

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: P526105

Luminaire Tested: **GALN-SA1A-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526105
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-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 2383 lumens
Efficiency: N/A
Efficacy: 72.2 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

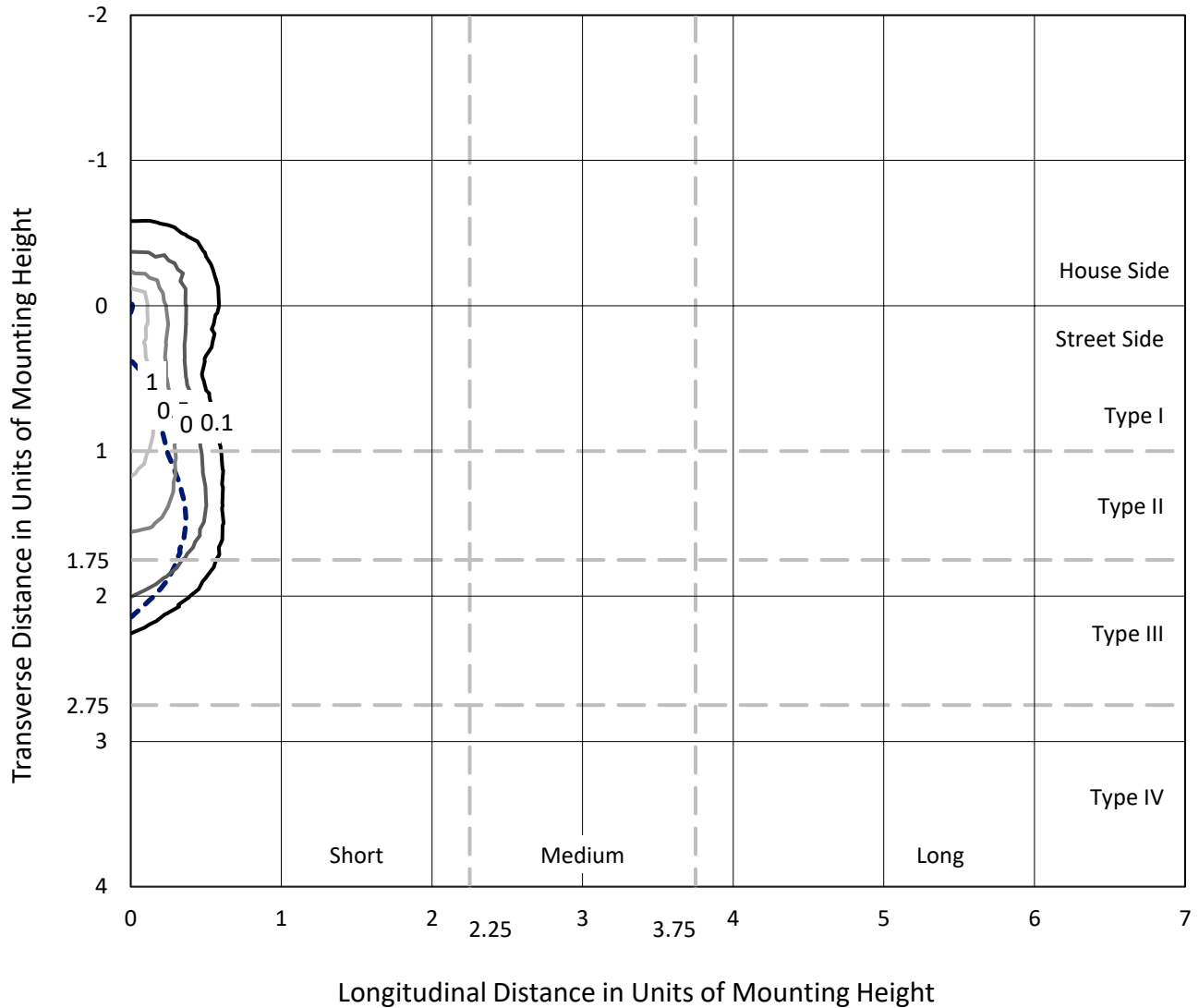
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

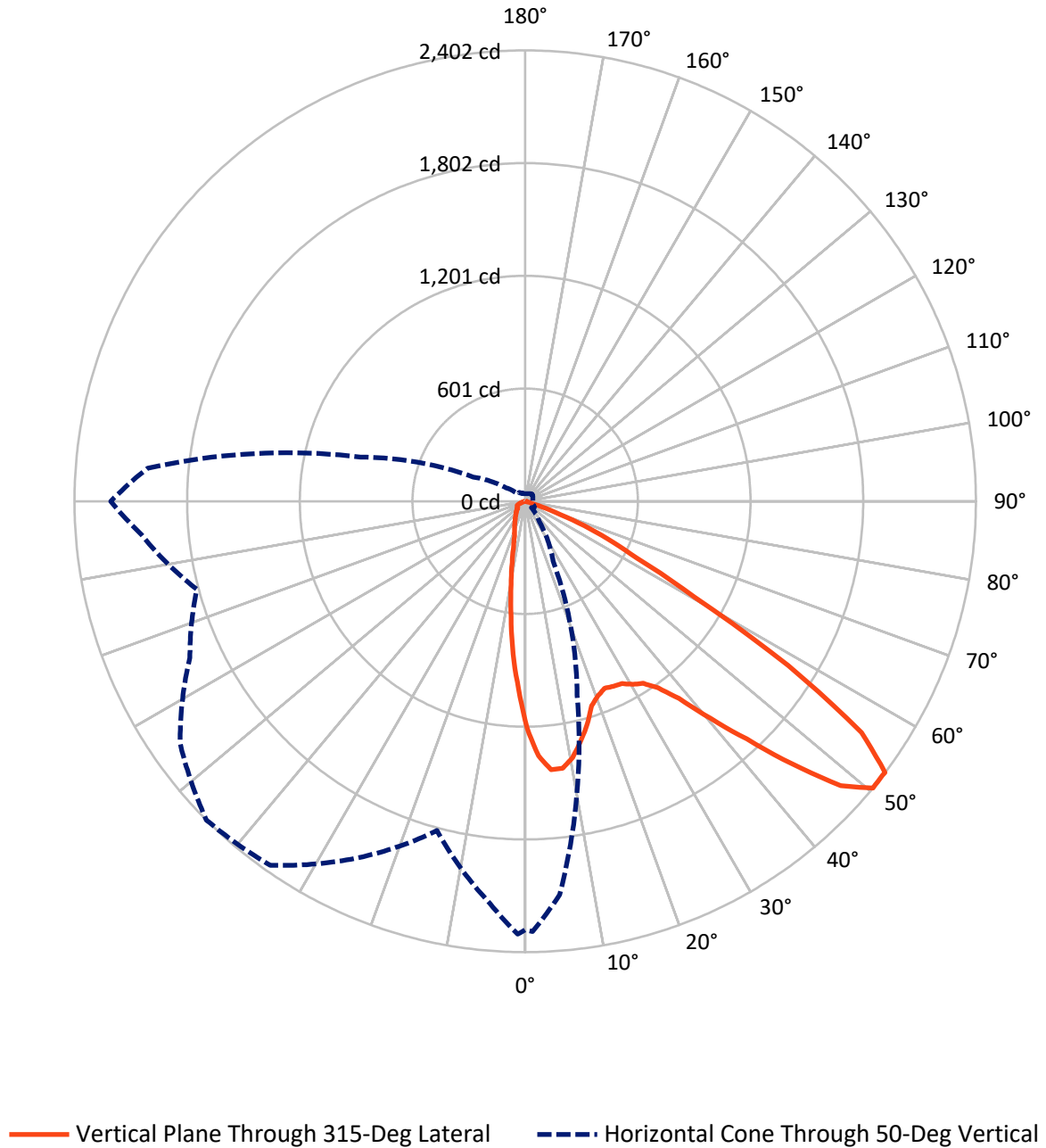
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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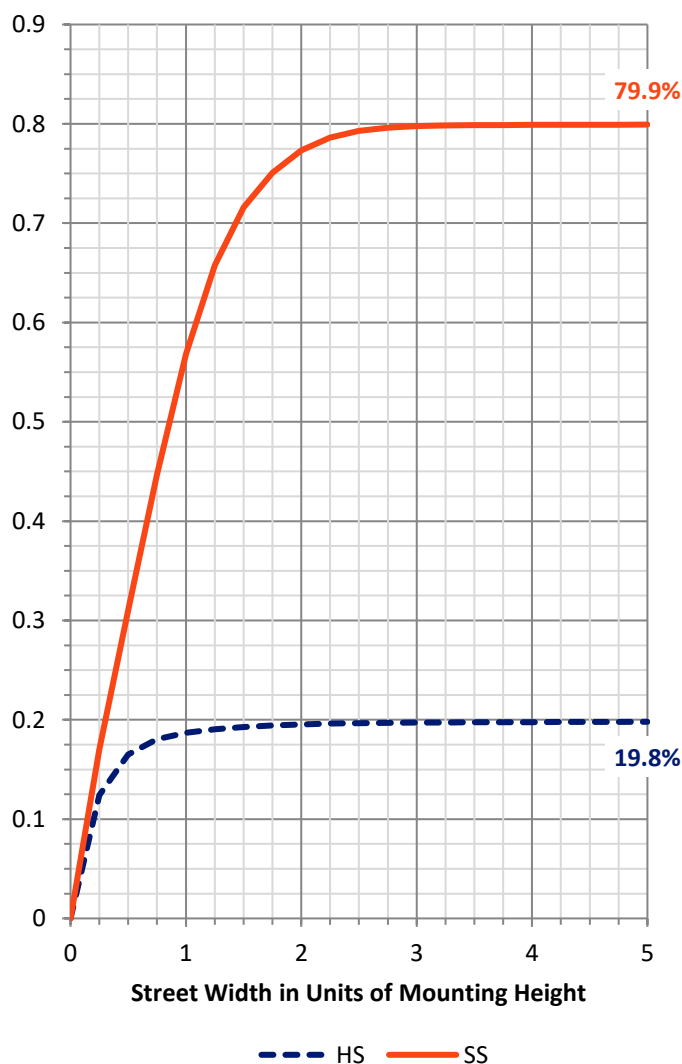
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	477.3	0.0	477.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	1905.7	0.0	1905.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	2383.0	0.0	2383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.7
10°-20°	175.1	7.3
20°-30°	263.0	11.0
30°-40°	394.8	16.6
40°-50°	554.8	23.3
50°-60°	598.5	25.1
60°-70°	277.9	11.7
70°-80°	26.1	1.1
80°-90°	4.8	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°	2383.0	100.0
0°-180°	2383.0	100.0

Coefficient of Utilization



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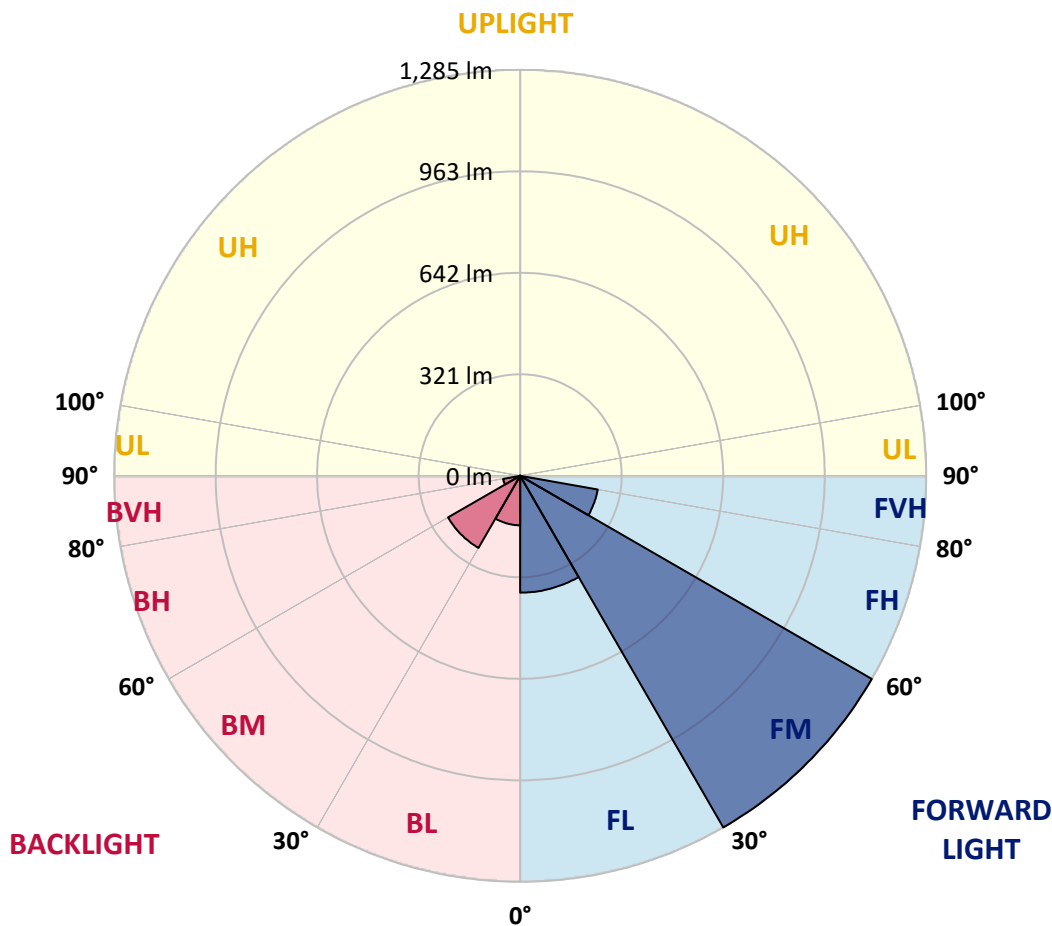
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.7	15.5			
FM (30°-60°)	1284.6	53.9			
FH (60°-80°)	249.2	10.5			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	156.5	6.6	B1/500		
BM (30°-60°)	263.4	11.1	B1/1000		
BH (60°-80°)	54.8	2.3	B0/110		G0/110
BVH (80°-90°)	2.6	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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1256.2	1236.8	1212.3	1191.9	1161.7	1100.7	1084.1	1064.3	1047.7	1025.5	994.3
5°	1142.3	1136.1	1124.8	1048.2	992.9	919.1	858.6	833.1	799.5	772.1	752.2
7.5°	1055.3	1030.7	994.8	917.7	829.3	750.3	683.2	644.0	599.5	584.4	557.4
10°	962.2	967.8	914.9	806.6	699.7	635.9	594.3	556.5	516.3	489.8	451.5
12.5°	932.4	913.9	873.3	739.5	648.2	588.6	538.0	491.2	448.7	406.1	369.3
15°	951.8	923.4	866.6	725.3	608.5	534.3	470.9	407.6	368.3	313.9	275.6
17.5°	1021.3	998.6	922.4	740.4	588.2	482.3	388.2	322.9	262.9	213.7	194.3
20°	1137.1	1104.9	1009.4	759.8	557.9	419.4	314.9	234.5	177.8	157.0	146.1
22.5°	1250.6	1233.1	1112.5	797.1	531.0	363.6	236.4	157.9	132.9	129.1	122.0
25°	1466.6	1414.2	1269.9	864.8	510.2	311.1	178.2	127.2	112.5	109.7	110.6
27.5°	1595.2	1551.3	1415.6	909.7	487.0	270.9	150.8	116.8	106.9	100.7	98.3
30°	1718.6	1667.6	1487.9	936.1	437.3	228.4	133.8	112.1	109.7	100.7	97.9
32.5°	1813.7	1763.6	1592.4	975.9	417.0	200.9	110.2	87.5	81.3	80.4	88.9
35°	1959.3	1905.9	1681.8	997.6	401.4	186.8	95.5	78.0	70.9	68.1	68.6
37.5°	2095.0	2058.6	1764.5	1006.1	384.9	182.5	85.6	70.0	63.8	61.9	61.5
40°	2208.5	2127.1	1843.0	1015.1	377.8	174.5	79.4	63.8	59.6	56.7	56.7
42.5°	2260.5	2177.7	1930.9	1009.9	375.9	161.7	79.4	58.6	55.3	52.5	52.0
45°	2249.1	2215.5	1970.2	1007.5	375.9	148.9	72.3	57.2	52.5	48.7	47.8
47.5°	2278.4	2234.5	2019.3	1017.5	368.3	139.9	61.0	60.0	49.6	44.9	44.0
50°	2283.6	2292.1	2104.9	1069.0	351.8	128.6	47.8	59.1	47.8	40.7	39.7
52°	2317.7	2264.7	2130.9	1096.4	334.3	120.1	40.2	50.6	45.9	37.8	36.9
52.5°	2270.9	2305.4	2137.1	1106.4	336.2	114.4	38.8	49.6	44.9	37.8	35.5
55°	2218.4	2251.5	2112.0	1127.6	308.3	89.8	30.3	35.9	40.7	33.1	31.7
57.5°	1928.1	1961.7	1835.4	1032.6	251.1	63.4	25.1	26.9	35.9	30.7	29.3
60°	1713.9	1689.8	1540.4	861.4	178.2	35.5	19.9	20.8	39.2	28.4	27.9
62.5°	1566.4	1514.9	1287.4	665.2	108.7	23.6	15.6	16.1	30.3	26.5	26.5
65°	1158.8	1101.2	855.3	402.4	53.4	16.5	11.8	12.8	18.9	22.7	22.7
67.5°	661.4	639.2	413.2	181.6	22.2	10.4	9.0	9.9	14.7	18.4	17.5
70°	304.0	272.8	158.9	38.3	10.4	7.1	7.1	8.0	11.8	13.7	12.8
72.5°	88.9	84.2	38.8	6.1	4.3	4.3	4.7	6.1	9.0	10.4	9.5
75°	6.6	4.3	2.8	1.9	1.9	2.8	3.8	6.1	9.0	9.9	8.0
77.5°	0.5	0.9	0.5	0.5	1.4	2.8	4.3	7.6	11.8	12.3	9.0
80°	0.5	0.5	0.0	0.5	1.4	2.8	4.7	8.5	13.2	14.2	7.6
82.5°	0.0	0.0	0.0	0.5	1.9	3.8	5.7	9.0	12.3	15.1	8.0
85°	0.0	0.0	0.0	0.5	2.8	5.2	6.6	2.4	1.4	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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1016.5	1004.2	999.5	1003.8	1002.3	1000.9	1026.9	1021.3	1020.3	1028.8	1026.9
5°	763.1	741.4	800.9	776.8	801.9	817.0	819.8	821.3	838.8	820.3	844.4
7.5°	543.7	549.4	548.9	565.0	593.8	619.4	634.5	622.7	621.7	619.4	609.0
10°	434.5	424.6	422.7	418.9	427.9	449.6	468.1	453.4	443.0	457.2	452.9
12.5°	355.1	341.4	333.8	318.7	319.1	333.8	333.8	333.8	344.2	352.2	358.4
15°	272.3	261.0	261.0	245.9	242.5	243.0	250.6	251.5	268.1	272.8	275.2
17.5°	190.5	184.4	191.5	197.6	193.8	194.8	197.6	198.6	200.9	199.0	203.8
20°	146.6	145.6	147.5	158.4	166.4	171.2	167.8	163.1	160.3	153.7	153.7
22.5°	124.3	126.2	129.5	138.5	148.9	151.8	148.0	137.1	128.6	127.7	128.1
25°	110.6	112.5	117.7	123.4	129.1	133.8	130.0	122.0	117.3	113.0	113.0
27.5°	102.1	103.1	105.9	110.2	114.9	118.7	117.3	113.0	107.8	105.9	101.7
30°	95.5	96.9	100.2	101.2	105.4	107.3	105.0	104.0	100.7	98.3	96.9
32.5°	92.2	91.7	94.1	95.0	95.5	96.9	94.1	95.5	95.0	91.3	89.8
35°	69.5	73.3	79.4	84.6	86.0	87.9	87.5	85.6	80.4	76.1	70.9
37.5°	62.4	64.8	68.1	72.3	78.0	80.4	79.4	74.7	68.6	65.7	64.8
40°	57.7	59.1	61.9	64.8	70.4	74.7	71.4	67.1	62.4	60.0	58.6
42.5°	53.4	53.9	55.3	58.2	62.4	69.0	63.4	57.7	55.8	54.4	53.4
45°	48.7	48.7	50.6	52.0	56.7	62.9	57.2	52.0	51.1	50.1	49.6
47.5°	44.9	45.4	46.3	48.2	52.0	56.3	52.5	48.2	45.9	45.4	44.4
50°	40.2	40.7	42.6	44.4	49.2	51.5	49.2	44.4	42.1	40.7	40.7
52°	36.4	37.8	39.7	43.5	46.8	50.6	47.8	42.6	39.7	38.3	37.4
52.5°	35.9	36.9	38.8	43.0	46.8	50.1	47.3	42.1	38.8	37.8	36.9
55°	32.2	33.6	36.9	42.1	46.3	50.1	46.3	41.6	36.9	34.5	33.6
57.5°	30.7	31.7	35.9	42.6	45.9	50.1	46.3	41.6	36.9	32.6	31.7
60°	29.3	31.2	35.9	41.1	45.4	50.6	46.8	41.1	35.9	30.7	30.7
62.5°	27.9	29.3	35.5	40.2	43.5	48.7	44.9	40.2	34.5	29.3	28.8
65°	24.1	26.5	31.2	33.6	37.4	42.1	38.3	35.0	30.3	26.0	25.5
67.5°	18.4	19.4	23.2	26.0	28.4	32.6	30.7	26.5	23.2	19.9	19.9
70°	12.8	13.7	16.5	18.0	20.3	22.7	21.3	18.0	15.6	13.7	13.2
72.5°	9.0	9.5	10.4	11.3	12.3	13.2	12.8	10.4	9.0	8.5	8.0
75°	7.1	8.0	8.5	8.0	7.6	7.1	7.1	6.1	5.2	4.7	4.7
77.5°	7.1	7.6	7.1	6.1	5.2	4.7	4.3	3.8	2.8	2.4	2.8
80°	6.1	6.1	6.1	5.2	4.7	4.3	3.8	3.3	2.8	2.4	2.4
82.5°	6.6	6.6	6.1	5.2	5.2	4.3	4.3	3.8	3.3	2.4	2.4
85°	0.0	0.0	0.0	0.9	2.4	4.3	4.3	3.8	3.3	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.5	0.9	1.9	2.4	2.8	2.8	2.8
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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1043.9	1061.9	1096.0	1130.0	1150.8	1175.4	1219.8	1243.5	1274.2	1289.3	1319.1
5°	841.1	883.7	898.8	937.6	979.2	1020.8	1087.0	1159.8	1220.3	1261.9	1315.8
7.5°	613.7	623.6	682.3	708.3	776.3	852.0	942.3	1034.0	1110.6	1178.7	1219.8
10°	460.0	496.4	533.3	583.0	637.8	715.8	802.3	903.5	1002.8	1070.9	1122.9
12.5°	369.7	398.6	447.7	501.2	568.8	620.3	707.3	807.5	936.1	1002.8	1071.4
15°	279.9	316.8	372.6	427.9	499.3	553.7	641.6	767.8	933.3	1025.0	1084.1
17.5°	207.6	232.6	282.7	344.7	417.5	494.1	612.8	763.6	965.0	1074.2	1135.2
20°	158.9	167.4	199.0	254.4	333.3	433.6	565.9	782.0	1058.6	1193.8	1255.8
22.5°	128.6	132.4	144.7	183.0	259.6	380.6	543.7	794.8	1164.0	1337.1	1419.8
25°	112.1	111.1	119.1	135.7	202.8	331.0	515.4	843.0	1293.1	1505.4	1579.6
27.5°	102.1	102.1	105.9	117.7	168.3	298.8	497.4	877.5	1423.1	1653.4	1693.6
30°	96.9	97.9	108.7	112.5	139.9	260.5	467.6	912.5	1547.5	1747.9	1803.3
32.5°	89.8	86.0	83.7	93.1	117.7	226.0	437.8	927.2	1648.2	1863.8	1911.1
35°	69.0	67.1	70.0	77.1	101.2	196.7	404.7	943.7	1764.0	1998.1	2007.5
37.5°	62.4	61.9	63.8	70.0	85.1	171.2	381.1	939.5	1852.4	2109.2	2083.6
40°	57.7	57.7	59.1	64.3	76.1	153.2	356.5	935.7	1938.0	2234.0	2159.3
42.5°	53.9	53.9	56.3	59.6	72.3	141.4	338.1	930.5	2009.9	2310.6	2203.7
45°	48.7	50.1	53.9	57.2	73.3	133.3	324.3	910.6	2034.5	2309.6	2182.5
47.5°	44.9	46.8	50.6	55.3	66.2	131.0	314.9	893.1	2026.0	2252.9	2115.8
50°	40.7	43.0	48.2	56.3	56.3	126.2	305.0	908.7	2019.8	2208.9	2052.0
52°	37.8	39.7	46.3	54.8	49.2	116.3	298.8	939.0	2044.9	2203.3	2023.6
52.5°	37.4	38.8	44.9	53.9	46.8	114.4	294.6	946.1	2052.9	2189.1	2043.0
55°	33.1	35.0	41.1	42.1	38.3	94.1	280.8	962.2	2013.2	2161.2	2024.5
57.5°	31.2	32.2	36.4	34.5	33.1	70.9	241.6	937.1	1788.1	1919.6	1883.6
60°	28.8	29.8	34.0	26.9	27.9	49.6	181.6	813.7	1435.9	1599.5	1664.3
62.5°	27.9	27.4	32.2	21.7	23.6	35.9	128.1	661.4	1106.4	1316.8	1428.8
65°	24.6	24.1	23.2	18.4	20.3	27.9	76.6	431.7	779.7	996.2	1057.7
67.5°	18.9	19.9	17.0	14.7	17.0	21.7	42.6	193.4	409.0	597.6	647.3
70°	13.2	14.2	13.7	12.8	15.1	18.0	24.6	66.2	169.3	313.9	346.1
72.5°	8.0	9.9	10.4	10.9	13.2	15.6	17.5	21.3	44.9	111.1	138.1
75°	4.7	6.6	8.0	9.5	10.9	13.2	14.7	15.1	15.6	20.8	33.6
77.5°	3.3	4.7	7.1	9.0	10.9	13.2	15.6	16.5	15.6	14.7	15.6
80°	2.8	4.7	6.6	8.5	11.3	13.7	15.6	15.6	15.1	13.2	14.2
82.5°	2.8	4.7	7.1	9.0	10.9	13.2	15.1	15.6	14.2	13.2	13.7
85°	3.3	5.2	7.6	9.5	11.8	10.9	9.9	8.0	7.6	6.1	6.6
87.5°	3.3	4.7	4.7	5.2	5.7	5.7	5.7	5.2	4.3	3.8	3.8
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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1320.5	1358.4	1356.9	1357.9	1352.2	1313.9	1295.5	1248.7	1261.9	1256.2
5°	1371.1	1408.5	1440.6	1436.8	1393.3	1341.3	1264.3	1191.5	1171.6	1142.3
7.5°	1320.5	1410.4	1440.2	1435.9	1371.6	1304.9	1182.0	1109.2	1074.7	1055.3
10°	1240.2	1344.2	1381.1	1388.6	1345.1	1243.9	1130.9	1014.2	995.7	962.2
12.5°	1194.3	1269.9	1292.6	1313.0	1297.8	1222.2	1092.2	980.1	954.6	932.4
15°	1156.9	1201.9	1211.3	1234.5	1243.5	1202.8	1112.5	1017.0	954.1	951.8
17.5°	1191.5	1173.0	1138.5	1145.6	1174.0	1203.3	1165.0	1089.8	1028.8	1021.3
20°	1248.7	1167.3	1089.3	1106.8	1130.5	1220.3	1244.4	1191.5	1156.5	1137.1
22.5°	1314.4	1177.3	1073.7	1082.2	1127.2	1258.6	1373.0	1343.7	1278.5	1250.6
25°	1435.9	1204.7	1086.0	1091.7	1153.2	1312.0	1489.3	1511.1	1472.3	1466.6
27.5°	1554.6	1275.6	1113.0	1100.2	1166.4	1364.0	1559.8	1676.6	1608.5	1595.2
30°	1615.1	1333.3	1153.2	1131.4	1221.2	1395.7	1602.3	1784.4	1724.8	1718.6
32.5°	1707.8	1385.8	1184.4	1156.5	1252.0	1435.0	1681.8	1902.1	1844.4	1813.7
35°	1746.5	1443.0	1252.9	1220.3	1339.9	1489.8	1722.4	2007.0	1989.1	1959.3
37.5°	1821.2	1504.5	1333.8	1331.9	1446.3	1561.2	1795.7	2149.8	2146.5	2095.0
40°	1827.4	1571.6	1461.4	1521.0	1610.8	1685.5	1860.0	2189.5	2243.4	2208.5
42.5°	1836.8	1689.3	1682.2	1731.4	1808.5	1792.4	1862.4	2199.0	2281.3	2260.5
45°	1841.1	1807.0	1906.8	1997.6	2029.7	1932.3	1840.1	2181.0	2301.1	2249.1
47.5°	1807.0	1908.2	2088.4	2263.8	2273.2	2018.4	1830.7	2162.6	2312.9	2278.4
50°	1811.8	1971.6	2245.3	2402.3	2367.8	2094.5	1816.0	2151.2	2306.8	2283.6
52°	1800.4	1973.0	2267.6	2399.5	2375.4	2052.4	1791.0	2107.8	2301.1	2317.7
52.5°	1813.2	1964.5	2244.4	2401.4	2370.2	2073.2	1787.7	2131.9	2304.4	2270.9
55°	1769.2	1863.3	2108.7	2175.4	2170.6	1881.8	1686.0	2052.0	2217.9	2218.4
57.5°	1599.0	1615.1	1653.9	1652.4	1630.7	1479.4	1442.0	1887.0	1977.3	1928.1
60°	1408.9	1182.5	1078.0	1035.4	1011.3	986.7	1275.6	1726.2	1734.7	1713.9
62.5°	1217.5	819.8	680.8	669.0	674.7	764.5	1233.1	1662.4	1611.3	1566.4
65°	982.5	597.6	494.6	478.9	534.3	631.2	998.1	1274.7	1196.2	1158.8
67.5°	617.0	435.9	334.3	305.0	371.6	434.5	655.8	800.9	713.0	661.4
70°	365.9	243.5	151.3	135.7	152.7	231.7	367.4	399.5	330.5	304.0
72.5°	144.2	89.4	42.1	35.9	37.4	81.3	135.2	131.9	99.8	88.9
75°	38.8	26.9	14.7	11.8	9.9	15.1	21.7	14.2	5.2	6.6
77.5°	18.0	16.1	12.8	9.9	7.6	5.7	2.8	0.9	0.9	0.5
80°	15.6	13.7	11.8	9.9	7.6	4.7	2.4	0.5	0.5	0.5
82.5°	14.7	12.8	10.9	9.0	7.1	4.7	2.4	0.5	0.0	0.0
85°	6.1	8.0	9.0	8.5	7.6	4.7	2.4	0.5	0.0	0.0
87.5°	3.3	2.8	2.4	1.9	1.4	0.9	0.9	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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