

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385468

Luminaire Tested: GAW-SA1A-730-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385468
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
Product Line: STREETWORKS
Catalog Number: GAW-SA1A-730-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 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: 3359 lumens
Efficiency: N/A
Efficacy: 98.8 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

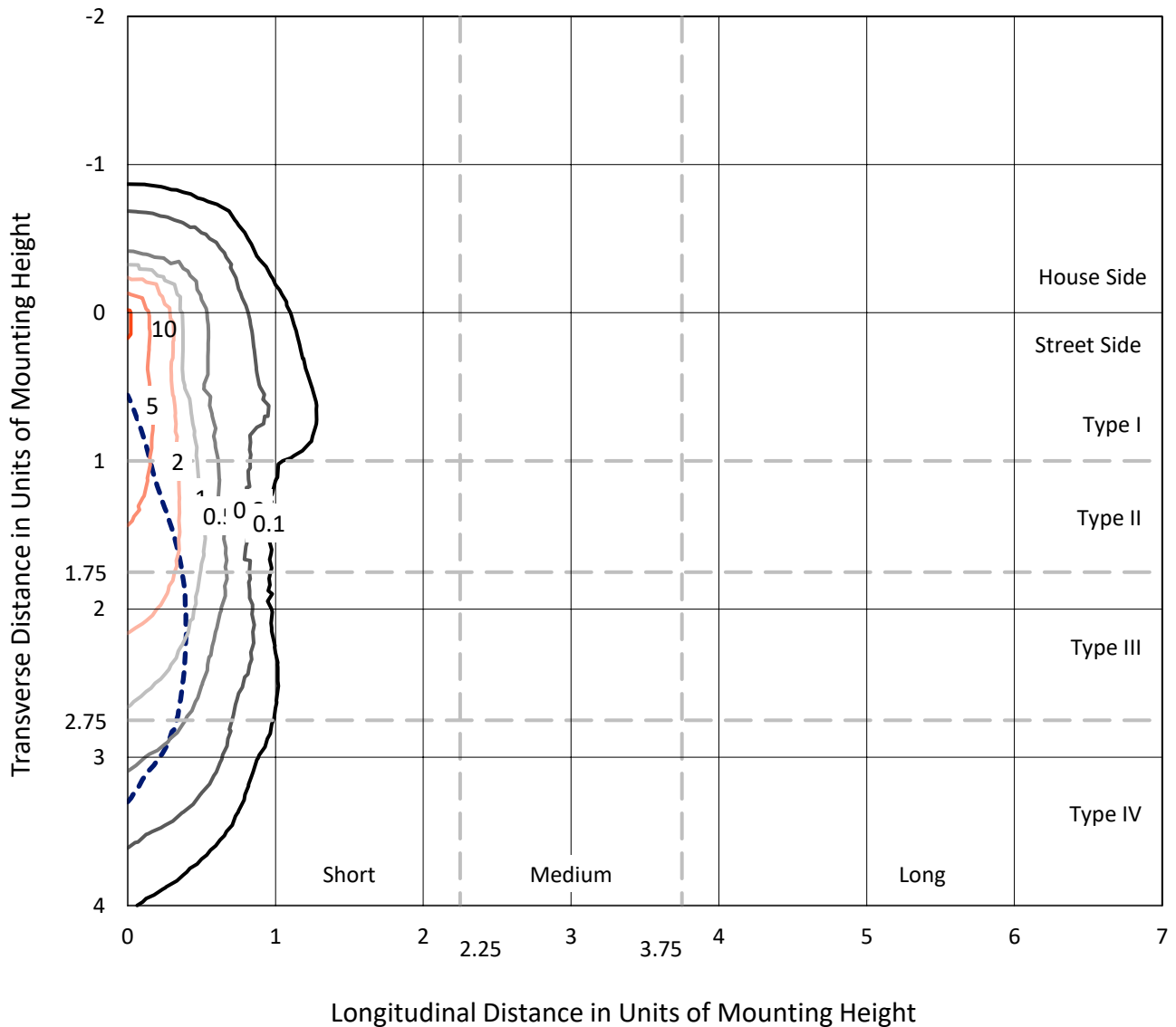
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

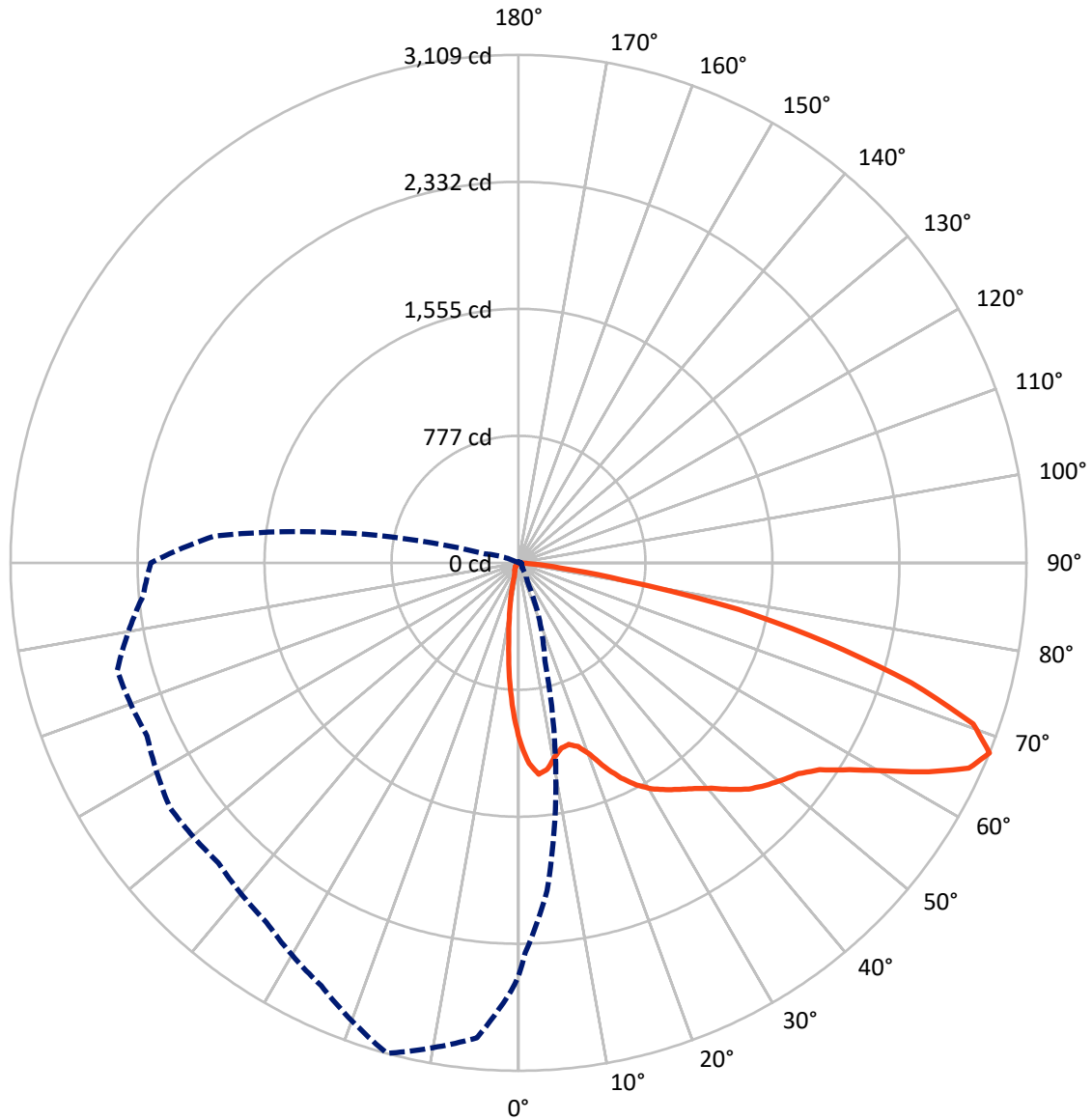
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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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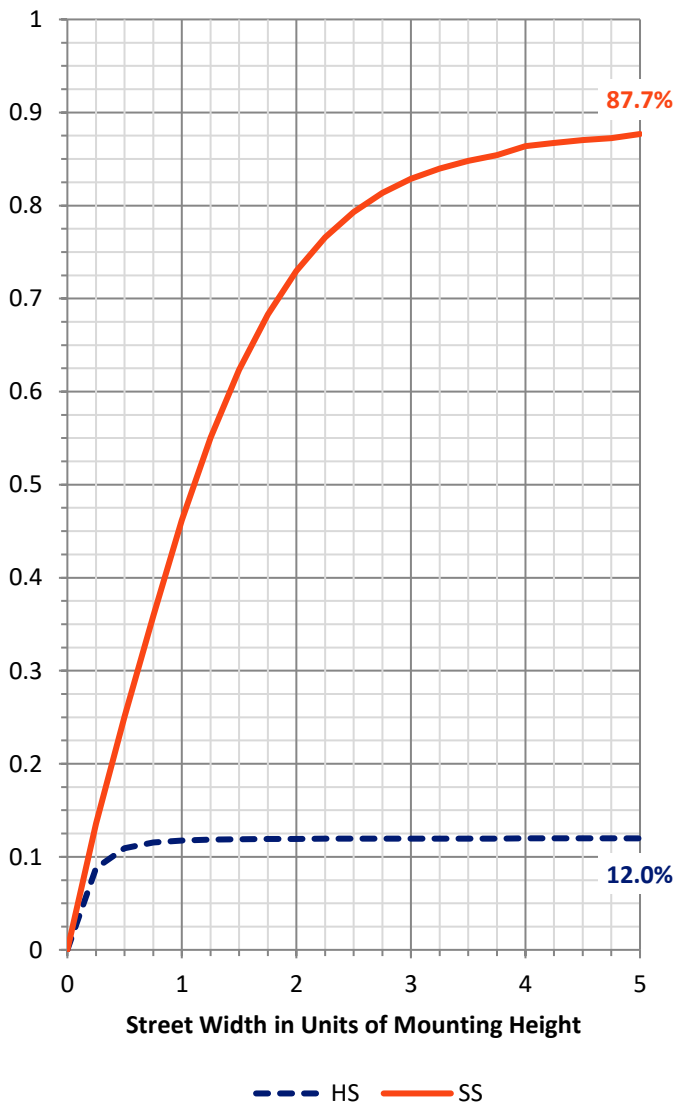
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	406.6	0.0	406.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	2952.5	0.0	2952.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	3359.0	0.0	3359.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	2.5
10°-20°	167.2	5.0
20°-30°	237.4	7.1
30°-40°	350.6	10.4
40°-50°	505.6	15.1
50°-60°	709.8	21.1
60°-70°	827.4	24.6
70°-80°	423.0	12.6
80°-90°	54.0	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°	3359.0	100.0
0°-180°	3359.0	100.0



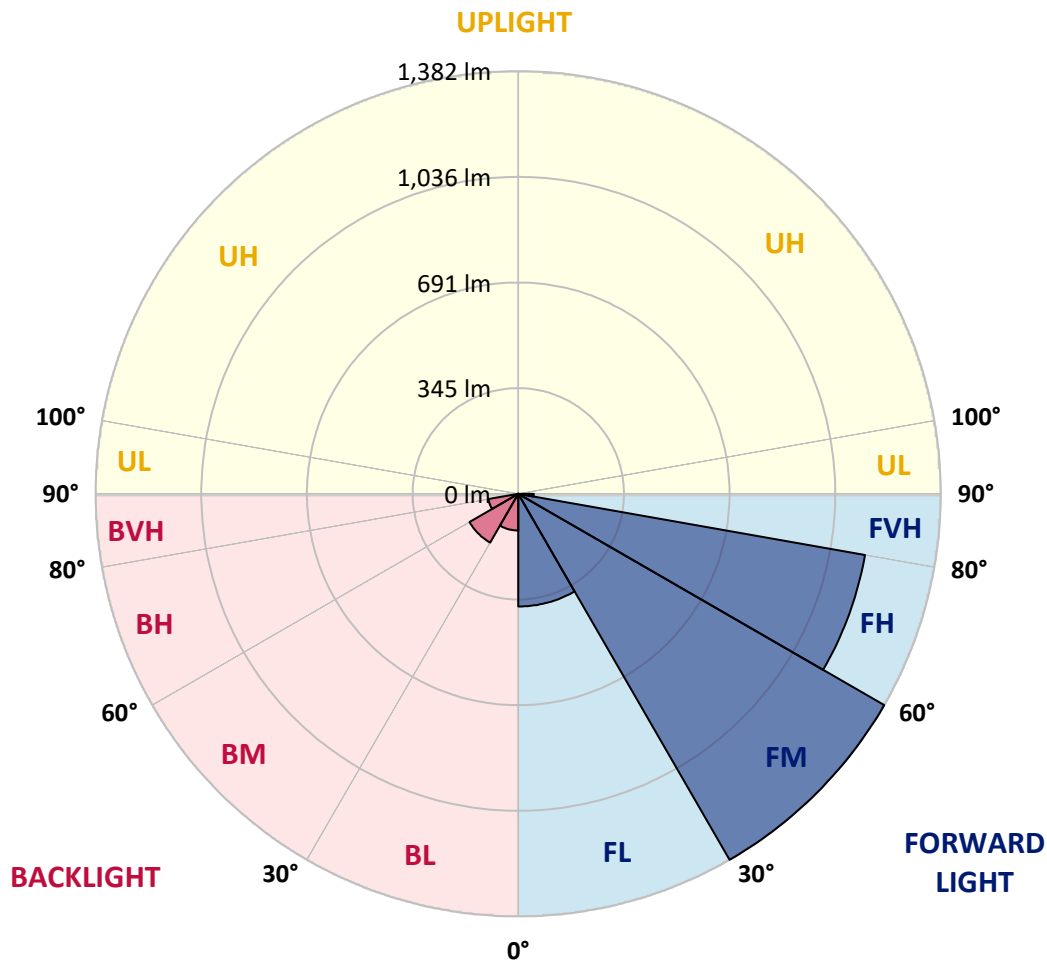
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.4	11.0			
FM (30°-60°)	1382.0	41.1			
FH (60°-80°)	1151.3	34.3			G1/1800
FVH (80°-90°)	50.7	1.5			G1/100
BL (0°-30°)	120.1	3.6	B1/500		
BM (30°-60°)	184.1	5.5	B0/220		
BH (60°-80°)	99.1	3.0	B0/110		G0/110
BVH (80°-90°)	3.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2
2.5°	1198.1	1188.9	1178.7	1145.4	1114.6	1079.2	1050.4	1030.4	1005.2	972.6	964.3
5°	1189.5	1179.6	1147.7	1073.7	1008.9	945.9	885.1	849.4	805.2	760.3	749.2
7.5°	1103.1	1092.8	1046.6	945.2	858.0	767.0	688.1	639.2	589.3	548.2	526.4
10°	1013.2	1001.9	950.0	827.0	719.6	637.3	579.4	532.8	485.5	441.6	406.6
12.5°	951.3	936.5	880.2	740.8	647.2	591.3	537.2	481.4	417.4	370.3	331.8
15°	925.3	908.5	849.0	707.5	621.6	556.0	485.5	416.9	342.0	288.0	252.7
17.5°	945.4	923.4	859.6	705.3	589.4	500.2	411.0	330.5	249.2	194.6	169.5
20°	1013.5	984.7	903.7	704.6	550.4	433.8	320.8	229.8	164.2	132.1	118.9
22.5°	1120.8	1082.7	967.0	709.7	510.2	364.1	231.7	156.1	123.3	106.6	98.8
25°	1250.3	1206.2	1058.2	727.7	474.8	296.3	168.4	123.3	104.1	91.8	85.3
27.5°	1373.5	1337.7	1173.4	753.6	447.5	241.6	136.7	104.5	89.0	80.8	75.6
30°	1496.5	1451.4	1291.7	784.5	414.5	204.5	120.1	95.3	79.7	71.1	67.8
32.5°	1585.9	1548.5	1384.3	806.8	379.4	180.3	107.4	87.2	74.5	65.7	60.8
35°	1691.1	1648.8	1463.7	811.7	356.8	165.0	96.6	78.5	64.6	56.8	51.6
37.5°	1804.7	1752.0	1555.4	800.9	339.1	157.5	88.5	74.5	60.3	52.4	46.8
40°	1930.4	1870.9	1643.4	785.3	321.8	155.0	82.3	71.5	57.0	48.9	43.1
42.5°	2062.8	1992.6	1719.6	768.9	310.8	146.2	81.6	68.4	54.4	45.7	39.9
45°	2174.1	2102.9	1797.9	763.5	303.0	136.7	84.3	66.4	52.7	43.1	37.6
47.5°	2262.7	2195.4	1878.1	775.6	298.5	127.9	76.9	69.1	51.7	40.9	35.5
50°	2368.5	2292.3	1991.1	811.7	292.0	119.2	69.5	79.1	51.7	39.5	33.7
52.5°	2501.2	2425.8	2117.1	867.7	279.0	107.1	62.5	79.2	52.2	37.6	31.5
55°	2668.2	2613.4	2297.1	929.2	258.1	89.3	54.1	68.1	50.3	34.1	29.4
57.5°	2828.2	2783.5	2461.1	971.2	230.3	69.7	47.1	54.9	46.0	29.9	26.3
59°	2872.0	2823.2	2521.3	973.1	209.4	60.8	43.6	45.4	45.0	28.0	24.3
60°	2872.0	2820.1	2538.6	962.9	194.3	55.9	41.4	40.4	46.9	26.7	23.2
62.5°	2820.0	2747.1	2482.3	894.0	158.5	47.6	36.1	33.4	42.2	24.0	20.5
65°	2711.8	2605.6	2290.4	769.4	141.3	43.6	31.2	27.4	29.3	21.2	18.0
67.5°	2531.3	2387.4	2013.6	621.6	134.5	42.5	26.9	23.2	22.1	18.1	15.8
70°	2213.5	2053.9	1677.7	488.7	128.6	42.0	22.6	19.6	17.8	15.3	13.4
72.5°	1611.0	1444.6	1191.1	382.1	125.1	43.0	18.1	16.4	14.6	11.9	10.3
75°	921.5	812.5	669.5	252.4	106.6	41.1	14.0	13.7	10.5	8.6	7.2
77.5°	476.1	461.6	401.2	96.9	51.1	18.0	9.2	8.0	6.2	5.3	4.3
80°	205.4	203.2	175.8	28.0	13.5	10.0	5.3	3.3	2.9	2.2	1.8
82.5°	71.0	71.0	62.5	9.4	6.0	4.9	0.6	0.0	0.0	0.0	0.0
85°	14.3	16.1	11.3	0.0	2.1	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°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2
2.5°	954.3	935.1	933.8	921.7	906.6	899.7	895.8	902.8	911.3	912.3	925.2
5°	740.8	720.5	729.0	707.5	711.8	707.5	700.5	701.8	705.6	693.7	708.5
7.5°	520.2	504.9	514.6	508.9	516.5	519.6	515.3	508.9	490.1	487.9	500.8
10°	392.1	374.8	364.4	353.6	356.0	360.9	359.3	354.7	342.8	343.4	355.8
12.5°	315.1	295.7	275.1	248.6	242.0	245.7	242.0	239.3	227.9	228.8	239.8
15°	239.0	223.1	201.6	180.3	168.7	169.8	159.6	152.4	145.3	136.7	143.4
17.5°	161.4	151.7	145.3	138.9	125.1	121.9	109.0	95.2	89.8	85.8	88.6
20°	114.3	109.0	106.5	106.1	98.2	94.2	81.6	73.0	70.3	69.5	71.3
22.5°	95.5	91.7	88.0	85.9	82.0	77.3	67.8	63.5	61.6	60.6	61.9
25°	83.1	80.2	76.4	72.9	71.3	66.4	59.5	56.3	55.1	54.1	54.7
27.5°	73.8	71.3	66.8	64.6	63.3	59.0	53.1	50.6	49.5	49.2	49.0
30°	66.5	64.1	60.0	57.4	55.2	51.4	47.9	45.4	44.2	43.9	43.6
32.5°	59.2	57.3	54.6	52.0	49.6	46.1	43.1	41.1	39.3	39.0	38.8
35°	50.0	48.1	46.6	46.5	44.2	40.9	38.7	36.0	34.5	34.1	34.2
37.5°	44.4	41.9	38.7	39.8	39.1	36.8	33.7	31.0	29.6	29.3	29.3
40°	40.9	38.2	34.5	32.6	34.5	34.1	29.3	26.6	25.1	25.0	24.7
42.5°	37.6	34.8	30.7	27.5	28.5	29.9	25.3	22.8	21.3	21.0	20.5
45°	35.2	32.3	27.7	24.0	22.1	25.1	21.6	18.5	17.7	17.0	16.7
47.5°	32.9	30.2	25.0	20.8	17.7	18.1	17.3	15.1	14.2	13.5	13.4
50°	31.0	28.2	22.6	17.8	14.6	13.4	14.0	11.9	11.1	10.5	10.2
52.5°	28.8	26.1	20.1	15.4	12.3	10.5	10.7	9.4	8.6	8.1	8.0
55°	27.1	24.3	18.0	13.5	10.8	8.6	7.6	7.3	6.8	6.5	6.4
57.5°	24.7	22.1	15.9	11.5	9.2	7.0	5.9	5.9	5.7	5.4	5.3
59°	23.2	21.0	14.6	10.3	8.4	6.0	5.3	5.4	5.3	4.9	4.8
60°	22.1	20.1	13.7	9.5	8.0	5.6	4.8	5.1	4.9	4.6	4.5
62.5°	19.6	18.1	11.8	8.0	7.0	4.5	4.0	4.3	4.3	4.1	4.0
65°	17.2	15.6	10.0	6.7	6.5	3.8	3.2	3.8	4.0	3.7	3.3
67.5°	15.0	13.4	8.8	5.4	6.0	3.0	2.4	3.2	4.3	3.3	3.0
70°	12.7	11.1	6.8	4.3	6.4	2.1	1.9	2.9	5.1	3.7	2.9
72.5°	9.9	8.6	4.8	3.2	6.8	1.4	1.4	2.4	5.7	4.0	2.7
75°	6.8	5.6	2.9	1.9	5.6	1.0	1.0	2.2	5.4	3.7	2.5
77.5°	4.0	3.0	1.0	0.2	2.9	0.0	0.2	1.6	3.8	2.2	1.1
80°	1.4	0.6	0.0	0.0	1.8	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°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2
2.5°	928.5	950.0	969.3	998.4	1032.9	1072.7	1106.9	1143.7	1178.2	1192.5	1202.4
5°	711.5	738.1	769.1	811.9	868.9	939.0	1004.8	1079.1	1159.0	1198.9	1236.5
7.5°	503.0	530.1	568.6	614.1	683.0	766.5	852.5	955.1	1063.3	1126.5	1188.7
10°	361.7	395.0	430.9	493.1	563.2	642.4	730.9	845.5	966.1	1036.1	1111.1
12.5°	246.2	284.0	338.5	408.2	490.4	568.1	645.0	754.3	894.3	963.7	1044.1
15°	147.7	168.7	226.3	307.0	407.9	504.6	588.8	698.4	847.7	932.7	1016.2
17.5°	91.0	100.7	132.1	198.3	304.3	426.6	542.0	679.5	854.4	957.8	1047.2
20°	72.6	76.4	86.4	117.1	201.6	340.7	489.3	675.7	909.0	1036.3	1132.2
22.5°	63.0	66.7	73.4	85.1	126.8	255.1	439.4	679.2	987.3	1153.9	1265.9
25°	55.5	58.7	65.1	74.8	92.9	179.7	385.9	694.8	1089.3	1299.8	1418.8
27.5°	49.6	52.4	58.2	67.2	79.7	125.4	325.3	713.7	1210.2	1449.1	1566.5
30°	44.2	46.6	51.9	60.2	69.2	96.4	258.7	726.6	1331.3	1566.5	1672.0
32.5°	39.6	41.4	46.1	53.1	60.2	76.9	196.7	724.5	1421.2	1664.2	1747.9
35°	34.8	36.6	40.7	46.8	52.4	63.5	154.7	685.9	1499.5	1765.6	1834.8
37.5°	29.6	31.8	35.8	41.2	45.0	55.9	125.1	639.2	1578.9	1881.4	1931.7
40°	25.1	27.4	30.9	36.8	39.1	53.0	96.1	582.4	1668.2	2010.9	2038.0
42.5°	20.8	22.9	26.6	31.7	36.9	45.7	71.1	517.5	1753.9	2121.7	2134.9
45°	16.9	18.9	22.8	27.8	39.5	37.9	55.1	448.0	1823.2	2213.8	2218.1
47.5°	13.4	15.3	19.3	26.3	36.8	30.2	39.3	393.4	1881.3	2285.8	2274.5
50°	10.3	11.9	16.1	30.1	32.1	25.0	29.8	375.2	1933.3	2330.3	2301.0
52.5°	8.1	9.5	13.2	28.2	25.0	20.7	25.0	392.3	2004.6	2367.2	2316.0
55°	6.5	8.0	10.3	16.1	17.0	17.5	21.3	408.2	2127.6	2453.8	2404.3
57.5°	5.4	6.8	8.4	11.3	12.9	14.8	18.9	409.9	2272.6	2597.7	2550.9
59°	4.9	6.2	7.6	10.0	11.3	13.5	17.8	400.4	2323.6	2650.0	2626.6
60°	4.6	5.9	7.2	9.2	10.5	12.7	17.2	391.3	2325.9	2648.1	2658.9
62.5°	4.0	5.3	6.4	7.8	8.9	10.8	15.4	357.7	2231.7	2561.4	2639.5
65°	3.5	4.6	5.7	6.7	7.6	9.7	14.0	296.5	2070.8	2421.5	2506.6
67.5°	3.2	4.0	5.3	5.9	6.8	8.6	12.4	211.3	1869.8	2250.4	2305.7
70°	2.9	3.8	4.8	5.4	6.2	7.5	10.7	121.4	1578.9	2000.0	2039.3
72.5°	2.7	3.7	4.3	5.1	5.6	6.7	9.7	57.1	1156.1	1602.1	1704.8
75°	2.4	3.3	4.0	4.8	5.3	6.0	8.3	27.4	768.9	1159.4	1276.1
77.5°	1.4	2.7	3.7	4.3	4.6	5.3	6.8	15.8	490.8	802.5	945.2
80°	0.0	1.0	2.7	3.7	4.0	4.5	5.3	12.4	262.6	458.5	550.3
82.5°	0.0	0.0	1.9	2.9	2.7	3.0	4.0	7.8	118.4	299.6	337.7
85°	0.0	0.0	0.6	2.2	1.9	1.4	2.7	2.7	25.9	151.7	189.2
87.5°	0.0	0.0	0.0	0.2	1.0	0.6	1.1	0.3	0.2	11.3	45.8
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°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2
2.5°	1236.9	1248.7	1268.6	1278.0	1273.4	1253.8	1230.4	1206.5	1192.5	1198.1
5°	1313.0	1373.6	1408.6	1420.2	1400.8	1356.9	1299.5	1223.7	1196.8	1189.5
7.5°	1313.0	1427.1	1499.3	1512.1	1468.8	1382.7	1275.0	1156.7	1117.4	1103.1
10°	1266.8	1422.2	1522.9	1543.1	1482.6	1353.9	1209.6	1074.6	1028.0	1013.2
12.5°	1214.8	1382.1	1488.2	1516.0	1466.4	1325.2	1164.2	1019.1	964.2	951.3
15°	1182.8	1332.7	1420.6	1440.8	1419.8	1308.5	1153.4	1002.4	937.8	925.3
17.5°	1194.3	1294.5	1326.2	1338.0	1352.1	1302.7	1182.8	1039.0	957.2	945.4
20°	1237.4	1254.3	1237.9	1252.7	1290.9	1308.4	1253.0	1127.4	1029.3	1013.5
22.5°	1310.6	1233.4	1187.4	1193.3	1239.8	1327.3	1360.3	1253.8	1140.5	1120.8
25°	1395.9	1250.3	1159.4	1154.2	1201.9	1352.3	1458.3	1391.3	1272.1	1250.3
27.5°	1503.2	1288.2	1153.7	1148.5	1188.7	1375.7	1539.8	1527.2	1410.7	1373.5
30°	1585.9	1325.4	1170.7	1158.6	1201.9	1391.9	1605.2	1642.6	1521.1	1496.5
32.5°	1645.3	1369.3	1198.4	1180.9	1239.2	1419.9	1655.6	1748.2	1623.3	1585.9
35°	1690.5	1417.1	1243.1	1214.3	1290.4	1462.4	1702.9	1860.7	1732.0	1691.1
37.5°	1732.8	1484.1	1313.0	1278.6	1370.8	1530.8	1752.8	1988.3	1853.6	1804.7
40°	1791.8	1560.0	1420.7	1390.2	1505.9	1624.1	1815.2	2121.4	1991.8	1930.4
42.5°	1850.9	1641.4	1531.0	1539.3	1674.4	1737.4	1895.7	2262.1	2128.4	2062.8
45°	1904.8	1725.5	1688.1	1726.3	1830.8	1861.7	1975.8	2343.4	2237.4	2174.1
47.5°	1952.9	1830.5	1844.2	1945.9	2008.7	1974.2	2035.6	2413.5	2318.5	2262.7
50°	2008.7	1966.4	2049.9	2193.8	2213.5	2076.0	2090.0	2496.6	2413.4	2368.5
52.5°	2069.8	2109.6	2277.8	2404.6	2398.3	2186.6	2144.8	2589.7	2543.4	2501.2
55°	2139.2	2225.3	2478.5	2602.0	2596.5	2310.1	2235.5	2704.8	2706.3	2668.2
57.5°	2242.2	2324.9	2614.7	2761.6	2770.6	2452.7	2389.2	2833.7	2853.7	2828.2
59°	2316.0	2389.5	2668.6	2828.2	2865.2	2563.0	2501.5	2908.4	2895.2	2872.0
60°	2370.7	2430.6	2695.4	2863.1	2920.1	2637.8	2584.5	2952.4	2900.2	2872.0
62.5°	2506.2	2520.0	2743.6	2902.6	2983.2	2803.9	2817.7	3027.2	2866.0	2820.0
65°	2569.3	2576.5	2742.9	2831.9	2922.1	2933.3	3029.4	3029.4	2782.4	2711.8
67.5°	2542.9	2508.4	2606.9	2597.7	2687.7	2856.4	3109.0	2918.3	2622.6	2531.3
70°	2328.1	2195.2	2151.5	2155.4	2224.3	2484.5	2951.4	2591.5	2320.3	2213.5
72.5°	1937.1	1618.4	1510.3	1633.6	1651.6	1909.4	2515.2	1951.6	1711.1	1611.0
75°	1558.1	1140.8	965.1	1095.3	1125.9	1397.3	1945.7	1215.4	999.5	921.5
77.5°	1119.3	818.9	692.5	683.5	722.9	886.2	1380.6	611.7	510.2	476.1
80°	635.9	539.0	580.4	547.6	567.5	554.1	655.9	268.3	219.8	205.4
82.5°	383.8	318.6	345.0	287.2	363.5	316.5	252.7	85.9	74.6	71.0
85°	249.7	174.1	90.7	60.8	125.2	202.3	56.5	23.4	18.0	14.3
87.5°	86.1	44.4	4.5	1.9	13.4	37.7	2.1	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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