

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: P324386

Luminaire Tested: **GAN-SA2A-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324386
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 5911 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

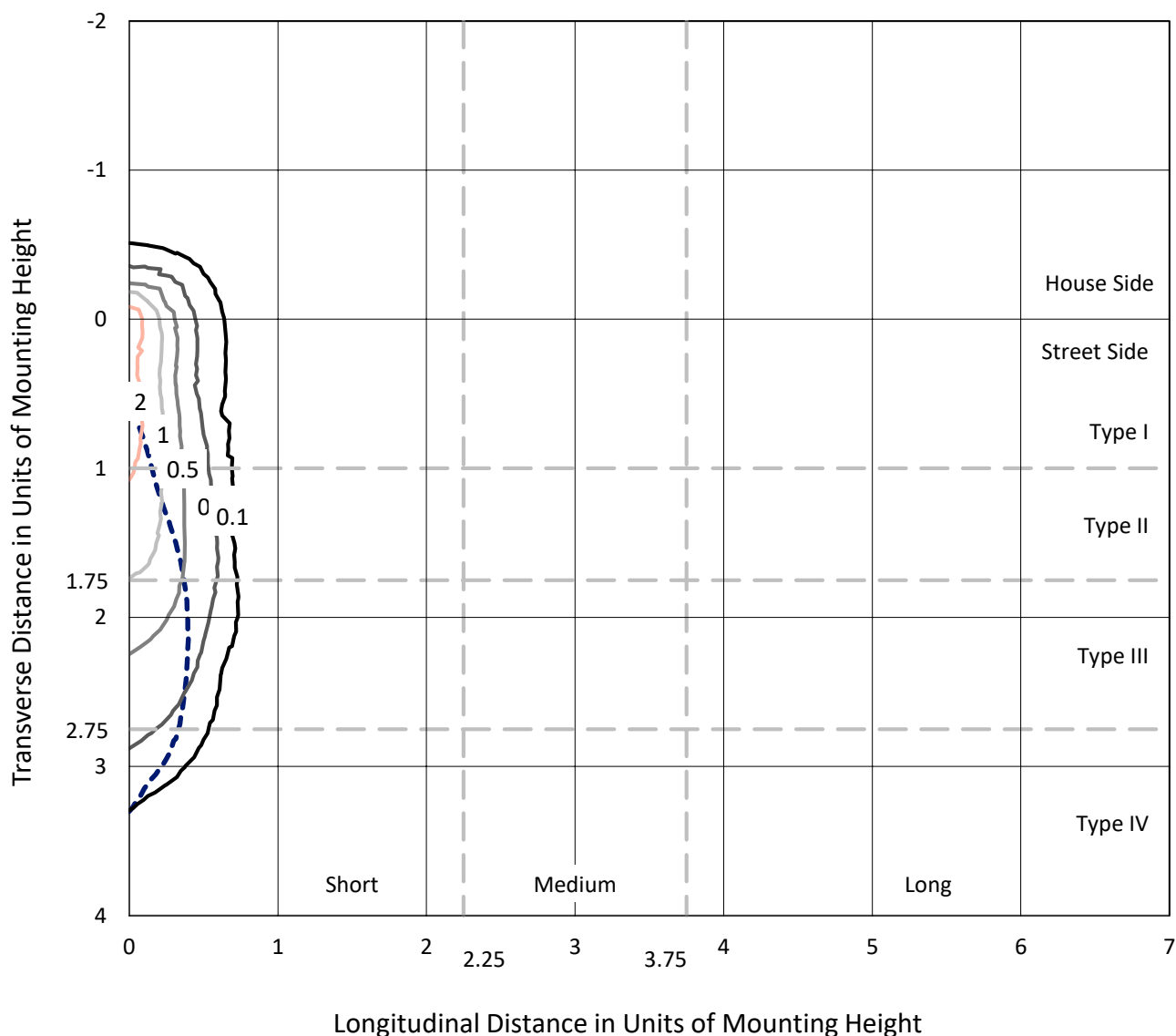
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

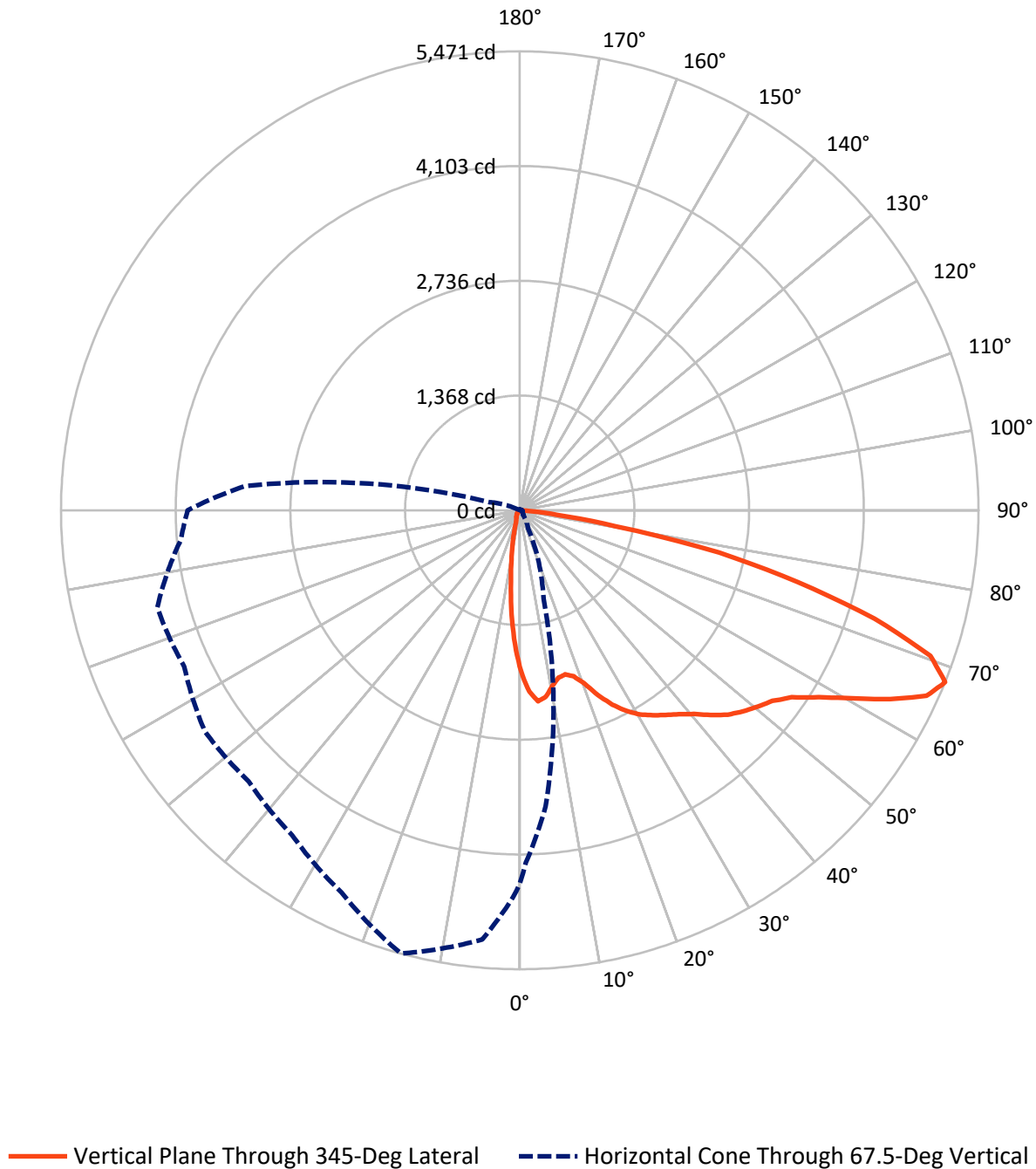
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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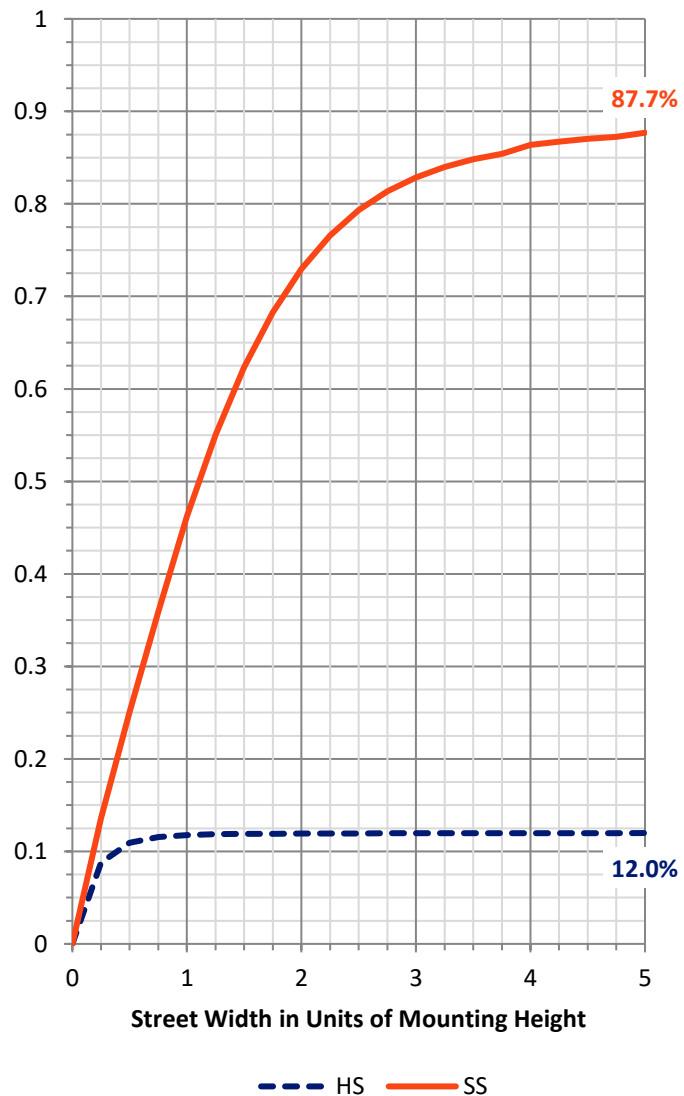
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	715.4	0.0	715.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5195.6	0.0	5195.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	5911.0	0.0	5911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	2.5
10°-20°	294.2	5.0
20°-30°	417.7	7.1
30°-40°	617.0	10.4
40°-50°	889.8	15.1
50°-60°	1249.1	21.1
60°-70°	1456.1	24.6
70°-80°	744.4	12.6
80°-90°	95.1	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°	5911.0	100.0
0°-180°	5911.0	100.0

Coefficient of Utilization



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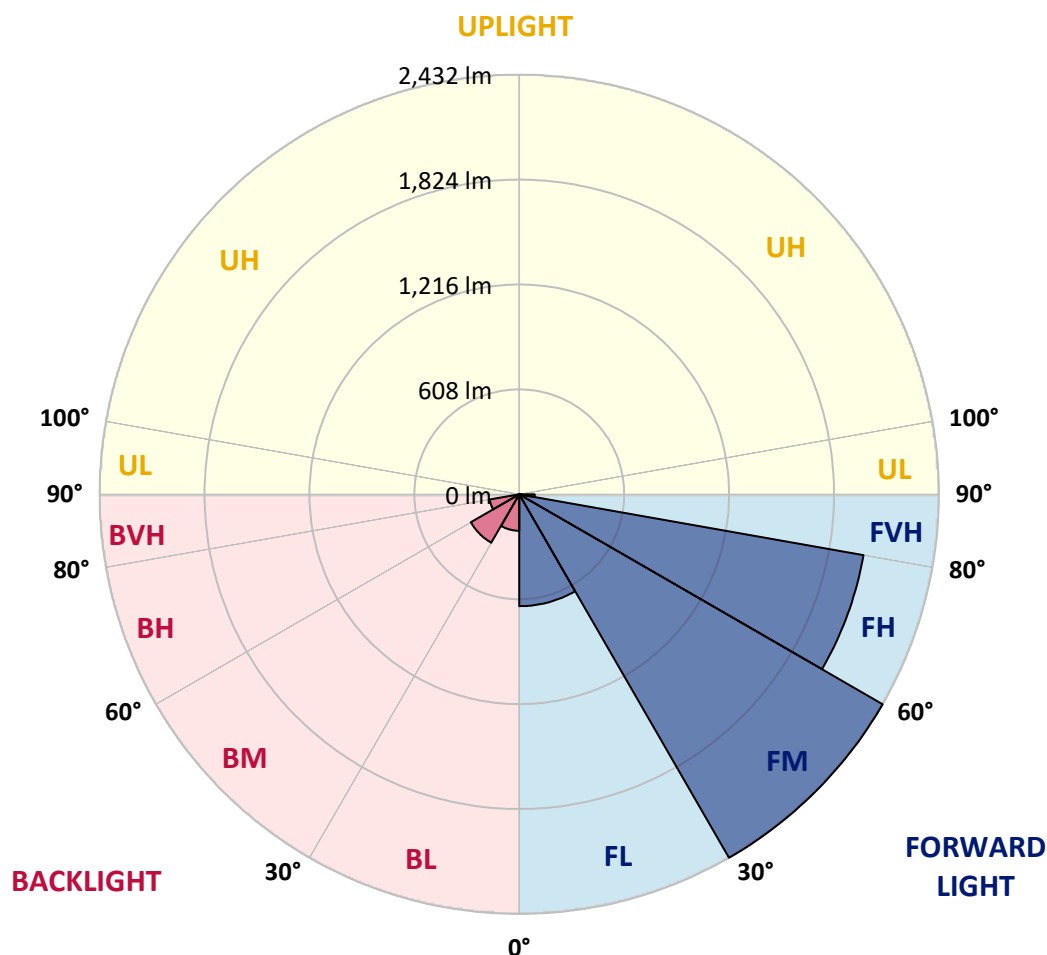
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	648.3	11.0			
FM	(30°-60°)	2431.9	41.1			
FH	(60°-80°)	2026.1	34.3			G2/5000
FVH	(80°-90°)	89.3	1.5			G1/100
BL	(0°-30°)	211.3	3.6	B1/500		
BM	(30°-60°)	324.0	5.5	B1/1000		
BH	(60°-80°)	174.4	2.9	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5
2.5°	2108.4	2092.1	2074.2	2015.7	1961.3	1899.2	1848.5	1813.2	1769.0	1711.6	1697.0
5°	2093.2	2075.9	2019.6	1889.4	1775.4	1664.5	1557.5	1494.8	1417.0	1338.0	1318.4
7.5°	1941.2	1923.0	1841.8	1663.4	1509.9	1349.8	1210.9	1124.9	1037.0	964.7	926.3
10°	1783.0	1763.1	1671.8	1455.3	1266.3	1121.5	1019.6	937.5	854.4	777.1	715.5
12.5°	1674.0	1648.0	1548.9	1303.5	1138.9	1040.6	945.4	847.1	734.5	651.6	583.9
15°	1628.4	1598.7	1494.0	1245.0	1093.8	978.4	854.4	733.7	601.8	506.9	444.7
17.5°	1663.7	1625.0	1512.7	1241.1	1037.2	880.1	723.3	581.6	438.5	342.5	298.2
20°	1783.5	1732.8	1590.3	1240.0	968.6	763.4	564.5	404.4	289.0	232.4	209.2
22.5°	1972.3	1905.3	1701.8	1248.9	897.8	640.7	407.7	274.7	217.0	187.6	173.9
25°	2200.2	2122.6	1862.2	1280.6	835.6	521.4	296.3	217.0	183.1	161.6	150.1
27.5°	2417.0	2353.9	2065.0	1326.2	787.4	425.1	240.5	184.0	156.5	142.3	133.0
30°	2633.4	2554.2	2273.0	1380.6	729.5	359.8	211.4	167.7	140.3	125.2	119.3
32.5°	2790.8	2725.0	2436.0	1419.8	667.6	317.3	189.0	153.5	131.1	115.7	107.0
35°	2975.9	2901.4	2575.7	1428.4	627.8	290.4	170.0	138.1	113.7	100.0	90.7
37.5°	3175.8	3083.1	2737.0	1409.4	596.7	277.2	155.7	131.1	106.1	92.1	82.3
40°	3397.1	3292.3	2891.9	1382.0	566.2	272.8	144.8	125.7	100.3	86.0	75.9
42.5°	3630.0	3506.6	3026.0	1353.1	546.9	257.3	143.7	120.4	95.8	80.4	70.3
45°	3825.8	3700.6	3163.8	1343.6	533.2	240.5	148.4	116.8	92.7	75.9	66.1
47.5°	3981.8	3863.3	3304.9	1364.9	525.3	225.1	135.3	121.5	91.0	72.0	62.4
50°	4168.0	4033.9	3503.8	1428.4	513.9	209.7	122.4	139.2	91.0	69.4	59.4
52.5°	4401.5	4268.8	3725.5	1527.0	490.9	188.5	110.1	139.5	91.9	66.1	55.4
55°	4695.3	4599.0	4042.3	1635.1	454.2	157.1	95.2	119.9	88.5	59.9	51.8
57.5°	4977.0	4898.3	4331.0	1709.0	405.2	122.7	82.9	96.6	80.9	52.6	46.2
59°	5054.0	4968.0	4436.8	1712.4	368.5	107.0	76.7	79.8	79.2	49.3	42.8
60°	5054.0	4962.7	4467.3	1694.5	341.9	98.3	72.8	71.1	82.6	47.0	40.9
62.5°	4962.4	4834.2	4368.2	1573.2	278.9	83.7	63.6	58.8	74.2	42.3	36.1
65°	4772.0	4585.2	4030.5	1354.0	248.7	76.7	54.9	48.2	51.5	37.2	31.6
67.5°	4454.5	4201.3	3543.5	1093.8	236.6	74.8	47.3	40.9	38.9	31.9	27.7
70°	3895.2	3614.4	2952.4	860.0	226.3	73.9	39.8	34.4	31.4	26.9	23.5
72.5°	2835.0	2542.1	2096.0	672.4	220.1	75.6	31.9	28.8	25.8	21.0	18.2
75°	1621.7	1429.8	1178.1	444.1	187.6	72.2	24.6	24.1	18.5	15.1	12.6
77.5°	837.9	812.4	706.0	170.5	89.9	31.6	16.2	14.0	10.9	9.2	7.6
80°	361.5	357.6	309.4	49.3	23.8	17.6	9.2	5.9	5.0	3.9	3.1
82.5°	124.9	124.9	110.1	16.5	10.6	8.7	1.1	0.0	0.0	0.0	0.0
85°	25.2	28.3	19.9	0.0	3.6	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°	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5
2.5°	1679.3	1645.5	1643.2	1621.9	1595.3	1583.3	1576.3	1588.6	1603.7	1605.4	1628.1
5°	1303.5	1268.0	1282.8	1245.0	1252.6	1245.0	1232.7	1234.9	1241.7	1220.7	1246.7
7.5°	915.4	888.5	905.6	895.5	909.0	914.3	906.7	895.5	862.5	858.6	881.3
10°	690.0	659.5	641.3	622.2	626.4	635.1	632.3	624.2	603.2	604.3	626.2
12.5°	554.5	520.3	484.2	437.4	425.9	432.4	425.9	421.2	401.0	402.7	422.0
15°	420.6	392.6	354.8	317.3	296.8	298.8	280.9	268.3	255.7	240.5	252.3
17.5°	284.0	266.9	255.7	244.5	220.1	214.5	191.8	167.5	157.9	150.9	156.0
20°	201.1	191.8	187.3	186.8	172.8	165.8	143.7	128.5	123.8	122.4	125.5
22.5°	168.0	161.3	154.9	151.2	144.2	136.1	119.3	111.7	108.4	106.7	108.9
25°	146.2	141.1	134.4	128.3	125.5	116.8	104.7	99.1	96.9	95.2	96.3
27.5°	129.9	125.5	117.6	113.7	111.5	103.9	93.5	89.1	87.1	86.5	86.2
30°	117.1	112.9	105.6	101.1	97.2	90.5	84.3	79.8	77.8	77.3	76.7
32.5°	104.2	100.8	96.1	91.6	87.4	81.2	75.9	72.2	69.2	68.6	68.3
35°	87.9	84.6	82.0	81.8	77.8	72.0	68.0	63.3	60.8	59.9	60.2
37.5°	78.1	73.6	68.0	70.0	68.9	64.7	59.4	54.6	52.1	51.5	51.5
40°	72.0	67.2	60.8	57.4	60.8	59.9	51.5	46.8	44.2	44.0	43.4
42.5°	66.1	61.3	54.0	48.4	50.1	52.6	44.5	40.0	37.5	37.0	36.1
45°	61.9	56.8	48.7	42.3	38.9	44.2	38.1	32.5	31.1	30.0	29.4
47.5°	58.0	53.2	44.0	36.7	31.1	31.9	30.5	26.6	24.9	23.8	23.5
50°	54.6	49.6	39.8	31.4	25.8	23.5	24.6	21.0	19.6	18.5	17.9
52.5°	50.7	45.9	35.3	27.2	21.6	18.5	18.8	16.5	15.1	14.3	14.0
55°	47.6	42.8	31.6	23.8	19.0	15.1	13.4	12.9	12.0	11.5	11.2
57.5°	43.4	38.9	28.0	20.2	16.2	12.3	10.4	10.4	10.1	9.5	9.2
59°	40.9	37.0	25.8	18.2	14.8	10.6	9.2	9.5	9.2	8.7	8.4
60°	38.9	35.3	24.1	16.8	14.0	9.8	8.4	9.0	8.7	8.1	7.8
62.5°	34.4	31.9	20.7	14.0	12.3	7.8	7.0	7.6	7.6	7.3	7.0
65°	30.2	27.4	17.6	11.8	11.5	6.7	5.6	6.7	7.0	6.4	5.9
67.5°	26.3	23.5	15.4	9.5	10.6	5.3	4.2	5.6	7.6	5.9	5.3
70°	22.4	19.6	12.0	7.6	11.2	3.6	3.4	5.0	9.0	6.4	5.0
72.5°	17.4	15.1	8.4	5.6	12.0	2.5	2.5	4.2	10.1	7.0	4.8
75°	12.0	9.8	5.0	3.4	9.8	1.7	1.7	3.9	9.5	6.4	4.5
77.5°	7.0	5.3	1.7	0.3	5.0	0.0	0.3	2.8	6.7	3.9	2.0
80°	2.5	1.1	0.0	0.0	3.1	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°	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5
2.5°	1634.0	1671.8	1705.7	1756.9	1817.7	1887.7	1947.9	2012.6	2073.4	2098.6	2115.9
5°	1252.0	1298.8	1353.4	1428.7	1529.0	1652.5	1768.1	1898.9	2039.5	2109.8	2175.8
7.5°	885.2	932.8	1000.6	1080.6	1201.9	1348.9	1500.1	1680.7	1871.2	1982.3	2091.8
10°	636.5	695.0	758.3	867.8	991.0	1130.5	1286.2	1487.8	1700.1	1823.3	1955.2
12.5°	433.2	499.9	595.6	718.3	863.1	999.7	1135.0	1327.3	1573.8	1695.9	1837.3
15°	259.9	296.8	398.2	540.2	717.7	888.0	1036.1	1229.1	1491.7	1641.3	1788.3
17.5°	160.2	177.3	232.4	348.9	535.4	750.8	953.8	1195.7	1503.5	1685.5	1842.9
20°	127.7	134.4	152.1	206.1	354.8	599.5	861.1	1189.0	1599.5	1823.6	1992.4
22.5°	110.9	117.3	129.1	149.8	223.2	448.9	773.2	1195.2	1737.3	2030.5	2227.7
25°	97.7	103.3	114.5	131.6	163.5	316.2	679.1	1222.6	1916.8	2287.3	2496.8
27.5°	87.4	92.1	102.5	118.2	140.3	220.7	572.4	1255.9	2129.6	2550.0	2756.6
30°	77.8	82.0	91.3	105.9	121.8	169.7	455.3	1278.6	2342.7	2756.6	2942.3
32.5°	69.7	72.8	81.2	93.5	105.9	135.3	346.1	1275.0	2501.0	2928.6	3075.9
35°	61.3	64.4	71.7	82.3	92.1	111.7	272.2	1206.9	2638.7	3107.0	3228.8
37.5°	52.1	56.0	63.0	72.5	79.2	98.3	220.1	1124.9	2778.5	3310.8	3399.3
40°	44.2	48.2	54.3	64.7	68.9	93.3	169.1	1024.9	2935.6	3538.8	3586.4
42.5°	36.7	40.3	46.8	55.7	65.0	80.4	125.2	910.7	3086.5	3733.7	3756.9
45°	29.7	33.3	40.0	49.0	69.4	66.6	96.9	788.3	3208.3	3895.8	3903.4
47.5°	23.5	26.9	33.9	46.2	64.7	53.2	69.2	692.2	3310.5	4022.4	4002.5
50°	18.2	21.0	28.3	52.9	56.6	44.0	52.4	660.3	3402.1	4100.8	4049.3
52.5°	14.3	16.8	23.2	49.6	44.0	36.4	44.0	690.3	3527.6	4165.8	4075.6
55°	11.5	14.0	18.2	28.3	30.0	30.8	37.5	718.3	3744.0	4318.1	4231.0
57.5°	9.5	12.0	14.8	19.9	22.7	26.0	33.3	721.4	3999.1	4571.2	4488.9
59°	8.7	10.9	13.4	17.6	19.9	23.8	31.4	704.6	4089.0	4663.4	4622.2
60°	8.1	10.4	12.6	16.2	18.5	22.4	30.2	688.6	4092.9	4660.0	4679.0
62.5°	7.0	9.2	11.2	13.7	15.7	19.0	27.2	629.5	3927.2	4507.4	4644.9
65°	6.2	8.1	10.1	11.8	13.4	17.1	24.6	521.7	3644.1	4261.2	4411.1
67.5°	5.6	7.0	9.2	10.4	12.0	15.1	21.8	371.9	3290.4	3960.2	4057.4
70°	5.0	6.7	8.4	9.5	10.9	13.2	18.8	213.7	2778.5	3519.4	3588.6
72.5°	4.8	6.4	7.6	9.0	9.8	11.8	17.1	100.5	2034.4	2819.4	3000.0
75°	4.2	5.9	7.0	8.4	9.2	10.6	14.6	48.2	1353.1	2040.3	2245.6
77.5°	2.5	4.8	6.4	7.6	8.1	9.2	12.0	27.7	863.6	1412.2	1663.4
80°	0.0	1.7	4.8	6.4	7.0	7.8	9.2	21.8	462.1	806.8	968.3
82.5°	0.0	0.0	3.4	5.0	4.8	5.3	7.0	13.7	208.3	527.3	594.2
85°	0.0	0.0	1.1	3.9	3.4	2.5	4.8	4.8	45.6	266.9	333.0
87.5°	0.0	0.0	0.0	0.3	1.7	1.1	2.0	0.6	0.3	19.9	80.6
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°	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5	1925.5
2.5°	2176.7	2197.4	2232.4	2248.9	2240.8	2206.4	2165.2	2123.2	2098.6	2108.4
5°	2310.5	2417.2	2478.8	2499.3	2465.1	2387.8	2286.7	2153.4	2106.1	2093.2
7.5°	2310.5	2511.3	2638.5	2660.9	2584.7	2433.2	2243.6	2035.5	1966.4	1941.2
10°	2229.3	2502.6	2679.9	2715.5	2609.1	2382.5	2128.5	1891.1	1809.0	1783.0
12.5°	2137.8	2432.1	2618.9	2667.9	2580.5	2332.1	2048.7	1793.3	1696.7	1674.0
15°	2081.5	2345.3	2499.8	2535.4	2498.4	2302.7	2029.7	1763.9	1650.2	1628.4
17.5°	2101.6	2278.1	2333.8	2354.5	2379.4	2292.3	2081.5	1828.3	1684.4	1663.7
20°	2177.5	2207.2	2178.4	2204.4	2271.6	2302.4	2205.0	1984.0	1811.2	1783.5
22.5°	2306.3	2170.5	2089.6	2100.0	2181.7	2335.7	2393.7	2206.4	2007.0	1972.3
25°	2456.4	2200.2	2040.3	2031.1	2115.1	2379.7	2566.2	2448.3	2238.6	2200.2
27.5°	2645.2	2266.9	2030.2	2021.0	2091.8	2420.9	2709.6	2687.5	2482.5	2417.0
30°	2790.8	2332.4	2060.2	2038.9	2115.1	2449.4	2824.7	2890.5	2676.8	2633.4
32.5°	2895.2	2409.7	2108.9	2078.1	2180.6	2498.7	2913.4	3076.4	2856.6	2790.8
35°	2974.8	2493.7	2187.6	2136.9	2270.8	2573.5	2996.6	3274.4	3047.9	2975.9
37.5°	3049.3	2611.6	2310.5	2250.1	2412.2	2693.9	3084.5	3499.0	3261.8	3175.8
40°	3153.2	2745.1	2500.1	2446.4	2649.9	2858.0	3194.3	3733.1	3505.2	3397.1
42.5°	3257.0	2888.5	2694.2	2708.7	2946.5	3057.4	3336.0	3980.6	3745.4	3630.0
45°	3352.0	3036.4	2970.6	3037.8	3221.8	3276.1	3476.9	4123.7	3937.2	3825.8
47.5°	3436.5	3221.2	3245.3	3424.2	3534.8	3474.1	3582.2	4247.2	4080.1	3981.8
50°	3534.8	3460.4	3607.4	3860.5	3895.2	3653.3	3677.9	4393.4	4247.0	4168.0
52.5°	3642.4	3712.4	4008.4	4231.6	4220.4	3847.9	3774.3	4557.2	4475.7	4401.5
55°	3764.5	3916.0	4361.5	4578.8	4569.3	4065.2	3933.9	4759.7	4762.5	4695.3
57.5°	3945.6	4091.3	4601.2	4859.7	4875.6	4316.1	4204.4	4986.5	5021.8	4977.0
59°	4075.6	4205.0	4696.1	4977.0	5042.0	4510.2	4402.1	5118.1	5094.9	5054.0
60°	4171.9	4277.2	4743.2	5038.3	5138.6	4641.8	4548.0	5195.4	5103.6	5054.0
62.5°	4410.2	4434.6	4828.0	5107.8	5249.8	4934.2	4958.5	5327.0	5043.4	4962.4
65°	4521.4	4534.0	4826.9	4983.4	5142.2	5161.8	5331.0	5331.0	4896.4	4772.0
67.5°	4474.9	4414.1	4587.5	4571.2	4729.7	5026.6	5471.0	5135.5	4615.2	4454.5
70°	4096.9	3863.0	3786.0	3793.0	3914.3	4372.1	5193.7	4560.3	4083.1	3895.2
72.5°	3408.8	2847.9	2657.8	2874.8	2906.4	3360.1	4426.2	3434.3	3011.2	2835.0
75°	2741.8	2007.5	1698.4	1927.5	1981.2	2459.0	3423.9	2138.9	1758.9	1621.7
77.5°	1969.7	1441.0	1218.7	1202.7	1272.2	1559.5	2429.6	1076.4	897.8	837.9
80°	1119.0	948.5	1021.3	963.6	998.6	975.1	1154.3	472.1	386.7	361.5
82.5°	675.4	560.6	607.1	505.5	639.6	557.0	444.7	151.2	131.3	124.9
85°	439.4	306.4	159.6	107.0	220.4	355.9	99.4	41.2	31.6	25.2
87.5°	151.5	78.1	7.8	3.4	23.5	66.4	3.6	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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