

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: P324635

Luminaire Tested: **GAN-SA1B-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324635
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-SA1B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3525 lumens
Efficiency: N/A
Efficacy: 80.1 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

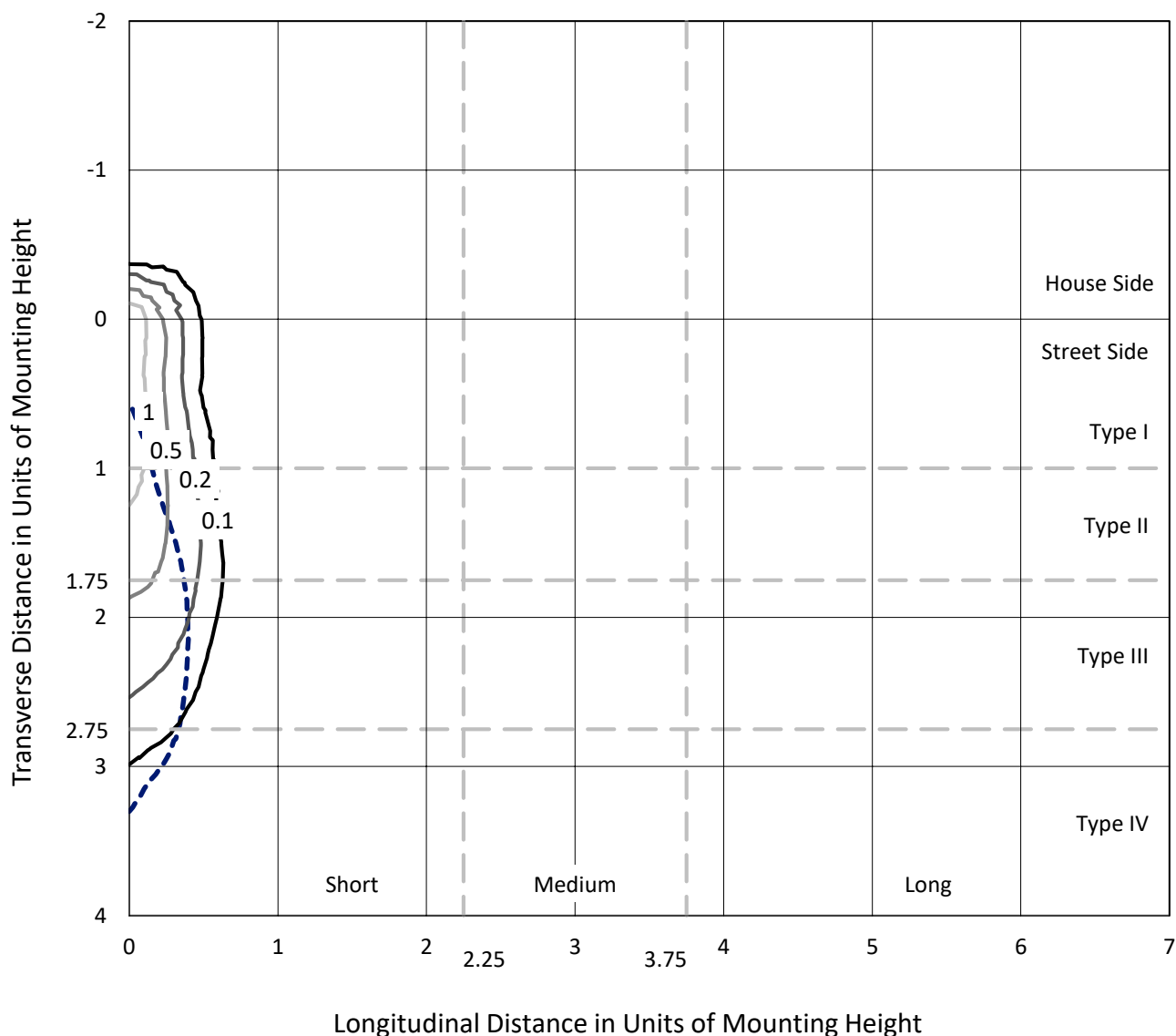
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

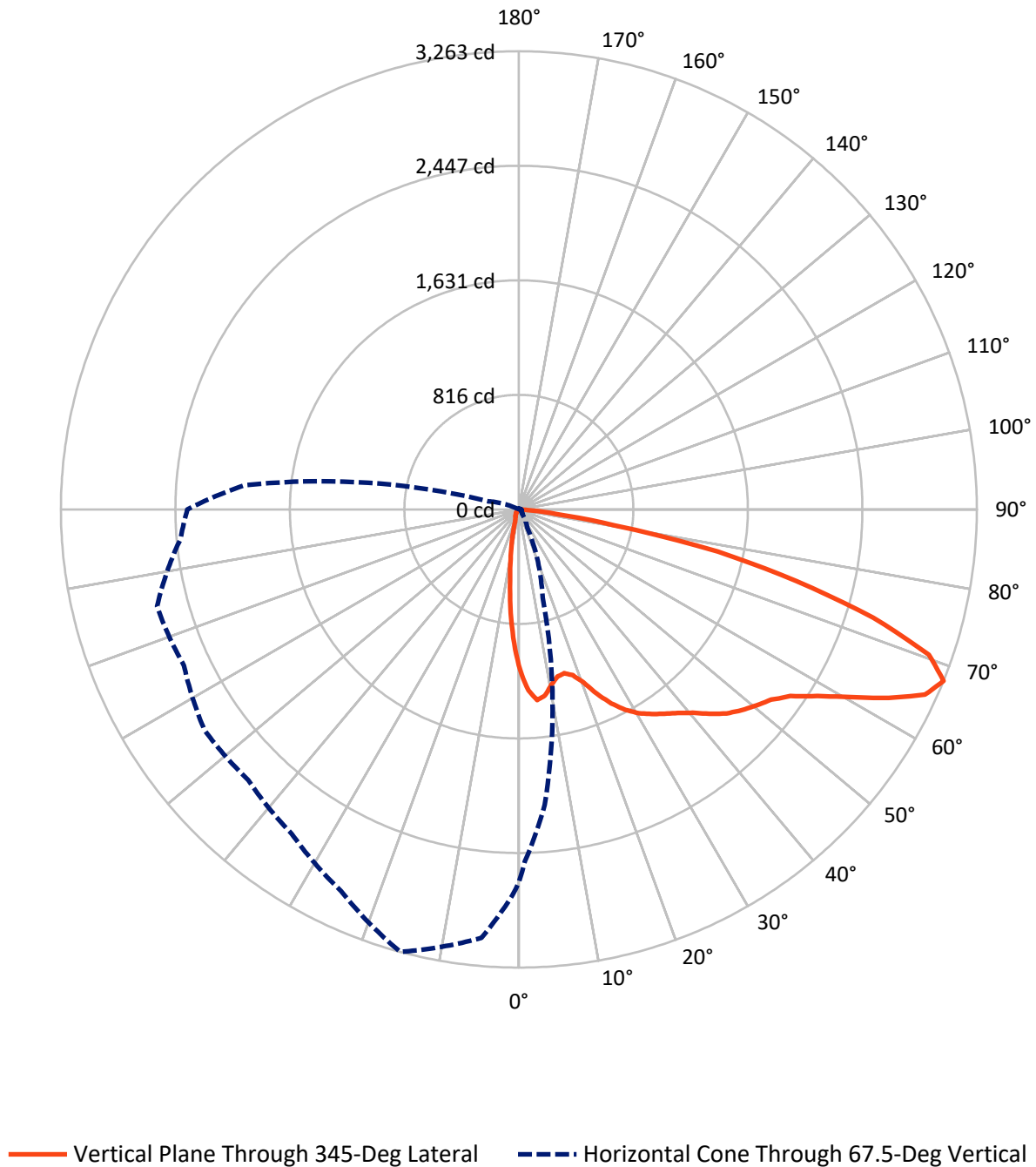
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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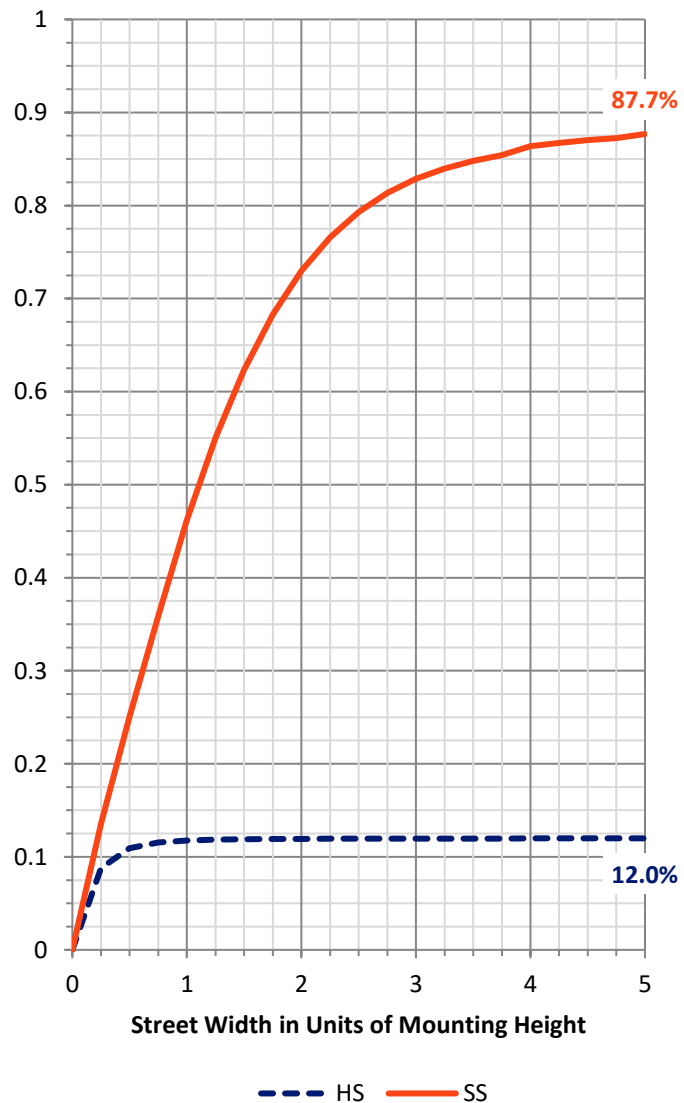
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.6	0.0	426.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	3098.4	0.0	3098.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	3525.0	0.0	3525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	2.5
10°-20°	175.4	5.0
20°-30°	249.1	7.1
30°-40°	367.9	10.4
40°-50°	530.6	15.1
50°-60°	744.9	21.1
60°-70°	868.3	24.6
70°-80°	443.9	12.6
80°-90°	56.7	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°	3525.0	100.0
0°-180°	3525.0	100.0

Coefficient of Utilization



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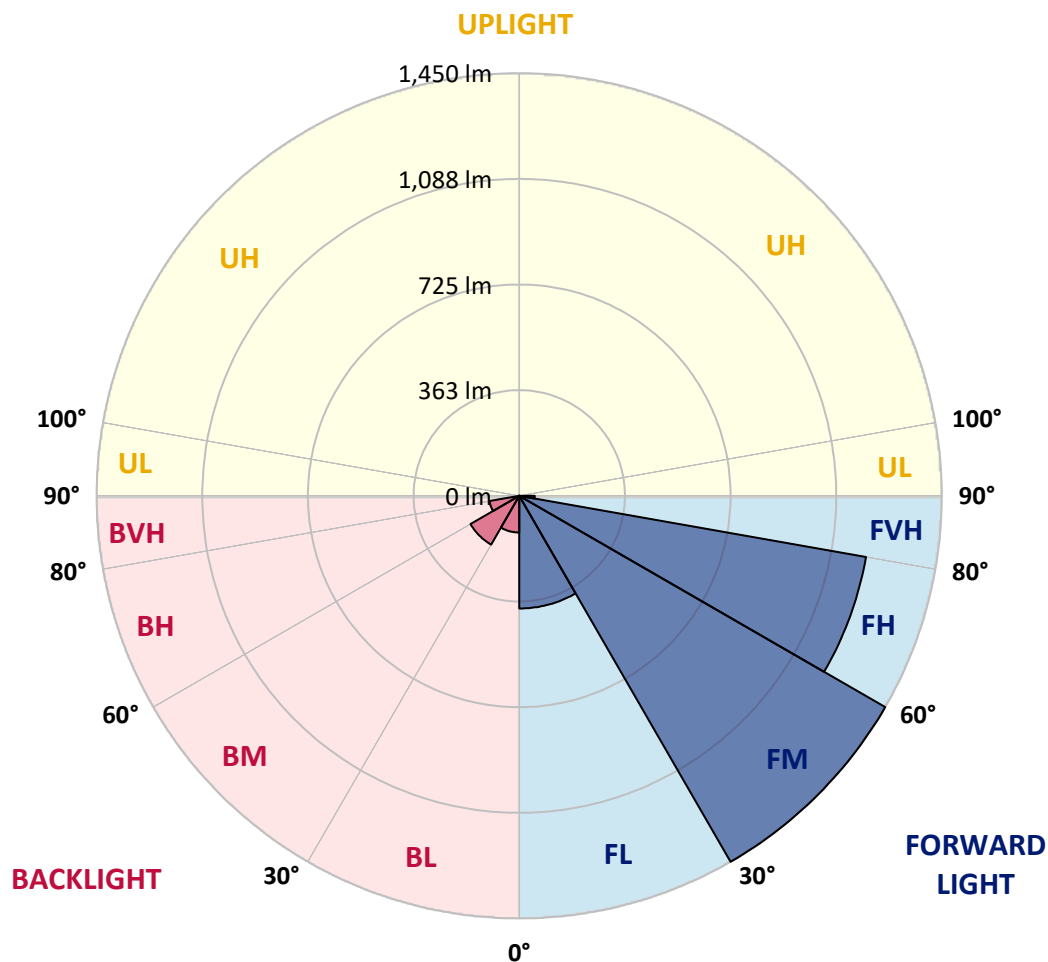
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.6	11.0			
FM	(30°-60°)	1450.2	41.1			
FH	(60°-80°)	1208.2	34.3			G1/1800
FVH	(80°-90°)	53.2	1.5			G1/100
BL	(0°-30°)	126.0	3.6	B1/500		
BM	(30°-60°)	193.2	5.5	B0/220		
BH	(60°-80°)	104.0	2.9	B0/110		G0/110
BVH	(80°-90°)	3.4	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°	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3
2.5°	1257.3	1247.6	1236.9	1202.0	1169.6	1132.6	1102.3	1081.3	1054.9	1020.7	1012.0
5°	1248.3	1237.9	1204.4	1126.7	1058.8	992.6	928.8	891.4	845.0	797.9	786.2
7.5°	1157.6	1146.8	1098.3	992.0	900.4	804.9	722.1	670.8	618.4	575.3	552.4
10°	1063.3	1051.4	997.0	867.9	755.2	668.8	608.0	559.1	509.5	463.4	426.7
12.5°	998.3	982.8	923.7	777.4	679.2	620.6	563.8	505.2	438.0	388.6	348.2
15°	971.1	953.4	890.9	742.5	652.3	583.5	509.5	437.5	358.9	302.3	265.2
17.5°	992.1	969.1	902.1	740.1	618.6	524.9	431.3	346.9	261.5	204.2	177.9
20°	1063.6	1033.4	948.4	739.5	577.6	455.2	336.7	241.1	172.3	138.6	124.7
22.5°	1176.2	1136.2	1014.8	744.8	535.4	382.1	243.1	163.8	129.4	111.9	103.7
25°	1312.1	1265.8	1110.5	763.7	498.3	310.9	176.7	129.4	109.2	96.4	89.5
27.5°	1441.3	1403.8	1231.4	790.9	469.6	253.5	143.4	109.7	93.4	84.8	79.3
30°	1570.4	1523.2	1355.5	823.3	435.0	214.6	126.1	100.0	83.7	74.6	71.1
32.5°	1664.3	1625.0	1452.7	846.7	398.1	189.2	112.7	91.5	78.2	69.0	63.8
35°	1774.7	1730.2	1536.0	851.8	374.4	173.2	101.4	82.3	67.8	59.6	54.1
37.5°	1893.9	1838.6	1632.2	840.5	355.9	165.3	92.8	78.2	63.3	54.9	49.1
40°	2025.8	1963.4	1724.6	824.1	337.7	162.7	86.3	75.0	59.8	51.3	45.3
42.5°	2164.8	2091.1	1804.6	806.9	326.1	153.5	85.7	71.8	57.1	47.9	41.9
45°	2281.5	2206.8	1886.7	801.2	318.0	143.4	88.5	69.6	55.3	45.3	39.4
47.5°	2374.5	2303.9	1970.9	813.9	313.3	134.3	80.7	72.5	54.3	42.9	37.2
50°	2485.6	2405.6	2089.4	851.8	306.4	125.1	73.0	83.0	54.3	41.4	35.4
52.5°	2624.8	2545.7	2221.7	910.6	292.7	112.4	65.6	83.2	54.8	39.4	33.1
55°	2800.0	2742.6	2410.6	975.1	270.9	93.7	56.8	71.5	52.8	35.7	30.9
57.5°	2968.0	2921.1	2582.8	1019.2	241.6	73.1	49.4	57.6	48.3	31.4	27.6
59°	3013.9	2962.7	2645.9	1021.2	219.8	63.8	45.8	47.6	47.3	29.4	25.6
60°	3013.9	2959.5	2664.1	1010.5	203.9	58.6	43.4	42.4	49.3	28.1	24.4
62.5°	2959.3	2882.8	2605.0	938.2	166.3	49.9	37.9	35.1	44.3	25.2	21.5
65°	2845.8	2734.4	2403.6	807.4	148.3	45.8	32.7	28.7	30.7	22.2	18.9
67.5°	2656.4	2505.4	2113.2	652.3	141.1	44.6	28.2	24.4	23.2	19.0	16.5
70°	2322.9	2155.4	1760.6	512.8	134.9	44.1	23.7	20.5	18.7	16.0	14.0
72.5°	1690.7	1516.0	1250.0	401.0	131.3	45.1	19.0	17.2	15.4	12.5	10.9
75°	967.1	852.7	702.6	264.9	111.9	43.1	14.7	14.4	11.0	9.0	7.5
77.5°	499.7	484.5	421.0	101.7	53.6	18.9	9.7	8.3	6.5	5.5	4.5
80°	215.6	213.3	184.5	29.4	14.2	10.5	5.5	3.5	3.0	2.3	1.8
82.5°	74.5	74.5	65.6	9.9	6.3	5.2	0.7	0.0	0.0	0.0	0.0
85°	15.0	16.9	11.9	0.0	2.2	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°	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3
2.5°	1001.5	981.3	979.9	967.2	951.4	944.2	940.0	947.4	956.4	957.4	970.9
5°	777.4	756.2	765.0	742.5	747.0	742.5	735.1	736.5	740.5	727.9	743.5
7.5°	545.9	529.9	540.1	534.1	542.1	545.2	540.7	534.1	514.3	512.0	525.5
10°	411.5	393.3	382.4	371.1	373.6	378.7	377.1	372.2	359.7	360.4	373.4
12.5°	330.7	310.3	288.7	260.8	254.0	257.8	254.0	251.2	239.1	240.1	251.7
15°	250.8	234.1	211.6	189.2	177.0	178.2	167.5	160.0	152.5	143.4	150.5
17.5°	169.3	159.1	152.5	145.8	131.3	127.9	114.4	99.9	94.2	90.0	93.0
20°	119.9	114.4	111.7	111.4	103.0	98.9	85.7	76.7	73.8	73.0	74.8
22.5°	100.2	96.2	92.3	90.2	86.0	81.2	71.1	66.6	64.6	63.6	65.0
25°	87.2	84.2	80.2	76.5	74.8	69.6	62.5	59.1	57.8	56.8	57.4
27.5°	77.5	74.8	70.1	67.8	66.5	62.0	55.8	53.1	51.9	51.6	51.4
30°	69.8	67.3	63.0	60.3	57.9	53.9	50.3	47.6	46.4	46.1	45.8
32.5°	62.1	60.1	57.3	54.6	52.1	48.4	45.3	43.1	41.2	40.9	40.7
35°	52.4	50.4	48.9	48.8	46.4	42.9	40.6	37.7	36.2	35.7	35.9
37.5°	46.6	43.9	40.6	41.7	41.1	38.6	35.4	32.6	31.1	30.7	30.7
40°	42.9	40.1	36.2	34.2	36.2	35.7	30.7	27.9	26.4	26.2	25.9
42.5°	39.4	36.6	32.2	28.9	29.9	31.4	26.6	23.9	22.4	22.0	21.5
45°	36.9	33.9	29.1	25.2	23.2	26.4	22.7	19.4	18.5	17.9	17.5
47.5°	34.6	31.7	26.2	21.9	18.5	19.0	18.2	15.9	14.9	14.2	14.0
50°	32.6	29.6	23.7	18.7	15.4	14.0	14.7	12.5	11.7	11.0	10.7
52.5°	30.2	27.4	21.0	16.2	12.9	11.0	11.2	9.9	9.0	8.5	8.3
55°	28.4	25.6	18.9	14.2	11.4	9.0	8.0	7.7	7.2	6.8	6.7
57.5°	25.9	23.2	16.7	12.0	9.7	7.3	6.2	6.2	6.0	5.7	5.5
59°	24.4	22.0	15.4	10.9	8.9	6.3	5.5	5.7	5.5	5.2	5.0
60°	23.2	21.0	14.4	10.0	8.3	5.8	5.0	5.3	5.2	4.8	4.7
62.5°	20.5	19.0	12.4	8.3	7.3	4.7	4.2	4.5	4.5	4.3	4.2
65°	18.0	16.4	10.5	7.0	6.8	4.0	3.3	4.0	4.2	3.8	3.5
67.5°	15.7	14.0	9.2	5.7	6.3	3.2	2.5	3.3	4.5	3.5	3.2
70°	13.4	11.7	7.2	4.5	6.7	2.2	2.0	3.0	5.3	3.8	3.0
72.5°	10.4	9.0	5.0	3.3	7.2	1.5	1.5	2.5	6.0	4.2	2.8
75°	7.2	5.8	3.0	2.0	5.8	1.0	1.0	2.3	5.7	3.8	2.7
77.5°	4.2	3.2	1.0	0.2	3.0	0.0	0.2	1.7	4.0	2.3	1.2
80°	1.5	0.7	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°	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3
2.5°	974.4	997.0	1017.2	1047.7	1084.0	1125.7	1161.6	1200.2	1236.4	1251.5	1261.8
5°	746.6	774.5	807.1	852.0	911.8	985.4	1054.4	1132.4	1216.2	1258.1	1297.6
7.5°	527.9	556.3	596.7	644.4	716.7	804.4	894.6	1002.3	1115.9	1182.2	1247.5
10°	379.6	414.5	452.2	517.5	591.0	674.2	767.0	887.2	1013.8	1087.3	1166.0
12.5°	258.3	298.1	355.2	428.3	514.7	596.2	676.8	791.6	938.5	1011.3	1095.7
15°	155.0	177.0	237.5	322.1	428.0	529.5	617.9	732.9	889.6	978.8	1066.4
17.5°	95.5	105.7	138.6	208.1	319.3	447.7	568.8	713.1	896.6	1005.1	1099.0
20°	76.2	80.2	90.7	122.9	211.6	357.5	513.5	709.1	953.9	1087.5	1188.2
22.5°	66.1	70.0	77.0	89.3	133.1	267.7	461.1	712.7	1036.0	1210.9	1328.5
25°	58.3	61.6	68.3	78.5	97.5	188.5	405.0	729.1	1143.1	1364.0	1488.9
27.5°	52.1	54.9	61.1	70.5	83.7	131.6	341.3	749.0	1270.0	1520.7	1643.9
30°	46.4	48.9	54.4	63.1	72.6	101.2	271.5	762.5	1397.1	1643.9	1754.6
32.5°	41.6	43.4	48.4	55.8	63.1	80.7	206.4	760.3	1491.4	1746.4	1834.3
35°	36.6	38.4	42.8	49.1	54.9	66.6	162.3	719.8	1573.6	1852.8	1925.5
37.5°	31.1	33.4	37.6	43.3	47.3	58.6	131.3	670.8	1656.9	1974.4	2027.2
40°	26.4	28.7	32.4	38.6	41.1	55.6	100.9	611.2	1750.6	2110.3	2138.7
42.5°	21.9	24.0	27.9	33.2	38.7	47.9	74.6	543.1	1840.6	2226.6	2240.4
45°	17.7	19.9	23.9	29.2	41.4	39.7	57.8	470.1	1913.3	2323.2	2327.8
47.5°	14.0	16.0	20.2	27.6	38.6	31.7	41.2	412.8	1974.2	2398.7	2386.9
50°	10.9	12.5	16.9	31.6	33.7	26.2	31.2	393.8	2028.8	2445.5	2414.8
52.5°	8.5	10.0	13.9	29.6	26.2	21.7	26.2	411.6	2103.6	2484.2	2430.5
55°	6.8	8.3	10.9	16.9	17.9	18.4	22.4	428.3	2232.7	2575.1	2523.1
57.5°	5.7	7.2	8.9	11.9	13.5	15.5	19.9	430.2	2384.9	2726.0	2676.9
59°	5.2	6.5	8.0	10.5	11.9	14.2	18.7	420.2	2438.5	2781.0	2756.4
60°	4.8	6.2	7.5	9.7	11.0	13.4	18.0	410.6	2440.8	2779.0	2790.3
62.5°	4.2	5.5	6.7	8.2	9.4	11.4	16.2	375.4	2341.9	2688.0	2770.0
65°	3.7	4.8	6.0	7.0	8.0	10.2	14.7	311.1	2173.1	2541.2	2630.5
67.5°	3.3	4.2	5.5	6.2	7.2	9.0	13.0	221.8	1962.2	2361.7	2419.6
70°	3.0	4.0	5.0	5.7	6.5	7.8	11.2	127.4	1656.9	2098.8	2140.0
72.5°	2.8	3.8	4.5	5.3	5.8	7.0	10.2	60.0	1213.2	1681.3	1789.0
75°	2.5	3.5	4.2	5.0	5.5	6.3	8.7	28.7	806.9	1216.7	1339.1
77.5°	1.5	2.8	3.8	4.5	4.8	5.5	7.2	16.5	515.0	842.2	992.0
80°	0.0	1.0	2.8	3.8	4.2	4.7	5.5	13.0	275.5	481.1	577.5
82.5°	0.0	0.0	2.0	3.0	2.8	3.2	4.2	8.2	124.2	314.5	354.4
85°	0.0	0.0	0.7	2.3	2.0	1.5	2.8	2.8	27.2	159.1	198.6
87.5°	0.0	0.0	0.0	0.2	1.0	0.7	1.2	0.3	0.2	11.9	48.1
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°	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3	1148.3
2.5°	1298.1	1310.4	1331.3	1341.1	1336.3	1315.8	1291.2	1266.2	1251.5	1257.3
5°	1377.9	1441.5	1478.2	1490.4	1470.1	1424.0	1363.7	1284.2	1256.0	1248.3
7.5°	1377.9	1497.6	1573.4	1586.8	1541.4	1451.0	1338.0	1213.9	1172.6	1157.6
10°	1329.5	1492.4	1598.1	1619.4	1555.9	1420.8	1269.3	1127.7	1078.8	1063.3
12.5°	1274.8	1450.4	1561.7	1591.0	1538.9	1390.7	1221.7	1069.4	1011.8	998.3
15°	1241.3	1398.6	1490.8	1512.0	1489.9	1373.2	1210.4	1051.9	984.1	971.1
17.5°	1253.3	1358.5	1391.7	1404.1	1419.0	1367.0	1241.3	1090.3	1004.5	992.1
20°	1298.6	1316.3	1299.1	1314.6	1354.7	1373.0	1314.9	1183.2	1080.1	1063.6
22.5°	1375.4	1294.4	1246.1	1252.3	1301.1	1392.9	1427.5	1315.8	1196.9	1176.2
25°	1464.9	1312.1	1216.7	1211.2	1261.3	1419.1	1530.3	1460.0	1335.0	1312.1
27.5°	1577.4	1351.8	1210.7	1205.2	1247.5	1443.7	1615.9	1602.7	1480.4	1441.3
30°	1664.3	1390.9	1228.6	1215.9	1261.3	1460.7	1684.5	1723.7	1596.3	1570.4
32.5°	1726.6	1437.0	1257.6	1239.3	1300.4	1490.1	1737.4	1834.6	1703.5	1664.3
35°	1774.0	1487.1	1304.6	1274.3	1354.2	1534.7	1787.0	1952.7	1817.6	1774.7
37.5°	1818.4	1557.4	1377.9	1341.8	1438.5	1606.5	1839.5	2086.6	1945.2	1893.9
40°	1880.4	1637.1	1490.9	1458.9	1580.3	1704.4	1904.9	2226.2	2090.3	2025.8
42.5°	1942.3	1722.6	1606.7	1615.3	1757.1	1823.3	1989.4	2373.8	2233.6	2164.8
45°	1998.9	1810.7	1771.5	1811.6	1921.3	1953.7	2073.4	2459.2	2348.0	2281.5
47.5°	2049.4	1921.0	1935.3	2042.0	2108.0	2071.7	2136.2	2532.8	2433.1	2374.5
50°	2108.0	2063.6	2151.2	2302.2	2322.9	2178.6	2193.3	2620.0	2532.7	2485.6
52.5°	2172.1	2213.9	2390.4	2523.5	2516.8	2294.7	2250.8	2717.7	2669.1	2624.8
55°	2244.9	2335.3	2601.0	2730.5	2724.9	2424.3	2346.0	2838.4	2840.1	2800.0
57.5°	2353.0	2439.8	2743.9	2898.0	2907.6	2573.9	2507.3	2973.7	2994.7	2968.0
59°	2430.5	2507.6	2800.5	2968.0	3006.8	2689.6	2625.2	3052.2	3038.3	3013.9
60°	2487.9	2550.7	2828.6	3004.6	3064.4	2768.1	2712.2	3098.3	3043.5	3013.9
62.5°	2630.0	2644.5	2879.2	3046.0	3130.7	2942.5	2957.0	3176.8	3007.6	2959.3
65°	2696.3	2703.8	2878.5	2971.9	3066.5	3078.2	3179.1	3179.1	2919.9	2845.8
67.5°	2668.6	2632.4	2735.7	2726.0	2820.6	2997.6	3262.6	3062.5	2752.3	2656.4
70°	2443.1	2303.7	2257.8	2262.0	2334.3	2607.3	3097.3	2719.5	2435.0	2322.9
72.5°	2032.8	1698.3	1585.0	1714.4	1733.2	2003.8	2639.5	2048.0	1795.7	1690.7
75°	1635.1	1197.2	1012.8	1149.4	1181.5	1466.4	2041.9	1275.5	1048.9	967.1
77.5°	1174.6	859.4	726.8	717.2	758.7	930.0	1448.9	641.9	535.4	499.7
80°	667.3	565.6	609.0	574.6	595.5	581.5	688.4	281.6	230.6	215.6
82.5°	402.8	334.3	362.0	301.4	381.4	332.2	265.2	90.2	78.3	74.5
85°	262.0	182.7	95.2	63.8	131.4	212.3	59.3	24.5	18.9	15.0
87.5°	90.3	46.6	4.7	2.0	14.0	39.6	2.2	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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