6	1724.6
52°	31.8	33.4	38.9	46.1	41.3	97.8	251.2	789.2	1718.7	1851.9	1700.8
52.5°	31.4	32.6	37.7	45.3	39.3	96.2	247.6	795.2	1725.5	1839.9	1717.1
55°	27.8	29.4	34.6	35.4	32.2	79.1	236.1	808.7	1692.1	1816.5	1701.6
57.5°	26.2	27.0	30.6	29.0	27.8	59.6	203.0	787.6	1503.0	1613.4	1583.2
60°	24.3	25.1	28.6	22.6	23.4	41.7	152.6	683.9	1206.8	1344.3	1398.8
62.5°	23.4	23.0	27.0	18.2	19.9	30.2	107.7	555.9	929.9	1106.8	1200.9
65°	20.7	20.3	19.5	15.5	17.1	23.4	64.4	362.8	655.3	837.3	888.9
67.5°	15.9	16.7	14.3	12.3	14.3	18.2	35.8	162.6	343.7	502.3	544.0
70°	11.1	11.9	11.5	10.7	12.7	15.1	20.7	55.7	142.3	263.9	290.9
72.5°	6.7	8.4	8.8	9.2	11.1	13.1	14.7	17.9	37.7	93.4	116.0
75°	4.0	5.6	6.7	8.0	9.2	11.1	12.3	12.7	13.1	17.5	28.2
77.5°	2.8	4.0	6.0	7.5	9.2	11.1	13.1	13.9	13.1	12.3	13.1
80°	2.3	4.0	5.6	7.1	9.6	11.5	13.1	13.1	12.7	11.1	11.9
82.5°	2.3	4.0	6.0	7.5	9.2	11.1	12.7	13.1	11.9	11.1	11.5
85°	2.8	4.4	6.3	8.0	9.9	9.2	8.4	6.7	6.3	5.2	5.6
87.5°	2.8	4.0	4.0	4.4	4.8	4.8	4.8	4.4	3.6	3.2	3.2
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°	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7	1015.7
2.5°	1109.9	1141.7	1140.5	1141.3	1136.5	1104.3	1088.8	1049.5	1060.7	1055.9
5°	1152.4	1183.8	1210.8	1207.7	1171.1	1127.4	1062.6	1001.5	984.7	960.1
7.5°	1109.9	1185.4	1210.4	1206.8	1152.8	1096.8	993.5	932.2	903.3	887.0
10°	1042.3	1129.8	1160.8	1167.1	1130.6	1045.5	950.6	852.4	836.9	808.7
12.5°	1003.8	1067.4	1086.5	1103.6	1090.9	1027.2	918.0	823.8	802.3	783.6
15°	972.4	1010.1	1018.1	1037.6	1045.1	1010.9	935.1	854.8	801.9	799.9
17.5°	1001.5	986.0	956.9	962.9	986.7	1011.3	979.1	916.0	864.7	858.3
20°	1049.5	981.2	915.6	930.3	950.2	1025.7	1045.9	1001.5	972.0	955.7
22.5°	1104.7	989.5	902.5	909.6	947.4	1057.8	1154.0	1129.4	1074.5	1051.1
25°	1206.8	1012.6	912.8	917.6	969.2	1102.8	1251.8	1270.0	1237.5	1232.7
27.5°	1306.6	1072.2	935.5	924.7	980.4	1146.5	1311.0	1409.2	1351.9	1340.8
30°	1357.5	1120.6	969.2	951.0	1026.4	1173.1	1346.8	1499.8	1449.6	1444.5
32.5°	1435.4	1164.7	995.4	972.0	1052.3	1206.1	1413.5	1598.7	1550.2	1524.4
35°	1468.0	1212.9	1053.1	1025.7	1126.2	1252.2	1447.7	1686.9	1671.8	1646.8
37.5°	1530.8	1264.5	1121.0	1119.5	1215.6	1312.2	1509.3	1806.9	1804.2	1760.8
40°	1535.9	1320.9	1228.4	1278.4	1353.9	1416.7	1563.3	1840.3	1885.6	1856.2
42.5°	1543.8	1419.9	1413.9	1455.2	1520.0	1506.5	1565.3	1848.3	1917.4	1899.9
45°	1547.4	1518.9	1602.6	1679.0	1706.0	1624.1	1546.7	1833.2	1934.1	1890.4
47.5°	1518.9	1603.9	1755.3	1902.7	1910.7	1696.4	1538.7	1817.7	1944.0	1915.1
50°	1522.8	1657.1	1887.2	2019.1	1990.2	1760.4	1526.4	1808.1	1938.9	1919.4
52°	1513.2	1658.3	1905.9	2016.8	1996.5	1725.1	1505.3	1771.5	1934.1	1948.0
52.5°	1524.0	1651.2	1886.4	2018.3	1992.1	1742.6	1502.5	1791.8	1936.9	1908.6
55°	1487.1	1566.1	1772.4	1828.4	1824.4	1581.6	1417.1	1724.6	1864.2	1864.6
57.5°	1343.9	1357.5	1390.1	1388.9	1370.6	1243.4	1212.0	1586.0	1661.9	1620.6
60°	1184.2	993.9	906.1	870.3	850.0	829.4	1072.2	1450.9	1458.0	1440.6
62.5°	1023.3	689.0	572.2	562.3	567.0	642.6	1036.4	1397.3	1354.3	1316.5
65°	825.8	502.3	415.7	402.5	449.1	530.5	838.9	1071.4	1005.4	974.0
67.5°	518.6	366.4	280.9	256.4	312.3	365.2	551.2	673.1	599.2	555.9
70°	307.6	204.7	127.2	114.1	128.3	194.7	308.7	335.8	277.8	255.5
72.5°	121.2	75.1	35.4	30.2	31.4	68.4	113.7	110.9	83.9	74.7
75°	32.6	22.6	12.3	9.9	8.4	12.7	18.2	11.9	4.4	5.6
77.5°	15.1	13.5	10.7	8.4	6.3	4.8	2.3	0.8	0.8	0.4
80°	13.1	11.5	9.9	8.4	6.3	4.0	2.0	0.4	0.4	0.4
82.5°	12.3	10.7	9.2	7.5	6.0	4.0	2.0	0.4	0.0	0.0
85°	5.2	6.7	7.5	7.1	6.3	4.0	2.0	0.4	0.0	0.0
87.5°	2.8	2.3	2.0	1.6	1.2	0.8	0.8	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

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