

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: P324426

Luminaire Tested: **GAN-SA2A-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324426
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-SA2A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6437 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

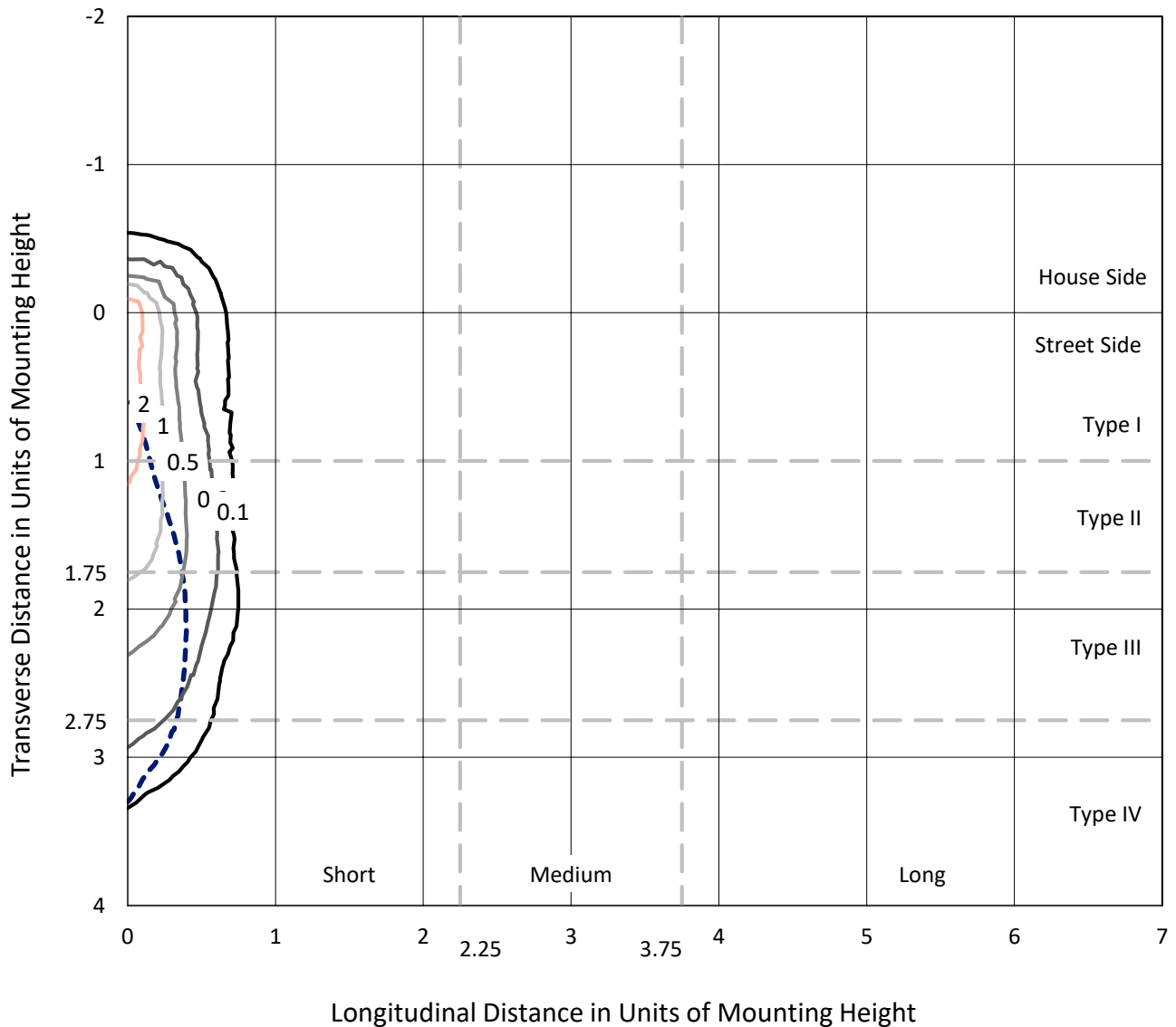
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

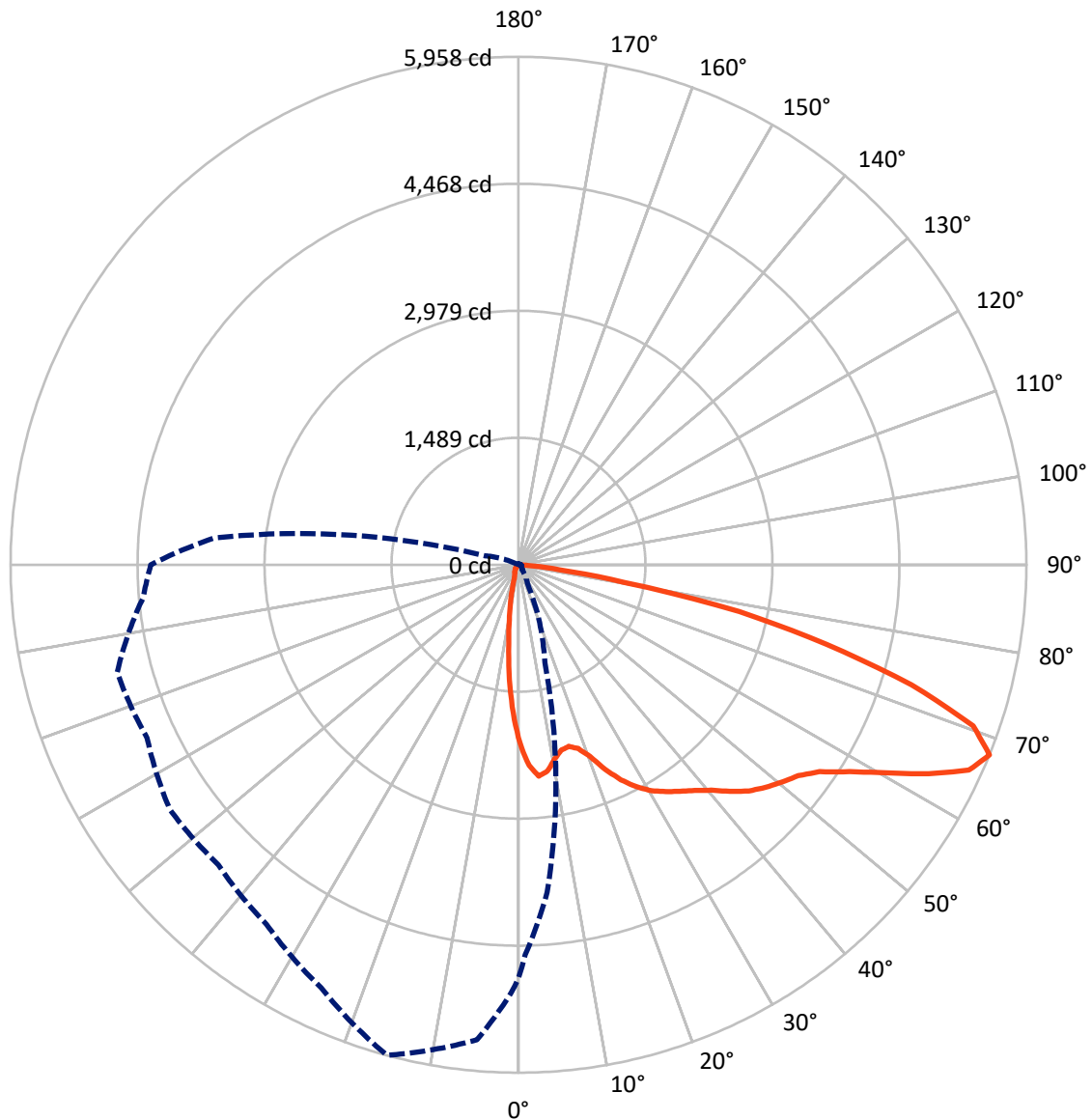
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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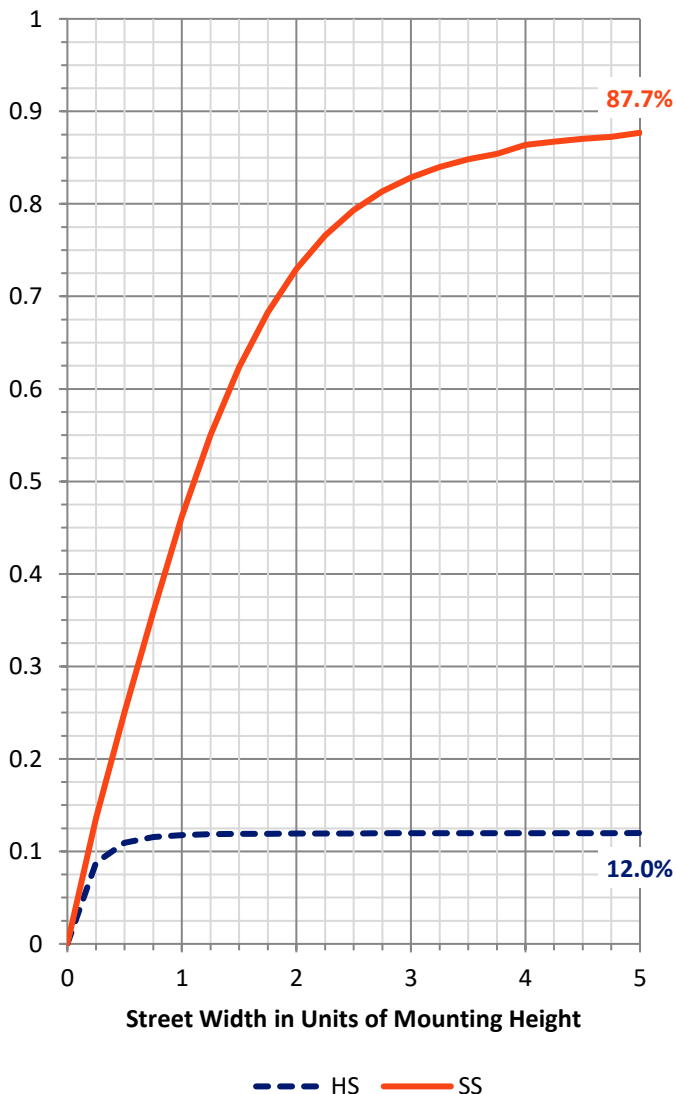
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.1	0.0	779.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5657.9	0.0	5657.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	6437.0	0.0	6437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	2.5
10°-20°	320.3	5.0
20°-30°	454.9	7.1
30°-40°	671.9	10.4
40°-50°	969.0	15.1
50°-60°	1360.2	21.1
60°-70°	1585.6	24.6
70°-80°	810.6	12.6
80°-90°	103.5	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°	6437.0	100.0
0°-180°	6437.0	100.0

Coefficient of Utilization

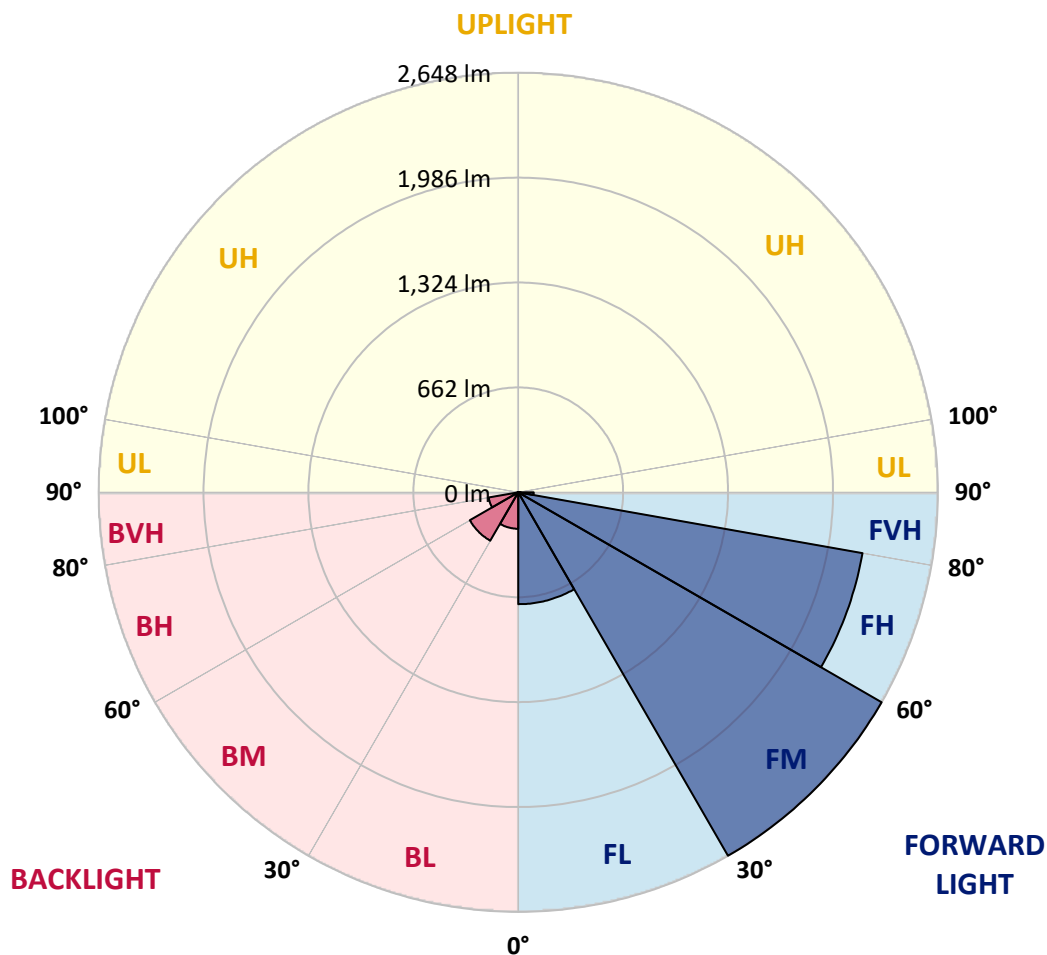


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.0	11.0			
FM (30°-60°)	2648.3	41.1			
FH (60°-80°)	2206.4	34.3			G2/5000
FVH (80°-90°)	97.2	1.5			G1/100
BL (0°-30°)	230.1	3.6	B1/500		
BM (30°-60°)	352.8	5.5	B1/1000		
BH (60°-80°)	189.9	2.9	B1/500		G1/500
BVH (80°-90°)	6.3	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2296.0	2278.3	2258.8	2195.0	2135.9	2068.2	2013.0	1974.6	1926.4	1863.9	1848.0
5°	2279.5	2260.6	2199.3	2057.5	1933.4	1812.6	1696.1	1627.8	1543.1	1457.1	1435.7
7.5°	2113.9	2094.1	2005.7	1811.4	1644.3	1469.9	1318.6	1225.0	1129.2	1050.6	1008.8
10°	1941.6	1920.0	1820.6	1584.8	1379.0	1221.3	1110.3	1021.0	930.4	846.2	779.1
12.5°	1823.0	1794.6	1686.7	1419.5	1240.2	1133.2	1029.5	922.5	799.9	709.6	635.8
15°	1773.3	1741.0	1626.9	1355.8	1191.1	1065.5	930.4	799.0	655.3	552.0	484.3
17.5°	1811.7	1769.6	1647.3	1351.5	1129.5	958.5	787.7	633.4	477.6	373.0	324.8
20°	1942.2	1887.0	1731.8	1350.3	1054.8	831.3	614.8	440.3	314.7	253.1	227.8
22.5°	2147.8	2074.9	1853.2	1360.1	977.7	697.7	444.0	299.2	236.3	204.3	189.4
25°	2396.0	2311.5	2027.9	1394.5	910.0	567.8	322.6	236.3	199.4	176.0	163.5
27.5°	2632.0	2563.4	2248.7	1444.2	857.5	462.9	262.0	200.4	170.5	154.9	144.9
30°	2867.8	2781.5	2475.3	1503.4	794.4	391.9	230.2	182.7	152.8	136.3	129.9
32.5°	3039.1	2967.5	2652.8	1546.1	727.0	345.5	205.8	167.1	142.7	125.9	116.5
35°	3240.7	3159.6	2804.9	1555.6	683.7	316.2	185.1	150.3	123.8	108.9	98.8
37.5°	3458.4	3357.5	2980.6	1534.8	649.8	301.9	169.6	142.7	115.6	100.3	89.7
40°	3699.4	3585.3	3149.2	1504.9	616.6	297.0	157.7	136.9	109.2	93.6	82.6
42.5°	3953.1	3818.6	3295.3	1473.5	595.6	280.2	156.4	131.1	104.3	87.5	76.5
45°	4166.2	4029.9	3445.3	1463.2	580.6	262.0	161.6	127.2	100.9	82.6	72.0
47.5°	4336.1	4207.1	3599.0	1486.3	572.1	245.2	147.3	132.3	99.1	78.4	68.0
50°	4538.9	4392.8	3815.5	1555.6	559.6	228.4	133.3	151.6	99.1	75.6	64.6
52.5°	4793.2	4648.7	4057.1	1662.9	534.6	205.2	119.8	151.9	100.0	72.0	60.4
55°	5113.1	5008.2	4402.0	1780.6	494.6	171.1	103.7	130.5	96.4	65.3	56.4
57.5°	5419.9	5334.2	4716.4	1861.1	441.3	133.6	90.3	105.2	88.1	57.3	50.3
59°	5503.7	5410.1	4831.6	1864.8	401.3	116.5	83.6	86.9	86.3	53.7	46.7
60°	5503.7	5404.3	4864.9	1845.3	372.3	107.0	79.3	77.5	90.0	51.2	44.5
62.5°	5404.0	5264.4	4756.9	1713.2	303.7	91.2	69.2	64.0	80.8	46.0	39.3
65°	5196.7	4993.3	4389.2	1474.4	270.8	83.6	59.8	52.5	56.1	40.6	34.5
67.5°	4850.9	4575.2	3858.8	1191.1	257.7	81.4	51.5	44.5	42.4	34.8	30.2
70°	4241.9	3936.0	3215.1	936.5	246.4	80.5	43.3	37.5	34.2	29.3	25.6
72.5°	3087.3	2768.3	2282.6	732.2	239.7	82.3	34.8	31.4	28.1	22.9	19.8
75°	1766.0	1557.1	1282.9	483.7	204.3	78.7	26.8	26.2	20.1	16.5	13.7
77.5°	912.4	884.7	768.8	185.7	97.9	34.5	17.7	15.2	11.9	10.1	8.2
80°	393.7	389.4	337.0	53.7	25.9	19.2	10.1	6.4	5.5	4.3	3.4
82.5°	136.0	136.0	119.8	18.0	11.6	9.5	1.2	0.0	0.0	0.0	0.0
85°	27.4	30.8	21.7	0.0	4.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	1828.8	1791.9	1789.5	1766.3	1737.3	1724.2	1716.6	1730.0	1746.5	1748.3	1773.0
5°	1419.5	1380.8	1397.0	1355.8	1364.0	1355.8	1342.4	1344.8	1352.2	1329.3	1357.6
7.5°	996.9	967.6	986.2	975.2	989.9	995.7	987.4	975.2	939.2	935.0	959.7
10°	751.4	718.2	698.3	677.6	682.2	691.6	688.6	679.7	656.9	658.1	681.9
12.5°	603.8	566.6	527.3	476.3	463.8	470.8	463.8	458.6	436.7	438.5	459.6
15°	458.0	427.5	386.4	345.5	323.2	325.4	305.9	292.1	278.4	262.0	274.8
17.5°	309.2	290.6	278.4	266.2	239.7	233.6	208.9	182.4	172.0	164.4	169.9
20°	219.0	208.9	204.0	203.4	188.2	180.5	156.4	140.0	134.8	133.3	136.6
22.5°	183.0	175.7	168.6	164.7	157.0	148.2	129.9	121.7	118.0	116.2	118.6
25°	159.2	153.7	146.4	139.7	136.6	127.2	114.1	108.0	105.5	103.7	104.9
27.5°	141.5	136.6	128.1	123.8	121.4	113.1	101.9	97.0	94.8	94.2	93.9
30°	127.5	122.9	115.0	110.1	105.8	98.5	91.8	86.9	84.8	84.2	83.6
32.5°	113.4	109.8	104.6	99.7	95.1	88.4	82.6	78.7	75.3	74.7	74.4
35°	95.8	92.1	89.4	89.0	84.8	78.4	74.1	68.9	66.2	65.3	65.6
37.5°	85.1	80.2	74.1	76.2	75.0	70.4	64.6	59.5	56.7	56.1	56.1
40°	78.4	73.2	66.2	62.5	66.2	65.3	56.1	50.9	48.2	47.9	47.3
42.5°	72.0	66.8	58.9	52.8	54.6	57.3	48.5	43.6	40.9	40.3	39.3
45°	67.4	61.9	53.1	46.0	42.4	48.2	41.5	35.4	33.8	32.6	32.0
47.5°	63.1	57.9	47.9	39.9	33.8	34.8	33.2	29.0	27.1	25.9	25.6
50°	59.5	54.0	43.3	34.2	28.1	25.6	26.8	22.9	21.3	20.1	19.5
52.5°	55.2	50.0	38.4	29.6	23.5	20.1	20.4	18.0	16.5	15.6	15.2
55°	51.8	46.7	34.5	25.9	20.7	16.5	14.6	14.0	13.1	12.5	12.2
57.5°	47.3	42.4	30.5	22.0	17.7	13.4	11.3	11.3	11.0	10.4	10.1
59°	44.5	40.3	28.1	19.8	16.2	11.6	10.1	10.4	10.1	9.5	9.1
60°	42.4	38.4	26.2	18.3	15.2	10.7	9.1	9.8	9.5	8.8	8.5
62.5°	37.5	34.8	22.6	15.2	13.4	8.5	7.6	8.2	8.2	7.9	7.6
65°	32.9	29.9	19.2	12.8	12.5	7.3	6.1	7.3	7.6	7.0	6.4
67.5°	28.7	25.6	16.8	10.4	11.6	5.8	4.6	6.1	8.2	6.4	5.8
70°	24.4	21.3	13.1	8.2	12.2	4.0	3.7	5.5	9.8	7.0	5.5
72.5°	18.9	16.5	9.1	6.1	13.1	2.7	2.7	4.6	11.0	7.6	5.2
75°	13.1	10.7	5.5	3.7	10.7	1.8	1.8	4.3	10.4	7.0	4.9
77.5°	7.6	5.8	1.8	0.3	5.5	0.0	0.3	3.0	7.3	4.3	2.1
80°	2.7	1.2	0.0	0.0	3.4	0.0	0.0	0.0	0.6	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°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	1779.4	1820.6	1857.5	1913.3	1979.4	2055.7	2121.2	2191.7	2257.9	2285.3	2304.2
5°	1363.4	1414.4	1473.8	1555.9	1665.0	1799.5	1925.5	2067.9	2221.0	2297.5	2369.5
7.5°	963.9	1015.8	1089.6	1176.8	1308.8	1468.9	1633.6	1830.3	2037.7	2158.7	2278.0
10°	693.2	756.9	825.8	945.0	1079.2	1231.1	1400.6	1620.2	1851.4	1985.5	2129.2
12.5°	471.8	544.3	648.6	782.2	939.9	1088.7	1236.0	1445.5	1713.8	1846.8	2000.8
15°	283.0	323.2	433.6	588.2	781.6	967.0	1128.3	1338.4	1624.5	1787.3	1947.4
17.5°	174.4	193.0	253.1	380.0	583.1	817.6	1038.7	1302.1	1637.3	1835.5	2006.9
20°	139.1	146.4	165.6	224.4	386.4	652.9	937.7	1294.8	1741.9	1985.8	2169.7
22.5°	120.8	127.8	140.6	163.1	243.0	488.8	842.0	1301.5	1891.9	2211.2	2425.9
25°	106.4	112.5	124.7	143.3	178.1	344.3	739.5	1331.4	2087.4	2490.8	2718.9
27.5°	95.1	100.3	111.6	128.7	152.8	240.3	623.3	1367.7	2319.1	2776.9	3001.9
30°	84.8	89.4	99.4	115.3	132.7	184.8	495.8	1392.4	2551.2	3001.9	3204.1
32.5°	75.9	79.3	88.4	101.9	115.3	147.3	376.9	1388.4	2723.5	3189.2	3349.6
35°	66.8	70.1	78.1	89.7	100.3	121.7	296.4	1314.3	2873.6	3383.4	3516.1
37.5°	56.7	61.0	68.6	79.0	86.3	107.0	239.7	1225.0	3025.7	3605.4	3701.8
40°	48.2	52.5	59.2	70.4	75.0	101.5	184.2	1116.1	3196.8	3853.7	3905.5
42.5°	39.9	43.9	50.9	60.7	70.7	87.5	136.3	991.7	3361.2	4065.9	4091.2
45°	32.3	36.3	43.6	53.4	75.6	72.6	105.5	858.4	3493.8	4242.5	4250.7
47.5°	25.6	29.3	36.9	50.3	70.4	57.9	75.3	753.8	3605.1	4380.3	4358.7
50°	19.8	22.9	30.8	57.6	61.6	47.9	57.0	719.1	3704.8	4465.7	4409.6
52.5°	15.6	18.3	25.3	54.0	47.9	39.6	47.9	751.7	3841.5	4536.4	4438.3
55°	12.5	15.2	19.8	30.8	32.6	33.5	40.9	782.2	4077.2	4702.3	4607.5
57.5°	10.4	13.1	16.2	21.7	24.7	28.4	36.3	785.6	4355.0	4978.0	4888.4
59°	9.5	11.9	14.6	19.2	21.7	25.9	34.2	767.3	4452.9	5078.3	5033.5
60°	8.8	11.3	13.7	17.7	20.1	24.4	32.9	749.9	4457.2	5074.7	5095.4
62.5°	7.6	10.1	12.2	14.9	17.1	20.7	29.6	685.5	4276.6	4908.5	5058.2
65°	6.7	8.8	11.0	12.8	14.6	18.6	26.8	568.1	3968.3	4640.4	4803.6
67.5°	6.1	7.6	10.1	11.3	13.1	16.5	23.8	405.0	3583.2	4312.6	4418.4
70°	5.5	7.3	9.1	10.4	11.9	14.3	20.4	232.7	3025.7	3832.6	3907.9
72.5°	5.2	7.0	8.2	9.8	10.7	12.8	18.6	109.5	2215.5	3070.2	3266.9
75°	4.6	6.4	7.6	9.1	10.1	11.6	15.9	52.5	1473.5	2221.9	2445.4
77.5°	2.7	5.2	7.0	8.2	8.8	10.1	13.1	30.2	940.5	1537.9	1811.4
80°	0.0	1.8	5.2	7.0	7.6	8.5	10.1	23.8	503.2	878.6	1054.5
82.5°	0.0	0.0	3.7	5.5	5.2	5.8	7.6	14.9	226.9	574.2	647.1
85°	0.0	0.0	1.2	4.3	3.7	2.7	5.2	5.2	49.7	290.6	362.6
87.5°	0.0	0.0	0.0	0.3	1.8	1.2	2.1	0.6	0.3	21.7	87.8
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°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2370.4	2392.9	2431.1	2449.1	2440.2	2402.7	2357.9	2312.1	2285.3	2296.0
5°	2516.1	2632.3	2699.4	2721.7	2684.5	2600.3	2490.2	2345.1	2293.5	2279.5
7.5°	2516.1	2734.8	2873.2	2897.6	2814.7	2649.7	2443.3	2216.7	2141.4	2113.9
10°	2427.7	2725.3	2918.4	2957.1	2841.2	2594.5	2317.9	2059.3	1970.0	1941.6
12.5°	2328.0	2648.5	2851.9	2905.3	2810.1	2539.6	2231.0	1952.9	1847.7	1823.0
15°	2266.7	2554.0	2722.3	2761.0	2720.8	2507.6	2210.3	1920.9	1797.1	1773.3
17.5°	2288.7	2480.8	2541.5	2564.0	2591.2	2496.3	2266.7	1991.0	1834.3	1811.7
20°	2371.3	2403.6	2372.2	2400.6	2473.8	2507.3	2401.2	2160.6	1972.4	1942.2
22.5°	2511.6	2363.7	2275.5	2286.8	2375.9	2543.6	2606.7	2402.7	2185.6	2147.8
25°	2675.0	2396.0	2221.9	2211.8	2303.3	2591.5	2794.6	2666.2	2437.8	2396.0
27.5°	2880.6	2468.6	2210.9	2200.8	2278.0	2636.3	2950.7	2926.6	2703.4	2632.0
30°	3039.1	2539.9	2243.5	2220.3	2303.3	2667.4	3076.0	3147.7	2915.0	2867.8
32.5°	3152.9	2624.1	2296.6	2263.0	2374.7	2721.1	3172.7	3350.2	3110.8	3039.1
35°	3239.5	2715.6	2382.3	2327.1	2472.8	2802.5	3263.3	3565.8	3319.1	3240.7
37.5°	3320.6	2844.0	2516.1	2450.3	2626.8	2933.6	3359.0	3810.4	3552.1	3458.4
40°	3433.7	2989.4	2722.6	2664.0	2885.7	3112.3	3478.6	4065.3	3817.1	3699.4
42.5°	3546.9	3145.6	2933.9	2949.8	3208.7	3329.5	3632.9	4334.9	4078.7	3953.1
45°	3650.3	3306.6	3234.9	3308.1	3508.5	3567.6	3786.3	4490.7	4287.6	4166.2
47.5°	3742.4	3507.8	3534.1	3728.9	3849.4	3783.2	3900.9	4625.2	4443.1	4336.1
50°	3849.4	3768.3	3928.4	4204.0	4241.9	3978.4	4005.2	4784.4	4624.9	4538.9
52.5°	3966.5	4042.7	4365.1	4608.1	4595.9	4190.3	4110.1	4962.8	4874.0	4793.2
55°	4099.5	4264.4	4749.6	4986.2	4975.9	4427.0	4283.9	5183.2	5186.3	5113.1
57.5°	4296.8	4455.3	5010.6	5292.1	5309.5	4700.2	4578.5	5430.3	5468.7	5419.9
59°	4438.3	4579.1	5114.0	5419.9	5490.6	4911.5	4793.8	5573.6	5548.3	5503.7
60°	4543.2	4657.8	5165.3	5486.7	5595.8	5054.9	4952.7	5657.7	5557.7	5503.7
62.5°	4802.7	4829.2	5257.7	5562.3	5716.9	5373.2	5399.8	5801.1	5492.2	5404.0
65°	4923.7	4937.5	5256.4	5426.9	5599.8	5621.2	5805.3	5805.3	5332.1	5196.7
67.5°	4873.1	4806.9	4995.7	4978.0	5150.6	5473.9	5957.8	5592.5	5025.9	4850.9
70°	4461.4	4206.8	4122.9	4130.6	4262.6	4761.2	5655.9	4966.1	4446.5	4241.9
72.5°	3712.2	3101.3	2894.3	3130.6	3165.1	3659.1	4820.1	3739.9	3279.1	3087.3
75°	2985.8	2186.2	1849.5	2099.0	2157.5	2677.8	3728.6	2329.2	1915.4	1766.0
77.5°	2145.0	1569.3	1327.1	1309.8	1385.4	1698.3	2645.8	1172.2	977.7	912.4
80°	1218.6	1032.9	1112.2	1049.3	1087.5	1061.8	1257.0	514.1	421.1	393.7
82.5°	735.5	610.5	661.1	550.4	696.5	606.5	484.3	164.7	143.0	136.0
85°	478.5	333.6	173.8	116.5	240.0	387.6	108.3	44.8	34.5	27.4
87.5°	165.0	85.1	8.5	3.7	25.6	72.3	4.0	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

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