

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: P529952

Luminaire Tested: **GLAN-SA5A-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12538 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 154
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



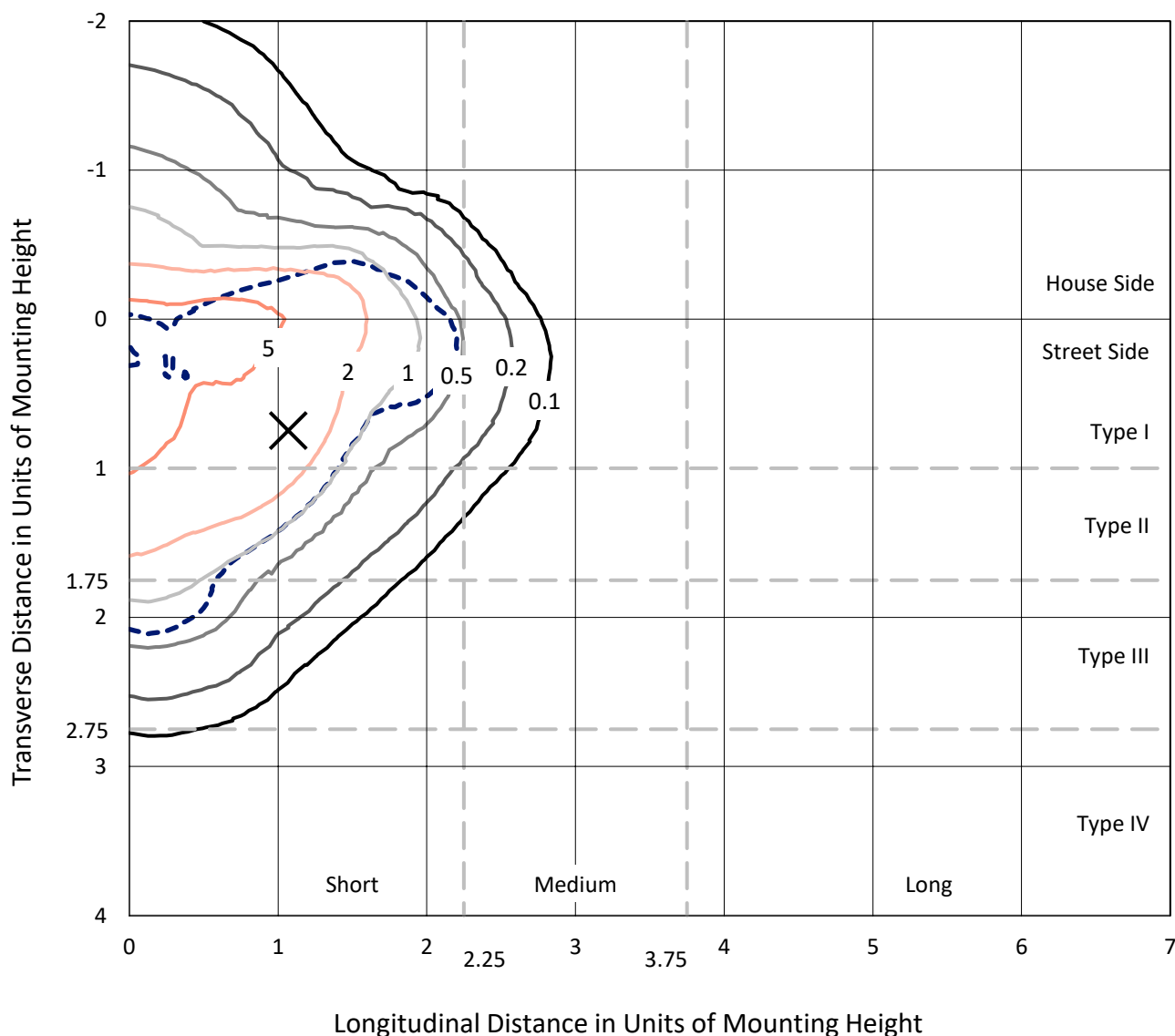
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

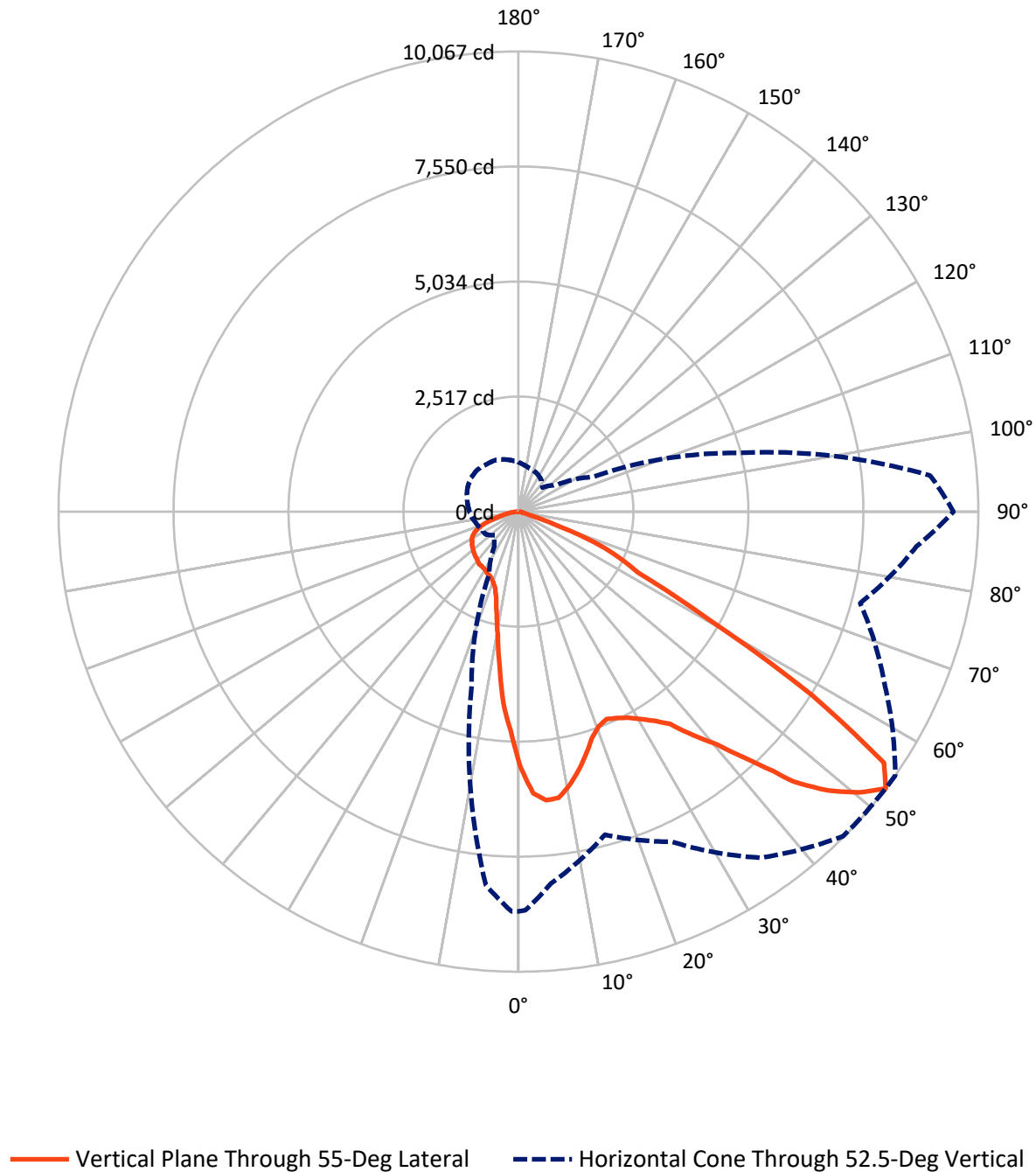


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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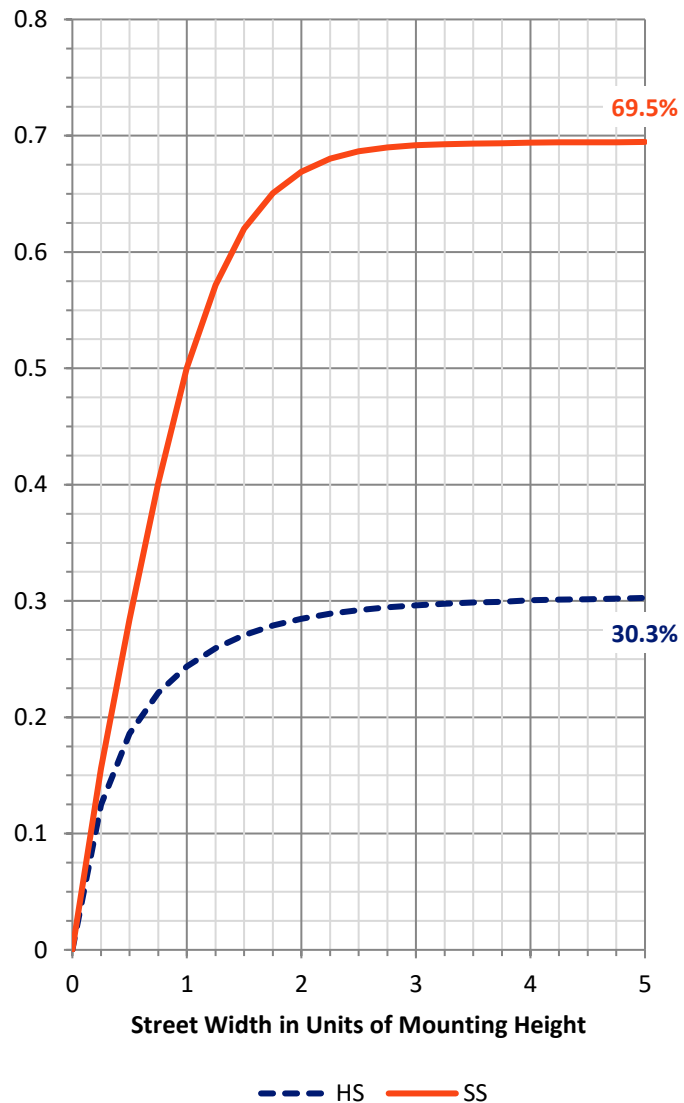
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3824.8	0.0	3824.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	8713.2	0.0	8713.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	12538.0	0.0	12538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.3	3.4
10°-20°	921.3	7.3
20°-30°	1397.0	11.1
30°-40°	2018.4	16.1
40°-50°	2697.2	21.5
50°-60°	3010.6	24.0
60°-70°	1651.5	13.2
70°-80°	357.0	2.8
80°-90°	57.8	0.5
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°	12538.0	100.0
0°-180°	12538.0	100.0

Coefficient of Utilization



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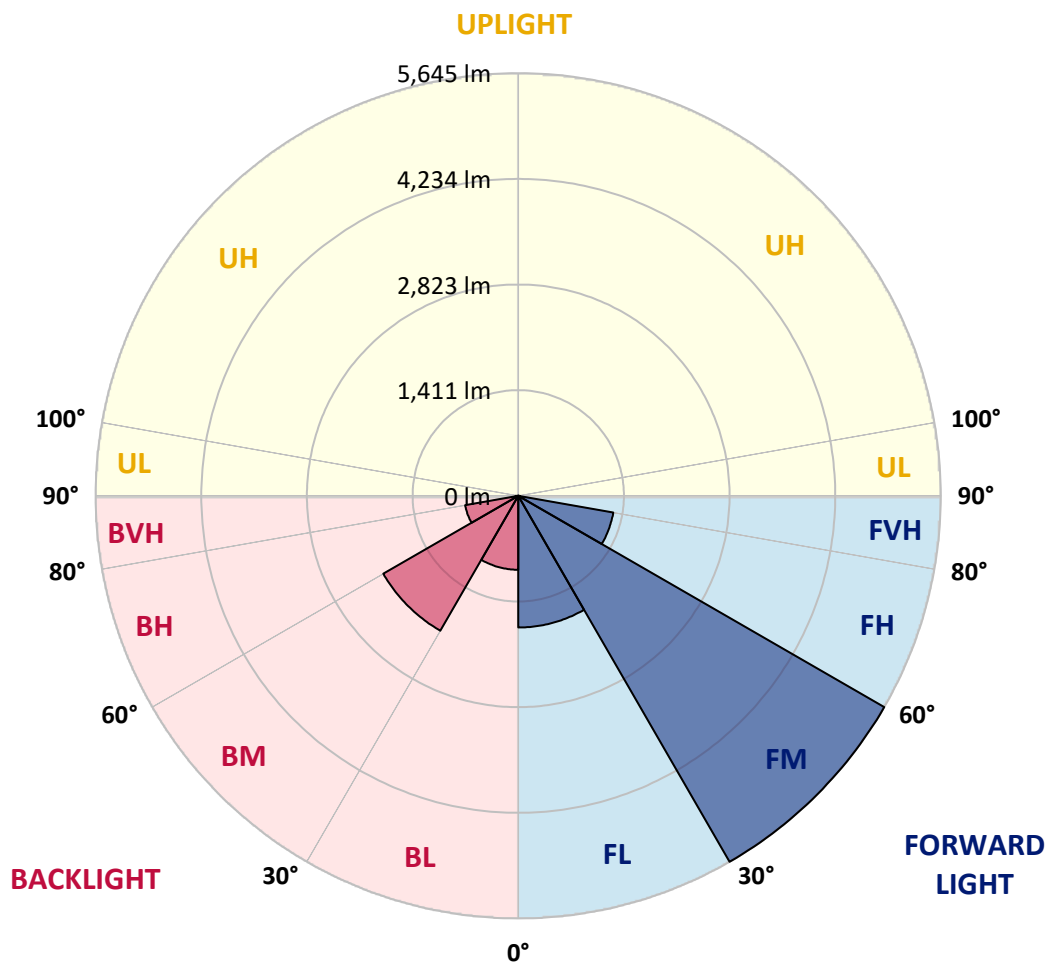
CATALOG NUMBER: GLAN-SA5A-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.1	14.0			
FM	(30°-60°)	5645.2	45.0			
FH	(60°-80°)	1288.6	10.3			G1/1800
FVH	(80°-90°)	21.4	0.2			G1/100
BL	(0°-30°)	987.5	7.9	B2/1000		
BM	(30°-60°)	2081.0	16.6	B2/2500		
BH	(60°-80°)	719.9	5.7	B2/1000		G2/1000
BVH	(80°-90°)	36.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5869.4	5836.4	5865.7	6004.8	6085.4	6140.3	6175.1	6169.6	6037.8	5909.6	5909.6
5°	5697.3	5655.2	5715.6	6030.5	6347.2	6374.6	6420.4	6345.4	6151.3	5917.0	5624.0
7.5°	5199.3	5230.4	5331.1	5744.9	6156.8	6363.7	6418.6	6323.4	6008.5	5570.9	5140.7
10°	4769.1	4842.3	5074.8	5521.5	5900.5	6169.6	6230.0	6096.4	5847.4	5311.0	4926.5
12.5°	4620.8	4575.0	4833.2	5279.9	5642.3	5787.0	5814.4	5823.6	5655.2	5179.2	4710.5
15°	4602.5	4631.8	4833.2	5171.8	5395.2	5402.5	5448.3	5519.7	5541.7	5268.9	4811.2
17.5°	4866.1	4831.3	5038.2	5307.3	5201.1	5095.0	5105.9	5208.5	5389.7	5345.8	5127.9
20°	5256.1	5334.8	5497.7	5470.3	5184.7	4915.5	4917.4	5014.4	5371.4	5664.3	5569.1
22.5°	5904.1	5981.0	6101.9	5770.5	5184.7	4862.5	4800.2	4932.0	5488.6	6043.3	6067.1
25°	6495.5	6636.4	6669.4	6279.4	5444.6	4911.9	4871.6	5001.6	5605.7	6413.1	6638.3
27.5°	7033.7	7085.0	7229.6	6607.1	5589.3	4944.8	4941.2	5107.8	5754.0	6598.0	7149.0
30°	7458.4	7453.0	7535.3	6814.0	5819.9	5129.7	4952.2	5267.0	5948.1	6903.7	7621.4
32.5°	7747.7	7809.9	7983.9	7101.4	5917.0	5305.5	5166.4	5453.8	6184.2	7048.4	7954.6
35°	8256.6	8364.7	8145.0	7260.7	6224.5	5479.4	5316.5	5708.3	6301.4	7205.8	8362.8
37.5°	8736.3	8653.9	8430.6	7346.8	6424.1	5801.6	5649.7	6200.7	6665.7	7548.2	8633.8
40°	9043.9	9042.0	8644.8	7416.3	6565.0	6294.1	6284.9	6700.5	7112.4	7764.2	8937.7
42.5°	9177.5	9305.7	8732.6	7409.0	6861.6	6890.9	7075.8	7447.5	7429.2	7808.1	8930.4
44°	9360.6	9437.5	8884.6	7425.5	7059.3	7293.7	7729.4	7965.6	7705.6	7784.3	8921.2
45°	9353.3	9358.8	8668.6	7447.5	7227.8	7630.5	8020.5	8419.6	7949.1	7733.1	9042.0
47.5°	9139.1	9076.8	8485.5	7284.5	7753.2	8520.3	8880.9	9122.6	8249.3	7623.2	8891.9
50°	8716.2	8644.8	8040.6	7215.0	7863.0	9073.2	9571.1	9659.0	8522.1	7515.2	8743.6
52.5°	8745.5	8725.3	8166.9	7319.3	7972.9	9247.1	10045.3	10067.3	8831.5	7742.2	8745.5
55°	9269.0	9199.5	8529.4	7449.3	7892.3	9043.9	9743.2	9704.8	8727.1	7604.9	8906.6
57.5°	8481.8	8527.6	8027.8	6934.9	6907.4	7352.3	7659.8	7564.6	7282.7	6863.5	8285.9
60°	6843.3	6973.3	7020.9	5799.8	5212.1	4983.3	4891.7	4723.3	4770.9	5638.7	7279.0
62.5°	5869.4	5862.0	6160.4	5257.9	3414.3	2936.5	2892.6	2931.0	3480.2	5550.8	7128.9
65°	4653.7	4778.2	4869.8	4456.0	2702.2	2180.4	2178.6	2422.1	3011.6	4639.1	5755.9
67.5°	2954.8	3117.8	3231.3	2850.5	1806.9	1552.5	1510.4	1803.3	2087.0	3042.7	3465.6
70°	1666.0	1742.9	1794.1	1644.0	1149.7	805.5	757.9	827.5	1261.4	1969.9	2054.1
72.5°	642.6	677.4	746.9	752.4	433.9	260.0	210.5	252.6	530.9	779.9	743.3
75°	98.9	106.2	150.1	179.4	124.5	95.2	100.7	104.4	148.3	201.4	168.4
77.5°	47.6	47.6	45.8	53.1	62.2	67.7	73.2	80.6	87.9	97.0	93.4
80°	31.1	31.1	31.1	36.6	45.8	54.9	62.2	65.9	69.6	76.9	73.2
82.5°	20.1	20.1	20.1	27.5	36.6	45.8	49.4	58.6	65.9	76.9	71.4
85°	11.0	11.0	11.0	18.3	27.5	38.4	36.6	29.3	16.5	1.8	3.7
87.5°	3.7	3.7	3.7	3.7	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°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	5755.9	5671.6	5664.3	5492.2	5338.4	5263.4	5203.0	5034.5	5071.2	4974.1	4972.3
5°	5477.6	5305.5	5027.2	4798.4	4569.5	4523.8	4324.2	4150.3	4155.8	4031.3	4053.3
7.5°	4977.8	4858.8	4520.1	4161.3	3857.4	3641.3	3452.8	3339.3	3194.6	3145.2	3119.6
10°	4661.1	4514.6	4133.8	3683.5	3342.9	3227.6	3046.4	2945.7	2797.4	2724.1	2672.9
12.5°	4521.9	4307.7	3831.7	3374.1	3147.0	3028.0	2874.3	2691.2	2515.4	2447.7	2354.3
15°	4536.6	4280.3	3743.9	3249.6	2976.8	2746.1	2608.8	2405.6	2226.2	2107.2	2039.4
17.5°	4758.1	4446.9	3784.1	3154.4	2762.6	2473.3	2204.2	1984.5	1841.7	1752.0	1730.1
20°	5281.7	4858.8	3851.9	3000.6	2548.4	2187.7	1856.4	1627.5	1517.7	1515.9	1517.7
22.5°	5717.4	5298.2	3989.2	2909.0	2334.2	1821.6	1492.1	1418.8	1396.9	1442.6	1448.1
25°	6305.1	5792.5	4225.4	2861.5	2136.5	1552.5	1349.3	1321.8	1320.0	1378.5	1380.4
27.5°	6907.4	6224.5	4366.3	2722.3	1935.1	1413.3	1263.2	1257.7	1287.0	1349.3	1343.8
30°	7317.5	6587.0	4620.8	2555.7	1697.1	1290.7	1228.4	1235.8	1276.0	1323.6	1330.9
32.5°	7795.3	6944.0	4686.7	2464.2	1550.6	1188.2	1144.2	1160.7	1212.0	1287.0	1327.3
35°	8342.7	7196.6	4787.4	2339.7	1495.7	1109.4	1087.5	1105.8	1168.0	1217.4	1261.4
37.5°	8747.3	7643.3	4805.7	2242.7	1435.3	1065.5	1030.7	1091.1	1127.7	1197.3	1219.3
40°	9047.5	7967.4	4853.3	2182.2	1387.7	1008.7	1008.7	1049.0	1098.4	1162.5	1206.5
42.5°	9239.8	8203.6	4888.1	2127.3	1296.2	992.3	983.1	1023.4	1089.3	1151.5	1171.7
44°	9356.9	8304.2	4853.3	2076.1	1270.5	972.1	972.1	1006.9	1058.2	1131.4	1155.2
45°	9386.2	8430.6	4776.4	2074.2	1239.4	948.3	944.7	1010.6	1045.4	1135.1	1149.7
47.5°	9499.7	8586.2	4785.6	2015.6	1164.4	891.6	955.6	984.9	1016.1	1094.8	1144.2
50°	9496.1	8683.2	4765.4	1929.6	1109.4	827.5	933.7	966.6	997.8	1078.3	1098.4
52.5°	9521.7	9045.7	4950.3	1792.3	1010.6	745.1	860.4	933.7	972.1	1039.9	1082.0
55°	9508.9	9252.6	5133.4	1689.8	871.4	695.7	798.2	884.2	939.2	1010.6	1030.7
57.5°	8685.0	8177.9	4750.8	1497.5	721.3	637.1	710.3	833.0	902.6	975.8	1001.4
60°	7096.0	6303.2	3917.8	1102.1	593.2	585.8	660.9	816.5	845.8	909.9	953.8
62.5°	6557.7	5528.8	3106.8	842.1	507.1	536.4	609.6	737.8	783.6	862.3	902.6
65°	5131.6	3672.5	1924.1	569.4	446.7	481.5	551.1	646.3	721.3	794.5	842.1
67.5°	3039.0	2006.5	952.0	399.1	389.9	426.6	498.0	569.4	655.4	736.0	759.8
70°	1655.0	986.8	406.4	303.9	331.4	364.3	433.9	483.3	565.7	627.9	668.2
72.5°	530.9	300.2	203.2	225.2	252.6	291.1	333.2	393.6	452.2	488.8	521.8
75°	128.2	126.3	144.6	157.4	183.1	212.4	247.2	278.3	324.0	358.8	388.1
77.5°	89.7	97.0	111.7	130.0	139.1	150.1	172.1	195.9	216.0	241.7	260.0
80°	69.6	75.1	86.0	95.2	104.4	113.5	124.5	133.6	146.5	162.9	172.1
82.5°	65.9	69.6	80.6	86.0	82.4	80.6	87.9	91.5	93.4	98.9	104.4
85°	5.5	0.0	3.7	12.8	31.1	45.8	49.4	49.4	47.6	51.3	51.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.3	5.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	4950.3	4888.1	4911.9	4941.2	4899.1	4802.0	4827.7	4816.7	4915.5	4908.2	5007.1
5°	4150.3	4053.3	4064.2	4207.0	4161.3	4210.7	4111.8	4099.0	4117.3	4126.5	4143.0
7.5°	3176.3	3163.5	3273.4	3394.2	3450.9	3392.4	3295.3	3273.4	3253.2	3213.0	3304.5
10°	2592.3	2596.0	2588.7	2680.2	2744.3	2731.5	2672.9	2665.6	2627.1	2612.5	2663.7
12.5°	2314.1	2264.6	2240.8	2211.5	2261.0	2293.9	2268.3	2250.0	2251.8	2270.1	2277.4
15°	2044.9	2013.8	1962.6	1929.6	1953.4	1936.9	1927.8	1964.4	1955.2	1951.6	1995.5
17.5°	1742.9	1768.5	1764.8	1728.2	1759.3	1746.5	1744.7	1719.1	1684.3	1658.7	1673.3
20°	1543.3	1590.9	1627.5	1629.4	1645.8	1644.0	1616.5	1537.8	1512.2	1506.7	1510.4
22.5°	1471.9	1497.5	1541.5	1603.7	1603.7	1574.4	1541.5	1449.9	1426.1	1400.5	1389.5
25°	1415.2	1464.6	1521.3	1528.7	1558.0	1530.5	1477.4	1431.6	1382.2	1347.4	1347.4
27.5°	1385.9	1440.8	1482.9	1495.7	1536.0	1514.0	1459.1	1400.5	1341.9	1340.1	1309.0
30°	1373.1	1424.3	1451.8	1482.9	1501.2	1466.4	1449.9	1387.7	1329.1	1314.5	1263.2
32.5°	1334.6	1407.8	1459.1	1451.8	1466.4	1451.8	1428.0	1376.7	1310.8	1277.9	1272.4
35°	1290.7	1363.9	1418.8	1457.3	1466.4	1435.3	1420.7	1351.1	1261.4	1244.9	1188.2
37.5°	1266.9	1310.8	1378.5	1440.8	1453.6	1437.1	1387.7	1316.3	1226.6	1208.3	1158.9
40°	1237.6	1294.3	1347.4	1398.7	1437.1	1396.9	1340.1	1270.5	1230.3	1175.3	1160.7
42.5°	1215.6	1279.7	1323.6	1380.4	1424.3	1371.2	1305.3	1257.7	1201.0	1164.4	1122.2
44°	1208.3	1266.9	1296.2	1365.7	1402.3	1362.1	1307.2	1257.7	1191.8	1158.9	1122.2
45°	1182.7	1263.2	1294.3	1356.6	1387.7	1354.7	1285.2	1235.8	1188.2	1147.9	1109.4
47.5°	1157.0	1212.0	1265.0	1314.5	1336.4	1325.5	1266.9	1206.5	1149.7	1125.9	1089.3
50°	1149.7	1204.6	1254.1	1299.8	1325.5	1303.5	1250.4	1191.8	1125.9	1087.5	1056.3
52.5°	1113.1	1180.8	1235.8	1250.4	1283.4	1270.5	1230.3	1166.2	1103.9	1071.0	1045.4
55°	1060.0	1131.4	1206.5	1224.8	1272.4	1252.2	1191.8	1131.4	1078.3	1028.9	995.9
57.5°	1039.9	1109.4	1182.7	1206.5	1235.8	1202.8	1188.2	1124.1	1039.9	1014.2	963.0
60°	988.6	1076.5	1136.9	1191.8	1193.6	1184.5	1158.9	1085.6	1016.1	968.5	931.8
62.5°	948.3	1030.7	1078.3	1129.6	1160.7	1135.1	1109.4	1041.7	966.6	913.5	871.4
65°	889.7	964.8	1005.1	1036.2	1071.0	1067.3	1023.4	974.0	895.2	853.1	812.8
67.5°	800.0	865.9	920.9	950.2	972.1	966.6	933.7	898.9	818.3	776.2	746.9
70°	692.0	759.8	794.5	811.0	833.0	844.0	818.3	801.9	730.5	675.5	648.1
72.5°	556.5	600.5	651.7	666.4	675.5	682.9	682.9	668.2	595.0	573.0	525.4
75°	410.1	444.9	483.3	483.3	499.8	501.6	505.3	496.1	441.2	411.9	400.9
77.5°	278.3	303.9	335.0	347.8	358.8	357.0	355.2	329.5	300.2	287.4	276.4
80°	181.2	206.9	221.5	238.0	249.0	247.2	250.8	232.5	219.7	197.7	201.4
82.5°	108.0	128.2	142.8	162.9	162.9	168.4	168.4	162.9	150.1	139.1	139.1
85°	51.3	67.7	76.9	89.7	97.0	98.9	87.9	75.1	62.2	56.8	62.2
87.5°	9.2	12.8	18.3	16.5	20.1	18.3	18.3	18.3	18.3	14.6	16.5
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°	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9	5592.9
2.5°	4970.5	5062.0	5126.1	5232.3	5415.3	5561.8	5711.9	5823.6	5836.4	5869.4
5°	4203.4	4252.8	4415.8	4628.1	4778.2	5025.4	5184.7	5473.9	5581.9	5697.3
7.5°	3282.5	3363.1	3580.9	3723.7	4053.3	4362.7	4683.0	5040.0	5182.8	5199.3
10°	2768.1	2885.2	3033.5	3262.4	3441.8	3786.0	4185.1	4582.3	4741.6	4769.1
12.5°	2431.2	2581.3	2779.1	2943.8	3115.9	3416.2	3798.8	4289.4	4496.3	4620.8
15°	2107.2	2262.8	2480.7	2709.5	2861.5	3220.3	3670.6	4223.5	4492.6	4602.5
17.5°	1774.0	1918.6	2098.0	2345.2	2650.9	3053.7	3650.5	4443.2	4738.0	4866.1
20°	1488.4	1568.9	1777.7	2032.1	2414.7	2883.4	3657.8	4767.3	5199.3	5256.1
22.5°	1376.7	1395.0	1477.4	1711.7	2131.0	2709.5	3787.8	5226.8	5717.4	5904.1
25°	1290.7	1287.0	1309.0	1466.4	1924.1	2641.8	3916.0	5649.7	6292.3	6495.5
27.5°	1243.1	1206.5	1208.3	1356.6	1777.7	2531.9	4080.7	6134.8	6944.0	7033.7
30°	1219.3	1212.0	1190.0	1250.4	1618.4	2367.1	4108.2	6612.6	7328.5	7458.4
32.5°	1204.6	1133.2	1105.8	1127.7	1468.3	2187.7	4210.7	6927.5	7804.5	7747.7
35°	1131.4	1067.3	1049.0	1071.0	1362.1	2087.0	4143.0	7202.1	8161.4	8256.6
37.5°	1103.9	1047.2	1010.6	992.3	1263.2	2002.8	4108.2	7625.0	8507.5	8736.3
40°	1078.3	1017.9	974.0	955.6	1186.3	1891.2	4097.2	7950.9	8906.6	9043.9
42.5°	1049.0	1010.6	961.1	928.2	1093.0	1779.5	3970.9	8051.6	9029.2	9177.5
44°	1039.9	981.3	930.0	919.0	1056.3	1722.7	3945.2	8143.1	9135.4	9360.6
45°	1030.7	975.8	917.2	902.6	1043.5	1691.6	3910.5	8165.1	9311.2	9353.3
47.5°	1005.1	970.3	913.5	873.3	1016.1	1623.9	3806.1	8040.6	9131.7	9139.1
50°	984.9	944.7	886.1	807.4	979.4	1567.1	3853.7	7994.9	8699.7	8716.2
52.5°	963.0	902.6	869.6	734.1	919.0	1519.5	3954.4	8201.7	8749.1	8745.5
55°	937.3	871.4	790.9	671.9	818.3	1459.1	4197.9	8610.0	9206.8	9269.0
57.5°	897.1	840.3	725.0	617.0	703.0	1343.8	4119.2	7828.3	8470.8	8481.8
60°	844.0	790.9	657.2	574.9	576.7	1060.0	3683.5	6100.0	6684.0	6843.3
62.5°	792.7	763.4	600.5	514.4	490.6	844.0	3114.1	5069.3	5737.5	5869.4
65°	732.3	660.9	551.1	468.7	421.1	591.3	2206.0	3787.8	4476.2	4653.7
67.5°	655.4	578.5	485.1	411.9	360.7	395.4	1138.7	2153.0	2850.5	2954.8
70°	573.0	501.6	408.3	347.8	291.1	272.8	501.6	1027.0	1558.0	1666.0
72.5°	470.5	404.6	325.9	274.6	217.9	188.6	168.4	274.6	552.9	642.6
75°	340.5	294.7	245.3	195.9	153.8	120.8	98.9	82.4	91.5	98.9
77.5°	250.8	214.2	181.2	139.1	108.0	86.0	67.7	51.3	49.4	47.6
80°	195.9	173.9	144.6	111.7	84.2	64.1	47.6	34.8	31.1	31.1
82.5°	153.8	142.8	119.0	91.5	69.6	51.3	34.8	23.8	20.1	20.1
85°	58.6	58.6	86.0	75.1	53.1	36.6	23.8	12.8	11.0	11.0
87.5°	14.6	14.6	14.6	14.6	12.8	11.0	11.0	5.5	3.7	3.7
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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