

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: P458642

Luminaire Tested: **GLAN-SA2A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7384 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

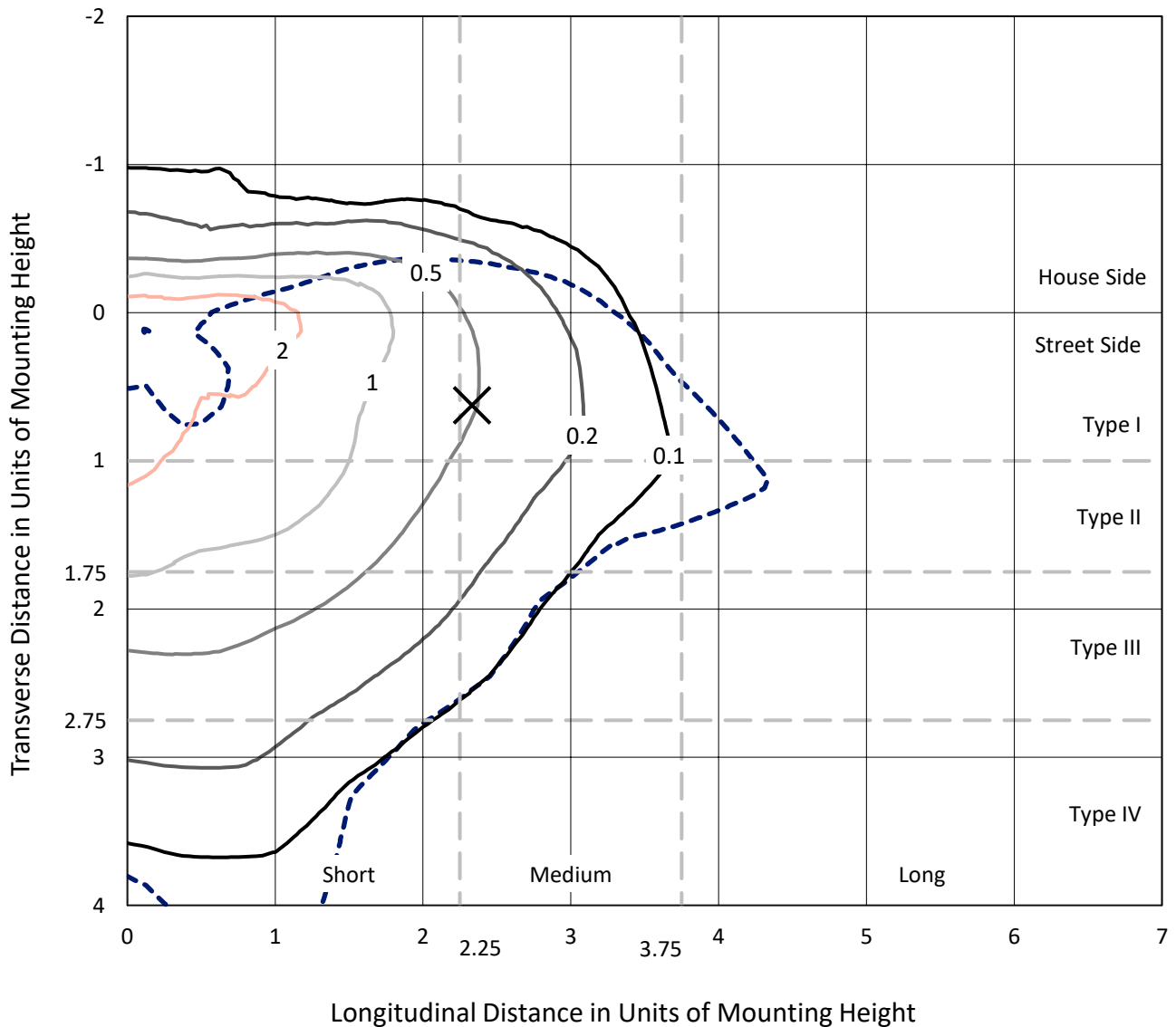
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

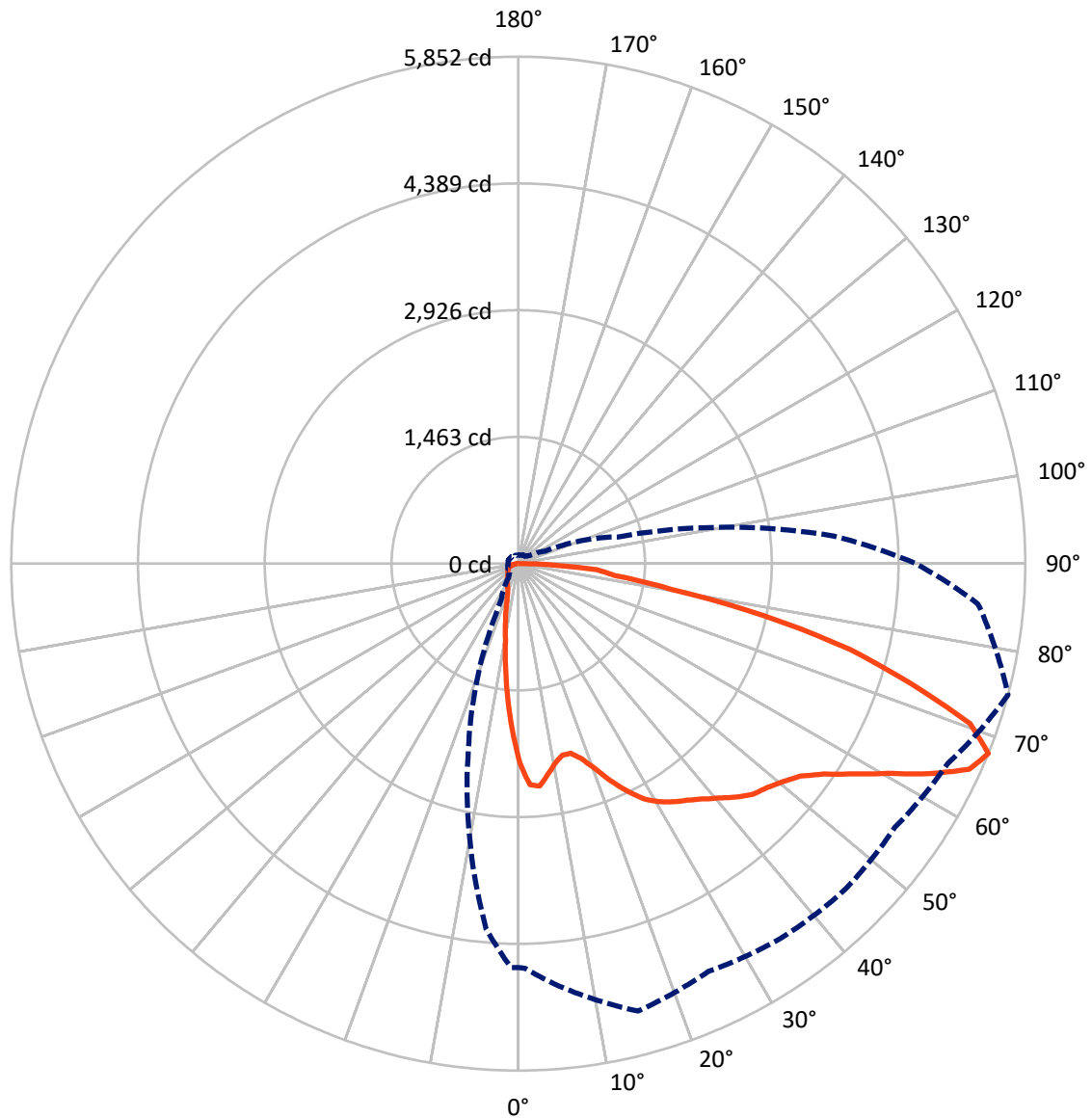
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.1	0.0	1248.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6135.9	0.0	6135.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	7384.0	0.0	7384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	2.4
10°-20°	364.9	4.9
20°-30°	525.1	7.1
30°-40°	756.3	10.2
40°-50°	1062.4	14.4
50°-60°	1481.7	20.1
60°-70°	1761.6	23.9
70°-80°	1037.5	14.1
80°-90°	219.4	3.0
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°	7384.0	100.0
0°-180°	7384.0	100.0



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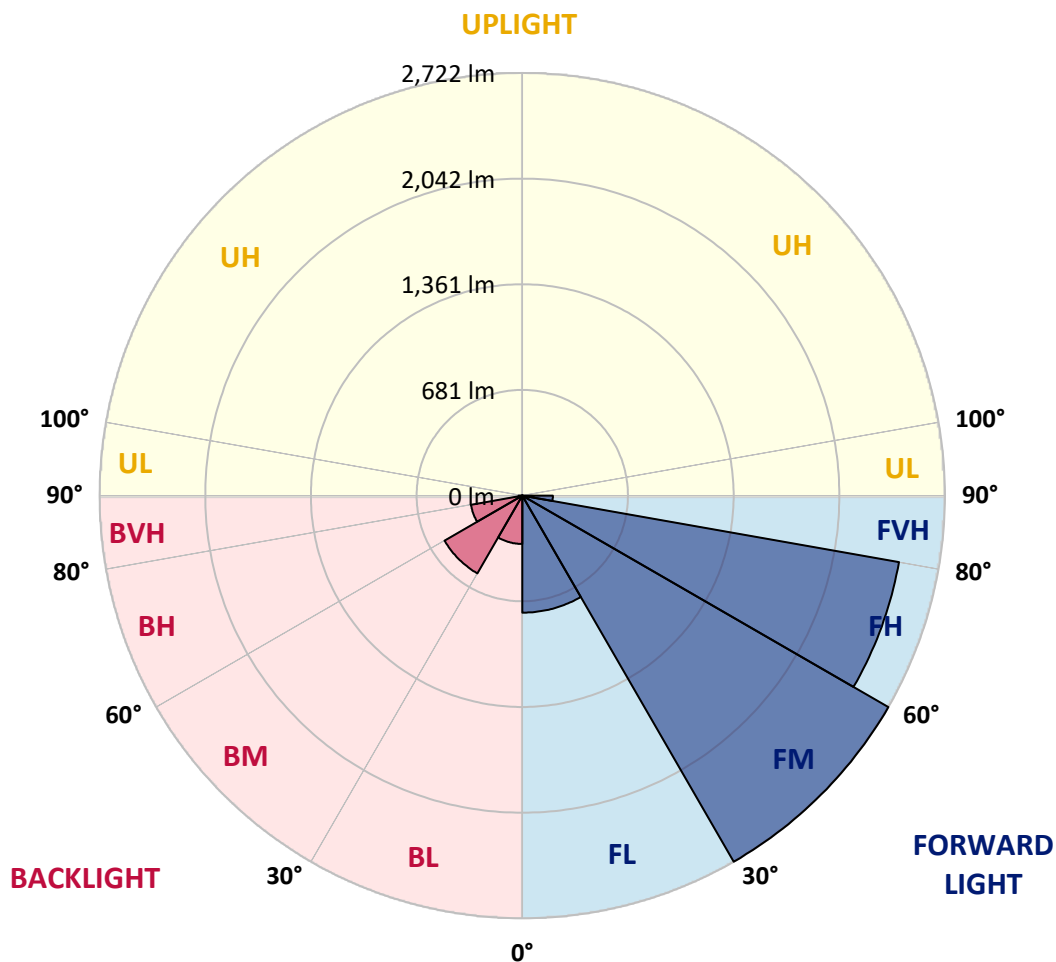
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.7	10.2			
FM (30°-60°)	2722.2	36.9			
FH (60°-80°)	2463.3	33.4			G2/5000
FVH (80°-90°)	196.7	2.7			G2/225
BL (0°-30°)	311.3	4.2	B1/500		
BM (30°-60°)	578.2	7.8	B1/1000		
BH (60°-80°)	335.8	4.5	B1/500		G1/500
BVH (80°-90°)	22.7	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2487.3	2490.7	2512.0	2574.0	2616.6	2632.2	2643.1	2622.8	2602.9	2554.6	2481.7
5°	2479.8	2499.2	2554.6	2693.8	2803.6	2851.0	2865.2	2804.1	2703.3	2579.2	2430.0
7.5°	2334.9	2360.9	2446.1	2679.6	2873.3	2984.1	2969.4	2859.0	2677.2	2456.1	2247.7
10°	2163.0	2191.9	2294.6	2576.8	2826.4	2978.8	2978.8	2844.4	2602.9	2340.1	2100.0
12.5°	2026.6	2056.9	2174.4	2471.2	2728.8	2873.3	2897.4	2781.9	2549.4	2266.7	2002.9
15°	1981.6	2011.0	2137.4	2407.3	2625.6	2713.7	2721.7	2683.8	2523.3	2271.9	1998.7
17.5°	2037.5	2075.4	2203.2	2426.3	2530.9	2536.1	2542.3	2572.1	2526.2	2367.1	2084.9
20°	2199.0	2239.7	2373.2	2487.3	2448.0	2394.1	2397.4	2474.1	2559.8	2524.3	2290.8
22.5°	2431.9	2467.5	2604.3	2594.8	2413.0	2301.7	2278.5	2385.5	2609.5	2720.3	2510.1
25°	2683.4	2725.0	2882.2	2754.4	2422.9	2246.8	2232.1	2333.5	2661.1	2903.6	2763.4
27.5°	2971.3	3012.0	3136.1	2915.4	2475.0	2242.5	2225.0	2328.7	2707.5	3073.1	3005.4
30°	3185.3	3222.7	3307.0	3050.8	2539.0	2270.9	2249.2	2366.1	2747.3	3189.1	3241.2
32.5°	3353.4	3392.2	3438.1	3135.1	2623.2	2322.6	2282.3	2434.3	2799.4	3277.6	3415.9
35°	3528.6	3574.5	3571.2	3209.9	2701.8	2382.2	2342.9	2532.8	2881.3	3354.8	3637.5
37.5°	3750.7	3769.1	3745.5	3277.2	2796.1	2489.7	2467.9	2679.1	2997.8	3448.1	3896.5
40°	3976.1	4013.0	3891.3	3358.6	2910.7	2691.9	2689.5	2895.5	3136.1	3557.5	4147.5
42.5°	4169.2	4200.5	4027.7	3429.6	3049.4	2938.6	2956.6	3185.8	3317.4	3684.4	4349.2
45°	4314.6	4342.6	4153.6	3498.3	3232.2	3223.6	3329.7	3496.9	3546.1	3798.5	4467.6
47.5°	4438.2	4465.2	4241.2	3602.5	3458.0	3564.1	3748.8	3821.2	3741.7	3863.8	4600.1
50°	4542.4	4550.4	4301.4	3726.5	3738.4	3981.3	4160.3	4207.1	3934.9	3957.6	4715.2
52.5°	4650.8	4640.4	4405.1	3882.8	4041.4	4377.1	4507.3	4556.1	4120.0	4073.1	4882.8
55°	4893.7	4903.7	4637.5	4079.8	4347.8	4765.9	4937.3	4890.4	4325.0	4285.7	5095.9
57.5°	5187.3	5178.8	4964.7	4388.0	4659.8	5127.6	5255.5	5180.2	4598.7	4577.9	5311.8
60°	5301.4	5312.8	5238.4	4719.5	4967.6	5444.4	5575.1	5458.1	4926.9	4917.4	5474.7
62.5°	5186.8	5250.7	5300.9	5014.5	5229.9	5677.4	5807.1	5673.6	5269.2	5337.9	5588.8
65°	4958.6	4972.3	5143.3	5264.5	5356.3	5715.7	5783.4	5712.4	5555.2	5720.9	5583.6
67.5°	4662.2	4674.0	4874.3	5346.4	5193.4	5280.1	5327.5	5306.6	5466.7	5852.1	5326.5
70°	4380.0	4370.5	4582.1	5137.6	4521.1	4389.4	4428.7	4363.4	4717.1	5531.5	4822.2
72.5°	3830.7	3864.8	4092.1	4557.1	3579.7	3365.7	3451.4	3282.4	3628.0	4737.5	3914.0
75°	3000.6	3008.7	3388.0	3824.5	2700.4	2362.8	2478.8	2408.3	2779.0	3951.9	2702.8
77.5°	2077.8	2059.8	2467.5	2921.1	1925.8	1729.7	1731.6	1698.0	1940.4	2909.7	1836.3
80°	1319.7	1292.2	1544.6	1804.5	1323.5	1415.8	1369.4	1368.0	1263.3	1795.1	1110.4
82.5°	713.1	743.4	975.9	1131.2	949.4	1094.3	1002.9	973.5	867.0	1123.6	710.3
85°	324.8	353.2	520.4	769.5	721.2	729.2	487.2	574.8	717.4	912.5	379.3
87.5°	31.7	40.7	107.5	363.2	246.2	194.1	72.4	139.7	180.4	324.4	30.3
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°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2451.8	2427.2	2343.4	2274.3	2200.9	2145.0	2072.1	2023.3	1989.7	1939.0	1932.9
5°	2339.1	2279.0	2133.2	1984.5	1856.2	1759.6	1661.5	1571.6	1518.5	1502.0	1480.7
7.5°	2149.3	2047.9	1860.4	1690.0	1542.7	1398.7	1287.9	1209.3	1156.8	1126.0	1089.1
10°	1993.0	1875.6	1647.3	1438.5	1317.3	1227.8	1130.3	1046.0	981.1	925.7	895.4
12.5°	1887.9	1755.3	1498.7	1329.1	1235.4	1140.2	1026.1	931.4	835.7	772.8	745.8
15°	1856.2	1716.0	1452.7	1274.7	1140.2	1015.7	887.8	764.2	669.5	609.9	590.0
17.5°	1933.8	1764.3	1452.3	1202.2	1028.5	879.8	715.9	599.9	502.9	458.4	444.2
20°	2078.7	1857.1	1456.5	1130.7	907.2	698.0	520.9	425.7	379.3	360.3	353.2
22.5°	2280.9	1998.7	1469.3	1060.2	774.7	536.0	390.2	341.9	325.3	322.0	320.6
25°	2530.0	2173.9	1512.4	996.7	662.9	409.1	326.2	304.5	295.0	291.7	291.2
27.5°	2759.1	2400.2	1564.5	942.3	555.0	352.8	295.0	276.5	267.1	266.6	267.5
30°	2966.1	2589.6	1608.0	881.2	473.0	313.5	274.6	256.2	247.2	246.7	249.5
32.5°	3145.0	2745.4	1640.2	821.1	427.6	289.3	256.2	236.3	228.7	227.3	228.7
35°	3336.3	2900.7	1625.6	774.2	401.5	269.4	242.4	223.0	214.0	209.8	209.8
37.5°	3554.6	3060.8	1600.5	735.4	389.7	252.9	230.6	211.7	202.7	198.4	197.9
40°	3792.8	3220.8	1565.9	700.8	377.9	242.9	222.5	202.7	191.8	187.5	186.6
42.5°	4003.0	3357.7	1537.5	678.1	358.4	244.8	215.4	196.0	182.3	176.6	176.1
45°	4185.8	3495.4	1532.3	664.8	342.3	242.0	213.6	190.8	174.7	168.6	167.6
47.5°	4328.8	3638.9	1562.1	657.2	324.8	226.8	225.9	187.5	168.1	161.5	160.5
50°	4503.1	3842.5	1630.3	641.6	308.7	212.6	238.6	187.0	162.9	154.4	152.0
52.5°	4735.1	4107.7	1722.6	613.7	285.5	199.3	227.8	187.0	156.7	148.2	145.4
55°	5086.0	4445.8	1813.1	574.4	252.9	181.8	205.5	181.4	147.7	140.2	138.3
57.5°	5318.5	4692.9	1870.8	519.9	212.1	169.0	177.1	172.4	138.7	130.7	130.7
60°	5330.3	4759.2	1843.4	451.3	186.6	157.2	153.9	173.8	130.7	122.2	121.2
62.5°	5193.9	4596.8	1700.4	389.7	172.8	144.4	139.2	152.5	122.6	114.1	112.7
65°	4980.8	4182.5	1452.3	360.3	165.3	133.1	125.5	125.0	114.1	106.1	104.2
67.5°	4589.3	3655.0	1193.2	343.3	161.5	120.3	113.2	110.8	104.2	97.5	96.6
70°	4012.0	3061.2	957.0	336.2	159.6	107.0	101.3	98.5	92.8	87.6	87.1
72.5°	3121.4	2483.1	789.8	331.5	158.6	94.7	88.5	84.8	81.4	76.7	76.7
75°	2242.1	1826.8	602.8	298.8	146.8	81.4	74.8	72.4	67.7	63.9	64.9
77.5°	1413.4	1230.2	396.8	219.7	113.6	65.3	59.7	58.2	54.5	49.2	52.6
80°	954.6	865.1	231.5	138.3	71.5	47.8	45.9	45.5	41.2	35.5	36.0
82.5°	649.7	637.3	120.3	78.6	41.2	27.9	27.0	27.9	23.2	18.9	18.9
85°	253.8	346.6	56.8	30.8	13.3	4.3	6.2	6.6	3.8	1.9	2.4
87.5°	4.7	35.5	1.4	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°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	1923.4	1919.1	1926.2	1895.9	1902.1	1913.5	1919.1	1922.4	1969.3	1958.4	1988.3
5°	1500.6	1496.3	1523.8	1527.5	1541.7	1538.9	1552.6	1556.0	1573.0	1579.2	1620.8
7.5°	1091.4	1109.9	1141.2	1157.3	1181.4	1189.0	1181.9	1199.4	1163.9	1189.5	1197.0
10°	876.9	854.7	841.4	878.4	883.1	918.1	903.9	892.6	913.4	914.3	934.2
12.5°	730.2	682.3	650.6	661.0	672.4	687.5	689.9	712.6	727.8	742.0	753.8
15°	572.5	555.9	527.0	512.8	528.9	535.1	549.7	568.7	584.8	589.0	605.1
17.5°	439.4	442.3	437.5	429.0	438.9	443.7	444.6	445.1	449.4	446.5	470.2
20°	353.7	363.7	375.5	377.4	380.7	383.1	378.8	362.7	363.2	373.1	380.7
22.5°	320.1	322.0	335.2	339.5	349.9	345.7	333.4	325.8	324.8	327.2	331.0
25°	293.6	296.4	305.9	312.5	320.6	313.0	304.0	296.9	295.9	298.3	302.1
27.5°	269.9	274.2	282.7	289.3	296.9	289.8	281.3	275.1	274.6	274.2	276.5
30°	251.0	255.7	261.9	269.4	274.6	268.5	260.4	257.1	256.6	255.7	256.6
32.5°	232.0	239.6	245.8	249.5	254.7	250.0	243.9	242.0	238.6	235.8	234.4
35°	210.7	218.8	228.2	233.0	238.2	233.4	229.2	221.1	215.4	215.0	215.9
37.5°	198.4	201.7	209.3	217.3	222.5	220.2	212.1	204.1	202.7	202.7	203.6
40°	187.5	188.9	192.2	202.7	212.1	205.0	195.1	192.7	192.7	192.2	192.7
42.5°	176.6	178.0	178.0	186.1	201.2	189.9	182.3	182.3	182.3	182.8	184.2
45°	166.7	167.1	166.7	172.4	186.6	177.1	171.9	173.3	174.3	175.2	176.1
47.5°	158.2	158.6	158.2	162.9	170.0	166.2	163.4	165.3	167.1	168.6	169.5
50°	150.6	150.1	151.0	153.9	157.2	158.2	156.3	159.1	160.0	161.9	164.3
52.5°	143.9	143.5	144.4	145.8	150.6	150.6	150.6	152.9	154.8	156.7	160.0
55°	136.4	136.8	138.3	140.2	146.3	145.4	145.8	147.7	149.6	152.5	154.4
57.5°	129.3	130.2	132.1	135.0	141.1	140.6	141.1	142.1	144.4	145.8	147.7
60°	121.2	123.1	125.5	127.4	133.5	133.1	135.4	137.3	138.7	138.7	139.7
62.5°	113.2	116.0	118.4	119.8	126.4	126.9	130.2	131.6	132.6	131.6	133.1
65°	105.1	109.4	110.3	112.2	118.9	119.3	123.1	126.4	125.5	124.5	126.9
67.5°	97.1	102.3	101.8	104.2	110.8	111.7	115.1	120.7	118.9	117.9	119.8
70°	88.1	91.9	92.3	93.8	102.8	101.3	106.5	111.7	110.3	110.8	110.8
72.5°	78.1	81.4	81.4	84.3	93.8	91.4	95.6	101.3	101.3	100.9	100.9
75°	66.3	68.2	70.1	74.3	84.3	81.4	84.3	89.5	90.4	89.5	89.5
77.5°	53.5	56.3	57.3	63.0	70.1	69.6	72.4	74.8	76.7	75.8	75.8
80°	37.9	40.7	44.5	50.7	54.9	56.3	57.8	59.7	60.6	60.6	61.6
82.5°	21.3	25.6	28.9	35.0	36.9	44.0	43.6	45.0	43.6	38.4	42.6
85°	4.7	9.0	12.8	16.1	18.5	25.6	27.0	30.3	25.1	23.2	23.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	7.6	10.4	9.0	7.6	7.6
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°	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9	2306.9
2.5°	2013.4	2054.6	2104.3	2190.0	2250.1	2315.0	2380.3	2449.9	2468.4	2487.3
5°	1632.2	1713.2	1757.2	1872.3	1993.0	2146.4	2271.9	2409.2	2466.5	2479.8
7.5°	1236.3	1291.3	1406.8	1523.3	1672.9	1833.9	2026.1	2240.2	2306.9	2334.9
10°	980.2	1055.0	1156.3	1281.3	1412.5	1585.8	1802.6	2052.7	2147.4	2163.0
12.5°	834.3	917.7	1028.0	1160.1	1284.2	1414.8	1633.6	1891.7	1993.0	2026.6
15°	667.2	768.0	895.4	1034.6	1169.6	1312.6	1534.2	1825.4	1942.3	1981.6
17.5°	524.2	605.6	743.4	894.5	1054.5	1235.4	1513.3	1857.1	2001.0	2037.5
20°	401.1	459.3	575.3	734.9	922.4	1159.2	1518.5	1976.9	2149.3	2199.0
22.5°	346.6	376.4	447.0	599.0	808.8	1092.9	1539.9	2141.2	2349.1	2431.9
25°	313.9	329.6	369.3	468.8	700.3	1028.5	1588.6	2362.3	2628.4	2683.4
27.5°	286.0	297.4	322.0	393.5	601.8	968.8	1645.4	2607.6	2889.4	2971.3
30°	259.5	274.6	297.8	349.4	538.9	914.3	1716.9	2806.5	3109.1	3185.3
32.5°	239.1	254.3	275.6	318.7	485.3	857.1	1759.6	2981.2	3288.5	3353.4
35°	222.5	235.3	257.6	294.0	444.6	813.5	1751.0	3120.0	3462.3	3528.6
37.5°	210.7	221.6	243.9	270.8	413.8	768.0	1746.8	3303.2	3674.0	3750.7
40°	199.8	211.2	231.5	255.7	383.1	714.5	1749.1	3485.0	3899.3	3976.1
42.5°	191.3	204.1	220.7	251.4	351.3	671.4	1749.1	3643.2	4095.4	4169.2
45°	184.2	197.9	214.0	251.0	326.2	638.8	1737.3	3779.1	4251.6	4314.6
47.5°	178.0	193.2	216.4	242.4	320.1	615.1	1726.9	3888.0	4379.0	4438.2
50°	173.8	191.8	230.1	232.5	322.0	608.0	1777.1	4025.3	4491.2	4542.4
52.5°	170.5	192.2	229.7	217.8	318.7	612.7	1881.7	4239.8	4647.0	4650.8
55°	163.8	191.8	217.8	201.2	304.9	620.8	2016.2	4551.4	4890.9	4893.7
57.5°	157.2	186.6	202.2	187.0	277.0	620.8	2178.1	4846.4	5184.9	5187.3
60°	150.6	194.1	177.6	174.7	240.5	609.4	2349.1	4976.1	5277.3	5301.4
62.5°	143.9	195.6	158.6	163.8	214.0	581.9	2476.5	4832.6	5152.3	5186.8
65°	136.4	157.7	146.3	152.5	200.3	536.0	2436.2	4569.8	4917.4	4958.6
67.5°	127.4	133.5	133.1	140.6	195.6	468.3	2224.1	4237.4	4664.5	4662.2
70°	116.5	119.8	121.2	129.3	186.6	415.7	1853.3	3806.1	4326.9	4380.0
72.5°	105.1	108.0	109.4	116.5	177.6	385.9	1438.5	3211.8	3747.8	3830.7
75°	92.8	94.7	96.6	102.8	168.1	341.9	1024.7	2451.8	2870.4	3000.6
77.5°	80.0	80.0	82.4	88.5	141.6	282.2	687.5	1719.8	1944.7	2077.8
80°	64.9	65.3	64.4	71.0	104.2	193.2	390.6	1148.7	1294.1	1319.7
82.5°	49.7	48.3	48.8	52.1	77.7	131.6	208.3	713.6	727.3	713.1
85°	31.3	31.3	30.3	34.1	49.7	68.7	113.6	437.0	341.4	324.8
87.5°	12.8	10.4	11.8	13.7	23.7	27.9	44.5	90.0	34.6	31.7
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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