

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: STREETWORKS

Report Number: P324585

Luminaire Tested: **GAN-SA1A-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324585
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: STREETWORKS
Catalog Number: GAN-SA1A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA 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: 2659 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

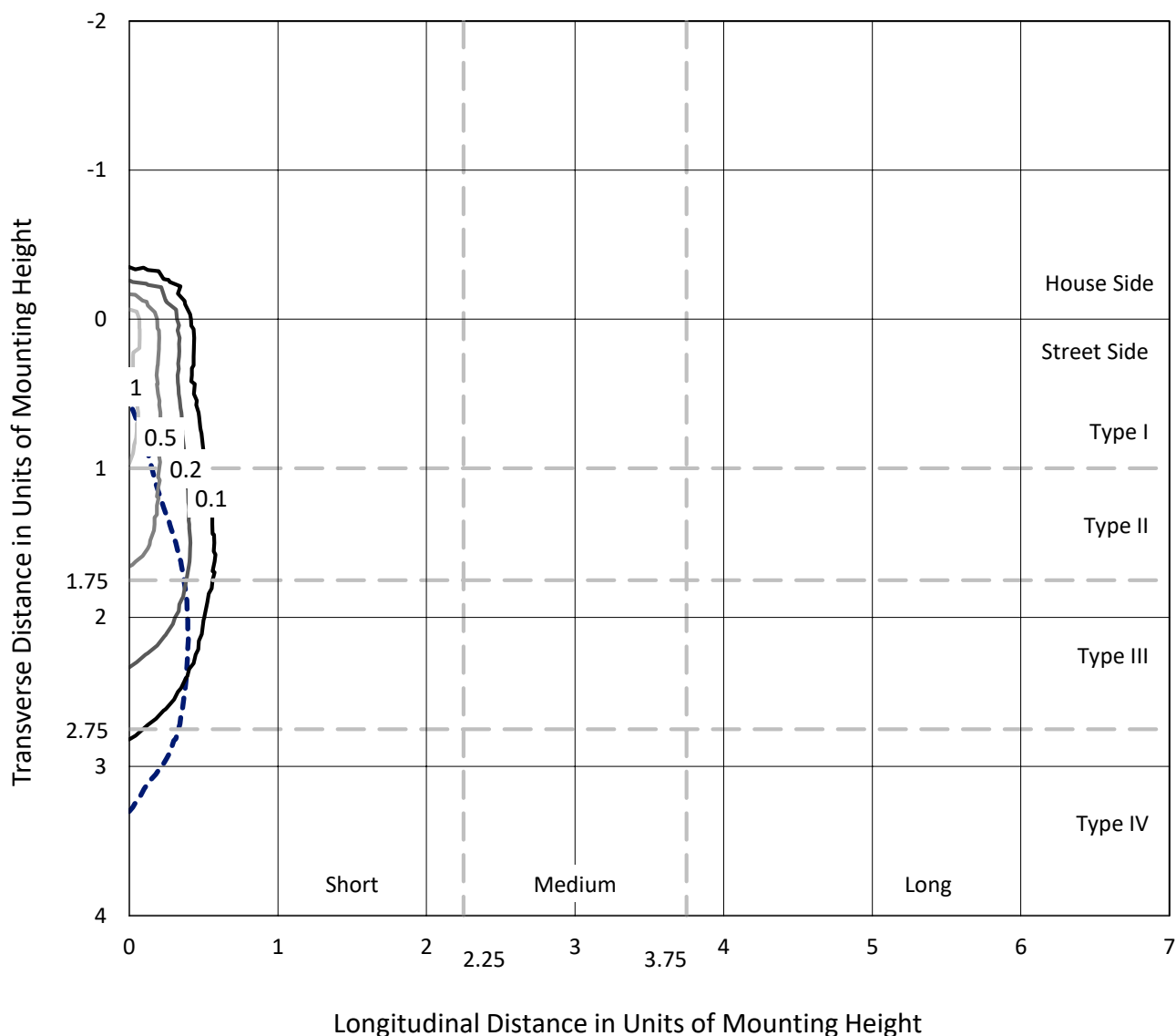
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

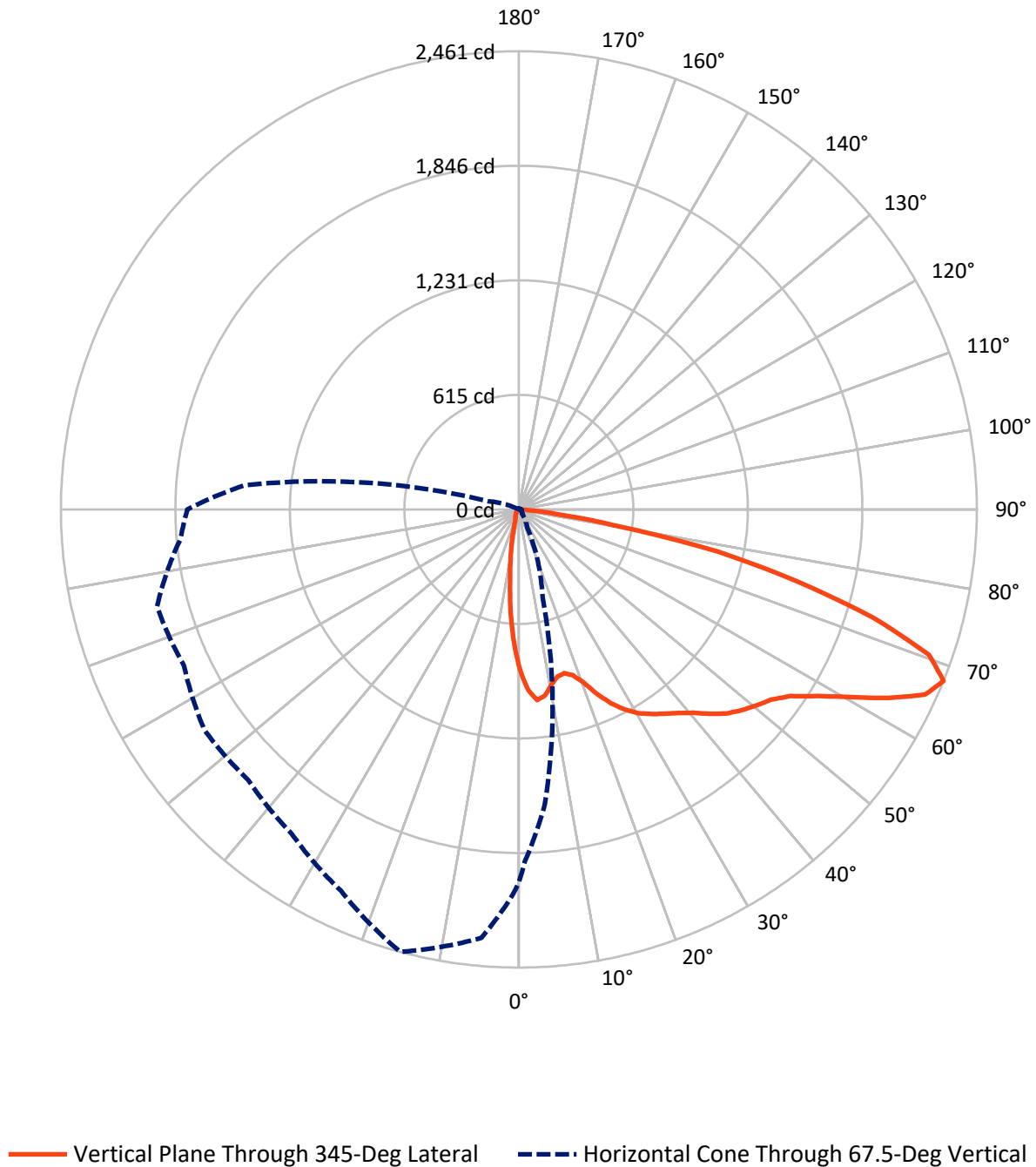
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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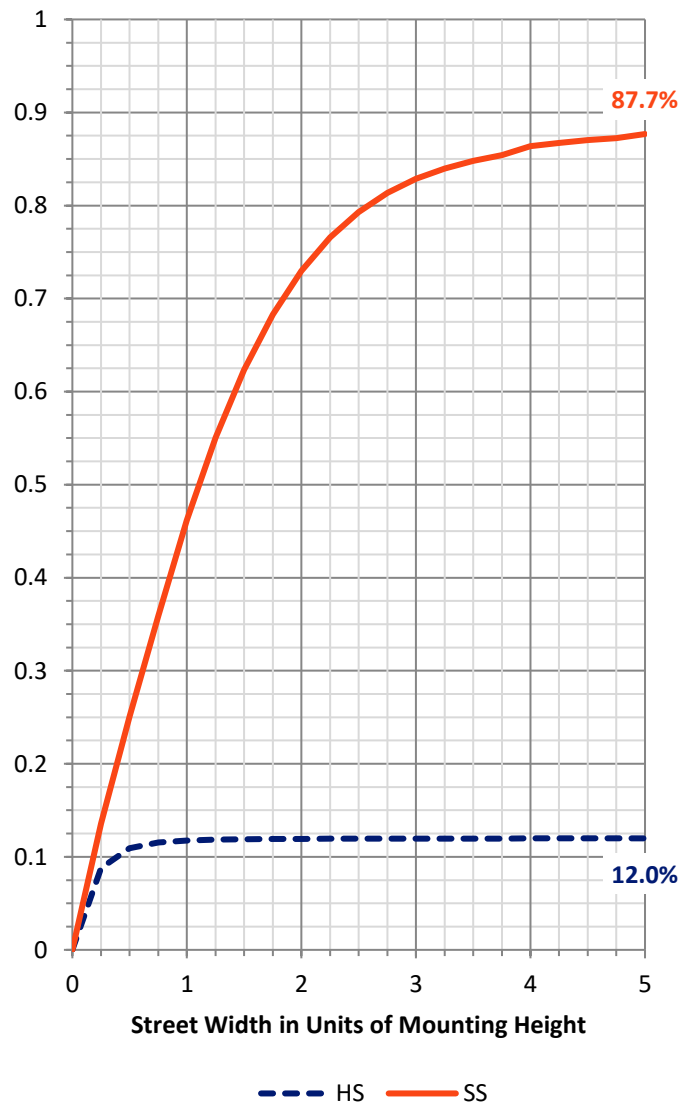
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	321.8	0.0	321.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	2337.2	0.0	2337.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	2659.0	0.0	2659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	2.5
10°-20°	132.3	5.0
20°-30°	187.9	7.1
30°-40°	277.5	10.4
40°-50°	400.3	15.1
50°-60°	561.9	21.1
60°-70°	655.0	24.6
70°-80°	334.9	12.6
80°-90°	42.8	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°	2659.0	100.0
0°-180°	2659.0	100.0

Coefficient of Utilization



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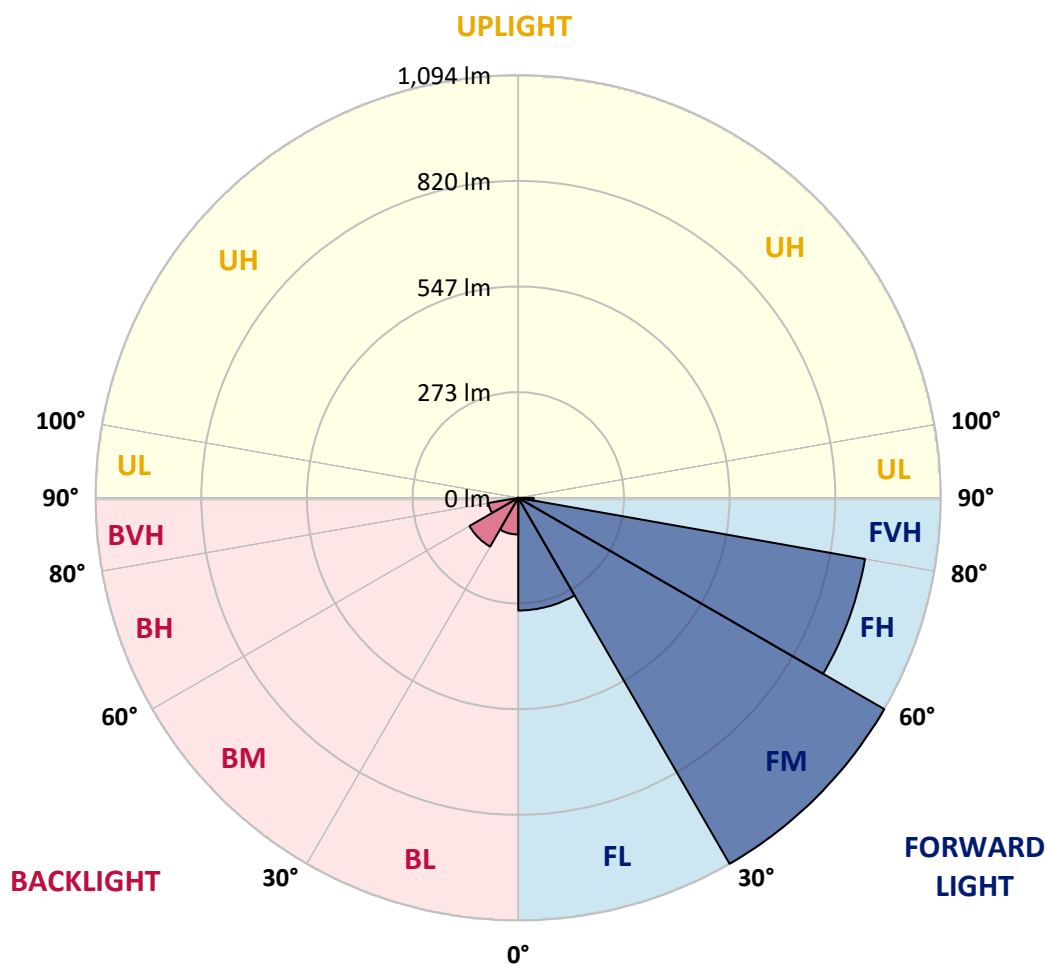
CATALOG NUMBER: GAN-SA1A-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.6	11.0			
FM	(30°-60°)	1094.0	41.1			
FH	(60°-80°)	911.4	34.3			G1/1800
FVH	(80°-90°)	40.2	1.5			G1/100
BL	(0°-30°)	95.1	3.6	B0/110		
BM	(30°-60°)	145.7	5.5	B0/220		
BH	(60°-80°)	78.4	2.9	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: B0-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	948.4	941.1	933.1	906.7	882.3	854.3	831.5	815.7	795.7	769.9	763.4
5°	941.6	933.8	908.5	849.9	798.6	748.8	700.6	672.4	637.4	601.9	593.1
7.5°	873.2	865.0	828.5	748.3	679.2	607.2	544.7	506.0	466.5	434.0	416.7
10°	802.0	793.1	752.0	654.7	569.6	504.5	458.7	421.7	384.3	349.6	321.9
12.5°	753.0	741.3	696.7	586.4	512.3	468.1	425.3	381.1	330.4	293.1	262.6
15°	732.5	719.2	672.0	560.1	492.0	440.1	384.3	330.0	270.7	228.0	200.0
17.5°	748.4	731.0	680.5	558.3	466.6	395.9	325.4	261.6	197.3	154.1	134.2
20°	802.3	779.5	715.4	557.8	435.7	343.4	254.0	181.9	130.0	104.6	94.1
22.5°	887.2	857.1	765.5	561.8	403.9	288.2	183.4	123.6	97.6	84.4	78.2
25°	989.7	954.8	837.7	576.1	375.9	234.6	133.3	97.6	82.4	72.7	67.5
27.5°	1087.2	1058.9	928.9	596.6	354.2	191.2	108.2	82.8	70.4	64.0	59.8
30°	1184.6	1149.0	1022.5	621.0	328.1	161.9	95.1	75.5	63.1	56.3	53.7
32.5°	1255.4	1225.8	1095.8	638.7	300.3	142.7	85.0	69.0	59.0	52.0	48.1
35°	1338.7	1305.2	1158.7	642.6	282.4	130.6	76.5	62.1	51.1	45.0	40.8
37.5°	1428.6	1386.9	1231.2	634.0	268.4	124.7	70.0	59.0	47.7	41.4	37.0
40°	1528.1	1481.0	1300.9	621.7	254.7	122.7	65.1	56.6	45.1	38.7	34.1
42.5°	1632.9	1577.4	1361.2	608.7	246.0	115.8	64.6	54.2	43.1	36.2	31.6
45°	1721.0	1664.7	1423.2	604.4	239.8	108.2	66.8	52.5	41.7	34.1	29.7
47.5°	1791.2	1737.9	1486.7	614.0	236.3	101.3	60.8	54.7	40.9	32.4	28.1
50°	1874.9	1814.6	1576.1	642.6	231.2	94.4	55.0	62.6	40.9	31.2	26.7
52.5°	1980.0	1920.3	1675.9	686.9	220.8	84.8	49.5	62.7	41.3	29.7	24.9
55°	2112.1	2068.8	1818.4	735.5	204.3	70.7	42.8	53.9	39.8	27.0	23.3
57.5°	2238.9	2203.5	1948.2	768.8	182.3	55.2	37.3	43.5	36.4	23.7	20.8
59°	2273.5	2234.8	1995.9	770.3	165.8	48.1	34.5	35.9	35.6	22.2	19.3
60°	2273.5	2232.4	2009.6	762.2	153.8	44.2	32.8	32.0	37.2	21.2	18.4
62.5°	2232.3	2174.6	1965.0	707.7	125.5	37.7	28.6	26.5	33.4	19.0	16.3
65°	2146.6	2062.6	1813.1	609.1	111.9	34.5	24.7	21.7	23.2	16.8	14.2
67.5°	2003.8	1889.9	1594.0	492.0	106.4	33.6	21.3	18.4	17.5	14.4	12.5
70°	1752.2	1625.9	1328.1	386.9	101.8	33.3	17.9	15.5	14.1	12.1	10.6
72.5°	1275.3	1143.5	942.9	302.5	99.0	34.0	14.4	13.0	11.6	9.4	8.2
75°	729.5	643.2	530.0	199.8	84.4	32.5	11.1	10.8	8.3	6.8	5.7
77.5°	376.9	365.4	317.6	76.7	40.4	14.2	7.3	6.3	4.9	4.2	3.4
80°	162.6	160.9	139.2	22.2	10.7	7.9	4.2	2.6	2.3	1.8	1.4
82.5°	56.2	56.2	49.5	7.4	4.8	3.9	0.5	0.0	0.0	0.0	0.0
85°	11.3	12.7	8.9	0.0	1.6	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°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	755.4	740.2	739.2	729.6	717.6	712.2	709.1	714.6	721.4	722.2	732.4
5°	586.4	570.4	577.1	560.1	563.5	560.1	554.5	555.5	558.5	549.1	560.8
7.5°	411.8	399.7	407.4	402.8	408.9	411.3	407.9	402.8	388.0	386.2	396.4
10°	310.4	296.7	288.5	279.9	281.8	285.7	284.4	280.8	271.3	271.8	281.7
12.5°	249.4	234.1	217.8	196.8	191.6	194.5	191.6	189.5	180.4	181.1	189.8
15°	189.2	176.6	159.6	142.7	133.5	134.4	126.3	120.7	115.0	108.2	113.5
17.5°	127.7	120.0	115.0	110.0	99.0	96.5	86.3	75.3	71.0	67.9	70.2
20°	90.4	86.3	84.3	84.0	77.7	74.6	64.6	57.8	55.7	55.0	56.4
22.5°	75.6	72.6	69.7	68.0	64.9	61.2	53.7	50.3	48.8	48.0	49.0
25°	65.8	63.5	60.5	57.7	56.4	52.5	47.1	44.6	43.6	42.8	43.3
27.5°	58.4	56.4	52.9	51.1	50.1	46.7	42.1	40.1	39.2	38.9	38.8
30°	52.7	50.8	47.5	45.5	43.7	40.7	37.9	35.9	35.0	34.8	34.5
32.5°	46.9	45.3	43.2	41.2	39.3	36.5	34.1	32.5	31.1	30.9	30.7
35°	39.6	38.0	36.9	36.8	35.0	32.4	30.6	28.5	27.3	27.0	27.1
37.5°	35.1	33.1	30.6	31.5	31.0	29.1	26.7	24.6	23.4	23.2	23.2
40°	32.4	30.2	27.3	25.8	27.3	27.0	23.2	21.0	19.9	19.8	19.5
42.5°	29.7	27.6	24.3	21.8	22.5	23.7	20.0	18.0	16.9	16.6	16.3
45°	27.8	25.6	21.9	19.0	17.5	19.9	17.1	14.6	14.0	13.5	13.2
47.5°	26.1	23.9	19.8	16.5	14.0	14.4	13.7	12.0	11.2	10.7	10.6
50°	24.6	22.3	17.9	14.1	11.6	10.6	11.1	9.4	8.8	8.3	8.1
52.5°	22.8	20.7	15.9	12.2	9.7	8.3	8.4	7.4	6.8	6.4	6.3
55°	21.4	19.3	14.2	10.7	8.6	6.8	6.0	5.8	5.4	5.2	5.0
57.5°	19.5	17.5	12.6	9.1	7.3	5.5	4.7	4.7	4.5	4.3	4.2
59°	18.4	16.6	11.6	8.2	6.7	4.8	4.2	4.3	4.2	3.9	3.8
60°	17.5	15.9	10.8	7.6	6.3	4.4	3.8	4.0	3.9	3.7	3.5
62.5°	15.5	14.4	9.3	6.3	5.5	3.5	3.1	3.4	3.4	3.3	3.1
65°	13.6	12.3	7.9	5.3	5.2	3.0	2.5	3.0	3.1	2.9	2.6
67.5°	11.8	10.6	6.9	4.3	4.8	2.4	1.9	2.5	3.4	2.6	2.4
70°	10.1	8.8	5.4	3.4	5.0	1.6	1.5	2.3	4.0	2.9	2.3
72.5°	7.8	6.8	3.8	2.5	5.4	1.1	1.1	1.9	4.5	3.1	2.1
75°	5.4	4.4	2.3	1.5	4.4	0.8	0.8	1.8	4.3	2.9	2.0
77.5°	3.1	2.4	0.8	0.1	2.3	0.0	0.1	1.3	3.0	1.8	0.9
80°	1.1	0.5	0.0	0.0	1.4	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°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	735.0	752.0	767.3	790.3	817.7	849.2	876.2	905.3	932.7	944.0	951.8
5°	563.2	584.2	608.8	642.7	687.8	743.3	795.4	854.2	917.4	949.1	978.8
7.5°	398.2	419.6	450.1	486.1	540.7	606.8	674.8	756.1	841.7	891.7	941.0
10°	286.3	312.7	341.1	390.4	445.8	508.5	578.6	669.3	764.8	820.2	879.5
12.5°	194.9	224.9	267.9	323.1	388.2	449.7	510.6	597.1	707.9	762.9	826.5
15°	116.9	133.5	179.1	243.0	322.9	399.4	466.1	552.9	671.0	738.3	804.4
17.5°	72.1	79.7	104.6	157.0	240.9	337.7	429.1	537.9	676.3	758.2	829.0
20°	57.4	60.5	68.4	92.7	159.6	269.7	387.4	534.9	719.5	820.3	896.3
22.5°	49.9	52.8	58.1	67.4	100.4	201.9	347.8	537.6	781.5	913.4	1002.1
25°	44.0	46.5	51.5	59.2	73.6	142.2	305.5	550.0	862.3	1028.9	1123.1
27.5°	39.3	41.4	46.1	53.2	63.1	99.3	257.5	565.0	958.0	1147.1	1240.0
30°	35.0	36.9	41.1	47.6	54.8	76.3	204.8	575.2	1053.9	1240.0	1323.6
32.5°	31.4	32.8	36.5	42.1	47.6	60.8	155.7	573.5	1125.0	1317.4	1383.6
35°	27.6	29.0	32.2	37.0	41.4	50.3	122.4	542.9	1187.0	1397.6	1452.4
37.5°	23.4	25.2	28.3	32.6	35.6	44.2	99.0	506.0	1249.9	1489.3	1529.1
40°	19.9	21.7	24.4	29.1	31.0	41.9	76.1	461.0	1320.5	1591.9	1613.3
42.5°	16.5	18.1	21.0	25.1	29.2	36.2	56.3	409.7	1388.4	1679.5	1690.0
45°	13.4	15.0	18.0	22.0	31.2	30.0	43.6	354.6	1443.2	1752.5	1755.9
47.5°	10.6	12.1	15.2	20.8	29.1	23.9	31.1	311.4	1489.2	1809.4	1800.5
50°	8.2	9.4	12.7	23.8	25.4	19.8	23.6	297.0	1530.4	1844.7	1821.5
52.5°	6.4	7.6	10.5	22.3	19.8	16.4	19.8	310.5	1586.8	1873.9	1833.4
55°	5.2	6.3	8.2	12.7	13.5	13.9	16.9	323.1	1684.2	1942.4	1903.3
57.5°	4.3	5.4	6.7	8.9	10.2	11.7	15.0	324.5	1799.0	2056.3	2019.3
59°	3.9	4.9	6.0	7.9	8.9	10.7	14.1	316.9	1839.4	2097.8	2079.2
60°	3.7	4.7	5.7	7.3	8.3	10.1	13.6	309.8	1841.2	2096.3	2104.8
62.5°	3.1	4.2	5.0	6.2	7.1	8.6	12.2	283.2	1766.6	2027.6	2089.5
65°	2.8	3.7	4.5	5.3	6.0	7.7	11.1	234.7	1639.2	1916.9	1984.3
67.5°	2.5	3.1	4.2	4.7	5.4	6.8	9.8	167.3	1480.1	1781.5	1825.2
70°	2.3	3.0	3.8	4.3	4.9	5.9	8.4	96.1	1249.9	1583.2	1614.3
72.5°	2.1	2.9	3.4	4.0	4.4	5.3	7.7	45.2	915.2	1268.3	1349.5
75°	1.9	2.6	3.1	3.8	4.2	4.8	6.6	21.7	608.7	917.8	1010.1
77.5°	1.1	2.1	2.9	3.4	3.7	4.2	5.4	12.5	388.5	635.3	748.3
80°	0.0	0.8	2.1	2.9	3.1	3.5	4.2	9.8	207.8	362.9	435.6
82.5°	0.0	0.0	1.5	2.3	2.1	2.4	3.1	6.2	93.7	237.2	267.3
85°	0.0	0.0	0.5	1.8	1.5	1.1	2.1	2.1	20.5	120.0	149.8
87.5°	0.0	0.0	0.0	0.1	0.8	0.5	0.9	0.3	0.1	8.9	36.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	979.2	988.5	1004.2	1011.7	1008.0	992.5	974.0	955.1	944.0	948.4
5°	1039.4	1087.4	1115.1	1124.3	1108.9	1074.1	1028.7	968.7	947.4	941.6
7.5°	1039.4	1129.7	1186.9	1197.0	1162.7	1094.5	1009.3	915.7	884.6	873.2
10°	1002.8	1125.8	1205.5	1221.5	1173.7	1071.7	957.5	850.7	813.8	802.0
12.5°	961.6	1094.0	1178.1	1200.1	1160.8	1049.1	921.6	806.7	763.2	753.0
15°	936.3	1055.0	1124.5	1140.5	1123.9	1035.8	913.0	793.5	742.3	732.5
17.5°	945.4	1024.8	1049.8	1059.1	1070.4	1031.2	936.3	822.5	757.7	748.4
20°	979.5	992.9	979.9	991.6	1021.9	1035.7	991.9	892.5	814.8	802.3
22.5°	1037.5	976.4	940.0	944.6	981.4	1050.7	1076.8	992.5	902.8	887.2
25°	1105.0	989.7	917.8	913.7	951.4	1070.5	1154.4	1101.3	1007.0	989.7
27.5°	1189.9	1019.7	913.3	909.1	941.0	1089.0	1218.9	1208.9	1116.7	1087.2
30°	1255.4	1049.2	926.8	917.2	951.4	1101.9	1270.7	1300.3	1204.1	1184.6
32.5°	1302.4	1084.0	948.7	934.8	980.9	1124.0	1310.6	1383.9	1285.0	1255.4
35°	1338.2	1121.8	984.1	961.3	1021.5	1157.7	1348.0	1473.0	1371.0	1338.7
37.5°	1371.7	1174.8	1039.4	1012.2	1085.1	1211.8	1387.6	1574.0	1467.3	1428.6
40°	1418.4	1234.9	1124.7	1100.5	1192.0	1285.6	1436.9	1679.3	1576.8	1528.1
42.5°	1465.1	1299.4	1211.9	1218.5	1325.4	1375.3	1500.7	1790.7	1684.8	1632.9
45°	1507.9	1365.9	1336.3	1366.5	1449.3	1473.7	1564.0	1855.0	1771.1	1721.0
47.5°	1545.9	1449.0	1459.9	1540.4	1590.1	1562.8	1611.4	1910.6	1835.4	1791.2
50°	1590.1	1556.6	1622.7	1736.6	1752.2	1643.4	1654.5	1976.3	1910.4	1874.9
52.5°	1638.5	1670.0	1803.1	1903.5	1898.5	1730.9	1697.8	2050.0	2013.4	1980.0
55°	1693.4	1761.6	1962.0	2059.7	2055.4	1828.7	1769.6	2141.1	2142.4	2112.1
57.5°	1774.9	1840.4	2069.8	2186.1	2193.2	1941.6	1891.3	2243.1	2259.0	2238.9
59°	1833.4	1891.6	2112.5	2238.9	2268.1	2028.9	1980.2	2302.3	2291.9	2273.5
60°	1876.7	1924.1	2133.7	2266.4	2311.5	2088.1	2045.9	2337.1	2295.8	2273.5
62.5°	1983.9	1994.8	2171.8	2297.7	2361.5	2219.6	2230.5	2396.3	2268.7	2232.3
65°	2033.9	2039.6	2171.3	2241.7	2313.2	2322.0	2398.1	2398.1	2202.6	2146.6
67.5°	2013.0	1985.7	2063.6	2056.3	2127.6	2261.1	2461.1	2310.1	2076.1	2003.8
70°	1842.9	1737.7	1703.1	1706.3	1760.8	1966.8	2336.4	2051.4	1836.8	1752.2
72.5°	1533.4	1281.1	1195.6	1293.2	1307.4	1511.5	1991.1	1544.9	1354.5	1275.3
75°	1233.4	903.1	764.0	867.0	891.2	1106.1	1540.2	962.2	791.2	729.5
77.5°	886.1	648.2	548.2	541.0	572.3	701.5	1092.9	484.2	403.9	376.9
80°	503.4	426.7	459.4	433.5	449.2	438.6	519.2	212.4	174.0	162.6
82.5°	303.8	252.2	273.1	227.4	287.7	250.6	200.0	68.0	59.1	56.2
85°	197.6	137.8	71.8	48.1	99.1	160.1	44.7	18.5	14.2	11.3
87.5°	68.1	35.1	3.5	1.5	10.6	29.9	1.6	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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