

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: P324415

Luminaire Tested: **GAN-SA1D-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324415
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-SA1D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 5036 lumens
Efficiency: N/A
Efficacy: 75.2 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

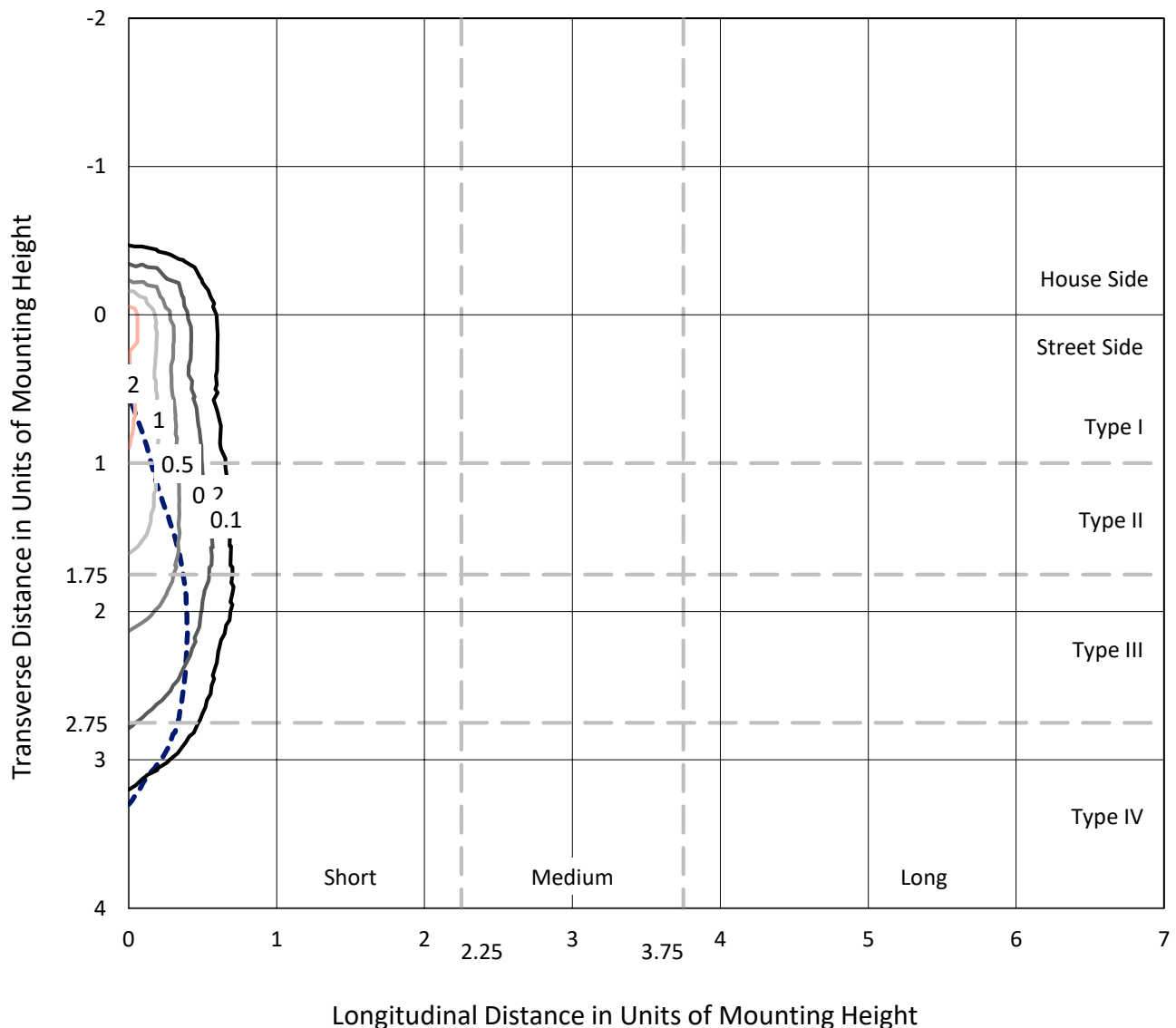
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

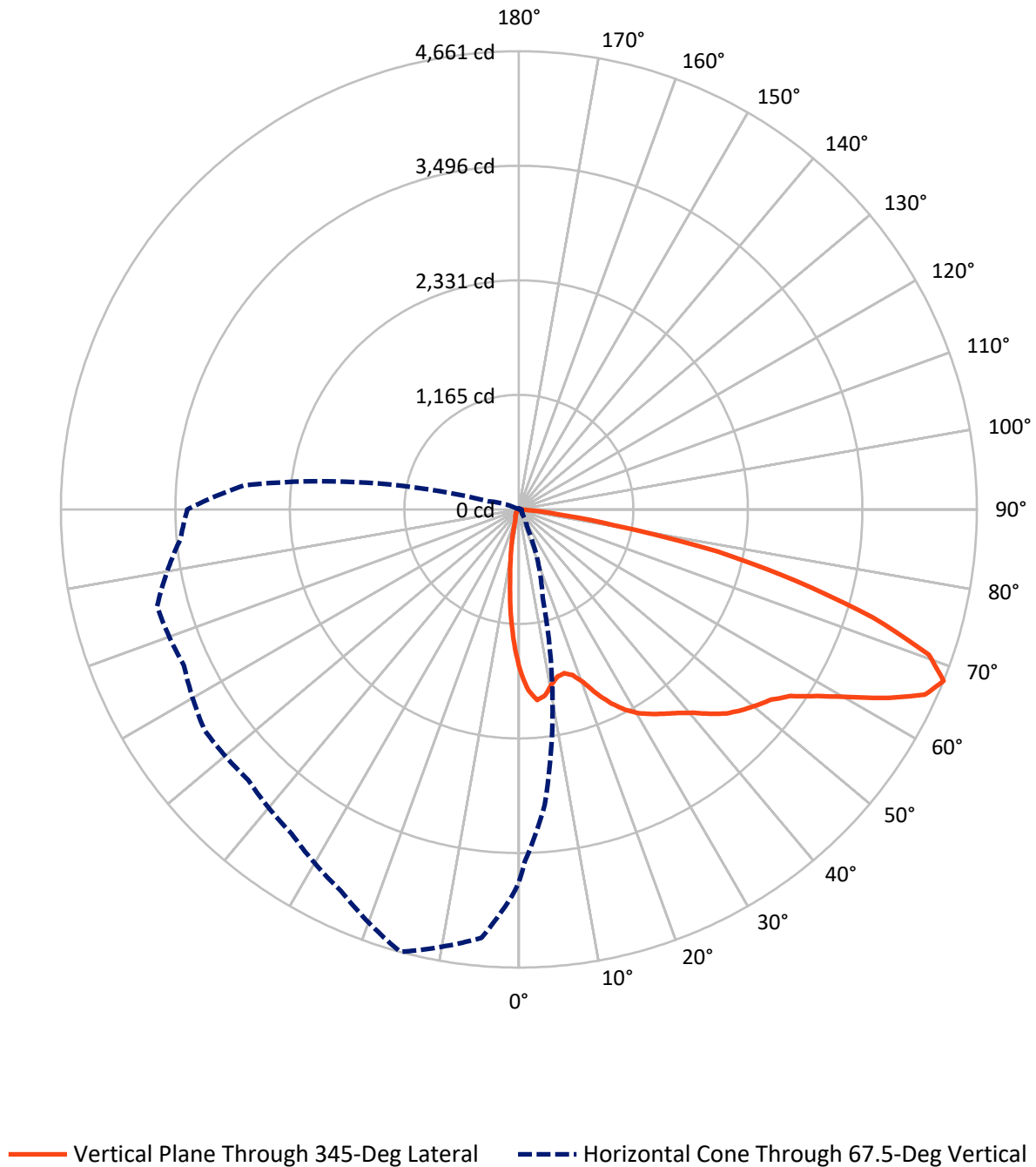
× Max cd
 - - - 1/2 Max cd



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



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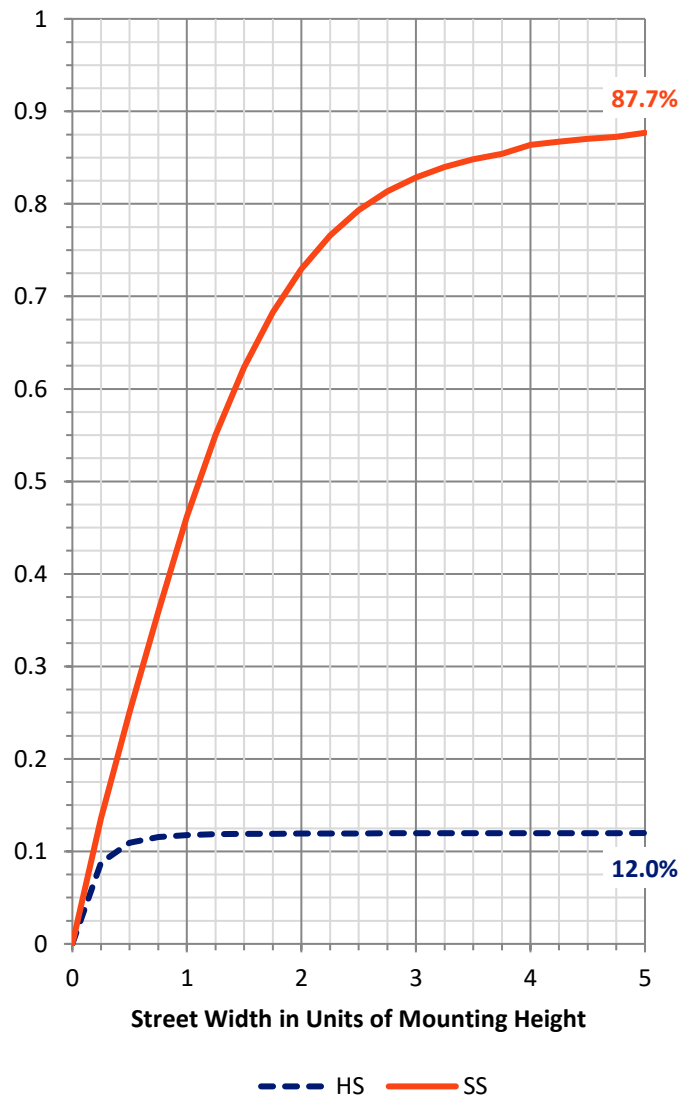
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	609.5	0.0	609.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4426.5	0.0	4426.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	5036.0	0.0	5036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	2.5
10°-20°	250.6	5.0
20°-30°	355.9	7.1
30°-40°	525.6	10.4
40°-50°	758.1	15.1
50°-60°	1064.2	21.1
60°-70°	1240.5	24.6
70°-80°	634.2	12.6
80°-90°	81.0	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°	5036.0	100.0
0°-180°	5036.0	100.0

Coefficient of Utilization



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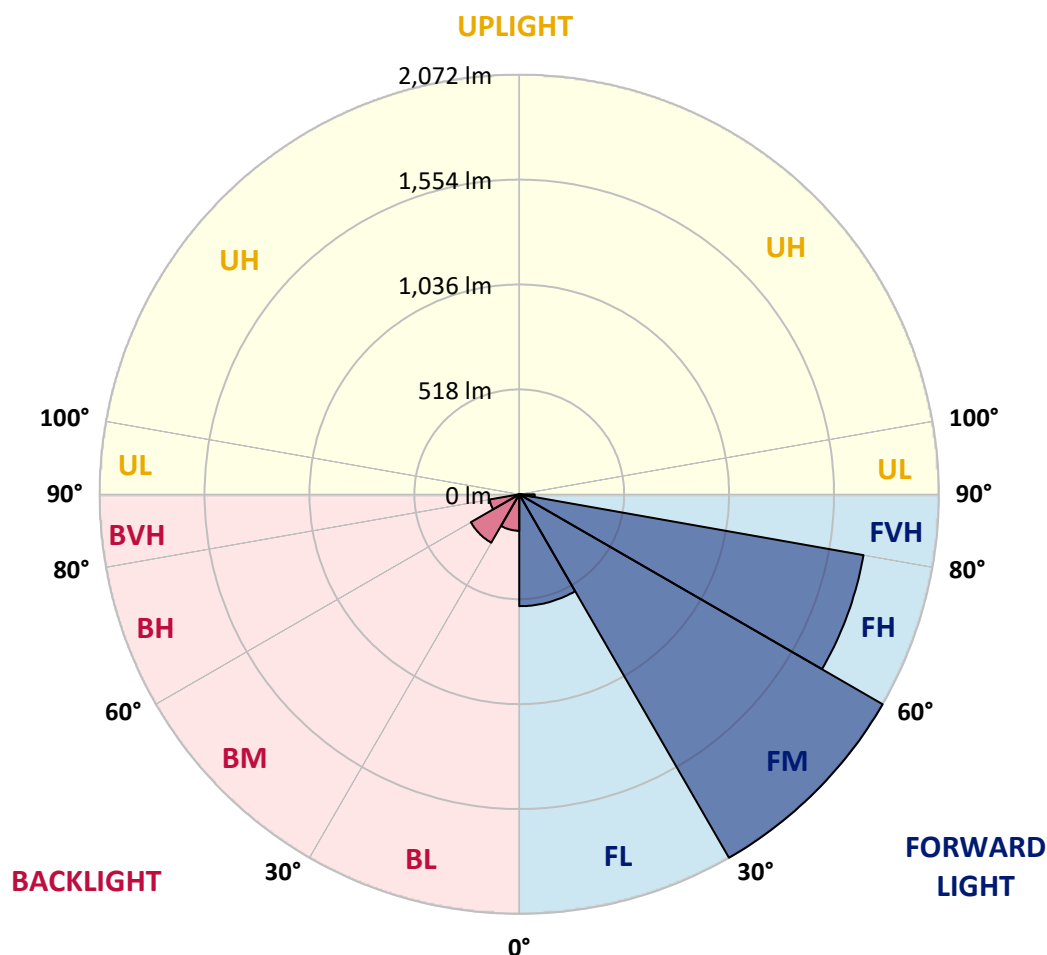
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.4	11.0			
FM	(30°-60°)	2071.9	41.1			
FH	(60°-80°)	1726.2	34.3			G1/1800
FVH	(80°-90°)	76.1	1.5			G1/100
BL	(0°-30°)	180.0	3.6	B1/500		
BM	(30°-60°)	276.0	5.5	B1/1000		
BH	(60°-80°)	148.6	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°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5
2.5°	1796.3	1782.4	1767.2	1717.3	1671.0	1618.0	1574.9	1544.8	1507.1	1458.2	1445.8
5°	1783.4	1768.6	1720.6	1609.7	1512.6	1418.1	1327.0	1273.5	1207.2	1139.9	1123.2
7.5°	1653.8	1638.3	1569.1	1417.2	1286.4	1149.9	1031.6	958.4	883.5	821.9	789.2
10°	1519.0	1502.1	1424.3	1239.9	1078.9	955.5	868.7	798.8	727.9	662.1	609.6
12.5°	1426.2	1404.0	1319.6	1110.6	970.3	886.6	805.4	721.7	625.8	555.2	497.4
15°	1387.3	1362.0	1272.8	1060.7	931.9	833.6	727.9	625.1	512.7	431.8	378.9
17.5°	1417.4	1384.5	1288.8	1057.4	883.7	749.9	616.2	495.5	373.6	291.8	254.1
20°	1519.5	1476.3	1354.9	1056.4	825.2	650.4	481.0	344.5	246.2	198.0	178.2
22.5°	1680.3	1623.3	1449.8	1064.1	764.9	545.9	347.4	234.0	184.9	159.8	148.2
25°	1874.5	1808.4	1586.5	1091.0	711.9	444.2	252.4	184.9	156.0	137.7	127.9
27.5°	2059.2	2005.5	1759.3	1129.9	670.9	362.2	204.9	156.7	133.4	121.2	113.3
30°	2243.6	2176.1	1936.5	1176.2	621.5	306.6	180.1	142.9	119.5	106.6	101.6
32.5°	2377.7	2321.6	2075.4	1209.6	568.8	270.3	161.0	130.7	111.7	98.5	91.1
35°	2535.4	2471.9	2194.4	1217.0	534.9	247.4	144.8	117.6	96.9	85.2	77.3
37.5°	2705.7	2626.8	2331.9	1200.8	508.4	236.2	132.6	111.7	90.4	78.5	70.1
40°	2894.2	2805.0	2463.8	1177.4	482.4	232.4	123.3	107.1	85.4	73.2	64.7
42.5°	3092.7	2987.5	2578.1	1152.8	465.9	219.3	122.4	102.6	81.6	68.5	59.9
45°	3259.5	3152.8	2695.5	1144.7	454.3	204.9	126.4	99.5	79.0	64.7	56.3
47.5°	3392.4	3291.4	2815.7	1162.8	447.6	191.8	115.2	103.5	77.5	61.3	53.2
50°	3551.0	3436.7	2985.1	1217.0	437.8	178.7	104.3	118.6	77.5	59.2	50.6
52.5°	3750.0	3636.9	3174.1	1301.0	418.2	160.6	93.8	118.8	78.3	56.3	47.2
55°	4000.3	3918.2	3443.9	1393.1	387.0	133.8	81.1	102.1	75.4	51.1	44.1
57.5°	4240.3	4173.2	3689.9	1456.0	345.2	104.5	70.6	82.3	68.9	44.9	39.4
59°	4305.9	4232.6	3780.0	1458.9	314.0	91.1	65.4	68.0	67.5	42.0	36.5
60°	4305.9	4228.1	3806.0	1443.6	291.3	83.7	62.0	60.6	70.4	40.1	34.8
62.5°	4227.9	4118.6	3721.6	1340.3	237.6	71.3	54.2	50.1	63.2	36.0	30.8
65°	4065.6	3906.5	3433.9	1153.5	211.9	65.4	46.8	41.0	43.9	31.7	27.0
67.5°	3795.1	3579.4	3019.0	931.9	201.6	63.7	40.3	34.8	33.2	27.2	23.6
70°	3318.6	3079.3	2515.3	732.7	192.8	63.0	33.9	29.3	26.7	22.9	20.0
72.5°	2415.4	2165.8	1785.8	572.8	187.5	64.4	27.2	24.6	21.9	17.9	15.5
75°	1381.6	1218.2	1003.7	378.4	159.8	61.6	21.0	20.5	15.7	12.9	10.7
77.5°	713.8	692.1	601.5	145.3	76.6	27.0	13.8	11.9	9.3	7.9	6.4
80°	308.0	304.7	263.6	42.0	20.3	15.0	7.9	5.0	4.3	3.3	2.6
82.5°	106.4	106.4	93.8	14.1	9.1	7.4	1.0	0.0	0.0	0.0	0.0
85°	21.5	24.1	16.9	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°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5
2.5°	1430.8	1401.9	1400.0	1381.8	1359.2	1348.9	1343.0	1353.5	1366.3	1367.8	1387.1
5°	1110.6	1080.3	1092.9	1060.7	1067.2	1060.7	1050.2	1052.1	1057.9	1040.0	1062.2
7.5°	779.9	757.0	771.6	763.0	774.4	779.0	772.5	763.0	734.8	731.5	750.8
10°	587.9	561.9	546.3	530.1	533.7	541.1	538.7	531.8	513.9	514.9	533.5
12.5°	472.4	443.3	412.5	372.7	362.9	368.4	362.9	358.8	341.6	343.1	359.5
15°	358.3	334.5	302.3	270.3	252.9	254.6	239.3	228.6	217.8	204.9	215.0
17.5°	241.9	227.4	217.8	208.3	187.5	182.8	163.4	142.7	134.6	128.6	132.9
20°	171.3	163.4	159.6	159.1	147.2	141.2	122.4	109.5	105.5	104.3	106.9
22.5°	143.1	137.4	131.9	128.8	122.9	115.9	101.6	95.2	92.3	90.9	92.8
25°	124.5	120.2	114.5	109.3	106.9	99.5	89.2	84.5	82.5	81.1	82.1
27.5°	110.7	106.9	100.2	96.9	95.0	88.5	79.7	75.9	74.2	73.7	73.5
30°	99.7	96.1	89.9	86.1	82.8	77.1	71.8	68.0	66.3	65.8	65.4
32.5°	88.8	85.9	81.8	78.0	74.4	69.2	64.7	61.6	58.9	58.5	58.2
35°	74.9	72.1	69.9	69.7	66.3	61.3	58.0	53.9	51.8	51.1	51.3
37.5°	66.6	62.7	58.0	59.6	58.7	55.1	50.6	46.5	44.4	43.9	43.9
40°	61.3	57.3	51.8	48.9	51.8	51.1	43.9	39.8	37.7	37.5	37.0
42.5°	56.3	52.2	46.0	41.3	42.7	44.9	37.9	34.1	32.0	31.5	30.8
45°	52.7	48.4	41.5	36.0	33.2	37.7	32.4	27.7	26.5	25.5	25.1
47.5°	49.4	45.3	37.5	31.3	26.5	27.2	26.0	22.7	21.2	20.3	20.0
50°	46.5	42.2	33.9	26.7	21.9	20.0	21.0	17.9	16.7	15.7	15.3
52.5°	43.2	39.1	30.1	23.1	18.4	15.7	16.0	14.1	12.9	12.2	11.9
55°	40.6	36.5	27.0	20.3	16.2	12.9	11.5	11.0	10.3	9.8	9.5
57.5°	37.0	33.2	23.9	17.2	13.8	10.5	8.8	8.8	8.6	8.1	7.9
59°	34.8	31.5	21.9	15.5	12.6	9.1	7.9	8.1	7.9	7.4	7.2
60°	33.2	30.1	20.5	14.3	11.9	8.4	7.2	7.6	7.4	6.9	6.7
62.5°	29.3	27.2	17.7	11.9	10.5	6.7	6.0	6.4	6.4	6.2	6.0
65°	25.8	23.4	15.0	10.0	9.8	5.7	4.8	5.7	6.0	5.5	5.0
67.5°	22.4	20.0	13.1	8.1	9.1	4.5	3.6	4.8	6.4	5.0	4.5
70°	19.1	16.7	10.3	6.4	9.5	3.1	2.9	4.3	7.6	5.5	4.3
72.5°	14.8	12.9	7.2	4.8	10.3	2.1	2.1	3.6	8.6	6.0	4.1
75°	10.3	8.4	4.3	2.9	8.4	1.4	1.4	3.3	8.1	5.5	3.8
77.5°	6.0	4.5	1.4	0.2	4.3	0.0	0.2	2.4	5.7	3.3	1.7
80°	2.1	1.0	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°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5
2.5°	1392.1	1424.3	1453.2	1496.8	1548.6	1608.3	1659.6	1714.7	1766.4	1787.9	1802.7
5°	1066.7	1106.5	1153.1	1217.2	1302.6	1407.9	1506.4	1617.8	1737.6	1797.5	1853.8
7.5°	754.1	794.7	852.4	920.7	1024.0	1149.2	1278.1	1431.9	1594.2	1688.9	1782.2
10°	542.3	592.2	646.1	739.4	844.3	963.1	1095.8	1267.6	1448.4	1553.4	1665.8
12.5°	369.1	425.9	507.5	612.0	735.3	851.7	967.0	1130.9	1340.8	1444.8	1565.3
15°	221.4	252.9	339.3	460.2	611.5	756.5	882.7	1047.1	1270.9	1398.3	1523.6
17.5°	136.5	151.0	198.0	297.3	456.2	639.6	812.6	1018.7	1280.9	1436.0	1570.1
20°	108.8	114.5	129.5	175.6	302.3	510.8	733.6	1013.0	1362.8	1553.6	1697.5
22.5°	94.5	100.0	110.0	127.6	190.1	382.4	658.7	1018.3	1480.1	1729.9	1897.9
25°	83.3	88.0	97.6	112.1	139.3	269.4	578.6	1041.6	1633.1	1948.7	2127.2
27.5°	74.4	78.5	87.3	100.7	119.5	188.0	487.7	1070.0	1814.4	2172.5	2348.6
30°	66.3	69.9	77.8	90.2	103.8	144.6	387.9	1089.4	1996.0	2348.6	2506.7
32.5°	59.4	62.0	69.2	79.7	90.2	115.2	294.9	1086.2	2130.7	2495.1	2620.5
35°	52.2	54.9	61.1	70.1	78.5	95.2	231.9	1028.3	2248.1	2647.0	2750.8
37.5°	44.4	47.7	53.7	61.8	67.5	83.7	187.5	958.4	2367.2	2820.7	2896.1
40°	37.7	41.0	46.3	55.1	58.7	79.4	144.1	873.2	2501.0	3014.9	3055.5
42.5°	31.3	34.4	39.8	47.5	55.4	68.5	106.6	775.9	2629.6	3181.0	3200.8
45°	25.3	28.4	34.1	41.8	59.2	56.8	82.5	671.6	2733.4	3319.1	3325.5
47.5°	20.0	22.9	28.9	39.4	55.1	45.3	58.9	589.8	2820.5	3426.9	3410.0
50°	15.5	17.9	24.1	45.1	48.2	37.5	44.6	562.6	2898.5	3493.7	3449.8
52.5°	12.2	14.3	19.8	42.2	37.5	31.0	37.5	588.1	3005.4	3549.1	3472.3
55°	9.8	11.9	15.5	24.1	25.5	26.2	32.0	612.0	3189.8	3678.9	3604.7
57.5°	8.1	10.3	12.6	16.9	19.3	22.2	28.4	614.6	3407.1	3894.6	3824.4
59°	7.4	9.3	11.5	15.0	16.9	20.3	26.7	600.3	3483.7	3973.1	3938.0
60°	6.9	8.8	10.7	13.8	15.7	19.1	25.8	586.7	3487.1	3970.2	3986.4
62.5°	6.0	7.9	9.5	11.7	13.4	16.2	23.1	536.3	3345.8	3840.2	3957.3
65°	5.2	6.9	8.6	10.0	11.5	14.6	21.0	444.5	3104.6	3630.5	3758.1
67.5°	4.8	6.0	7.9	8.8	10.3	12.9	18.6	316.8	2803.3	3374.0	3456.8
70°	4.3	5.7	7.2	8.1	9.3	11.2	16.0	182.0	2367.2	2998.5	3057.4
72.5°	4.1	5.5	6.4	7.6	8.4	10.0	14.6	85.6	1733.3	2402.0	2555.9
75°	3.6	5.0	6.0	7.2	7.9	9.1	12.4	41.0	1152.8	1738.3	1913.2
77.5°	2.1	4.1	5.5	6.4	6.9	7.9	10.3	23.6	735.8	1203.2	1417.2
80°	0.0	1.4	4.1	5.5	6.0	6.7	7.9	18.6	393.7	687.3	825.0
82.5°	0.0	0.0	2.9	4.3	4.1	4.5	6.0	11.7	177.5	449.2	506.3
85°	0.0	0.0	1.0	3.3	2.9	2.1	4.1	4.1	38.9	227.4	283.7
87.5°	0.0	0.0	0.0	0.2	1.4	1.0	1.7	0.5	0.2	16.9	68.7
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°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5
2.5°	1854.5	1872.1	1902.0	1916.0	1909.1	1879.8	1844.7	1808.9	1787.9	1796.3
5°	1968.5	2059.4	2111.9	2129.3	2100.2	2034.4	1948.2	1834.7	1794.4	1783.4
7.5°	1968.5	2139.6	2247.9	2267.0	2202.1	2073.0	1911.5	1734.2	1675.3	1653.8
10°	1899.3	2132.2	2283.2	2313.5	2222.8	2029.8	1813.4	1611.1	1541.2	1519.0
12.5°	1821.3	2072.1	2231.2	2272.9	2198.5	1986.9	1745.4	1527.9	1445.5	1426.2
15°	1773.4	1998.1	2129.8	2160.1	2128.6	1961.8	1729.2	1502.8	1405.9	1387.3
17.5°	1790.5	1940.8	1988.3	2006.0	2027.2	1953.0	1773.4	1557.7	1435.1	1417.4
20°	1855.2	1880.5	1855.9	1878.1	1935.4	1961.6	1878.6	1690.3	1543.1	1519.5
22.5°	1964.9	1849.2	1780.3	1789.1	1858.8	1990.0	2039.4	1879.8	1709.9	1680.3
25°	2092.8	1874.5	1738.3	1730.4	1802.0	2027.4	2186.3	2085.9	1907.2	1874.5
27.5°	2253.6	1931.3	1729.7	1721.8	1782.2	2062.5	2308.5	2289.6	2115.0	2059.2
30°	2377.7	1987.1	1755.2	1737.1	1802.0	2086.8	2406.5	2462.6	2280.6	2243.6
32.5°	2466.7	2053.0	1796.7	1770.5	1857.8	2128.8	2482.2	2621.0	2433.7	2377.7
35°	2534.4	2124.5	1863.8	1820.6	1934.6	2192.5	2553.0	2789.7	2596.7	2535.4
37.5°	2597.9	2225.0	1968.5	1917.0	2055.1	2295.1	2627.9	2981.0	2779.0	2705.7
40°	2686.4	2338.8	2130.0	2084.2	2257.7	2434.9	2721.5	3180.5	2986.3	2894.2
42.5°	2774.9	2460.9	2295.4	2307.8	2510.3	2604.8	2842.2	3391.4	3191.0	3092.7
45°	2855.8	2586.9	2530.8	2588.1	2744.8	2791.1	2962.2	3513.3	3354.4	3259.5
47.5°	2927.8	2744.4	2764.9	2917.3	3011.6	2959.8	3051.9	3618.5	3476.1	3392.4
50°	3011.6	2948.1	3073.4	3289.0	3318.6	3112.5	3133.5	3743.1	3618.3	3551.0
52.5°	3103.2	3162.8	3415.0	3605.2	3595.6	3278.3	3215.6	3882.6	3813.2	3750.0
55°	3207.2	3336.3	3715.9	3901.0	3892.9	3463.4	3351.6	4055.1	4057.5	4000.3
57.5°	3361.6	3485.6	3920.1	4140.3	4153.9	3677.2	3582.0	4248.4	4278.4	4240.3
59°	3472.3	3582.5	4001.0	4240.3	4295.6	3842.5	3750.5	4360.5	4340.7	4305.9
60°	3554.3	3644.1	4041.0	4292.5	4377.9	3954.7	3874.8	4426.4	4348.1	4305.9
62.5°	3757.4	3778.1	4113.3	4351.7	4472.6	4203.8	4224.5	4538.5	4296.8	4227.9
65°	3852.1	3862.8	4112.4	4245.7	4381.0	4397.7	4541.8	4541.8	4171.5	4065.6
67.5°	3812.5	3760.7	3908.4	3894.6	4029.6	4282.5	4661.1	4375.3	3932.0	3795.1
70°	3490.4	3291.2	3225.6	3231.5	3334.9	3724.9	4424.9	3885.3	3478.7	3318.6
72.5°	2904.2	2426.3	2264.4	2449.2	2476.2	2862.7	3771.0	2925.9	2565.4	2415.4
75°	2335.9	1710.4	1447.0	1642.1	1687.9	2095.0	2917.1	1822.3	1498.5	1381.6
77.5°	1678.2	1227.7	1038.3	1024.7	1083.9	1328.6	2069.9	917.1	764.9	713.8
80°	953.4	808.1	870.1	820.9	850.8	830.7	983.4	402.2	329.5	308.0
82.5°	575.5	477.6	517.2	430.6	544.9	474.5	378.9	128.8	111.9	106.4
85°	374.3	261.0	136.0	91.1	187.8	303.2	84.7	35.1	27.0	21.5
87.5°	129.1	66.6	6.7	2.9	20.0	56.5	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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