

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: P451307

Luminaire Tested: **GLAN-SA2A-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6299 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

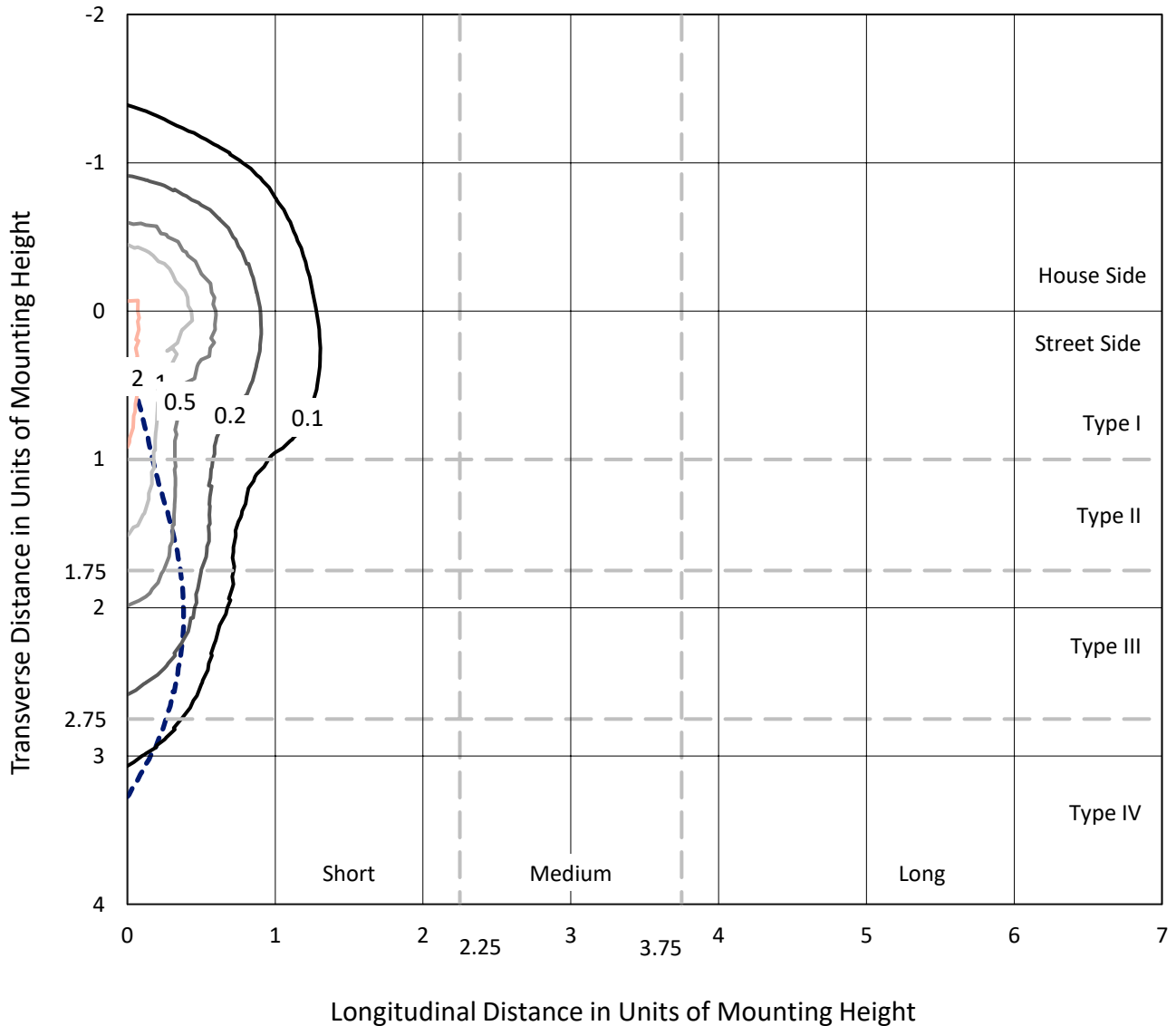
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

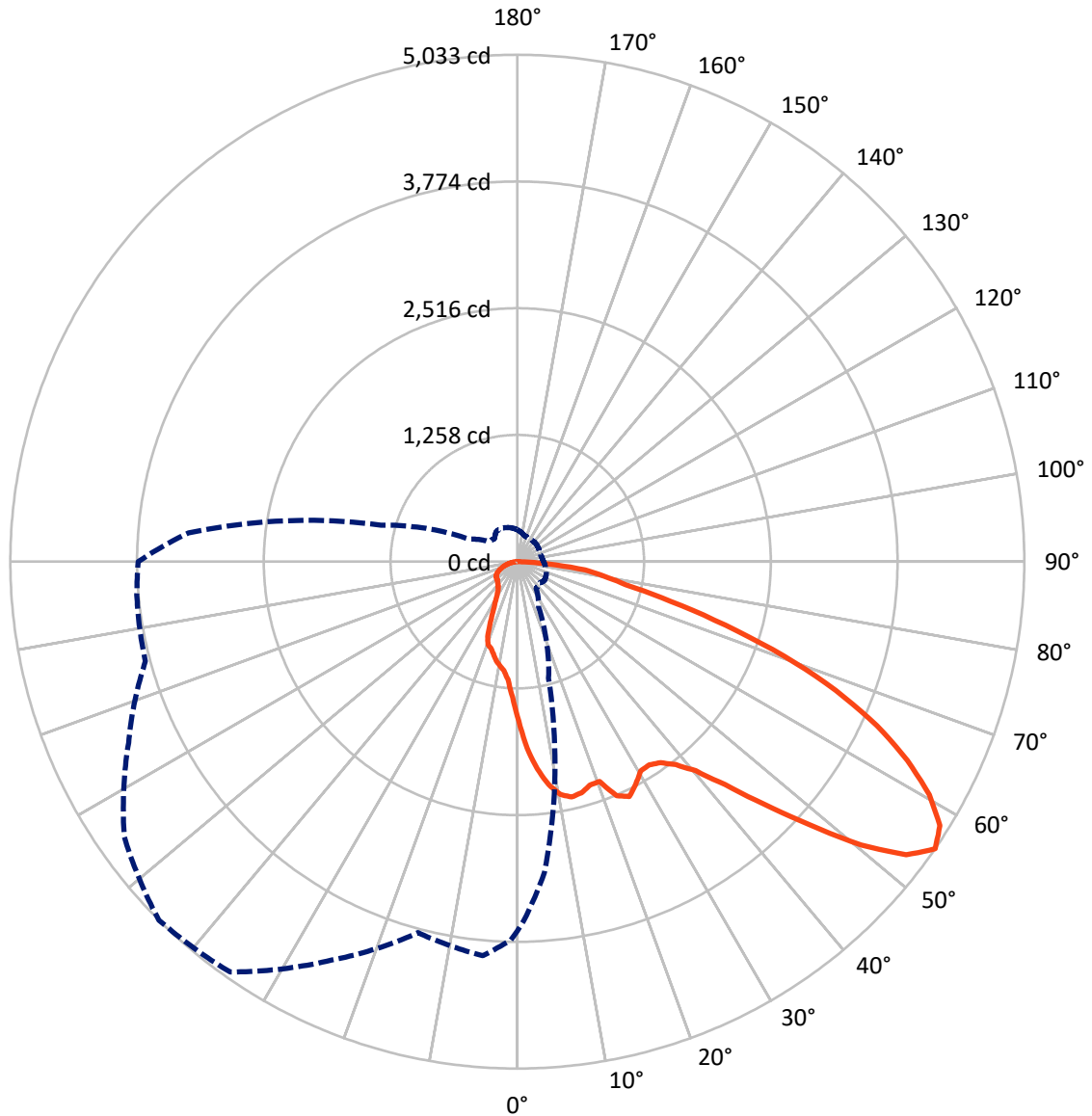
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1377.9	0.0	1377.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4921.1	0.0	4921.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	6299.0	0.0	6299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	2.1
10°-20°	355.4	5.6
20°-30°	614.0	9.7
30°-40°	713.6	11.3
40°-50°	995.6	15.8
50°-60°	1351.0	21.4
60°-70°	1285.3	20.4
70°-80°	694.4	11.0
80°-90°	155.6	2.5
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°	6299.0	100.0
0°-180°	6299.0	100.0

Coefficient of Utilization



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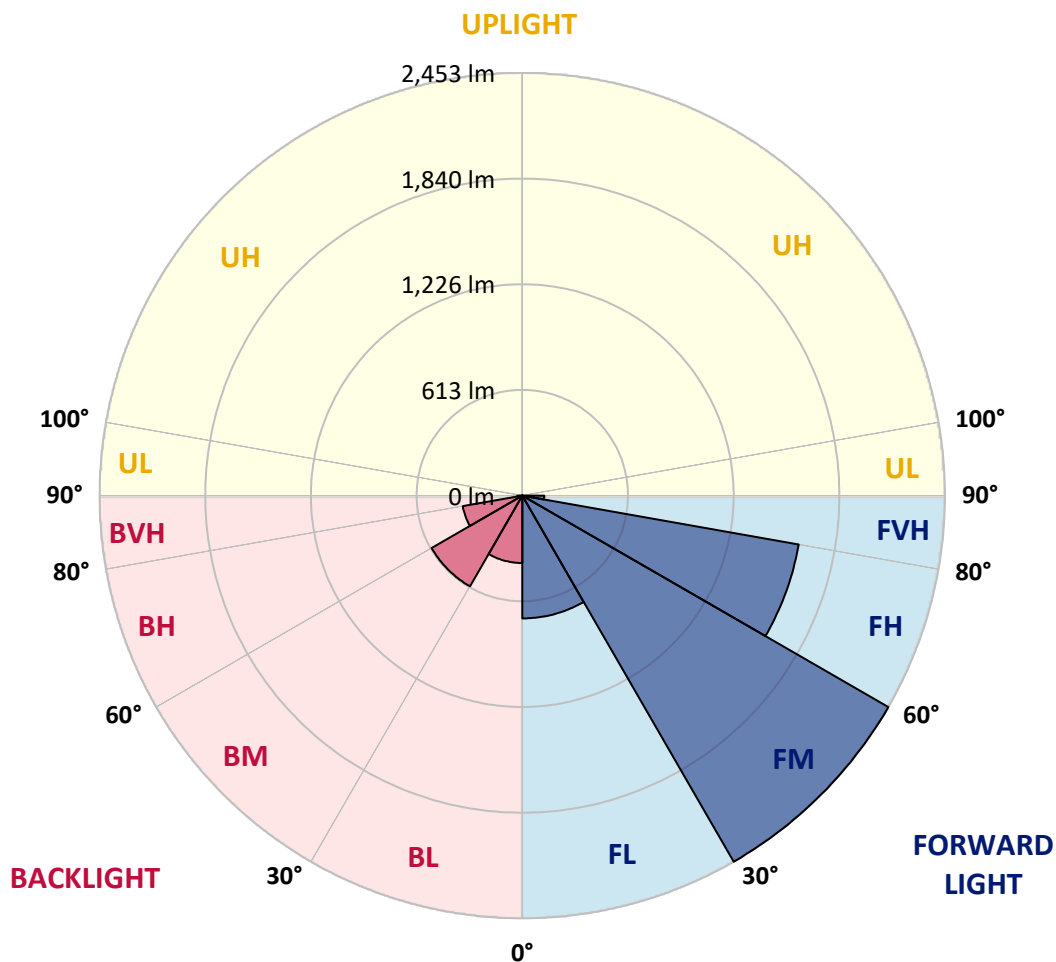
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.4	11.3			
FM	(30°-60°)	2452.7	38.9			
FH	(60°-80°)	1628.8	25.9			G1/1800
FVH	(80°-90°)	127.2	2.0			G2/225
BL	(0°-30°)	391.0	6.2	B1/500		
BM	(30°-60°)	607.6	9.6	B1/1000		
BH	(60°-80°)	350.8	5.6	B1/500		G1/500
BVH	(80°-90°)	28.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1756.2	1749.5	1730.8	1681.8	1632.3	1582.0	1543.4	1495.2	1444.9	1417.9	1383.4
5°	1780.3	1772.8	1728.7	1618.2	1518.1	1412.9	1329.0	1255.4	1225.5	1181.4	1146.1
7.5°	1723.8	1720.4	1654.4	1495.6	1358.5	1220.9	1125.8	1066.8	1013.1	993.2	997.4
10°	1672.2	1658.9	1576.2	1368.9	1208.9	1097.1	1028.9	971.2	933.4	923.4	925.5
12.5°	1629.4	1611.6	1513.9	1283.7	1143.6	1054.3	967.4	907.2	872.7	882.2	914.7
15°	1620.7	1596.6	1487.7	1254.6	1107.9	992.8	897.6	828.2	802.5	823.2	875.2
17.5°	1677.2	1646.9	1532.6	1264.1	1073.8	930.0	813.3	733.9	712.3	745.5	813.3
20°	1858.8	1813.9	1672.6	1319.4	1070.5	898.9	764.2	684.4	693.6	756.7	827.4
22.5°	2194.6	2127.3	1917.8	1400.0	1087.9	891.0	754.2	712.7	763.0	816.6	863.1
25°	2261.1	2208.3	1961.9	1418.3	1084.2	885.6	782.5	803.3	859.4	886.0	869.8
27.5°	2298.5	2238.2	1959.0	1327.7	969.5	803.3	748.0	782.5	796.6	770.9	726.8
30°	2385.7	2323.0	2008.4	1232.6	798.3	595.9	522.4	508.2	517.8	522.8	507.0
32.5°	2505.8	2443.9	2101.5	1170.2	690.3	492.9	420.6	400.6	396.0	390.6	384.4
35°	2661.3	2566.1	2192.9	1130.3	645.8	455.9	389.4	374.0	367.8	360.3	353.6
37.5°	2819.2	2719.4	2308.5	1088.4	616.3	430.1	368.6	361.5	350.7	342.8	333.3
40°	2987.1	2875.3	2413.6	1051.8	587.6	413.5	353.6	352.8	338.7	329.5	318.3
42.5°	3132.5	3017.4	2507.5	1029.4	565.6	396.0	344.5	347.0	332.5	318.7	304.2
45°	3248.0	3135.0	2594.4	1029.4	547.7	378.6	342.8	341.2	326.6	309.6	293.0
47.5°	3349.4	3232.7	2679.1	1055.5	536.5	364.0	333.7	336.6	321.6	300.0	283.8
50°	3428.0	3324.9	2793.4	1096.3	525.3	352.4	322.1	337.9	317.5	295.0	276.3
52.5°	3528.1	3435.9	2931.0	1151.9	515.7	339.5	311.7	337.9	317.1	295.5	275.1
55°	3666.9	3569.7	3096.8	1198.1	500.3	327.5	302.5	328.3	315.8	293.4	271.8
57.5°	3764.2	3691.4	3214.0	1228.8	478.3	312.1	294.2	319.2	310.4	285.5	261.8
58°	3768.7	3697.7	3231.0	1235.9	472.9	309.2	292.1	315.0	307.9	282.2	258.5
60°	3716.4	3655.3	3234.3	1225.9	442.2	294.6	281.3	298.0	294.6	262.6	240.6
62.5°	3526.1	3460.8	3100.1	1144.9	401.4	276.8	264.7	275.1	267.6	235.2	214.8
65°	3255.5	3135.4	2824.2	1017.7	372.3	257.6	242.3	243.1	235.2	211.9	194.1
67.5°	2895.2	2761.0	2391.2	857.7	350.3	236.5	215.7	213.6	204.0	189.1	174.5
70°	2451.8	2360.0	1943.2	697.7	325.8	213.2	185.8	184.5	178.7	167.5	154.6
72.5°	1987.2	1870.5	1569.2	558.5	295.9	190.7	157.9	160.4	152.9	145.0	133.4
75°	1466.5	1390.1	1213.0	448.0	255.6	166.2	131.7	132.6	129.2	120.9	111.8
77.5°	965.8	942.9	867.7	294.2	196.6	132.1	107.6	108.5	106.0	98.5	88.9
80°	649.9	634.6	588.0	189.5	131.3	95.6	83.1	83.9	83.5	75.6	62.8
82.5°	400.6	394.0	379.0	128.0	91.0	68.6	54.9	57.3	61.9	53.2	42.8
85°	189.1	189.5	229.0	69.8	53.6	44.0	29.9	32.0	32.0	32.0	24.1
87.5°	24.5	25.8	31.6	29.5	19.5	16.6	10.8	9.1	7.9	10.4	7.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1371.4	1363.0	1345.2	1341.0	1338.5	1345.6	1326.9	1331.9	1323.6	1346.8	1343.1
5°	1148.2	1149.0	1163.6	1173.1	1176.5	1173.1	1160.7	1139.1	1122.4	1115.8	1117.4
7.5°	989.5	1004.0	1028.9	1056.8	1082.1	1089.6	1082.5	1041.4	996.5	968.3	959.1
10°	936.7	956.2	984.9	1006.9	1029.4	1047.2	1051.0	1019.0	965.8	898.9	872.7
12.5°	939.6	966.2	993.6	1000.7	998.6	1005.7	1002.3	996.9	962.0	876.8	833.2
15°	912.2	943.7	962.9	959.1	952.5	946.2	937.5	923.8	911.3	851.5	803.3
17.5°	849.0	881.4	897.2	898.4	898.4	896.8	875.6	870.6	868.9	839.9	810.3
20°	860.6	878.5	871.4	859.8	863.1	874.3	861.9	859.4	868.9	881.8	876.4
22.5°	867.3	861.0	807.9	756.3	744.7	779.6	786.7	814.5	853.2	899.7	930.0
25°	826.1	775.9	680.7	622.5	589.7	622.1	664.5	716.0	773.8	833.6	868.9
27.5°	690.7	652.4	584.3	531.9	503.2	508.2	544.4	591.3	645.0	685.3	711.0
30°	520.3	503.2	467.9	450.1	432.6	428.4	443.8	461.7	485.4	490.4	497.0
32.5°	383.1	380.7	382.7	376.9	373.6	373.2	368.6	372.8	375.3	378.2	372.3
35°	346.6	343.3	337.4	335.8	333.7	334.5	332.5	330.4	332.0	334.5	336.2
37.5°	327.9	322.9	314.6	311.7	311.7	312.9	309.6	308.8	311.7	319.6	323.7
40°	313.3	307.5	298.0	294.2	296.7	300.0	295.5	293.8	300.9	309.2	315.8
42.5°	299.6	295.0	285.9	281.8	283.8	290.1	283.4	282.2	291.3	300.5	308.3
45°	288.0	283.4	275.1	273.0	273.9	279.7	275.1	275.1	283.8	293.8	300.9
47.5°	278.8	273.0	267.6	266.0	266.8	270.1	269.3	269.3	277.6	288.0	295.0
50°	269.7	264.7	257.6	258.5	260.6	265.1	264.7	266.0	274.3	287.2	294.6
52.5°	265.5	258.1	250.2	251.0	257.2	262.6	261.0	262.2	271.8	295.9	306.7
55°	261.0	251.0	241.9	243.1	250.2	258.1	256.0	257.6	268.9	301.7	316.7
57.5°	252.2	240.6	230.6	231.5	241.9	250.2	246.8	248.9	262.2	295.5	311.3
58°	248.5	238.5	229.0	229.4	239.4	248.5	244.8	246.4	260.1	293.8	308.8
60°	232.7	226.9	218.6	219.0	228.6	236.5	234.4	236.0	249.3	281.8	293.0
62.5°	211.1	207.8	205.7	205.7	211.5	219.0	221.1	223.2	235.2	254.7	264.7
65°	187.8	187.8	188.3	188.3	192.0	201.5	202.8	208.2	219.4	229.0	236.5
67.5°	172.0	171.2	172.0	170.0	171.6	177.4	183.7	188.7	200.3	207.0	209.4
70°	151.7	151.3	151.7	148.8	150.8	155.8	160.0	168.3	180.4	185.3	186.6
72.5°	131.7	131.7	132.6	130.5	130.5	135.9	138.8	147.9	159.2	162.1	162.5
75°	111.0	112.2	112.2	109.3	110.1	113.4	117.2	124.7	135.1	137.1	137.1
77.5°	88.1	92.7	92.7	89.8	91.0	91.4	96.4	100.2	108.0	108.9	105.6
80°	64.0	68.6	72.3	69.8	71.9	69.4	72.3	74.8	82.7	79.0	73.6
82.5°	45.7	49.0	51.9	52.4	50.3	45.7	49.5	49.9	53.6	48.6	45.7
85°	25.3	28.3	32.0	30.3	27.0	24.1	25.3	26.2	25.8	24.5	22.9
87.5°	6.6	7.1	7.9	5.8	5.4	4.6	6.2	6.2	7.1	7.5	7.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1346.0	1364.3	1403.8	1433.7	1470.3	1514.7	1567.1	1619.9	1676.8	1694.7	1719.6
5°	1113.7	1159.4	1178.5	1233.0	1287.0	1368.0	1454.5	1554.6	1664.3	1717.1	1767.8
7.5°	951.6	976.2	996.1	1036.0	1100.8	1199.3	1307.8	1432.9	1588.3	1665.2	1739.5
10°	864.4	866.9	891.4	940.8	997.4	1084.2	1186.8	1326.9	1500.2	1593.7	1681.0
12.5°	806.6	795.8	822.4	873.9	937.9	1018.1	1112.5	1245.9	1436.6	1532.6	1638.2
15°	755.9	738.9	758.8	811.6	874.8	969.1	1070.5	1211.8	1411.7	1523.5	1640.6
17.5°	757.2	710.2	717.3	761.7	824.5	920.5	1043.5	1210.5	1449.5	1578.3	1717.1
20°	850.7	775.4	743.4	751.8	812.4	917.1	1055.9	1268.7	1573.7	1761.6	1909.9
22.5°	942.5	897.2	845.7	828.6	861.9	971.6	1135.3	1406.3	1843.9	2126.9	2394.9
25°	910.5	949.1	936.3	912.2	919.6	1010.7	1189.3	1519.3	2053.7	2372.5	2624.3
27.5°	728.5	798.7	812.8	812.4	815.3	890.1	1069.7	1443.3	2079.9	2419.4	2660.0
30°	512.0	518.2	525.7	540.2	553.5	620.4	836.9	1267.1	2068.3	2440.6	2681.6
32.5°	369.4	377.7	388.1	408.1	439.7	524.9	732.2	1211.0	2129.8	2528.3	2744.8
35°	337.9	347.4	357.4	380.2	410.2	489.1	690.7	1187.7	2230.7	2670.4	2858.2
37.5°	327.9	338.7	347.4	364.0	388.1	463.4	652.9	1171.9	2334.2	2820.8	3010.3
40°	320.8	333.3	340.3	353.6	370.3	439.7	619.2	1159.4	2434.4	2958.4	3132.5
42.5°	314.6	327.5	336.6	346.2	359.9	418.5	589.3	1147.0	2521.2	3091.8	3254.3
45°	307.1	323.3	334.9	342.4	354.5	400.6	566.4	1137.0	2620.1	3210.2	3377.3
47.5°	300.9	318.7	333.3	342.0	346.6	388.1	548.1	1150.7	2739.0	3334.1	3491.6
50°	301.3	318.3	336.6	350.3	338.3	377.7	536.9	1205.1	2893.6	3481.2	3581.7
52.5°	314.6	335.4	349.9	353.2	326.6	365.3	531.1	1300.3	3076.4	3611.2	3672.7
55°	329.5	351.2	366.9	364.9	320.4	349.5	529.8	1401.7	3276.7	3762.9	3791.2
57.5°	324.1	355.7	379.8	369.0	320.8	334.1	524.4	1483.6	3444.2	3876.4	3908.4
58°	322.5	354.1	381.5	368.2	319.6	329.5	523.2	1490.6	3467.5	3884.3	3925.0
60°	306.3	339.5	380.2	362.0	312.5	317.1	509.5	1513.5	3461.2	3843.5	3935.0
62.5°	276.8	304.2	351.6	331.6	290.9	300.5	478.7	1485.2	3292.5	3647.4	3789.1
65°	243.5	263.9	295.5	291.7	260.1	283.4	436.8	1373.4	2954.7	3329.1	3478.3
67.5°	218.6	235.2	255.2	249.8	234.0	260.6	391.5	1184.4	2575.7	2946.8	3134.6
70°	193.2	206.1	216.1	212.4	207.4	238.1	351.2	961.2	2212.5	2583.6	2765.6
72.5°	167.5	179.5	187.8	182.4	179.5	214.4	318.3	745.9	1747.4	2131.4	2365.4
75°	140.0	152.1	157.9	151.7	150.0	189.1	269.7	557.3	1311.1	1643.1	1845.1
77.5°	108.5	121.3	128.8	126.7	127.6	155.4	217.8	381.5	937.5	1119.9	1332.7
80°	76.0	90.2	95.2	93.1	98.9	118.4	153.8	242.3	646.6	726.8	876.8
82.5°	47.0	60.3	61.1	63.2	67.3	87.7	115.9	147.5	406.0	419.7	528.6
85°	23.7	28.7	30.8	34.1	37.8	53.6	66.1	91.4	261.4	197.8	295.5
87.5°	7.9	8.3	10.0	12.5	15.4	22.0	28.3	37.4	64.8	35.7	91.4
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°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1769.9	1805.2	1831.0	1854.7	1831.8	1829.7	1807.3	1771.1	1756.2	1756.2
5°	1874.2	1956.9	2023.8	2066.6	2048.3	2004.3	1931.5	1838.9	1789.0	1780.3
7.5°	1902.9	2066.2	2190.4	2234.5	2203.7	2106.5	1967.3	1811.0	1739.5	1723.8
10°	1885.4	2097.8	2280.2	2350.0	2307.2	2160.1	1970.2	1778.6	1690.5	1672.2
12.5°	1867.1	2101.9	2296.8	2397.8	2370.0	2203.3	1991.4	1757.4	1655.6	1629.4
15°	1880.4	2103.6	2276.5	2380.8	2398.6	2255.3	2026.3	1772.8	1648.5	1620.7
17.5°	1964.4	2135.2	2247.4	2331.7	2394.5	2325.9	2125.6	1846.3	1711.7	1677.2
20°	2139.7	2210.8	2264.0	2329.2	2430.2	2470.1	2328.8	2048.3	1889.2	1858.8
22.5°	2647.6	2634.7	2525.8	2524.5	2670.8	2830.8	2821.3	2458.9	2219.5	2194.6
25°	2837.9	2778.0	2620.5	2582.3	2646.7	2893.6	2857.8	2542.8	2321.8	2261.1
27.5°	2763.5	2615.1	2511.7	2502.9	2481.7	2714.9	2800.9	2576.9	2357.5	2298.5
30°	2758.9	2540.8	2392.8	2410.3	2430.6	2653.4	2832.5	2683.7	2448.9	2385.7
32.5°	2770.1	2551.1	2401.5	2404.9	2465.5	2662.5	2867.4	2800.1	2569.0	2505.8
35°	2815.4	2610.2	2457.2	2449.3	2544.1	2722.4	2926.8	2982.9	2733.2	2661.3
37.5°	2888.6	2727.8	2559.0	2557.0	2694.5	2830.4	3000.8	3167.4	2896.5	2819.2
40°	2996.2	2865.3	2740.2	2729.0	2899.0	3006.2	3096.8	3364.0	3086.4	2987.1
42.5°	3126.3	3030.3	2979.2	3023.6	3187.0	3203.6	3246.4	3545.6	3248.0	3132.5
45°	3246.8	3242.2	3313.3	3431.3	3526.5	3426.7	3402.6	3667.3	3373.5	3248.0
47.5°	3390.2	3514.0	3728.4	3901.3	4001.0	3686.5	3536.0	3746.7	3465.0	3349.4
50°	3535.6	3839.4	4181.8	4422.8	4444.0	3968.6	3627.9	3821.5	3548.1	3428.0
52.5°	3688.5	4099.1	4555.0	4835.1	4793.9	4214.2	3716.8	3872.2	3633.7	3528.1
55°	3821.5	4258.3	4763.6	5032.5	4972.2	4363.8	3812.8	3927.1	3755.9	3666.9
57.5°	3895.9	4271.6	4711.7	4946.5	4881.2	4334.7	3856.8	3967.8	3834.0	3764.2
58°	3906.7	4253.7	4665.5	4896.6	4830.1	4310.2	3856.4	3966.1	3839.0	3768.7
60°	3897.2	4137.8	4493.9	4699.6	4629.8	4156.5	3840.6	3935.0	3775.8	3716.4
62.5°	3808.6	3936.6	4197.6	4347.2	4327.3	3916.3	3775.8	3817.4	3583.4	3526.1
65°	3692.3	3662.4	3818.2	3924.2	3939.1	3736.3	3711.4	3563.0	3336.6	3255.5
67.5°	3551.0	3351.5	3351.1	3411.4	3436.3	3459.6	3577.2	3286.7	2980.8	2895.2
70°	3311.2	2872.4	2740.2	2811.3	2790.5	2987.1	3337.4	2898.6	2552.0	2451.8
72.5°	2871.5	2279.4	2067.8	2159.3	2106.9	2342.5	2920.2	2385.3	2110.2	1987.2
75°	2327.6	1705.1	1486.9	1570.8	1538.4	1776.9	2429.8	1732.5	1513.5	1466.5
77.5°	1807.3	1235.5	1108.7	1097.1	1121.2	1322.3	1782.4	1169.8	997.8	965.8
80°	1161.1	884.3	891.8	876.8	889.3	833.6	1082.1	746.4	675.7	649.9
82.5°	764.2	616.3	734.7	678.2	644.1	560.6	709.8	488.7	414.7	400.6
85°	520.7	453.8	413.1	315.8	371.9	431.8	532.3	263.1	208.6	189.1
87.5°	235.2	157.9	115.9	71.5	113.0	130.5	258.5	30.8	23.7	24.5
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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