

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: P652180

Luminaire Tested: **GALN-SA1B-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.5 lumens
Efficiency: N/A
Efficacy: 79.0 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

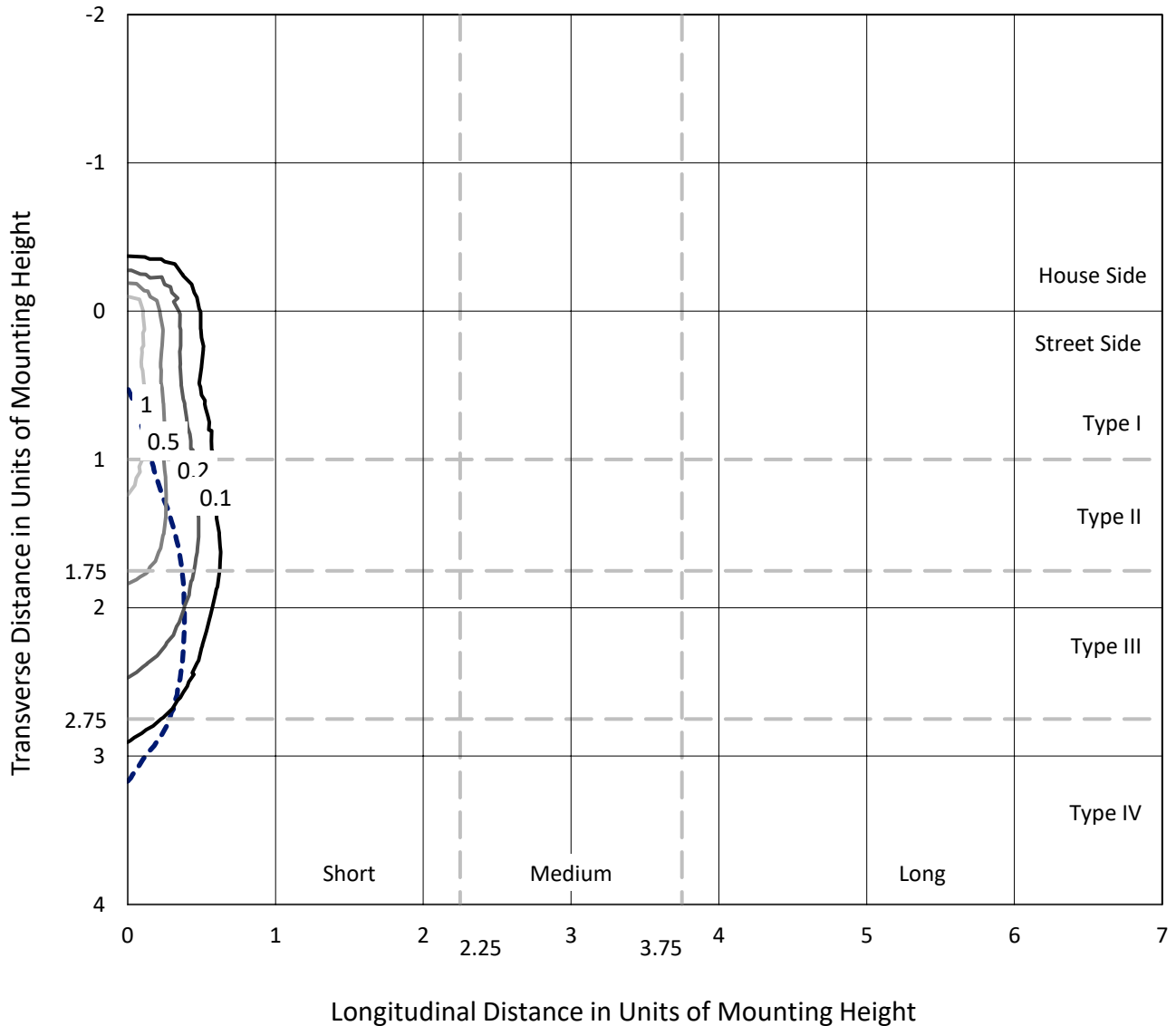
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

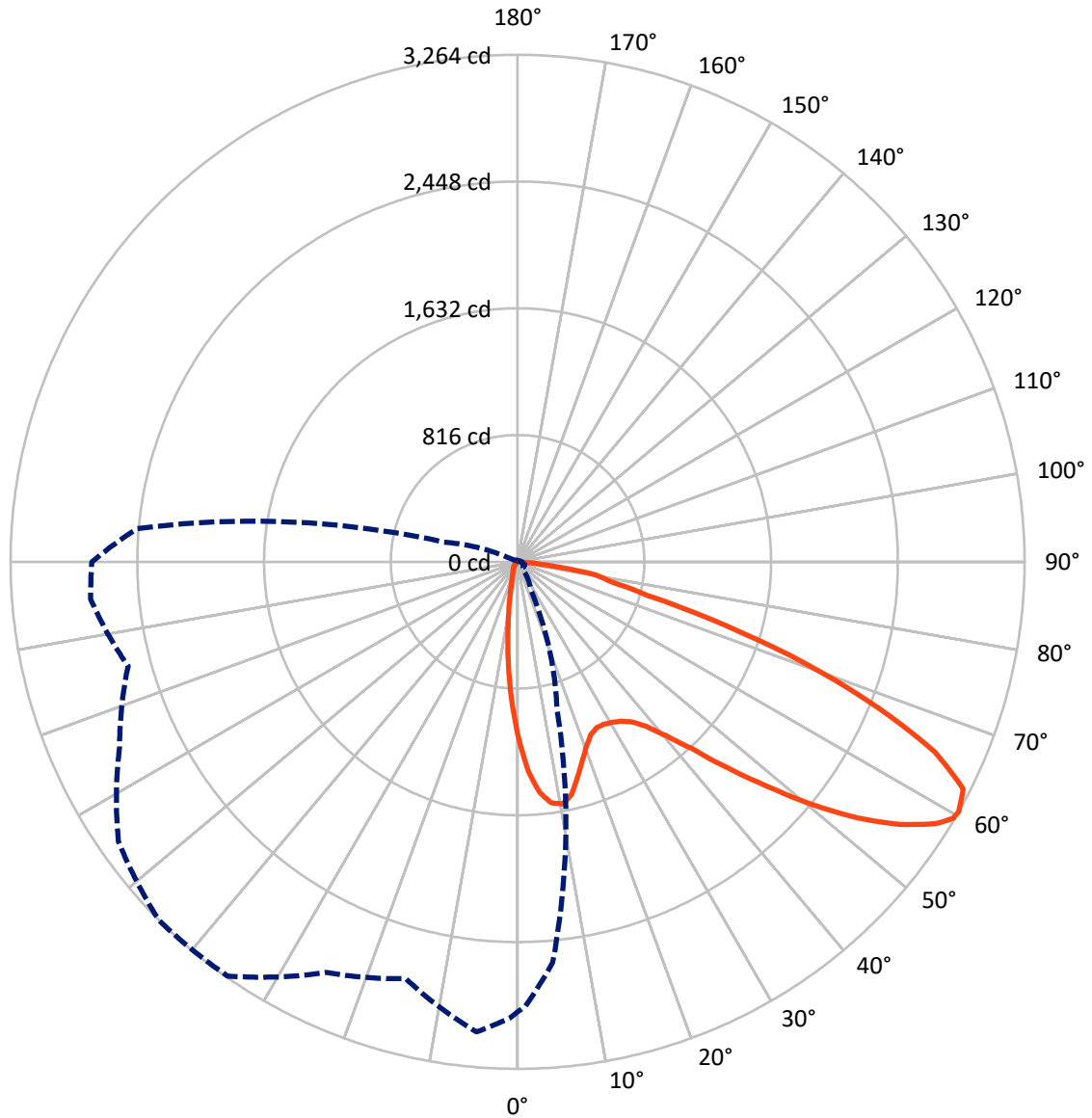
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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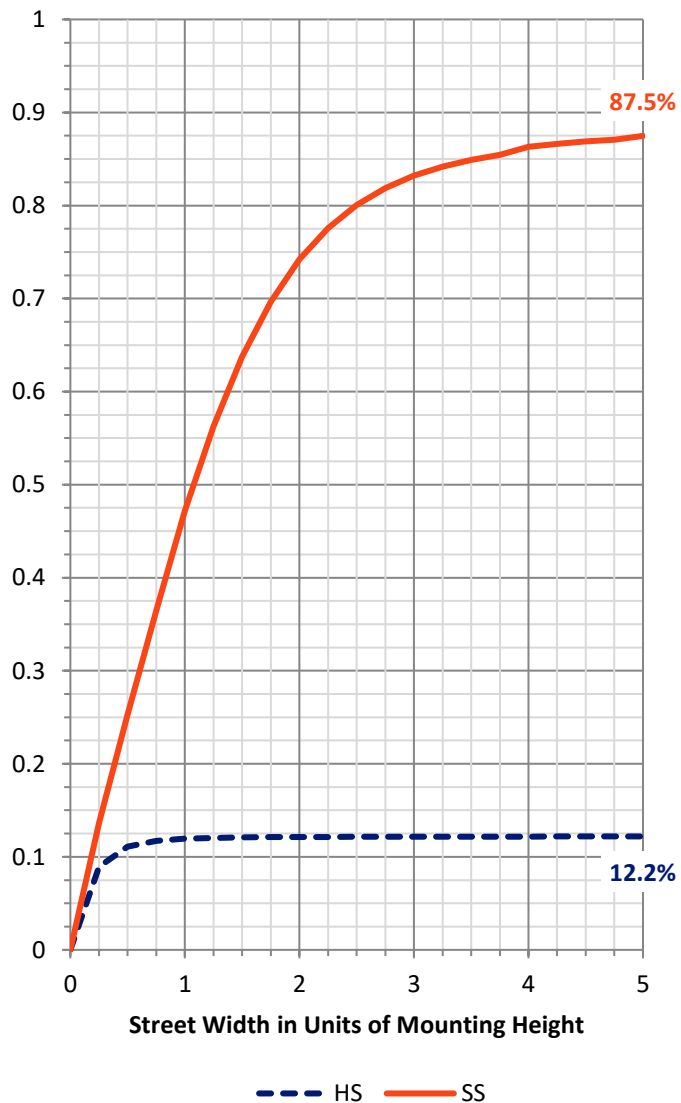
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.9	0.0	428.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3048.6	0.0	3048.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	3477.5	0.0	3477.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	2.5
10°-20°	169.8	4.9
20°-30°	248.9	7.2
30°-40°	370.2	10.6
40°-50°	538.8	15.5
50°-60°	777.0	22.3
60°-70°	854.6	24.6
70°-80°	382.8	11.0
80°-90°	50.0	1.4
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°	3477.5	100.0
0°-180°	3477.5	100.0

Coefficient of Utilization

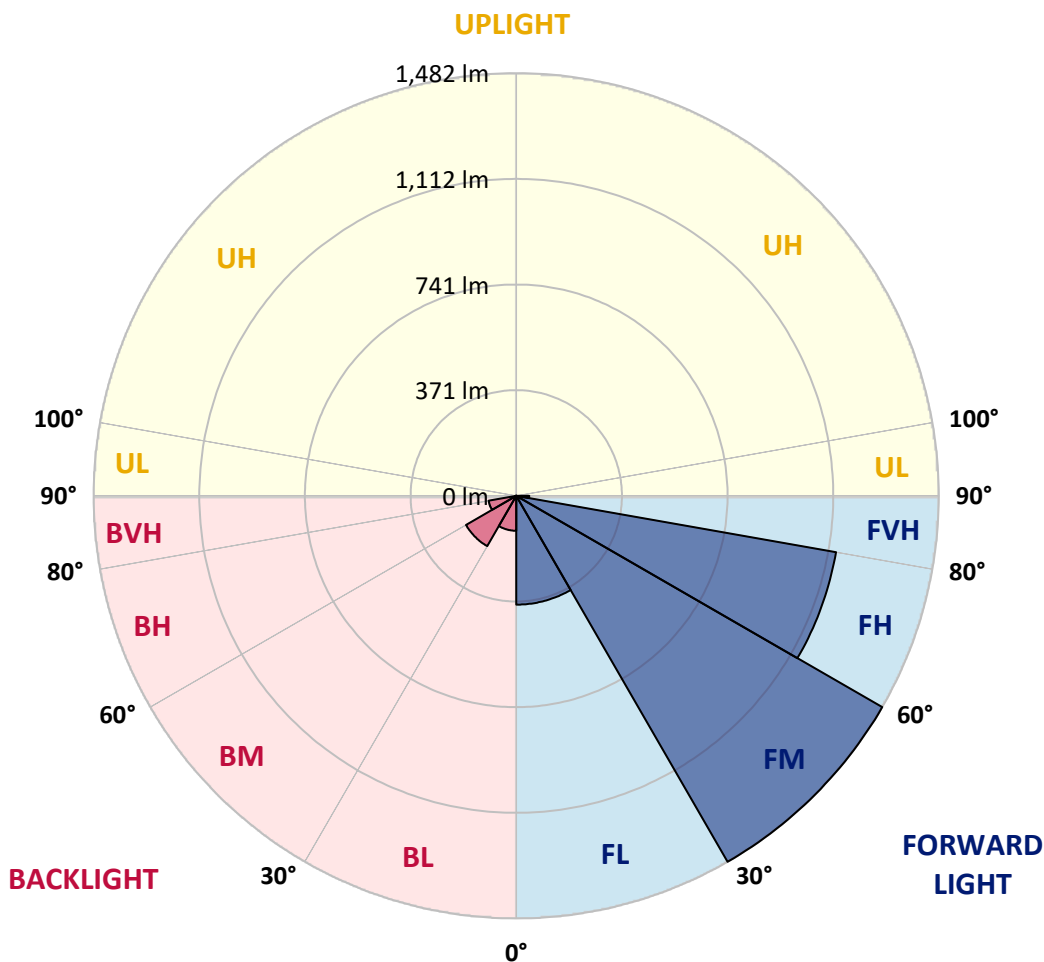


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.6	11.0			
FM (30°-60°)	1482.2	42.6			
FH (60°-80°)	1139.0	32.8			G1/1800
FVH (80°-90°)	45.7	1.3			G1/100
BL (0°-30°)	122.6	3.5	B1/500		
BM (30°-60°)	203.7	5.9	B0/220		
BH (60°-80°)	98.4	2.8	B0/110		G0/110
BVH (80°-90°)	4.3	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4
2.5°	1263.6	1258.1	1245.4	1206.8	1173.2	1129.3	1084.9	1050.0	1028.5	989.2	971.2
5°	1224.2	1226.9	1190.1	1110.8	1022.5	962.2	896.4	844.0	786.4	749.9	711.7
7.5°	1121.4	1116.1	1076.1	965.6	858.3	771.1	687.9	620.2	577.6	543.5	514.9
10°	1033.3	1029.4	978.3	836.1	720.9	655.6	599.3	540.1	494.3	444.4	404.4
12.5°	978.1	969.1	910.4	761.9	668.0	607.2	545.9	484.2	421.1	370.6	322.3
15°	959.6	946.6	881.4	736.2	634.2	557.0	480.0	409.2	336.5	280.7	244.2
17.5°	993.1	971.8	902.2	731.7	593.7	491.4	396.8	304.5	228.9	186.4	163.9
20°	1070.1	1045.4	955.0	727.2	548.8	417.9	301.6	215.2	158.4	135.1	122.6
22.5°	1184.3	1150.4	1033.3	734.4	507.3	346.3	217.8	152.0	125.8	111.3	102.6
25°	1321.5	1293.2	1132.5	759.8	474.5	290.0	168.4	124.2	106.0	97.1	90.4
27.5°	1471.9	1426.7	1260.7	790.1	444.6	246.3	147.8	111.0	94.4	86.2	82.8
30°	1579.0	1543.7	1368.0	811.3	407.4	213.6	135.1	109.4	94.6	84.9	78.5
32.5°	1684.7	1639.7	1457.9	821.1	380.1	190.8	116.8	95.5	83.0	78.0	71.7
35°	1797.8	1750.8	1547.4	815.8	359.8	175.8	106.0	85.1	71.1	62.7	56.3
37.5°	1912.3	1862.6	1636.6	796.8	347.1	169.7	97.6	80.9	67.1	58.4	51.6
40°	2048.2	1981.8	1720.1	781.1	333.9	166.5	92.0	78.2	64.3	55.0	48.1
42.5°	2159.2	2096.0	1799.2	773.0	324.9	159.1	92.0	76.1	62.4	52.1	44.9
45°	2264.4	2198.8	1884.5	779.5	321.2	149.9	93.0	75.9	61.1	50.0	42.8
47.5°	2352.4	2295.6	1972.3	804.4	316.4	139.9	87.5	79.6	60.3	48.1	40.7
50°	2456.3	2401.3	2088.4	854.6	308.0	129.8	80.7	85.6	60.0	46.5	38.9
52.5°	2602.7	2543.3	2248.5	911.7	294.5	114.5	74.3	84.9	59.0	43.9	37.0
55°	2781.7	2733.6	2434.1	980.2	276.0	97.3	64.3	75.4	55.8	39.4	33.8
57.5°	2896.4	2855.4	2573.1	1009.8	247.7	79.6	56.6	63.2	51.0	35.2	30.1
59°	2909.9	2872.9	2602.2	1000.0	229.2	72.7	52.9	54.2	49.7	32.8	28.0
60°	2898.6	2860.2	2590.6	981.0	212.0	68.0	49.7	48.1	50.0	31.5	26.4
62.5°	2825.6	2760.0	2477.7	884.5	185.3	62.4	44.2	39.4	44.2	28.3	23.5
65°	2684.7	2586.3	2254.3	748.7	174.8	59.2	37.5	33.1	33.6	24.8	20.4
67.5°	2438.6	2314.6	1956.9	608.3	170.2	59.5	31.7	29.6	25.9	21.1	18.0
70°	2049.4	1925.7	1570.2	500.4	168.1	59.5	27.0	25.4	21.7	17.7	15.6
72.5°	1452.3	1319.1	1059.2	393.1	151.5	59.2	23.0	23.0	17.7	14.8	12.7
75°	820.6	821.6	665.9	278.1	125.8	48.9	18.5	18.2	13.0	11.4	9.5
77.5°	478.2	469.8	448.8	119.5	58.4	22.2	13.0	11.1	9.0	8.2	6.9
80°	245.8	202.3	197.0	43.3	20.9	14.0	9.0	6.3	5.8	5.3	4.8
82.5°	72.7	73.0	65.0	17.4	11.6	9.3	4.5	3.4	3.2	2.9	2.9
85°	5.0	3.2	3.7	5.3	7.1	3.7	0.3	0.8	0.8	1.1	1.3
87.5°	0.5	0.3	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°	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4
2.5°	951.3	963.0	941.3	941.8	923.9	929.7	908.5	915.4	903.0	912.5	940.6
5°	715.9	718.5	701.1	695.5	698.1	709.0	713.2	693.9	702.1	686.0	684.9
7.5°	504.3	507.5	497.5	496.2	515.2	510.7	518.9	499.0	480.3	488.5	473.5
10°	391.7	378.5	357.9	352.1	348.4	350.8	350.8	332.8	330.2	323.0	333.9
12.5°	309.3	293.2	273.6	247.2	240.5	240.0	230.3	214.4	209.3	203.3	212.3
15°	224.7	218.1	201.7	186.9	171.8	169.0	153.1	140.1	123.0	120.5	119.8
17.5°	158.1	148.3	148.0	139.6	130.9	125.1	110.3	95.5	88.8	88.1	88.1
20°	118.4	115.0	109.4	108.4	105.7	99.2	86.0	78.0	74.8	75.1	76.1
22.5°	99.7	97.3	92.3	89.9	88.8	83.0	73.3	68.0	66.4	66.4	66.6
25°	89.1	87.0	81.4	77.7	76.4	72.2	64.5	60.6	59.2	59.2	59.2
27.5°	81.2	78.5	72.7	69.6	67.1	62.4	57.6	53.7	52.3	52.3	52.6
30°	75.6	72.7	67.4	63.2	59.5	55.3	51.3	47.9	46.3	46.0	46.3
32.5°	68.2	65.6	60.3	57.6	53.4	48.4	45.2	42.0	40.5	40.7	40.5
35°	53.2	52.3	48.6	49.5	47.0	42.8	39.9	36.5	34.6	34.4	34.9
37.5°	48.4	45.2	41.0	41.2	40.5	38.9	34.1	30.4	29.1	29.1	29.4
40°	44.7	41.5	36.8	34.4	34.6	34.6	29.6	25.7	24.3	24.1	24.6
42.5°	41.5	38.3	33.1	29.1	28.0	29.4	25.1	21.1	19.8	19.3	19.8
45°	39.4	35.9	29.9	25.4	22.2	23.8	20.6	17.4	15.9	15.9	15.6
47.5°	37.3	34.1	27.5	22.0	18.5	17.7	16.9	14.0	12.4	12.2	12.4
50°	35.4	32.2	24.8	19.0	15.6	13.7	13.7	11.1	10.0	9.5	9.8
52.5°	33.6	30.1	22.5	16.9	13.5	11.1	9.8	9.0	8.2	7.9	8.2
55°	30.9	27.5	20.1	14.5	11.6	9.3	7.7	7.4	6.9	6.3	6.9
57.5°	27.8	24.6	17.7	12.4	9.3	7.1	6.3	6.1	5.6	5.3	5.3
59°	25.9	23.0	16.4	10.8	8.2	6.3	5.8	5.6	5.0	4.5	4.8
60°	24.8	22.5	15.6	10.0	7.4	5.8	5.3	5.0	4.5	4.2	4.5
62.5°	22.0	20.1	13.7	8.2	5.8	4.2	3.7	4.0	3.7	3.4	3.7
65°	19.3	17.7	11.6	6.3	4.5	2.9	2.6	3.4	3.2	2.9	3.2
67.5°	17.2	15.3	9.8	4.8	3.2	1.6	1.9	2.9	2.9	2.6	2.9
70°	14.8	13.2	7.9	3.4	1.6	0.8	1.3	2.1	2.6	2.4	2.6
72.5°	12.2	10.3	6.1	2.4	0.8	0.0	0.8	1.9	2.6	2.4	2.6
75°	9.5	7.7	4.5	1.3	0.0	0.0	0.3	1.6	2.6	2.4	2.6
77.5°	6.9	5.6	2.6	0.3	0.0	0.0	0.3	1.6	2.6	2.4	2.6
80°	4.5	4.0	1.1	0.0	0.0	0.0	0.3	1.6	2.6	2.6	2.9
82.5°	2.9	2.1	0.0	0.0	0.0	0.0	0.5	2.1	2.9	3.2	3.2
85°	1.3	0.0	0.0	0.0	0.0	0.0	1.1	2.6	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.9	3.2	4.0	4.0	4.0
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°	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4
2.5°	945.3	961.9	985.5	1021.7	1051.0	1097.3	1132.7	1181.1	1230.0	1244.8	1267.8
5°	695.8	717.2	770.6	819.2	849.8	947.6	1009.5	1107.1	1194.6	1236.6	1282.4
7.5°	483.2	508.6	549.3	617.2	681.7	761.4	861.3	972.8	1101.0	1161.0	1225.5
10°	339.2	370.9	428.2	484.0	565.2	640.8	739.4	862.5	1004.0	1074.8	1155.7
12.5°	214.1	242.4	318.2	380.9	482.1	569.9	660.9	772.5	936.3	1009.0	1093.9
15°	122.4	146.2	181.6	262.0	374.3	490.4	603.8	733.3	901.7	991.3	1083.0
17.5°	91.2	97.6	113.4	158.9	261.2	396.8	551.2	721.4	925.2	1030.4	1135.1
20°	76.7	80.9	88.3	106.3	166.5	305.6	499.9	723.5	1001.4	1133.5	1232.9
22.5°	68.7	71.4	77.5	89.1	113.7	222.6	439.8	736.0	1093.6	1260.2	1374.9
25°	60.3	63.7	69.0	79.1	94.6	154.4	380.6	763.7	1222.9	1420.9	1528.7
27.5°	53.7	56.9	62.1	71.4	83.0	117.9	311.7	787.5	1359.2	1582.7	1670.9
30°	47.0	50.2	55.5	62.9	73.5	95.5	237.4	801.5	1491.7	1704.0	1771.9
32.5°	41.5	44.2	49.2	55.8	64.5	80.9	187.1	786.9	1592.9	1814.2	1859.7
35°	35.9	39.1	43.3	49.5	57.1	69.0	155.7	736.7	1679.9	1927.6	1944.0
37.5°	30.1	33.8	38.3	43.9	50.0	63.4	125.1	681.2	1773.0	2069.0	2042.0
40°	25.4	28.8	33.1	39.1	44.7	58.2	96.2	622.0	1873.4	2201.7	2149.1
42.5°	20.6	24.3	29.4	34.9	44.2	50.8	74.5	560.7	1963.6	2317.3	2245.9
45°	16.4	19.6	24.8	32.0	43.9	43.6	57.6	500.1	2031.5	2399.7	2318.0
47.5°	13.0	15.6	20.9	31.2	40.5	37.0	46.3	462.6	2102.8	2474.0	2373.3
50°	10.3	13.0	18.0	32.5	35.4	31.7	38.9	468.7	2171.9	2511.8	2396.0
52.5°	8.7	11.4	15.6	25.7	27.2	27.8	34.1	496.7	2260.9	2552.3	2441.3
55°	7.7	10.0	13.2	18.0	21.1	24.8	31.2	517.0	2380.2	2639.0	2540.9
57.5°	6.1	8.7	11.9	15.3	17.4	21.7	28.8	518.6	2488.0	2750.2	2673.3
59°	5.6	7.9	11.1	14.5	15.6	19.6	27.2	505.2	2492.0	2766.9	2734.1
60°	5.0	7.7	10.6	13.5	14.8	18.5	25.9	489.5	2456.1	2740.5	2759.2
62.5°	4.2	6.6	9.3	10.8	12.7	15.3	22.5	433.0	2281.8	2620.7	2712.7
65°	3.7	5.8	7.9	9.0	10.6	13.2	19.8	346.6	2089.4	2458.4	2579.5
67.5°	3.4	5.3	6.9	7.7	9.3	12.2	17.7	244.8	1840.1	2252.5	2379.4
70°	3.2	5.0	6.1	7.1	8.2	10.3	15.1	142.7	1417.4	1891.4	2025.4
72.5°	3.2	4.8	5.3	6.1	7.1	9.3	14.0	77.2	969.1	1442.8	1616.0
75°	3.2	4.5	4.8	5.3	6.3	8.5	12.4	40.5	626.5	1002.4	1237.1
77.5°	3.2	4.2	4.8	5.0	6.1	7.4	10.8	25.4	417.4	702.1	836.1
80°	3.4	4.2	4.5	5.0	5.8	6.9	9.0	16.9	245.3	422.4	508.9
82.5°	3.7	4.2	4.8	5.3	6.1	6.6	7.9	10.6	113.1	279.4	316.1
85°	4.0	4.5	5.0	5.6	6.3	6.6	7.4	7.7	18.5	126.1	170.5
87.5°	4.2	4.8	5.3	5.8	6.9	6.9	6.9	6.9	6.3	13.5	34.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4	1149.4
2.5°	1296.9	1326.8	1347.6	1352.9	1337.9	1331.0	1312.0	1282.4	1264.4	1263.6
5°	1366.7	1436.7	1485.4	1493.5	1464.4	1415.3	1356.9	1281.5	1237.4	1224.2
7.5°	1354.8	1477.5	1555.7	1567.0	1518.2	1424.3	1311.1	1189.8	1141.7	1121.4
10°	1305.9	1455.5	1567.3	1585.3	1520.0	1387.8	1244.0	1108.7	1048.9	1033.3
12.5°	1264.1	1415.3	1514.7	1539.5	1490.1	1358.2	1203.8	1056.5	992.6	978.1
15°	1245.9	1367.7	1428.5	1441.2	1433.0	1339.7	1199.6	1048.6	975.5	959.6
17.5°	1264.1	1327.3	1334.9	1347.9	1366.1	1337.9	1240.3	1091.8	1012.7	993.1
20°	1312.0	1292.1	1260.4	1266.0	1307.8	1345.5	1312.7	1187.2	1090.9	1070.1
22.5°	1393.4	1283.4	1211.5	1206.8	1259.6	1371.2	1419.0	1316.4	1204.9	1184.3
25°	1493.3	1305.3	1193.5	1183.2	1240.8	1408.7	1534.5	1474.8	1352.9	1321.5
27.5°	1602.2	1350.8	1193.5	1183.5	1239.2	1442.0	1633.4	1614.9	1506.2	1471.9
30°	1661.9	1388.3	1210.7	1199.4	1258.8	1461.3	1686.3	1739.4	1621.5	1579.0
32.5°	1715.3	1440.4	1244.3	1222.9	1299.8	1489.8	1733.6	1845.2	1713.2	1684.7
35°	1764.5	1496.2	1290.5	1265.7	1353.7	1528.9	1785.9	1956.2	1840.9	1797.8
37.5°	1818.7	1561.0	1362.7	1341.6	1443.8	1605.1	1848.0	2102.1	1966.4	1912.3
40°	1877.6	1636.0	1481.4	1472.4	1587.1	1691.3	1926.6	2257.7	2109.7	2048.2
42.5°	1937.7	1722.5	1626.7	1641.5	1749.4	1812.1	2007.2	2377.5	2227.1	2159.2
45°	1992.1	1833.0	1815.8	1889.1	1938.7	1930.0	2066.9	2461.9	2329.4	2264.4
47.5°	2060.9	1993.9	2044.5	2157.3	2158.7	2058.2	2112.1	2530.8	2417.5	2352.4
50°	2137.7	2184.0	2339.7	2454.7	2423.8	2184.3	2165.0	2612.6	2508.4	2456.3
52.5°	2226.9	2396.8	2612.6	2740.2	2668.1	2321.7	2253.0	2700.8	2652.7	2602.7
55°	2330.5	2541.9	2884.5	2986.3	2913.6	2492.6	2386.8	2820.5	2815.8	2781.7
57.5°	2447.6	2695.2	3042.1	3179.8	3115.1	2692.9	2573.6	2933.4	2915.5	2896.4
59°	2540.1	2774.0	3111.6	3254.3	3215.2	2833.2	2699.3	3003.8	2938.5	2909.9
60°	2596.2	2827.4	3137.3	3264.4	3255.4	2916.8	2778.8	3038.1	2938.2	2898.6
62.5°	2762.4	2920.8	3127.5	3219.8	3254.9	3077.0	3012.2	3076.0	2883.8	2825.6
65°	2821.6	2889.8	2965.5	2954.1	2984.2	3068.8	3161.3	3034.4	2767.4	2684.7
67.5°	2706.3	2550.7	2577.3	2501.5	2486.7	2728.3	3100.8	2831.4	2539.8	2438.6
70°	2281.3	1954.1	1940.5	1975.4	1879.8	2208.9	2784.4	2440.4	2164.2	2049.4
72.5°	1795.7	1380.9	1267.3	1395.7	1392.9	1685.2	2313.0	1731.7	1462.1	1452.3
75°	1412.1	961.4	843.8	864.7	904.8	1220.0	1842.2	1099.7	900.4	820.6
77.5°	948.0	681.2	635.5	609.8	653.2	783.2	1165.5	596.4	504.9	478.2
80°	546.4	494.8	562.0	510.2	533.4	493.5	579.7	273.6	227.1	245.8
82.5°	355.6	281.8	300.3	223.1	305.0	307.7	186.1	80.9	68.5	72.7
85°	222.3	132.2	74.3	52.9	105.2	193.5	58.2	5.0	5.8	5.0
87.5°	57.6	22.0	9.3	13.7	16.9	15.1	13.5	0.8	0.3	0.5
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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