

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: P324595

Luminaire Tested: **GLEON-SA1B-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 3261 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
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

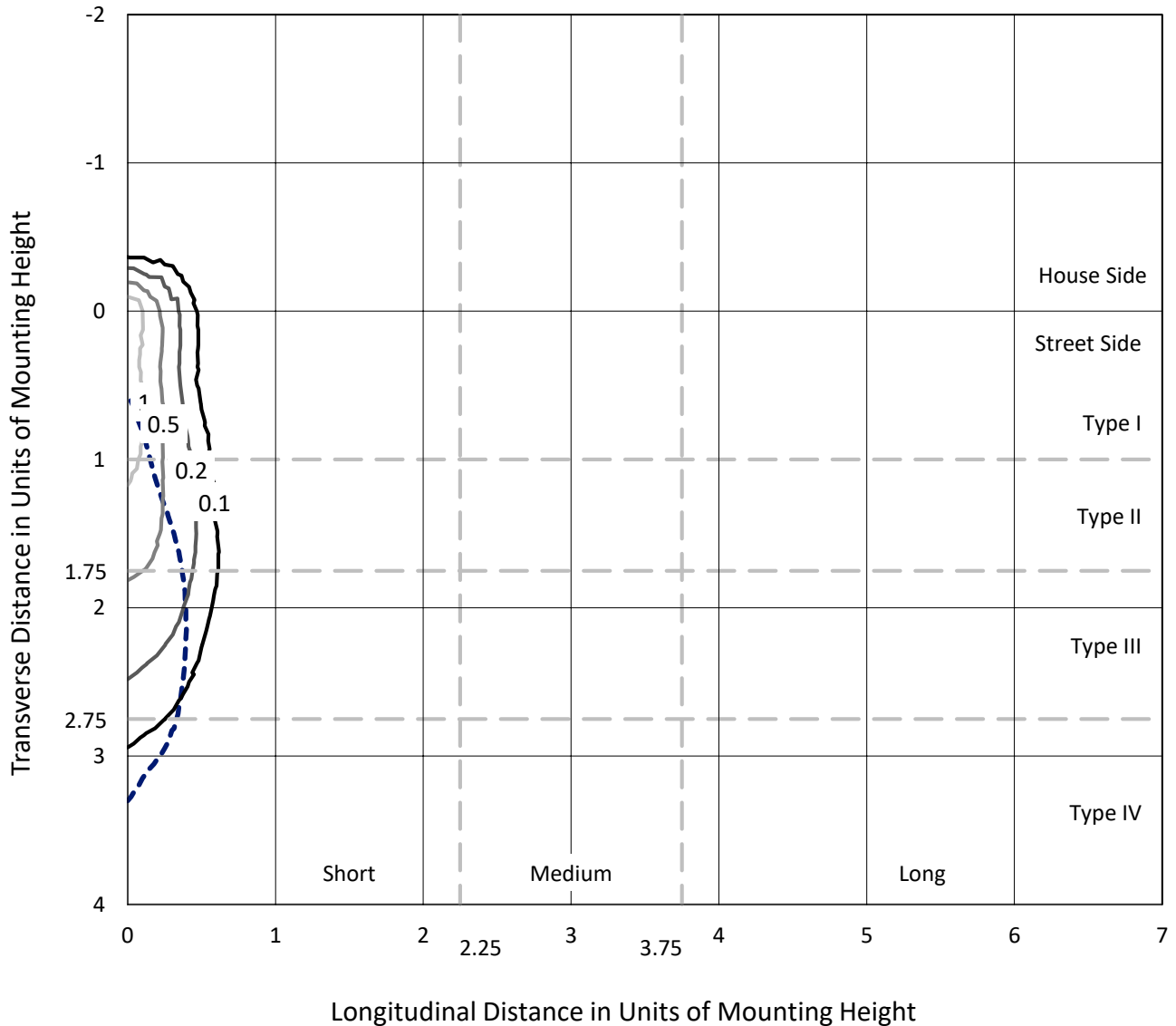




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Iso-Footcandle Lines of Horizontal Illumination

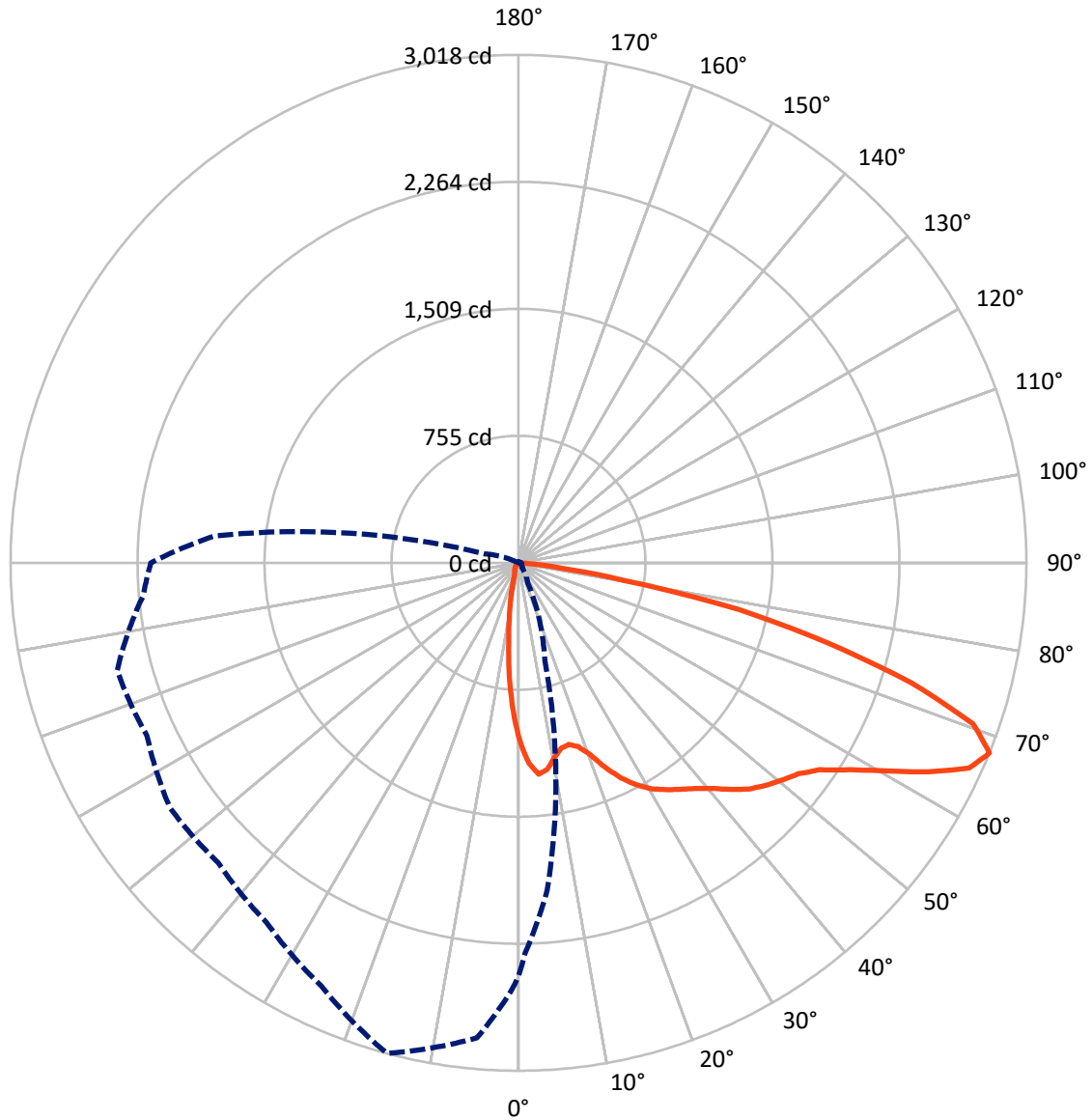
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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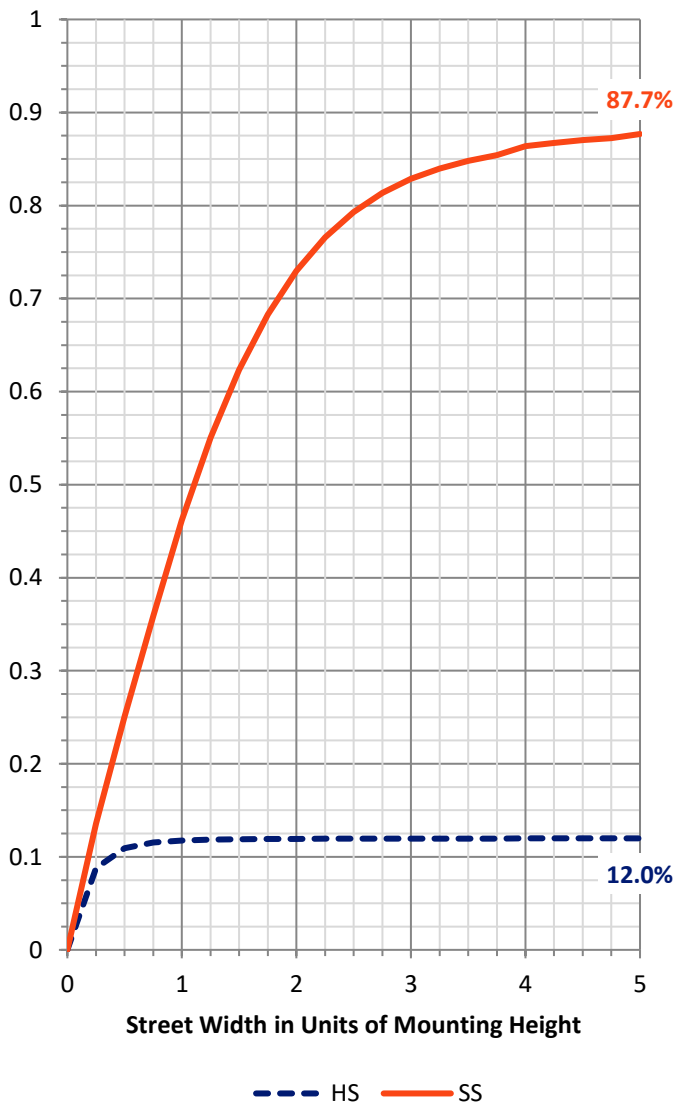
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.7	0.0	394.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	2866.3	0.0	2866.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	3261.0	0.0	3261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.5
10°-20°	162.3	5.0
20°-30°	230.4	7.1
30°-40°	340.4	10.4
40°-50°	490.9	15.1
50°-60°	689.1	21.1
60°-70°	803.3	24.6
70°-80°	410.7	12.6
80°-90°	52.4	1.6
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°	3261.0	100.0
0°-180°	3261.0	100.0

Coefficient of Utilization

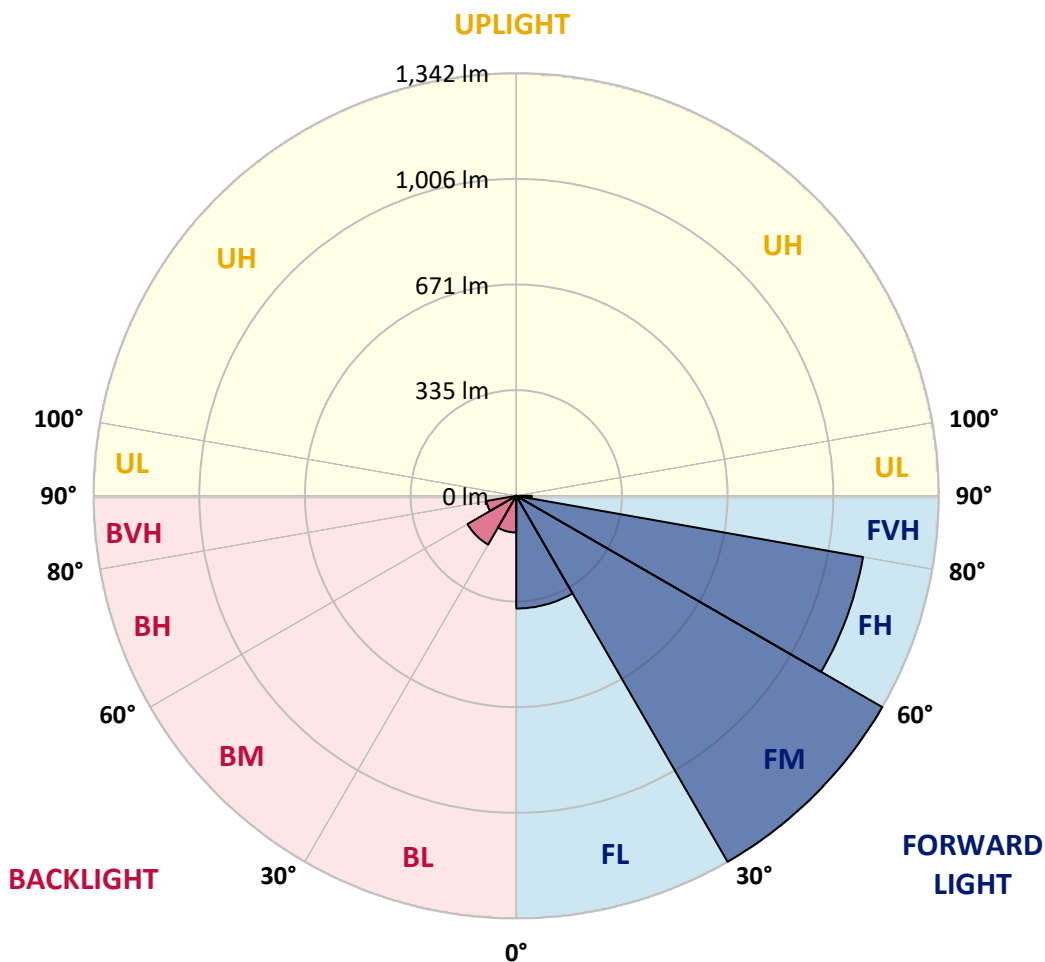


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.7	11.0			
FM (30°-60°)	1341.6	41.1			
FH (60°-80°)	1117.8	34.3			G1/1800
FVH (80°-90°)	49.3	1.5			G1/100
BL (0°-30°)	116.6	3.6	B1/500		
BM (30°-60°)	178.7	5.5	B0/220		
BH (60°-80°)	96.2	3.0	B0/110		G0/110
BVH (80°-90°)	3.2	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-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3
2.5°	1163.1	1154.2	1144.3	1112.0	1082.0	1047.7	1019.8	1000.3	975.9	944.2	936.2
5°	1154.8	1145.2	1114.2	1042.3	979.5	918.3	859.3	824.7	781.7	738.1	727.3
7.5°	1070.9	1060.9	1016.1	917.7	833.0	744.6	668.0	620.6	572.1	532.2	511.0
10°	983.6	972.7	922.3	802.9	698.6	618.7	562.5	517.2	471.3	428.7	394.7
12.5°	923.5	909.2	854.5	719.1	628.3	574.1	521.6	467.3	405.2	359.5	322.1
15°	898.4	882.0	824.2	686.9	603.4	539.8	471.3	404.8	332.0	279.6	245.3
17.5°	917.8	896.5	834.5	684.7	572.2	485.6	399.0	320.9	241.9	188.9	164.5
20°	983.9	956.0	877.3	684.1	534.4	421.1	311.4	223.1	159.4	128.2	115.4
22.5°	1088.1	1051.1	938.8	689.0	495.3	353.5	224.9	151.6	119.7	103.5	95.9
25°	1213.8	1171.0	1027.4	706.5	461.0	287.7	163.4	119.7	101.0	89.1	82.8
27.5°	1333.4	1298.6	1139.2	731.7	434.4	234.5	132.7	101.5	86.4	78.5	73.4
30°	1452.8	1409.1	1254.0	761.6	402.4	198.5	116.6	92.5	77.4	69.1	65.8
32.5°	1539.6	1503.3	1343.9	783.3	368.3	175.0	104.3	84.7	72.3	63.8	59.0
35°	1641.8	1600.7	1421.0	788.0	346.4	160.2	93.8	76.2	62.7	55.2	50.1
37.5°	1752.1	1700.9	1510.0	777.5	329.2	152.9	85.9	72.3	58.6	50.8	45.4
40°	1874.1	1816.3	1595.4	762.4	312.4	150.5	79.9	69.4	55.3	47.4	41.9
42.5°	2002.6	1934.5	1669.4	746.5	301.7	142.0	79.3	66.4	52.8	44.3	38.8
45°	2110.6	2041.6	1745.4	741.2	294.1	132.7	81.9	64.4	51.1	41.9	36.5
47.5°	2196.7	2131.3	1823.3	753.0	289.8	124.2	74.6	67.0	50.2	39.7	34.5
50°	2299.4	2225.4	1933.0	788.0	283.5	115.7	67.5	76.8	50.2	38.3	32.8
52.5°	2428.3	2355.0	2055.3	842.4	270.8	104.0	60.7	76.9	50.7	36.5	30.6
55°	2590.3	2537.2	2230.0	902.1	250.6	86.7	52.5	66.1	48.8	33.1	28.6
57.5°	2745.7	2702.3	2389.3	942.8	223.5	67.7	45.7	53.3	44.6	29.0	25.5
59°	2788.2	2740.8	2447.7	944.7	203.3	59.0	42.3	44.0	43.7	27.2	23.6
60°	2788.2	2737.8	2464.6	934.8	188.6	54.2	40.2	39.2	45.6	26.0	22.6
62.5°	2737.7	2666.9	2409.9	867.9	153.9	46.2	35.1	32.4	40.9	23.3	19.9
65°	2632.6	2529.6	2223.6	747.0	137.2	42.3	30.3	26.6	28.4	20.5	17.5
67.5°	2457.5	2317.8	1954.9	603.4	130.5	41.2	26.1	22.6	21.5	17.6	15.3
70°	2148.9	1994.0	1628.8	474.4	124.8	40.8	21.9	19.0	17.3	14.8	13.0
72.5°	1564.0	1402.4	1156.3	370.9	121.4	41.7	17.6	15.9	14.2	11.6	10.0
75°	894.6	788.8	649.9	245.0	103.5	39.9	13.6	13.3	10.2	8.3	7.0
77.5°	462.2	448.2	389.5	94.1	49.6	17.5	9.0	7.7	6.0	5.1	4.2
80°	199.4	197.3	170.7	27.2	13.1	9.7	5.1	3.2	2.8	2.2	1.7
82.5°	68.9	68.9	60.7	9.1	5.9	4.8	0.6	0.0	0.0	0.0	0.0
85°	13.9	15.6	11.0	0.0	2.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3
2.5°	926.5	907.8	906.5	894.8	880.1	873.5	869.6	876.4	884.8	885.7	898.2
5°	719.1	699.5	707.7	686.9	691.0	686.9	680.1	681.3	685.0	673.4	687.8
7.5°	505.0	490.2	499.6	494.1	501.5	504.4	500.2	494.1	475.8	473.7	486.2
10°	380.7	363.8	353.8	343.3	345.6	350.4	348.8	344.4	332.8	333.4	345.4
12.5°	305.9	287.0	267.1	241.3	235.0	238.5	235.0	232.4	221.2	222.2	232.8
15°	232.0	216.6	195.7	175.0	163.8	164.8	155.0	148.0	141.0	132.7	139.2
17.5°	156.7	147.2	141.0	134.9	121.4	118.3	105.8	92.4	87.1	83.3	86.1
20°	110.9	105.8	103.4	103.0	95.3	91.5	79.3	70.9	68.3	67.5	69.2
22.5°	92.7	89.0	85.4	83.4	79.6	75.1	65.8	61.6	59.8	58.9	60.1
25°	80.6	77.9	74.2	70.8	69.2	64.4	57.8	54.7	53.5	52.5	53.1
27.5°	71.7	69.2	64.9	62.7	61.5	57.3	51.6	49.1	48.0	47.7	47.6
30°	64.6	62.3	58.2	55.8	53.6	49.9	46.5	44.0	42.9	42.6	42.3
32.5°	57.5	55.6	53.0	50.5	48.2	44.8	41.9	39.9	38.2	37.8	37.7
35°	48.5	46.7	45.3	45.1	42.9	39.7	37.5	34.9	33.5	33.1	33.2
37.5°	43.1	40.6	37.5	38.6	38.0	35.7	32.8	30.1	28.7	28.4	28.4
40°	39.7	37.1	33.5	31.7	33.5	33.1	28.4	25.8	24.4	24.3	23.9
42.5°	36.5	33.8	29.8	26.7	27.7	29.0	24.6	22.1	20.7	20.4	19.9
45°	34.1	31.4	26.9	23.3	21.5	24.4	21.0	17.9	17.1	16.5	16.2
47.5°	32.0	29.4	24.3	20.2	17.1	17.6	16.8	14.7	13.7	13.1	13.0
50°	30.1	27.3	21.9	17.3	14.2	13.0	13.6	11.6	10.8	10.2	9.9
52.5°	28.0	25.3	19.5	15.0	11.9	10.2	10.4	9.1	8.3	7.9	7.7
55°	26.3	23.6	17.5	13.1	10.5	8.3	7.4	7.1	6.6	6.3	6.2
57.5°	23.9	21.5	15.4	11.1	9.0	6.8	5.7	5.7	5.6	5.3	5.1
59°	22.6	20.4	14.2	10.0	8.2	5.9	5.1	5.3	5.1	4.8	4.6
60°	21.5	19.5	13.3	9.3	7.7	5.4	4.6	4.9	4.8	4.5	4.3
62.5°	19.0	17.6	11.4	7.7	6.8	4.3	3.9	4.2	4.2	4.0	3.9
65°	16.7	15.1	9.7	6.5	6.3	3.7	3.1	3.7	3.9	3.6	3.2
67.5°	14.5	13.0	8.5	5.3	5.9	2.9	2.3	3.1	4.2	3.2	2.9
70°	12.4	10.8	6.6	4.2	6.2	2.0	1.9	2.8	4.9	3.6	2.8
72.5°	9.6	8.3	4.6	3.1	6.6	1.4	1.4	2.3	5.6	3.9	2.6
75°	6.6	5.4	2.8	1.9	5.4	0.9	0.9	2.2	5.3	3.6	2.5
77.5°	3.9	2.9	0.9	0.2	2.8	0.0	0.2	1.5	3.7	2.2	1.1
80°	1.4	0.6	0.0	0.0	1.7	0.0	0.0	0.0	0.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3
2.5°	901.4	922.3	941.0	969.3	1002.8	1041.4	1074.6	1110.3	1143.8	1157.7	1167.3
5°	690.7	716.5	746.6	788.2	843.5	911.6	975.4	1047.6	1125.1	1163.9	1200.4
7.5°	488.3	514.6	552.0	596.2	663.1	744.2	827.6	927.2	1032.3	1093.6	1154.0
10°	351.2	383.4	418.4	478.8	546.7	623.7	709.6	820.8	937.9	1005.9	1078.6
12.5°	239.0	275.8	328.6	396.3	476.1	551.5	626.1	732.3	868.2	935.6	1013.6
15°	143.4	163.8	219.7	298.0	396.0	489.9	571.6	678.1	823.0	905.5	986.6
17.5°	88.4	97.8	128.2	192.5	295.4	414.2	526.2	659.7	829.5	929.9	1016.7
20°	70.4	74.2	83.9	113.7	195.7	330.8	475.1	656.0	882.4	1006.0	1099.2
22.5°	61.2	64.7	71.2	82.7	123.1	247.6	426.5	659.4	958.4	1120.2	1229.0
25°	53.9	57.0	63.2	72.6	90.2	174.4	374.6	674.5	1057.5	1261.9	1377.4
27.5°	48.2	50.8	56.5	65.2	77.4	121.7	315.8	692.9	1174.9	1406.8	1520.8
30°	42.9	45.3	50.4	58.4	67.2	93.6	251.2	705.4	1292.5	1520.8	1623.2
32.5°	38.5	40.2	44.8	51.6	58.4	74.6	190.9	703.4	1379.7	1615.6	1696.9
35°	33.8	35.5	39.5	45.4	50.8	61.6	150.2	665.8	1455.7	1714.1	1781.3
37.5°	28.7	30.9	34.8	40.0	43.7	54.2	121.4	620.6	1532.8	1826.5	1875.3
40°	24.4	26.6	30.0	35.7	38.0	51.4	93.3	565.4	1619.5	1952.3	1978.5
42.5°	20.2	22.2	25.8	30.7	35.8	44.3	69.1	502.4	1702.8	2059.8	2072.6
45°	16.4	18.4	22.1	27.0	38.3	36.8	53.5	434.9	1770.0	2149.2	2153.4
47.5°	13.0	14.8	18.7	25.5	35.7	29.4	38.2	381.9	1826.4	2219.1	2208.1
50°	10.0	11.6	15.6	29.2	31.2	24.3	28.9	364.3	1876.9	2262.3	2233.9
52.5°	7.9	9.3	12.8	27.3	24.3	20.1	24.3	380.8	1946.1	2298.2	2248.4
55°	6.3	7.7	10.0	15.6	16.5	17.0	20.7	396.3	2065.5	2382.2	2334.2
57.5°	5.3	6.6	8.2	11.0	12.5	14.4	18.4	398.0	2206.3	2521.9	2476.5
59°	4.8	6.0	7.4	9.7	11.0	13.1	17.3	388.7	2255.8	2572.7	2550.0
60°	4.5	5.7	7.0	9.0	10.2	12.4	16.7	379.9	2258.0	2570.8	2581.4
62.5°	3.9	5.1	6.2	7.6	8.7	10.5	15.0	347.3	2166.6	2486.7	2562.5
65°	3.4	4.5	5.6	6.5	7.4	9.4	13.6	287.8	2010.4	2350.9	2433.5
67.5°	3.1	3.9	5.1	5.7	6.6	8.3	12.1	205.2	1815.2	2184.8	2238.4
70°	2.8	3.7	4.6	5.3	6.0	7.3	10.4	117.9	1532.8	1941.6	1979.8
72.5°	2.6	3.6	4.2	4.9	5.4	6.5	9.4	55.5	1122.4	1555.4	1655.0
75°	2.3	3.2	3.9	4.6	5.1	5.9	8.0	26.6	746.5	1125.6	1238.8
77.5°	1.4	2.6	3.6	4.2	4.5	5.1	6.6	15.3	476.4	779.1	917.7
80°	0.0	0.9	2.6	3.6	3.9	4.3	5.1	12.1	254.9	445.1	534.2
82.5°	0.0	0.0	1.9	2.8	2.6	2.9	3.9	7.6	114.9	290.9	327.8
85°	0.0	0.0	0.6	2.2	1.9	1.4	2.6	2.6	25.2	147.2	183.7
87.5°	0.0	0.0	0.0	0.2	0.9	0.6	1.1	0.3	0.2	11.0	44.5
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°	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3	1062.3
2.5°	1200.8	1212.3	1231.6	1240.7	1236.2	1217.2	1194.5	1171.3	1157.7	1163.1
5°	1274.7	1333.5	1367.5	1378.8	1360.0	1317.3	1261.6	1188.0	1161.9	1154.8
7.5°	1274.7	1385.5	1455.6	1468.0	1425.9	1342.4	1237.8	1123.0	1084.8	1070.9
10°	1229.9	1380.7	1478.5	1498.1	1439.4	1314.4	1174.3	1043.3	998.0	983.6
12.5°	1179.4	1341.7	1444.8	1471.8	1423.6	1286.6	1130.2	989.3	936.0	923.5
15°	1148.3	1293.8	1379.1	1398.7	1378.3	1270.4	1119.7	973.1	910.4	898.4
17.5°	1159.4	1256.8	1287.5	1298.9	1312.7	1264.6	1148.3	1008.7	929.2	917.8
20°	1201.3	1217.7	1201.8	1216.1	1253.2	1270.2	1216.4	1094.6	999.2	983.9
22.5°	1272.4	1197.4	1152.8	1158.5	1203.6	1288.6	1320.6	1217.2	1107.2	1088.1
25°	1355.2	1213.8	1125.6	1120.5	1166.9	1312.8	1415.7	1350.7	1235.0	1213.8
27.5°	1459.3	1250.6	1120.0	1114.9	1154.0	1335.6	1494.8	1482.6	1369.5	1333.4
30°	1539.6	1286.7	1136.6	1124.8	1166.9	1351.3	1558.3	1594.6	1476.8	1452.8
32.5°	1597.3	1329.4	1163.5	1146.5	1203.0	1378.5	1607.3	1697.2	1575.9	1539.6
35°	1641.1	1375.7	1206.9	1178.9	1252.7	1419.8	1653.2	1806.4	1681.5	1641.8
37.5°	1682.2	1440.8	1274.7	1241.3	1330.8	1486.2	1701.7	1930.3	1799.5	1752.1
40°	1739.5	1514.5	1379.3	1349.6	1461.9	1576.7	1762.3	2059.5	1933.7	1874.1
42.5°	1796.9	1593.6	1486.3	1494.4	1625.5	1686.7	1840.4	2196.1	2066.3	2002.6
45°	1849.2	1675.1	1638.8	1675.9	1777.4	1807.4	1918.1	2275.0	2172.1	2110.6
47.5°	1895.9	1777.1	1790.4	1889.1	1950.1	1916.6	1976.2	2343.1	2250.9	2196.7
50°	1950.1	1909.0	1990.1	2129.8	2148.9	2015.5	2029.1	2423.8	2343.0	2299.4
52.5°	2009.4	2048.1	2211.4	2334.5	2328.3	2122.8	2082.2	2514.2	2469.2	2428.3
55°	2076.8	2160.4	2406.2	2526.0	2520.8	2242.7	2170.3	2625.8	2627.4	2590.3
57.5°	2176.7	2257.1	2538.4	2681.0	2689.8	2381.1	2319.5	2751.0	2770.4	2745.7
59°	2248.4	2319.8	2590.8	2745.7	2781.6	2488.2	2428.6	2823.6	2810.8	2788.2
60°	2301.6	2359.7	2616.7	2779.6	2834.9	2560.8	2509.1	2866.2	2815.6	2788.2
62.5°	2433.0	2446.5	2663.5	2817.9	2896.2	2722.1	2735.5	2938.8	2782.3	2737.7
65°	2494.4	2501.3	2662.9	2749.3	2836.9	2847.7	2941.0	2941.0	2701.2	2632.6
67.5°	2468.7	2435.2	2530.8	2521.9	2609.3	2773.1	3018.2	2833.2	2546.1	2457.5
70°	2260.2	2131.2	2088.7	2092.6	2159.4	2412.0	2865.3	2515.8	2252.6	2148.9
72.5°	1880.6	1571.2	1466.3	1586.0	1603.4	1853.7	2441.8	1894.7	1661.2	1564.0
75°	1512.6	1107.5	937.0	1063.3	1093.0	1356.6	1888.9	1180.0	970.3	894.6
77.5°	1086.7	795.0	672.3	663.5	701.8	860.3	1340.3	593.9	495.3	462.2
80°	617.3	523.3	563.4	531.6	550.9	537.9	636.8	260.5	213.3	199.4
82.5°	372.6	309.3	334.9	278.9	352.9	307.3	245.3	83.4	72.5	68.9
85°	242.4	169.0	88.1	59.0	121.6	196.4	54.8	22.7	17.5	13.9
87.5°	83.6	43.1	4.3	1.9	13.0	36.6	2.0	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

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