

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: P324445

Luminaire Tested: **GAN-SA1C-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324445
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-SA1C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 5000 lumens
Efficiency: N/A
Efficacy: 84.7 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

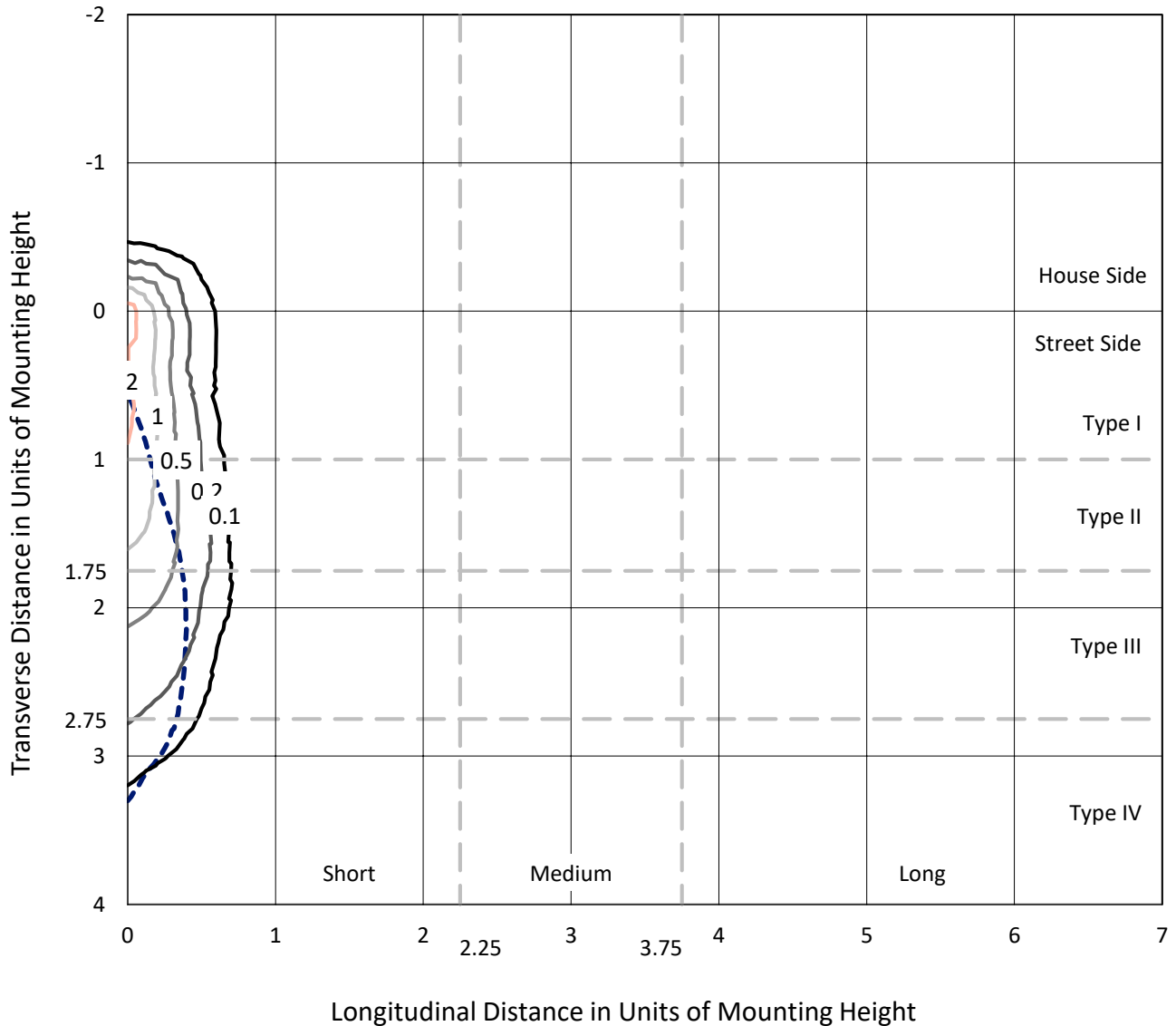
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

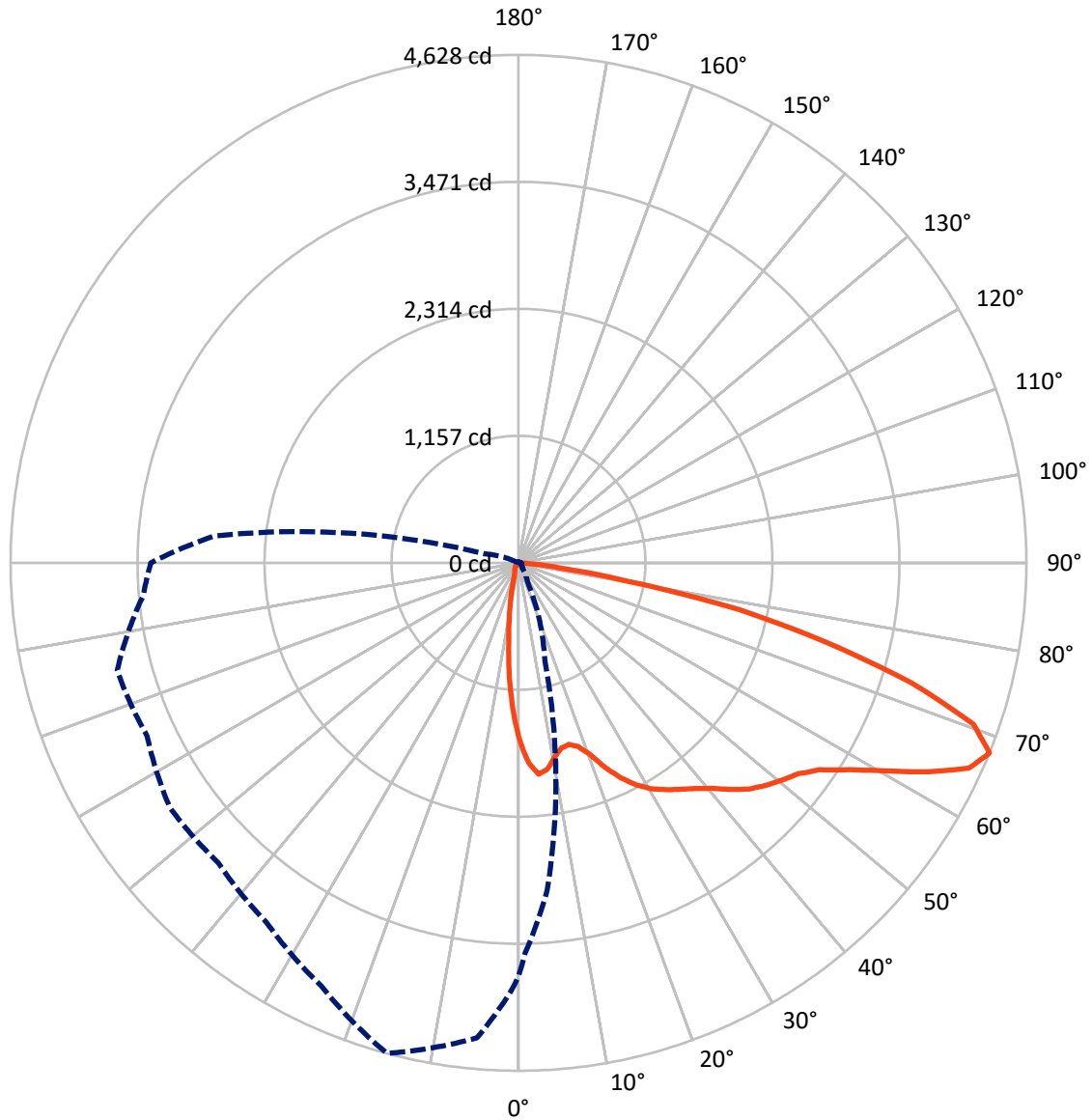
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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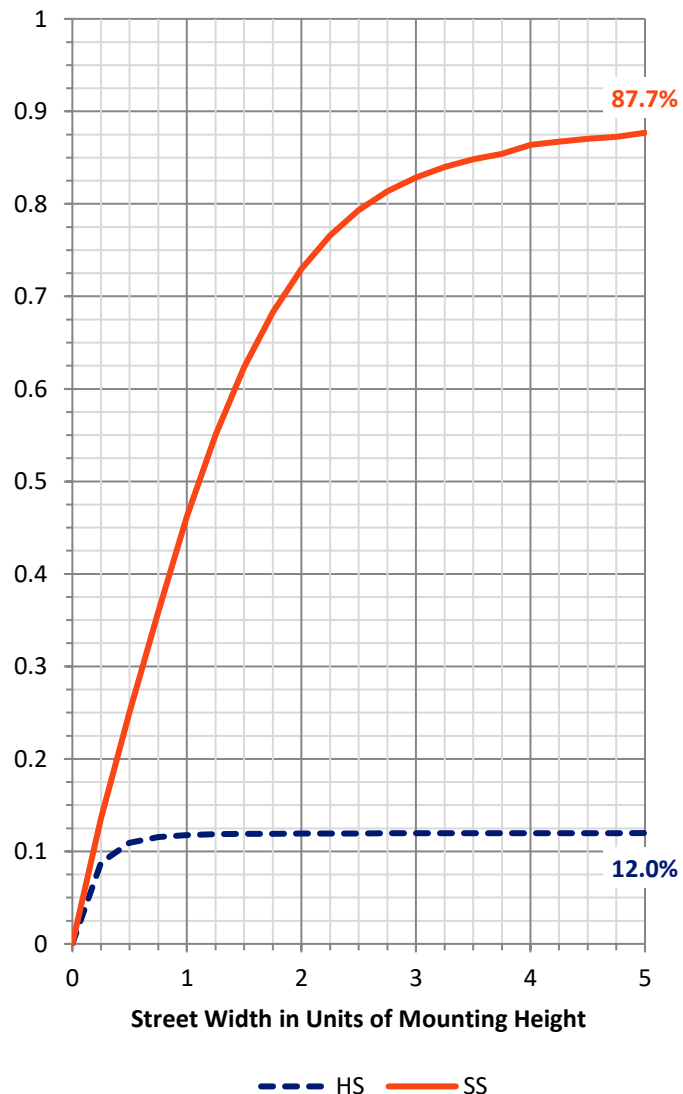
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.2	0.0	605.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4394.8	0.0	4394.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	5000.0	0.0	5000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	2.5
10°-20°	248.8	5.0
20°-30°	353.3	7.1
30°-40°	521.9	10.4
40°-50°	752.7	15.1
50°-60°	1056.6	21.1
60°-70°	1231.7	24.6
70°-80°	629.6	12.6
80°-90°	80.4	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°	5000.0	100.0
0°-180°	5000.0	100.0

Coefficient of Utilization



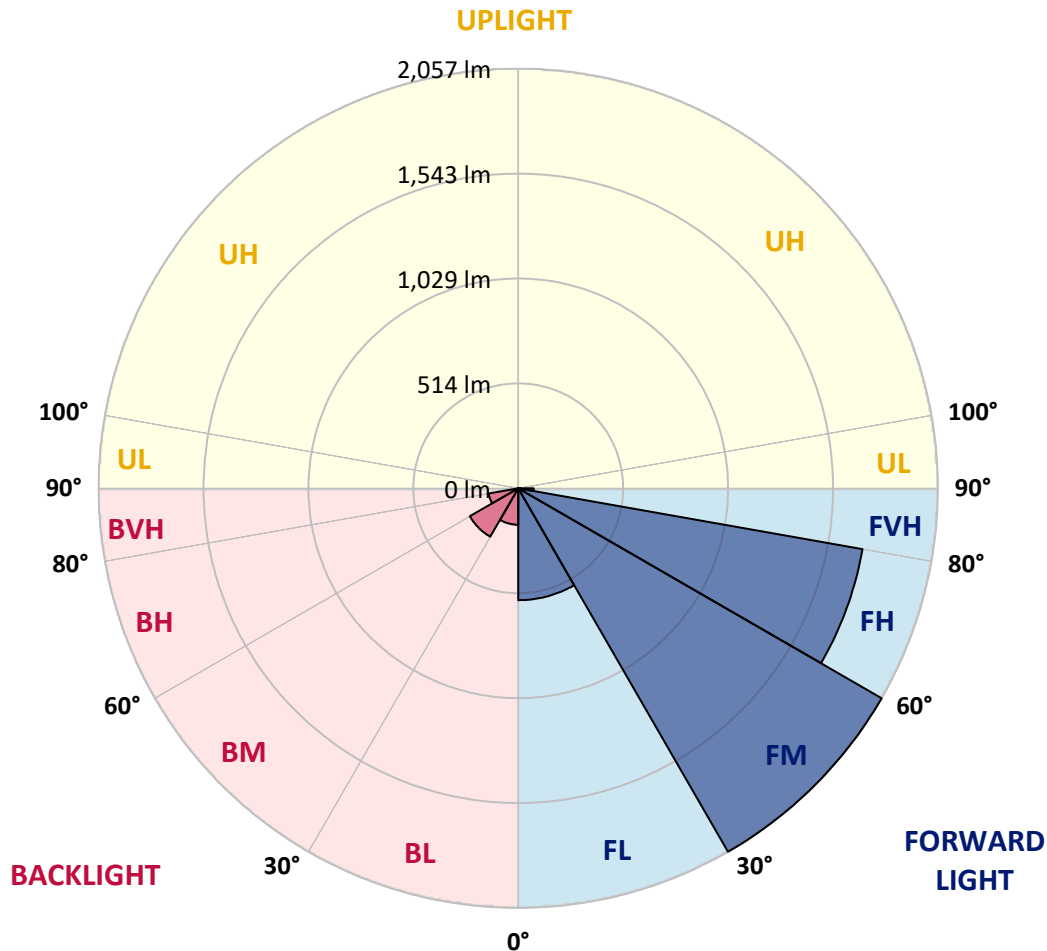
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.4	11.0			
FM (30°-60°)	2057.1	41.1			
FH (60°-80°)	1713.8	34.3			G1/1800
FVH (80°-90°)	75.5	1.5			G1/100
BL (0°-30°)	178.7	3.6	B1/500		
BM (30°-60°)	274.0	5.5	B1/1000		
BH (60°-80°)	147.5	2.9	B1/500		G1/500
BVH (80°-90°)	4.9	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°	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7
2.5°	1783.4	1769.7	1754.5	1705.0	1659.1	1606.5	1563.6	1533.8	1496.3	1447.8	1435.5
5°	1770.6	1755.9	1708.3	1598.2	1501.8	1408.0	1317.5	1264.4	1198.6	1131.8	1115.2
7.5°	1642.0	1626.6	1557.9	1407.0	1277.2	1141.7	1024.2	951.5	877.1	816.0	783.6
10°	1508.2	1491.4	1414.1	1231.0	1071.1	948.7	862.5	793.1	722.7	657.3	605.2
12.5°	1416.0	1394.0	1310.1	1102.6	963.4	880.2	799.7	716.5	621.3	551.2	493.9
15°	1377.4	1352.3	1263.7	1053.1	925.2	827.6	722.7	620.6	509.0	428.7	376.2
17.5°	1407.3	1374.6	1279.6	1049.8	877.4	744.5	611.8	492.0	370.9	289.7	252.3
20°	1508.6	1465.8	1345.2	1048.9	819.3	645.7	477.5	342.0	244.5	196.6	176.9
22.5°	1668.3	1611.7	1439.5	1056.5	759.4	542.0	344.9	232.4	183.6	158.7	147.1
25°	1861.1	1795.5	1575.2	1083.2	706.8	441.1	250.6	183.6	154.9	136.7	127.0
27.5°	2044.5	1991.2	1746.7	1121.8	666.1	359.6	203.5	155.6	132.4	120.3	112.5
30°	2227.6	2160.5	1922.7	1167.8	617.1	304.4	178.8	141.9	118.7	105.9	100.9
32.5°	2360.7	2305.0	2060.6	1200.9	564.7	268.4	159.9	129.8	110.9	97.8	90.5
35°	2517.3	2454.2	2178.8	1208.3	531.1	245.6	143.8	116.8	96.2	84.6	76.7
37.5°	2686.4	2608.0	2315.2	1192.2	504.8	234.5	131.7	110.9	89.8	77.9	69.6
40°	2873.5	2784.9	2446.2	1169.0	479.0	230.7	122.5	106.4	84.8	72.7	64.2
42.5°	3070.6	2966.1	2559.7	1144.6	462.6	217.7	121.5	101.9	81.0	68.0	59.5
45°	3236.2	3130.3	2676.2	1136.5	451.0	203.5	125.5	98.8	78.4	64.2	55.9
47.5°	3368.1	3267.9	2795.6	1154.5	444.4	190.4	114.4	102.8	77.0	60.9	52.8
50°	3525.6	3412.2	2963.8	1208.3	434.7	177.4	103.5	117.7	77.0	58.7	50.2
52.5°	3723.2	3610.9	3151.4	1291.7	415.2	159.4	93.1	118.0	77.7	55.9	46.9
55°	3971.7	3890.2	3419.3	1383.1	384.2	132.9	80.5	101.4	74.9	50.7	43.8
57.5°	4209.9	4143.4	3663.5	1445.6	342.8	103.8	70.1	81.7	68.5	44.5	39.1
59°	4275.1	4202.4	3753.0	1448.5	311.7	90.5	64.9	67.5	67.0	41.7	36.2
60°	4275.1	4197.9	3778.8	1433.3	289.2	83.1	61.6	60.2	69.9	39.8	34.6
62.5°	4197.6	4089.1	3695.0	1330.8	235.9	70.8	53.8	49.7	62.8	35.8	30.6
65°	4036.6	3878.6	3409.3	1145.3	210.3	64.9	46.4	40.7	43.6	31.5	26.8
67.5°	3767.9	3553.8	2997.4	925.2	200.2	63.2	40.0	34.6	32.9	27.0	23.5
70°	3294.9	3057.3	2497.4	727.4	191.4	62.5	33.6	29.1	26.5	22.7	19.9
72.5°	2398.1	2150.3	1773.0	568.7	186.2	64.0	27.0	24.4	21.8	17.8	15.4
75°	1371.7	1209.5	996.5	375.7	158.7	61.1	20.8	20.4	15.6	12.8	10.7
77.5°	708.7	687.2	597.2	144.3	76.0	26.8	13.7	11.8	9.2	7.8	6.4
80°	305.8	302.5	261.7	41.7	20.1	14.9	7.8	5.0	4.3	3.3	2.6
82.5°	105.6	105.6	93.1	14.0	9.0	7.3	0.9	0.0	0.0	0.0	0.0
85°	21.3	23.9	16.8	0.0	3.1	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°	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7
2.5°	1420.5	1391.9	1390.0	1372.0	1349.5	1339.3	1333.4	1343.8	1356.6	1358.0	1377.2
5°	1102.6	1072.6	1085.1	1053.1	1059.5	1053.1	1042.7	1044.6	1050.3	1032.5	1054.6
7.5°	774.3	751.6	766.0	757.5	768.9	773.4	767.0	757.5	729.6	726.3	745.4
10°	583.7	557.8	542.4	526.3	529.9	537.2	534.9	528.0	510.2	511.2	529.6
12.5°	469.0	440.1	409.6	370.0	360.3	365.7	360.3	356.3	339.2	340.6	357.0
15°	355.8	332.1	300.1	268.4	251.1	252.7	237.6	226.9	216.3	203.5	213.4
17.5°	240.2	225.7	216.3	206.8	186.2	181.4	162.3	141.7	133.6	127.7	131.9
20°	170.1	162.3	158.5	158.0	146.2	140.2	121.5	108.7	104.7	103.5	106.1
22.5°	142.1	136.4	131.0	127.9	122.0	115.1	100.9	94.5	91.7	90.2	92.1
25°	123.6	119.4	113.7	108.5	106.1	98.8	88.6	83.9	82.0	80.5	81.5
27.5°	109.9	106.1	99.5	96.2	94.3	87.9	79.1	75.3	73.7	73.2	73.0
30°	99.0	95.5	89.3	85.5	82.2	76.5	71.3	67.5	65.9	65.4	64.9
32.5°	88.1	85.3	81.2	77.5	73.9	68.7	64.2	61.1	58.5	58.0	57.8
35°	74.4	71.5	69.4	69.2	65.9	60.9	57.6	53.5	51.4	50.7	50.9
37.5°	66.1	62.3	57.6	59.2	58.3	54.7	50.2	46.2	44.1	43.6	43.6
40°	60.9	56.8	51.4	48.6	51.4	50.7	43.6	39.6	37.4	37.2	36.7
42.5°	55.9	51.9	45.7	41.0	42.4	44.5	37.7	33.9	31.7	31.3	30.6
45°	52.3	48.1	41.2	35.8	32.9	37.4	32.2	27.5	26.3	25.3	24.9
47.5°	49.0	45.0	37.2	31.0	26.3	27.0	25.8	22.5	21.1	20.1	19.9
50°	46.2	41.9	33.6	26.5	21.8	19.9	20.8	17.8	16.6	15.6	15.2
52.5°	42.9	38.8	29.8	23.0	18.2	15.6	15.9	14.0	12.8	12.1	11.8
55°	40.3	36.2	26.8	20.1	16.1	12.8	11.4	10.9	10.2	9.7	9.5
57.5°	36.7	32.9	23.7	17.1	13.7	10.4	8.8	8.8	8.5	8.1	7.8
59°	34.6	31.3	21.8	15.4	12.6	9.0	7.8	8.1	7.8	7.3	7.1
60°	32.9	29.8	20.4	14.2	11.8	8.3	7.1	7.6	7.3	6.9	6.6
62.5°	29.1	27.0	17.5	11.8	10.4	6.6	5.9	6.4	6.4	6.2	5.9
65°	25.6	23.2	14.9	9.9	9.7	5.7	4.7	5.7	5.9	5.4	5.0
67.5°	22.3	19.9	13.0	8.1	9.0	4.5	3.6	4.7	6.4	5.0	4.5
70°	18.9	16.6	10.2	6.4	9.5	3.1	2.8	4.3	7.6	5.4	4.3
72.5°	14.7	12.8	7.1	4.7	10.2	2.1	2.1	3.6	8.5	5.9	4.0
75°	10.2	8.3	4.3	2.8	8.3	1.4	1.4	3.3	8.1	5.4	3.8
77.5°	5.9	4.5	1.4	0.2	4.3	0.0	0.2	2.4	5.7	3.3	1.7
80°	2.1	0.9	0.0	0.0	2.6	0.0	0.0	0.0	0.5	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°	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7
2.5°	1382.2	1414.1	1442.8	1486.1	1537.5	1596.8	1647.7	1702.4	1753.8	1775.1	1789.8
5°	1059.1	1098.6	1144.8	1208.5	1293.3	1397.8	1495.6	1606.2	1725.1	1784.6	1840.5
7.5°	748.8	789.0	846.3	914.1	1016.7	1141.0	1268.9	1421.7	1582.8	1676.8	1769.4
10°	538.4	587.9	641.5	734.1	838.3	956.3	1088.0	1258.5	1438.1	1542.3	1653.8
12.5°	366.4	422.8	503.8	607.6	730.0	845.6	960.0	1122.8	1331.2	1434.5	1554.1
15°	219.8	251.1	336.8	456.9	607.1	751.1	876.4	1039.6	1261.8	1388.3	1512.7
17.5°	135.5	149.9	196.6	295.1	452.9	635.1	806.8	1011.4	1271.8	1425.7	1558.9
20°	108.0	113.7	128.6	174.3	300.1	507.1	728.4	1005.8	1353.0	1542.5	1685.4
22.5°	93.8	99.2	109.2	126.7	188.8	379.7	654.0	1011.0	1469.6	1717.6	1884.3
25°	82.7	87.4	96.9	111.3	138.3	267.4	574.4	1034.2	1621.4	1934.8	2112.0
27.5°	73.9	77.9	86.7	100.0	118.7	186.7	484.2	1062.4	1801.4	2157.0	2331.8
30°	65.9	69.4	77.2	89.5	103.0	143.5	385.2	1081.6	1981.7	2331.8	2488.8
32.5°	59.0	61.6	68.7	79.1	89.5	114.4	292.8	1078.5	2115.5	2477.2	2601.8
35°	51.9	54.5	60.6	69.6	77.9	94.5	230.2	1020.9	2232.1	2628.1	2731.1
37.5°	44.1	47.4	53.3	61.4	67.0	83.1	186.2	951.5	2350.3	2800.6	2875.4
40°	37.4	40.7	46.0	54.7	58.3	78.9	143.1	867.0	2483.1	2993.4	3033.6
42.5°	31.0	34.1	39.6	47.1	55.0	68.0	105.9	770.3	2610.8	3158.2	3177.9
45°	25.1	28.2	33.9	41.5	58.7	56.4	82.0	666.8	2713.9	3295.4	3301.8
47.5°	19.9	22.7	28.7	39.1	54.7	45.0	58.5	585.6	2800.3	3402.4	3385.6
50°	15.4	17.8	23.9	44.8	47.8	37.2	44.3	558.5	2877.8	3468.8	3425.2
52.5°	12.1	14.2	19.7	41.9	37.2	30.8	37.2	583.9	2983.9	3523.7	3447.5
55°	9.7	11.8	15.4	23.9	25.3	26.1	31.7	607.6	3167.0	3652.6	3578.9
57.5°	8.1	10.2	12.6	16.8	19.2	22.0	28.2	610.2	3382.8	3866.7	3797.1
59°	7.3	9.2	11.4	14.9	16.8	20.1	26.5	596.0	3458.8	3944.7	3909.8
60°	6.9	8.8	10.7	13.7	15.6	18.9	25.6	582.5	3462.1	3941.8	3957.9
62.5°	5.9	7.8	9.5	11.6	13.3	16.1	23.0	532.5	3321.9	3812.7	3929.0
65°	5.2	6.9	8.5	9.9	11.4	14.4	20.8	441.3	3082.4	3604.5	3731.2
67.5°	4.7	5.9	7.8	8.8	10.2	12.8	18.5	314.6	2783.3	3349.9	3432.1
70°	4.3	5.7	7.1	8.1	9.2	11.1	15.9	180.7	2350.3	2977.0	3035.5
72.5°	4.0	5.4	6.4	7.6	8.3	9.9	14.4	85.0	1720.9	2384.8	2537.6
75°	3.6	5.0	5.9	7.1	7.8	9.0	12.3	40.7	1144.6	1725.9	1899.5
77.5°	2.1	4.0	5.4	6.4	6.9	7.8	10.2	23.5	730.5	1194.6	1407.0
80°	0.0	1.4	4.0	5.4	5.9	6.6	7.8	18.5	390.8	682.4	819.1
82.5°	0.0	0.0	2.8	4.3	4.0	4.5	5.9	11.6	176.2	446.0	502.6
85°	0.0	0.0	0.9	3.3	2.8	2.1	4.0	4.0	38.6	225.7	281.6
87.5°	0.0	0.0	0.0	0.2	1.4	0.9	1.7	0.5	0.2	16.8	68.2
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°	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7	1628.7
2.5°	1841.2	1858.7	1888.4	1902.3	1895.5	1866.3	1831.5	1796.0	1775.1	1783.4
5°	1954.4	2044.7	2096.8	2114.1	2085.2	2019.8	1934.3	1821.6	1781.5	1770.6
7.5°	1954.4	2124.3	2231.8	2250.8	2186.3	2058.2	1897.8	1721.8	1663.3	1642.0
10°	1885.7	2116.9	2266.9	2297.0	2206.9	2015.3	1800.5	1599.6	1530.2	1508.2
12.5°	1808.3	2057.2	2215.2	2256.7	2182.8	1972.7	1733.0	1516.9	1435.2	1416.0
15°	1760.7	1983.8	2114.6	2144.7	2113.4	1947.8	1716.9	1492.1	1395.9	1377.4
17.5°	1777.7	1927.0	1974.1	1991.6	2012.7	1939.0	1760.7	1546.5	1424.8	1407.3
20°	1841.9	1867.0	1842.6	1864.7	1921.5	1947.6	1865.1	1678.2	1532.1	1508.6
22.5°	1950.9	1836.0	1767.5	1776.3	1845.5	1975.8	2024.8	1866.3	1697.7	1668.3
25°	2077.9	1861.1	1725.9	1718.0	1789.1	2012.9	2170.7	2071.0	1893.6	1861.1
27.5°	2237.5	1917.5	1717.3	1709.5	1769.4	2047.8	2292.0	2273.3	2099.9	2044.5
30°	2360.7	1972.9	1742.7	1724.7	1789.1	2071.9	2389.3	2445.0	2264.3	2227.6
32.5°	2449.0	2038.3	1783.9	1757.8	1844.5	2113.6	2464.4	2602.3	2416.3	2360.7
35°	2516.3	2109.4	1850.5	1807.6	1920.8	2176.9	2534.8	2769.8	2578.1	2517.3
37.5°	2579.3	2209.1	1954.4	1903.3	2040.4	2278.7	2609.2	2959.7	2759.1	2686.4
40°	2667.2	2322.1	2114.8	2069.3	2241.5	2417.5	2702.0	3157.8	2964.9	2873.5
42.5°	2755.1	2443.3	2279.0	2291.3	2492.4	2586.2	2821.9	3367.2	3168.2	3070.6
45°	2835.4	2568.4	2512.8	2569.6	2725.2	2771.2	2941.0	3488.2	3330.4	3236.2
47.5°	2906.9	2724.8	2745.1	2896.5	2990.1	2938.7	3030.1	3592.7	3451.2	3368.1
50°	2990.1	2927.0	3051.4	3265.5	3294.9	3090.2	3111.1	3716.3	3592.4	3525.6
52.5°	3081.0	3140.2	3390.6	3579.4	3569.9	3254.9	3192.6	3854.9	3785.9	3723.2
55°	3184.3	3312.4	3689.3	3873.1	3865.1	3438.7	3327.6	4026.1	4028.5	3971.7
57.5°	3337.5	3460.7	3892.1	4110.7	4124.2	3650.9	3556.4	4218.0	4247.8	4209.9
59°	3447.5	3556.9	3972.4	4209.9	4264.9	3815.1	3723.6	4329.3	4309.7	4275.1
60°	3528.9	3618.0	4012.2	4261.8	4346.6	3926.4	3847.1	4394.7	4317.0	4275.1
62.5°	3730.5	3751.1	4083.9	4320.6	4440.7	4173.7	4194.3	4506.0	4266.1	4197.6
65°	3824.6	3835.2	4083.0	4215.4	4349.7	4366.3	4509.4	4509.4	4141.7	4036.6
67.5°	3785.2	3733.8	3880.5	3866.7	4000.8	4251.9	4627.8	4344.0	3903.9	3767.9
70°	3465.5	3267.7	3202.5	3208.4	3311.0	3698.3	4393.3	3857.5	3453.8	3294.9
72.5°	2883.5	2409.0	2248.2	2431.7	2458.5	2842.2	3744.0	2905.0	2547.1	2398.1
75°	2319.2	1698.1	1436.6	1630.4	1675.9	2080.0	2896.2	1809.2	1487.8	1371.7
77.5°	1666.2	1218.9	1030.9	1017.4	1076.1	1319.1	2055.1	910.5	759.4	708.7
80°	946.5	802.3	863.9	815.1	844.7	824.8	976.4	399.4	327.1	305.8
82.5°	571.3	474.2	513.5	427.6	541.0	471.1	376.2	127.9	111.1	105.6
85°	371.7	259.1	135.0	90.5	186.4	301.1	84.1	34.8	26.8	21.3
87.5°	128.1	66.1	6.6	2.8	19.9	56.1	3.1	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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