

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: P324625

Luminaire Tested: **GAN-SA1A-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324625
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 2874 lumens
Efficiency: N/A
Efficacy: 84.5 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

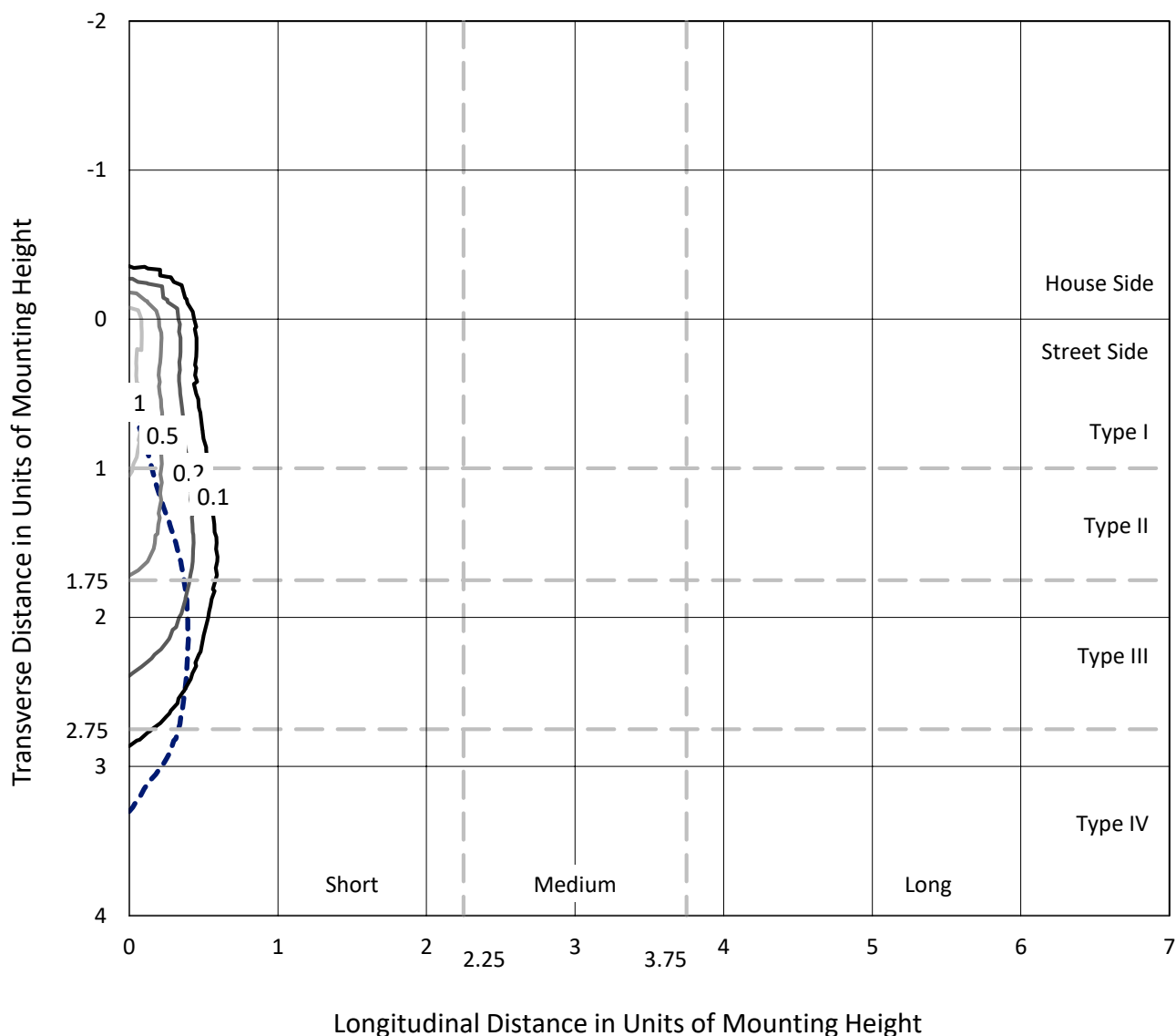
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

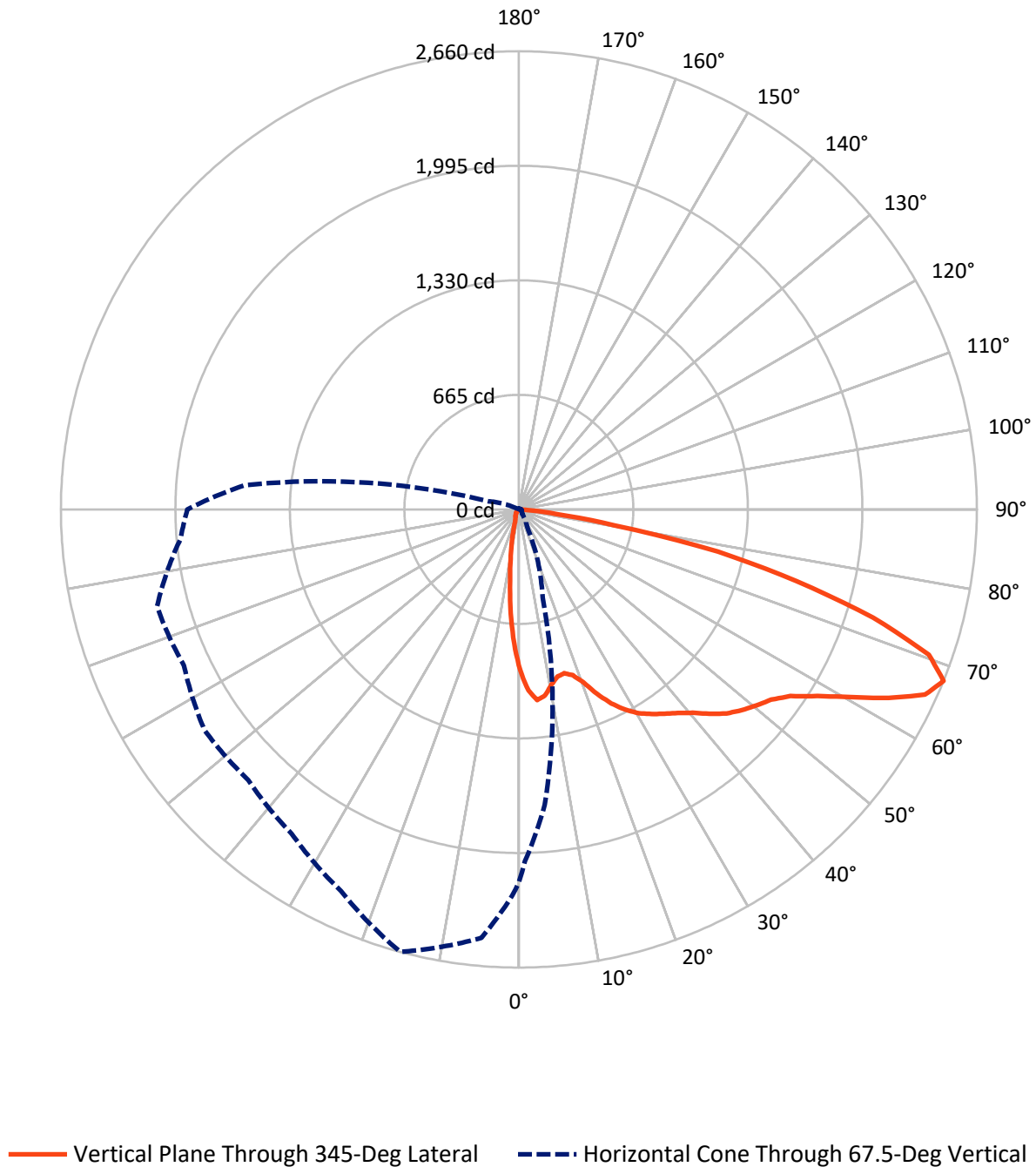
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	347.8	0.0	347.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	2526.2	0.0	2526.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	2874.0	0.0	2874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	2.5
10°-20°	143.0	5.0
20°-30°	203.1	7.1
30°-40°	300.0	10.4
40°-50°	432.6	15.1
50°-60°	607.3	21.1
60°-70°	708.0	24.6
70°-80°	361.9	12.6
80°-90°	46.2	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°	2874.0	100.0
0°-180°	2874.0	100.0

Coefficient of Utilization



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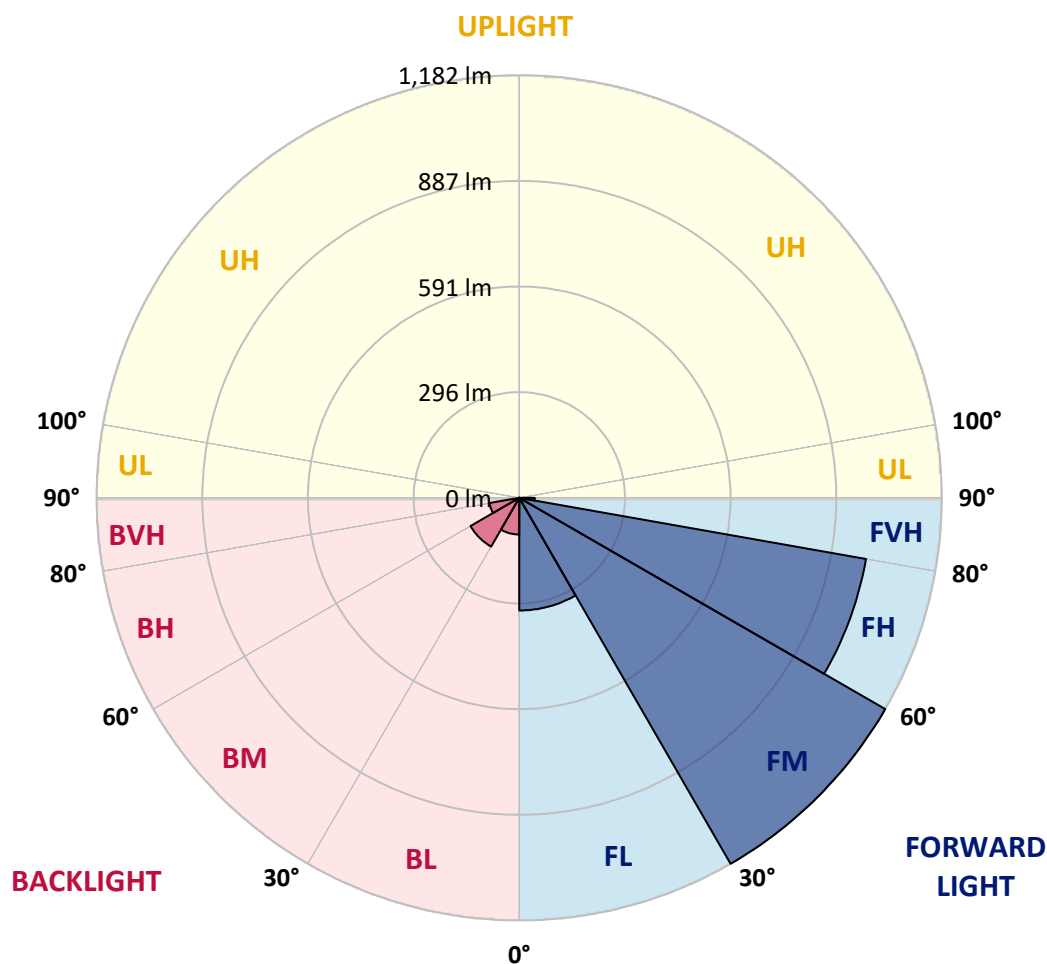
CATALOG NUMBER: GAN-SA1A-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.2	11.0			
FM	(30°-60°)	1182.4	41.1			
FH	(60°-80°)	985.1	34.3			G1/1800
FVH	(80°-90°)	43.4	1.5			G1/100
BL	(0°-30°)	102.7	3.6	B0/110		
BM	(30°-60°)	157.5	5.5	B0/220		
BH	(60°-80°)	84.8	2.9	B0/110		G0/110
BVH	(80°-90°)	2.8	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°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	1025.1	1017.2	1008.5	980.0	953.6	923.4	898.8	881.6	860.1	832.2	825.1
5°	1017.8	1009.3	981.9	918.6	863.2	809.3	757.3	726.8	688.9	650.5	641.0
7.5°	943.8	935.0	895.5	808.8	734.1	656.3	588.7	546.9	504.2	469.1	450.4
10°	866.9	857.2	812.8	707.6	615.7	545.3	495.7	455.8	415.4	377.8	347.9
12.5°	813.9	801.3	753.1	633.8	553.7	506.0	459.7	411.9	357.1	316.8	283.9
15°	791.7	777.3	726.4	605.3	531.8	475.7	415.4	356.7	292.6	246.4	216.2
17.5°	808.9	790.1	735.5	603.4	504.3	427.9	351.7	282.8	213.2	166.5	145.0
20°	867.2	842.5	773.2	602.9	471.0	371.2	274.5	196.6	140.5	113.0	101.7
22.5°	958.9	926.4	827.4	607.3	436.5	311.5	198.2	133.6	105.5	91.2	84.6
25°	1069.8	1032.1	905.4	622.6	406.3	253.5	144.1	105.5	89.0	78.6	73.0
27.5°	1175.2	1144.5	1004.0	644.8	382.9	206.7	117.0	89.5	76.1	69.2	64.7
30°	1280.4	1241.9	1105.2	671.2	354.7	175.0	102.8	81.6	68.2	60.9	58.0
32.5°	1356.9	1324.9	1184.4	690.3	324.6	154.3	91.9	74.6	63.7	56.2	52.0
35°	1446.9	1410.7	1252.4	694.5	305.3	141.2	82.6	67.1	55.3	48.6	44.1
37.5°	1544.1	1499.1	1330.8	685.3	290.1	134.8	75.7	63.7	51.6	44.8	40.0
40°	1651.7	1600.8	1406.1	671.9	275.3	132.6	70.4	61.1	48.7	41.8	36.9
42.5°	1765.0	1704.9	1471.3	657.9	265.9	125.1	69.8	58.5	46.6	39.1	34.2
45°	1860.1	1799.3	1538.3	653.3	259.2	117.0	72.2	56.8	45.1	36.9	32.1
47.5°	1936.0	1878.4	1606.9	663.6	255.4	109.5	65.8	59.1	44.3	35.0	30.4
50°	2026.5	1961.3	1703.6	694.5	249.8	102.0	59.5	67.7	44.3	33.8	28.9
52.5°	2140.1	2075.5	1811.4	742.5	238.7	91.6	53.5	67.8	44.7	32.1	27.0
55°	2282.9	2236.1	1965.4	795.0	220.8	76.4	46.3	58.3	43.0	29.1	25.2
57.5°	2419.9	2381.6	2105.8	831.0	197.0	59.6	40.3	47.0	39.3	25.6	22.5
59°	2457.3	2415.5	2157.2	832.6	179.2	52.0	37.3	38.8	38.5	24.0	20.8
60°	2457.3	2412.9	2172.1	823.9	166.2	47.8	35.4	34.6	40.2	22.9	19.9
62.5°	2412.8	2350.4	2123.9	764.9	135.6	40.7	30.9	28.6	36.1	20.6	17.6
65°	2320.2	2229.4	1959.7	658.3	120.9	37.3	26.7	23.4	25.1	18.1	15.4
67.5°	2165.8	2042.7	1722.9	531.8	115.1	36.4	23.0	19.9	18.9	15.5	13.5
70°	1893.9	1757.3	1435.5	418.1	110.0	35.9	19.3	16.7	15.2	13.1	11.4
72.5°	1378.4	1236.0	1019.1	326.9	107.0	36.8	15.5	14.0	12.5	10.2	8.9
75°	788.5	695.2	572.8	215.9	91.2	35.1	12.0	11.7	9.0	7.4	6.1
77.5°	407.4	395.0	343.2	82.9	43.7	15.4	7.9	6.8	5.3	4.5	3.7
80°	175.8	173.9	150.5	24.0	11.6	8.6	4.5	2.9	2.5	1.9	1.5
82.5°	60.7	60.7	53.5	8.0	5.2	4.2	0.5	0.0	0.0	0.0	0.0
85°	12.3	13.8	9.7	0.0	1.8	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°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	816.5	800.0	799.0	788.6	775.7	769.8	766.4	772.4	779.8	780.6	791.6
5°	633.8	616.5	623.7	605.3	609.0	605.3	599.4	600.4	603.7	593.5	606.2
7.5°	445.1	432.0	440.3	435.4	442.0	444.5	440.9	435.4	419.4	417.5	428.5
10°	335.5	320.6	311.8	302.5	304.6	308.8	307.4	303.5	293.3	293.8	304.4
12.5°	269.6	253.0	235.4	212.7	207.1	210.2	207.1	204.8	195.0	195.8	205.2
15°	204.5	190.9	172.5	154.3	144.3	145.3	136.6	130.4	124.3	117.0	122.7
17.5°	138.1	129.8	124.3	118.9	107.0	104.3	93.3	81.4	76.8	73.4	75.8
20°	97.8	93.3	91.1	90.8	84.0	80.6	69.8	62.5	60.2	59.5	61.0
22.5°	81.7	78.4	75.3	73.5	70.1	66.2	58.0	54.3	52.7	51.9	53.0
25°	71.1	68.6	65.4	62.4	61.0	56.8	50.9	48.2	47.1	46.3	46.8
27.5°	63.2	61.0	57.2	55.3	54.2	50.5	45.5	43.3	42.3	42.1	41.9
30°	56.9	54.9	51.3	49.2	47.2	44.0	41.0	38.8	37.9	37.6	37.3
32.5°	50.6	49.0	46.7	44.5	42.5	39.5	36.9	35.1	33.6	33.4	33.2
35°	42.8	41.1	39.9	39.8	37.9	35.0	33.1	30.8	29.5	29.1	29.3
37.5°	38.0	35.8	33.1	34.0	33.5	31.5	28.9	26.6	25.3	25.1	25.1
40°	35.0	32.7	29.5	27.9	29.5	29.1	25.1	22.7	21.5	21.4	21.1
42.5°	32.1	29.8	26.3	23.6	24.4	25.6	21.6	19.5	18.2	18.0	17.6
45°	30.1	27.6	23.7	20.6	18.9	21.5	18.5	15.8	15.1	14.6	14.3
47.5°	28.2	25.9	21.4	17.8	15.1	15.5	14.8	12.9	12.1	11.6	11.4
50°	26.6	24.1	19.3	15.2	12.5	11.4	12.0	10.2	9.5	9.0	8.7
52.5°	24.6	22.3	17.2	13.2	10.5	9.0	9.1	8.0	7.4	6.9	6.8
55°	23.1	20.8	15.4	11.6	9.3	7.4	6.5	6.3	5.9	5.6	5.4
57.5°	21.1	18.9	13.6	9.8	7.9	6.0	5.0	5.0	4.9	4.6	4.5
59°	19.9	18.0	12.5	8.9	7.2	5.2	4.5	4.6	4.5	4.2	4.1
60°	18.9	17.2	11.7	8.2	6.8	4.8	4.1	4.4	4.2	3.9	3.8
62.5°	16.7	15.5	10.1	6.8	6.0	3.8	3.4	3.7	3.7	3.5	3.4
65°	14.7	13.3	8.6	5.7	5.6	3.3	2.7	3.3	3.4	3.1	2.9
67.5°	12.8	11.4	7.5	4.6	5.2	2.6	2.0	2.7	3.7	2.9	2.6
70°	10.9	9.5	5.9	3.7	5.4	1.8	1.6	2.5	4.4	3.1	2.5
72.5°	8.4	7.4	4.1	2.7	5.9	1.2	1.2	2.0	4.9	3.4	2.3
75°	5.9	4.8	2.5	1.6	4.8	0.8	0.8	1.9	4.6	3.1	2.2
77.5°	3.4	2.6	0.8	0.1	2.5	0.0	0.1	1.4	3.3	1.9	1.0
80°	1.2	0.5	0.0	0.0	1.5	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°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	794.5	812.8	829.3	854.2	883.8	917.8	947.1	978.5	1008.1	1020.3	1028.8
5°	608.7	631.5	658.0	694.7	743.4	803.4	859.7	923.3	991.6	1025.8	1057.9
7.5°	430.4	453.5	486.5	525.4	584.4	655.9	729.4	817.2	909.8	963.8	1017.1
10°	309.5	337.9	368.7	421.9	481.9	549.7	625.4	723.4	826.6	886.5	950.6
12.5°	210.6	243.0	289.6	349.2	419.6	486.1	551.8	645.4	765.2	824.6	893.3
15°	126.4	144.3	193.6	262.6	349.0	431.7	503.8	597.6	725.3	798.0	869.5
17.5°	77.9	86.2	113.0	169.6	260.3	365.0	463.7	581.4	731.0	819.5	896.0
20°	62.1	65.4	73.9	100.2	172.5	291.5	418.7	578.1	777.7	886.6	968.7
22.5°	53.9	57.0	62.8	72.8	108.5	218.3	375.9	581.1	844.7	987.3	1083.1
25°	47.5	50.2	55.7	64.0	79.5	153.7	330.2	594.5	932.0	1112.1	1214.0
27.5°	42.5	44.8	49.8	57.5	68.2	107.3	278.3	610.7	1035.5	1239.8	1340.3
30°	37.9	39.9	44.4	51.5	59.2	82.5	221.4	621.7	1139.1	1340.3	1430.6
32.5°	33.9	35.4	39.5	45.5	51.5	65.8	168.3	619.9	1216.0	1423.9	1495.5
35°	29.8	31.3	34.9	40.0	44.8	54.3	132.3	586.8	1283.0	1510.6	1569.9
37.5°	25.3	27.2	30.6	35.3	38.5	47.8	107.0	546.9	1350.9	1609.8	1652.8
40°	21.5	23.4	26.4	31.5	33.5	45.3	82.2	498.3	1427.3	1720.6	1743.7
42.5°	17.8	19.6	22.7	27.1	31.6	39.1	60.9	442.8	1500.7	1815.4	1826.7
45°	14.4	16.2	19.5	23.8	33.8	32.4	47.1	383.3	1559.9	1894.2	1897.9
47.5°	11.4	13.1	16.5	22.5	31.5	25.9	33.6	336.6	1609.6	1955.7	1946.1
50°	8.9	10.2	13.8	25.7	27.5	21.4	25.5	321.1	1654.1	1993.9	1968.8
52.5°	6.9	8.2	11.3	24.1	21.4	17.7	21.4	335.6	1715.1	2025.4	1981.6
55°	5.6	6.8	8.9	13.8	14.6	15.0	18.2	349.2	1820.4	2099.5	2057.2
57.5°	4.6	5.9	7.2	9.7	11.0	12.7	16.2	350.7	1944.4	2222.6	2182.6
59°	4.2	5.3	6.5	8.6	9.7	11.6	15.2	342.6	1988.1	2267.4	2247.4
60°	3.9	5.0	6.1	7.9	9.0	10.9	14.7	334.8	1990.0	2265.8	2275.0
62.5°	3.4	4.5	5.4	6.7	7.6	9.3	13.2	306.1	1909.4	2191.5	2258.4
65°	3.0	3.9	4.9	5.7	6.5	8.3	12.0	253.7	1771.8	2071.9	2144.7
67.5°	2.7	3.4	4.5	5.0	5.9	7.4	10.6	180.8	1599.8	1925.5	1972.7
70°	2.5	3.3	4.1	4.6	5.3	6.4	9.1	103.9	1350.9	1711.2	1744.8
72.5°	2.3	3.1	3.7	4.4	4.8	5.7	8.3	48.9	989.2	1370.8	1458.6
75°	2.0	2.9	3.4	4.1	4.5	5.2	7.1	23.4	657.9	992.0	1091.8
77.5°	1.2	2.3	3.1	3.7	3.9	4.5	5.9	13.5	419.9	686.6	808.8
80°	0.0	0.8	2.3	3.1	3.4	3.8	4.5	10.6	224.7	392.3	470.8
82.5°	0.0	0.0	1.6	2.5	2.3	2.6	3.4	6.7	101.3	256.4	288.9
85°	0.0	0.0	0.5	1.9	1.6	1.2	2.3	2.3	22.2	129.8	161.9
87.5°	0.0	0.0	0.0	0.1	0.8	0.5	1.0	0.3	0.1	9.7	39.2
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°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	1058.3	1068.4	1085.4	1093.5	1089.5	1072.8	1052.7	1032.3	1020.3	1025.1
5°	1123.4	1175.3	1205.2	1215.2	1198.6	1161.0	1111.8	1047.0	1024.0	1017.8
7.5°	1123.4	1221.0	1282.9	1293.7	1256.7	1183.0	1090.9	989.7	956.1	943.8
10°	1083.9	1216.8	1303.0	1320.3	1268.6	1158.4	1034.9	919.5	879.6	866.9
12.5°	1039.4	1182.5	1273.3	1297.1	1254.7	1133.9	996.1	871.9	825.0	813.9
15°	1012.0	1140.3	1215.5	1232.7	1214.8	1119.6	986.8	857.6	802.4	791.7
17.5°	1021.8	1107.6	1134.7	1144.8	1156.9	1114.6	1012.0	889.0	819.0	808.9
20°	1058.7	1073.2	1059.1	1071.8	1104.5	1119.5	1072.1	964.7	880.6	867.2
22.5°	1121.4	1055.3	1016.0	1021.0	1060.8	1135.7	1163.9	1072.8	975.8	958.9
25°	1194.3	1069.8	992.0	987.5	1028.4	1157.0	1247.7	1190.4	1088.4	1069.8
27.5°	1286.1	1102.2	987.1	982.6	1017.1	1177.1	1317.4	1306.7	1207.0	1175.2
30°	1356.9	1134.0	1001.7	991.3	1028.4	1190.9	1373.4	1405.4	1301.5	1280.4
32.5°	1407.7	1171.6	1025.4	1010.4	1060.2	1214.9	1416.6	1495.8	1388.9	1356.9
35°	1446.4	1212.5	1063.6	1039.0	1104.1	1251.3	1457.0	1592.1	1481.9	1446.9
37.5°	1482.6	1269.8	1123.4	1094.0	1172.8	1309.8	1499.7	1701.3	1585.9	1544.1
40°	1533.1	1334.7	1215.6	1189.4	1288.4	1389.6	1553.1	1815.1	1704.2	1651.7
42.5°	1583.6	1404.4	1309.9	1317.0	1432.6	1486.5	1622.0	1935.4	1821.1	1765.0
45°	1629.8	1476.3	1444.3	1477.0	1566.5	1592.9	1690.5	2005.0	1914.3	1860.1
47.5°	1670.9	1566.2	1577.9	1664.9	1718.7	1689.1	1741.7	2065.1	1983.8	1936.0
50°	1718.7	1682.5	1753.9	1877.0	1893.9	1776.3	1788.3	2136.1	2064.9	2026.5
52.5°	1771.0	1805.0	1948.9	2057.4	2052.0	1870.9	1835.1	2215.8	2176.2	2140.1
55°	1830.3	1904.0	2120.6	2226.3	2221.6	1976.6	1912.7	2314.2	2315.6	2282.9
57.5°	1918.4	1989.2	2237.2	2362.8	2370.6	2098.6	2044.2	2424.5	2441.7	2419.9
59°	1981.6	2044.5	2283.3	2419.9	2451.5	2192.9	2140.4	2488.5	2477.2	2457.3
60°	2028.4	2079.6	2306.2	2449.7	2498.4	2256.9	2211.3	2526.1	2481.4	2457.3
62.5°	2144.3	2156.1	2347.4	2483.5	2552.5	2399.0	2410.9	2590.1	2452.1	2412.8
65°	2198.4	2204.5	2346.9	2423.0	2500.2	2509.7	2592.0	2592.0	2380.7	2320.2
67.5°	2175.8	2146.2	2230.5	2222.6	2299.7	2444.0	2660.1	2496.9	2244.0	2165.8
70°	1991.9	1878.3	1840.8	1844.2	1903.2	2125.8	2525.3	2217.3	1985.3	1893.9
72.5°	1657.4	1384.7	1292.2	1397.8	1413.2	1633.7	2152.1	1669.8	1464.1	1378.4
75°	1333.1	976.1	825.8	937.2	963.3	1195.6	1664.8	1040.0	855.2	788.5
77.5°	957.7	700.7	592.5	584.8	618.6	758.2	1181.3	523.4	436.5	407.4
80°	544.1	461.2	496.6	468.5	485.5	474.1	561.2	229.6	188.0	175.8
82.5°	328.4	272.6	295.2	245.8	311.0	270.8	216.2	73.5	63.9	60.7
85°	213.6	149.0	77.6	52.0	107.2	173.1	48.3	20.0	15.4	12.3
87.5°	73.7	38.0	3.8	1.6	11.4	32.3	1.8	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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