

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: P324295

Luminaire Tested: **GAN-SA1D-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4428 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

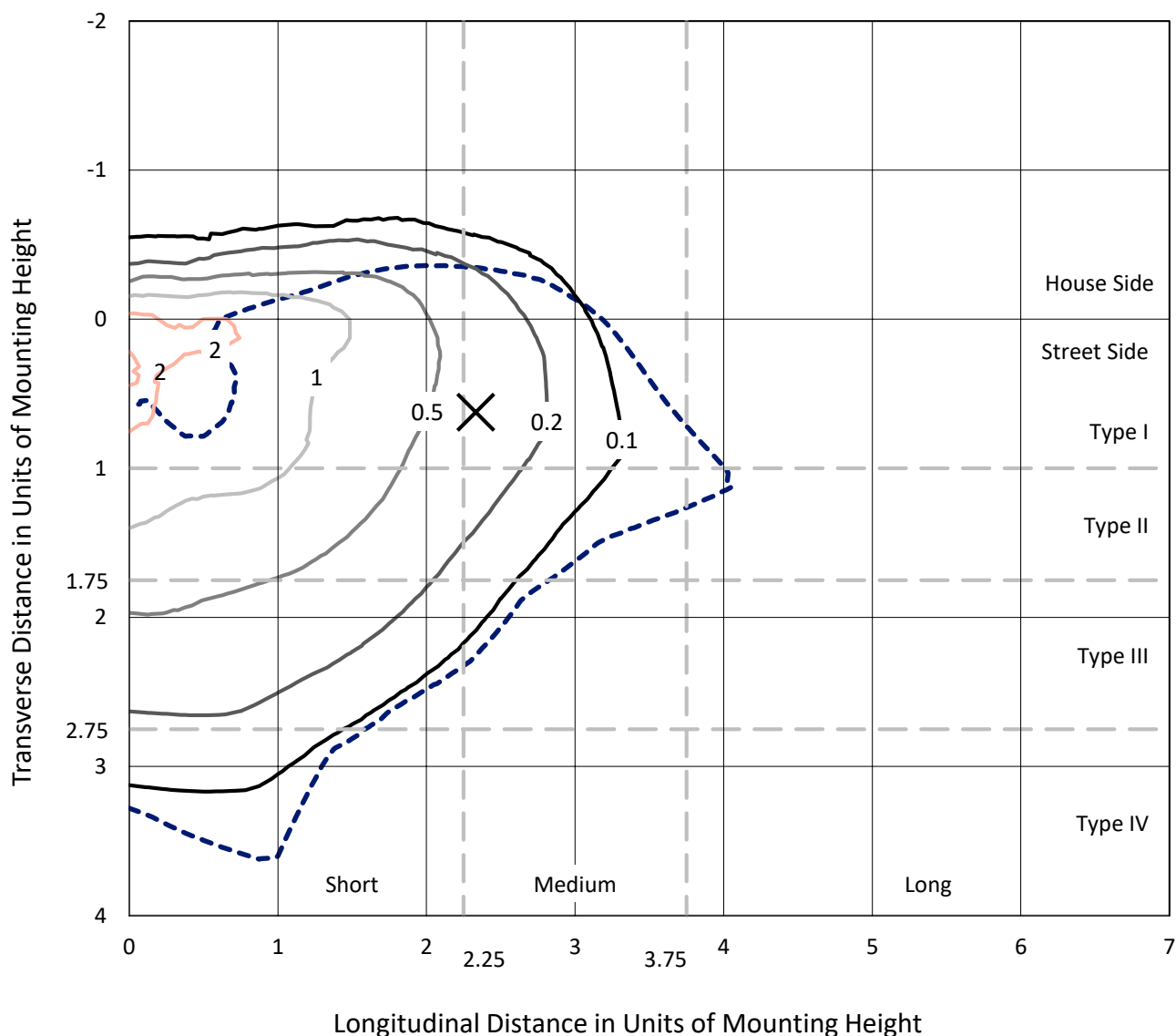
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

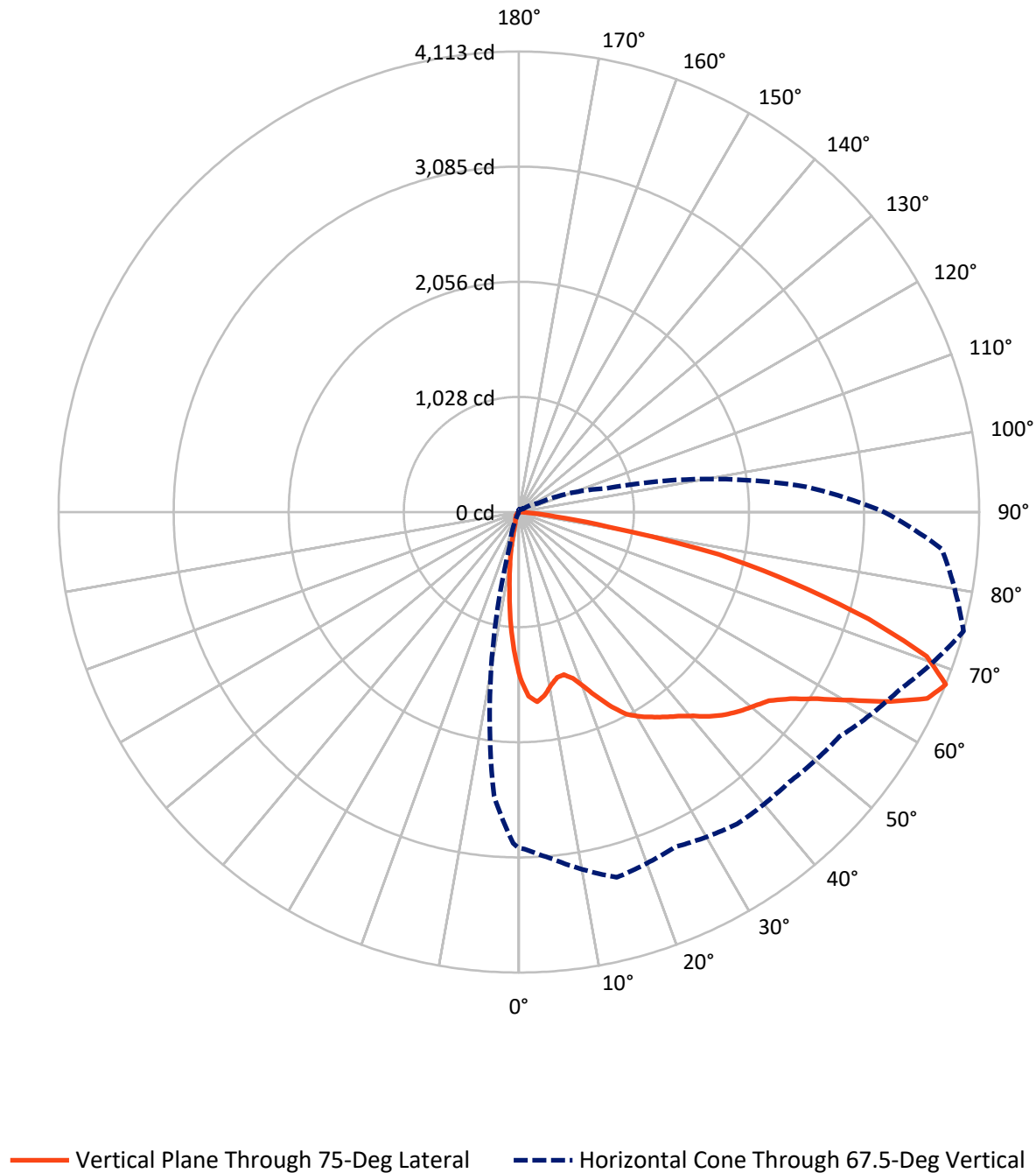
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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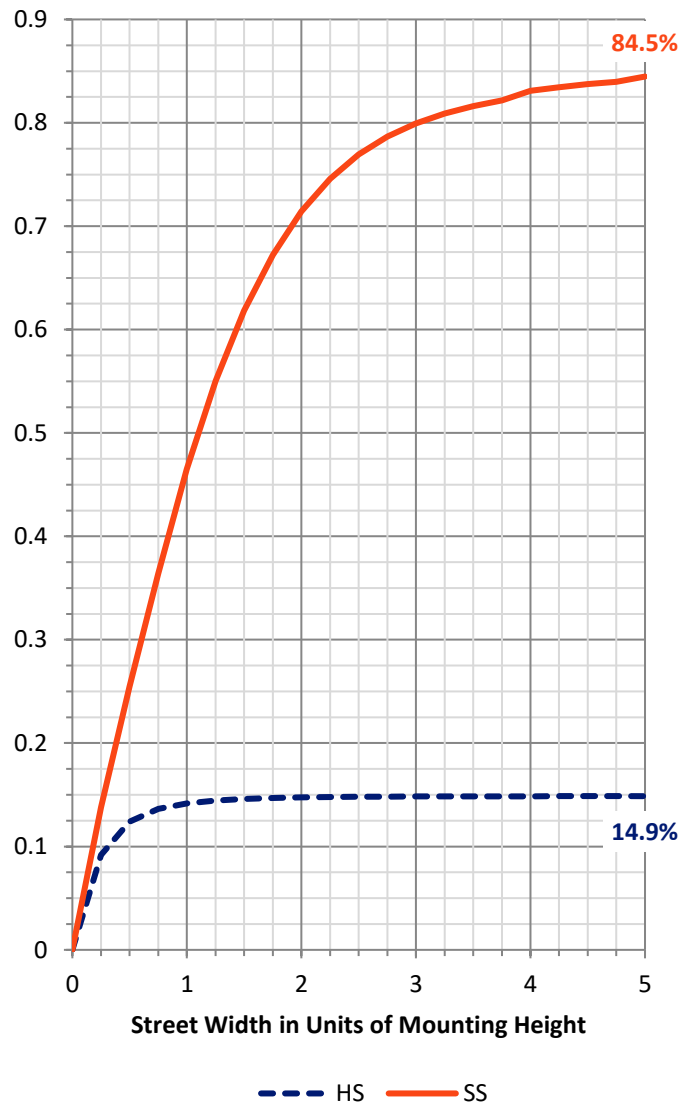
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	664.5	0.0	664.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3763.5	0.0	3763.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	4428.0	0.0	4428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	2.5
10°-20°	221.9	5.0
20°-30°	313.9	7.1
30°-40°	461.5	10.4
40°-50°	663.3	15.0
50°-60°	933.8	21.1
60°-70°	1090.6	24.6
70°-80°	556.4	12.6
80°-90°	73.9	1.7
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°	4428.0	100.0
0°-180°	4428.0	100.0

Coefficient of Utilization



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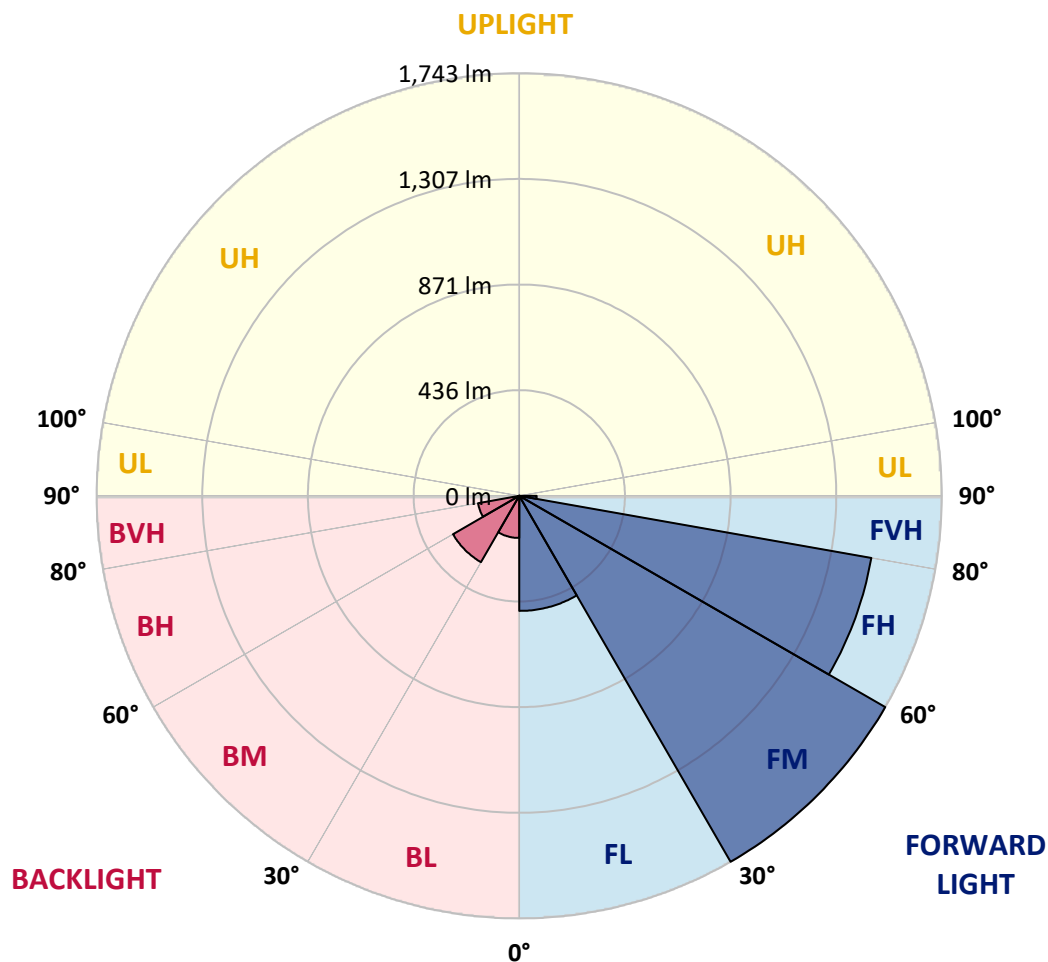
CATALOG NUMBER: GAN-SA1D-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	474.7	10.7			
FM	(30°-60°)	1742.8	39.4			
FH	(60°-80°)	1474.4	33.3			G1/1800
FVH	(80°-90°)	71.7	1.6			G1/100
BL	(0°-30°)	173.8	3.9	B1/500		
BM	(30°-60°)	315.9	7.1	B1/1000		
BH	(60°-80°)	172.6	3.9	B1/500		G1/500
BVH	(80°-90°)	2.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
2.5°	1610.3	1612.8	1625.8	1656.1	1689.0	1691.5	1713.7	1690.9	1683.1	1646.2	1608.0
5°	1622.5	1632.1	1676.8	1765.5	1842.5	1867.3	1884.9	1840.0	1792.8	1702.6	1606.3
7.5°	1524.5	1540.7	1611.0	1777.5	1915.1	1975.9	1987.5	1917.2	1801.6	1653.1	1508.4
10°	1399.1	1417.6	1502.3	1707.0	1896.0	2000.3	2016.2	1924.1	1758.0	1573.0	1402.5
12.5°	1297.6	1319.2	1405.8	1627.7	1830.4	1945.7	1977.2	1900.8	1720.2	1516.1	1330.1
15°	1250.8	1275.5	1366.6	1576.6	1757.6	1848.4	1874.4	1841.5	1699.3	1507.1	1313.3
17.5°	1277.6	1304.5	1398.5	1581.0	1689.2	1728.0	1749.0	1762.4	1699.3	1561.5	1362.4
20°	1387.8	1416.7	1516.1	1625.6	1632.6	1618.1	1640.5	1687.7	1719.0	1664.7	1480.3
22.5°	1540.1	1574.0	1686.3	1702.2	1604.9	1550.1	1553.1	1627.1	1754.8	1795.5	1643.9
25°	1725.7	1767.2	1881.3	1816.3	1616.4	1509.6	1508.6	1577.2	1789.9	1926.6	1826.2
27.5°	1910.1	1955.8	2056.1	1955.6	1664.0	1502.3	1500.2	1562.1	1824.1	2043.3	2025.2
30°	2064.7	2109.1	2195.6	2056.5	1715.4	1519.5	1509.4	1578.2	1844.4	2119.0	2170.4
32.5°	2190.5	2226.2	2296.0	2125.9	1770.4	1552.9	1531.0	1621.4	1879.0	2183.0	2303.8
35°	2329.0	2366.5	2394.4	2192.0	1832.0	1600.9	1569.6	1690.0	1932.3	2248.0	2450.0
37.5°	2486.9	2524.2	2520.9	2252.4	1910.3	1680.4	1660.5	1798.7	2015.2	2312.4	2613.2
40°	2641.5	2679.7	2652.4	2318.5	2002.2	1811.5	1796.8	1961.9	2126.1	2394.8	2804.5
42.5°	2786.2	2827.6	2769.2	2381.0	2111.7	1976.8	2001.9	2172.1	2265.0	2496.4	2969.4
45°	2902.9	2945.0	2867.2	2441.8	2227.0	2177.3	2253.0	2404.9	2432.0	2582.1	3080.7
47.5°	2987.6	3027.5	2935.2	2502.6	2374.7	2422.5	2554.5	2649.1	2582.8	2656.6	3159.8
50°	3041.7	3072.8	2955.1	2578.8	2568.5	2708.6	2868.5	2914.6	2724.8	2723.7	3255.9
52.5°	3076.1	3090.2	2969.8	2658.3	2770.7	3020.1	3176.0	3190.4	2871.0	2797.6	3385.3
55°	3194.6	3206.0	3073.8	2754.6	2937.9	3293.0	3454.1	3440.7	3036.5	2942.1	3538.0
57.5°	3396.8	3408.8	3288.8	2893.0	3073.2	3461.7	3655.7	3679.8	3230.5	3145.1	3701.6
60°	3498.4	3520.6	3477.8	3068.4	3204.3	3569.5	3793.1	3870.1	3473.0	3412.8	3860.2
62.5°	3406.3	3438.6	3500.7	3262.8	3334.6	3628.8	3835.9	3938.2	3721.3	3724.7	3958.0
65°	3222.5	3248.3	3353.6	3369.4	3410.1	3621.5	3730.2	3843.0	3873.4	4011.2	3952.7
67.5°	3000.6	3010.3	3099.6	3377.8	3300.6	3400.8	3412.6	3496.1	3753.2	4112.8	3793.9
70°	2681.1	2686.4	2764.4	3096.9	2836.4	2858.4	2841.0	2858.0	3226.7	3865.5	3393.1
72.5°	2157.8	2171.0	2282.0	2571.9	2066.3	2002.8	2139.5	2132.0	2485.0	3265.7	2520.1
75°	1588.7	1611.6	1779.2	2071.6	1450.3	1311.8	1411.7	1438.3	1766.6	2526.1	1575.9
77.5°	1112.4	1129.3	1291.7	1522.9	1049.6	938.0	902.0	933.6	1166.1	1827.4	793.9
80°	640.8	647.1	750.7	879.3	707.3	809.3	733.1	754.9	698.7	813.0	341.5
82.5°	419.3	420.4	460.8	523.4	440.5	511.8	378.8	484.3	429.8	326.6	111.2
85°	226.5	227.8	267.2	371.5	249.4	141.0	82.9	170.1	265.8	74.9	30.4
87.5°	25.0	22.9	80.5	135.1	69.2	12.8	4.4	19.1	42.6	4.8	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°	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
2.5°	1588.5	1571.1	1527.7	1481.7	1444.8	1410.2	1375.4	1332.8	1299.9	1293.2	1282.3
5°	1554.5	1499.4	1408.3	1316.9	1243.2	1150.3	1091.4	1045.4	1000.6	997.8	988.8
7.5°	1435.8	1363.2	1235.1	1108.6	1005.0	916.4	827.1	767.3	720.3	703.7	693.9
10°	1321.7	1240.1	1080.1	935.7	843.2	765.0	702.1	639.6	582.9	543.9	526.3
12.5°	1242.0	1151.8	975.4	851.0	784.7	710.5	633.7	555.7	490.4	443.4	414.7
15°	1211.2	1114.9	940.4	817.4	735.6	641.7	543.5	454.3	382.0	339.4	313.6
17.5°	1247.9	1135.8	937.6	776.5	662.2	545.4	436.9	331.6	263.5	231.2	214.6
20°	1341.0	1202.6	936.6	726.4	575.0	431.3	296.0	218.2	176.8	158.8	151.0
22.5°	1472.7	1287.7	945.0	676.9	484.1	308.1	204.3	160.3	139.1	129.4	125.0
25°	1642.2	1407.3	968.7	632.0	398.8	229.9	159.2	134.2	119.4	111.8	108.7
27.5°	1822.8	1544.9	1005.6	593.0	329.3	183.3	136.3	114.9	104.3	99.0	96.1
30°	1971.7	1704.3	1042.9	549.6	279.0	159.8	124.8	104.9	92.5	89.1	86.4
32.5°	2102.0	1824.9	1069.4	510.3	246.0	142.0	112.9	93.8	85.4	78.9	75.9
35°	2236.9	1925.4	1068.5	482.9	223.4	128.6	102.8	83.9	73.8	66.3	64.0
37.5°	2382.9	2038.9	1050.3	459.4	213.5	117.9	97.1	78.7	68.6	61.0	58.1
40°	2553.8	2158.0	1031.6	437.3	210.8	109.3	93.1	74.5	63.8	56.4	53.5
42.5°	2720.4	2265.4	1015.2	421.0	199.1	109.1	89.6	71.3	60.0	52.9	49.5
45°	2853.6	2365.5	1012.1	411.1	186.7	112.9	87.7	69.2	57.1	49.9	46.8
47.5°	2964.3	2474.1	1032.2	404.2	174.9	103.0	92.3	67.8	54.3	47.4	43.8
50°	3096.1	2607.5	1079.6	392.9	162.6	92.7	105.7	68.2	52.0	44.9	41.1
52.5°	3279.8	2792.1	1149.3	373.8	145.6	83.3	104.0	68.6	49.5	42.2	38.4
55°	3485.8	3022.6	1224.2	342.1	121.9	70.9	89.1	65.7	44.7	39.2	35.7
57.5°	3702.3	3231.8	1268.6	304.4	96.9	61.2	71.3	59.8	39.4	35.2	32.9
60°	3736.2	3311.3	1248.3	258.0	77.0	53.3	52.9	60.8	35.2	31.0	29.4
62.5°	3651.7	3211.4	1149.9	216.7	64.4	46.8	43.4	53.1	31.9	27.7	26.0
65°	3489.1	2941.5	990.5	195.3	59.8	40.1	36.1	37.3	27.9	24.1	22.7
67.5°	3263.0	2581.1	813.2	183.1	59.2	34.4	30.8	28.3	24.1	21.0	19.7
70°	2800.7	2150.2	648.8	176.4	57.5	28.9	26.0	23.1	20.1	17.8	16.8
72.5°	2061.3	1523.7	504.7	169.1	57.9	23.1	22.7	19.1	16.2	13.8	13.4
75°	1191.0	870.5	331.0	137.0	55.2	17.8	18.9	13.4	11.3	9.6	9.6
77.5°	634.7	530.9	126.1	57.1	20.1	11.3	10.7	8.0	7.1	5.9	5.7
80°	276.7	233.7	38.0	15.9	11.1	6.1	4.0	3.6	3.1	2.5	2.3
82.5°	98.0	84.5	12.4	7.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.2	15.9	0.0	1.9	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°	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
2.5°	1260.0	1255.4	1228.1	1229.2	1234.0	1240.9	1224.6	1232.1	1252.5	1272.0	1279.3
5°	974.3	975.4	958.8	969.1	978.3	984.6	958.2	958.6	974.8	996.8	1008.3
7.5°	686.5	684.9	685.7	710.2	727.7	715.1	724.9	690.7	692.8	708.6	696.8
10°	510.3	487.3	474.3	492.7	511.8	504.9	487.9	476.8	484.5	502.0	500.7
12.5°	401.1	367.9	348.4	335.2	350.9	337.9	337.5	327.9	317.4	319.3	347.2
15°	301.6	277.5	254.4	233.3	232.8	228.4	206.0	180.8	178.7	180.0	194.4
17.5°	207.5	199.3	189.8	171.6	166.8	148.3	126.5	116.4	111.4	113.7	118.5
20°	145.8	142.6	143.7	133.8	126.9	109.3	96.5	92.5	91.7	94.0	96.3
22.5°	120.8	115.2	114.5	110.1	103.2	90.4	83.5	81.2	80.1	82.2	83.9
25°	105.7	100.1	97.7	95.0	87.7	78.9	74.7	72.6	71.5	72.8	73.8
27.5°	93.1	87.9	85.8	83.9	76.8	70.5	67.1	65.2	64.4	64.8	65.9
30°	83.7	79.1	76.4	74.0	68.0	63.6	60.6	58.7	57.9	57.9	58.9
32.5°	73.8	71.3	68.8	65.9	60.2	57.3	54.3	52.2	51.4	51.6	52.4
35°	61.5	60.6	61.2	58.5	53.7	51.2	48.2	45.9	45.3	45.5	46.4
37.5°	54.5	50.8	53.1	51.6	48.9	45.5	41.7	39.6	38.6	39.2	39.6
40°	50.1	45.5	43.8	45.3	44.9	39.4	36.1	34.0	33.1	33.4	33.8
42.5°	46.4	40.9	37.1	36.9	39.4	34.4	30.8	28.9	27.9	27.9	28.3
45°	42.8	36.9	32.3	28.7	33.1	29.2	25.8	24.1	22.9	22.9	23.1
47.5°	40.1	33.6	28.1	23.5	25.0	23.9	21.2	19.5	18.2	18.2	18.5
50°	37.5	30.2	24.3	19.7	18.7	19.7	17.2	15.3	14.5	14.3	14.7
52.5°	34.8	26.8	20.8	16.8	14.7	14.9	13.4	12.2	11.1	11.1	11.5
55°	32.1	24.1	18.0	14.3	12.2	11.1	10.7	9.9	9.0	9.0	9.4
57.5°	29.4	21.2	15.3	11.7	9.6	8.8	8.8	8.2	7.6	7.6	8.0
60°	26.8	18.2	12.6	9.6	7.6	7.3	7.6	6.9	6.5	6.5	6.9
62.5°	23.9	15.5	10.3	8.0	6.1	5.9	6.5	6.1	5.7	5.7	6.1
65°	20.3	13.2	8.2	6.1	4.6	4.6	5.5	5.0	4.6	4.6	5.0
67.5°	17.2	11.1	6.3	4.4	3.4	3.6	4.6	4.2	4.0	4.0	4.4
70°	14.3	8.6	4.4	2.7	1.9	2.7	3.6	3.6	3.6	3.6	4.0
72.5°	10.7	5.9	2.5	1.0	0.8	1.9	2.9	3.4	3.1	3.1	3.8
75°	6.9	3.4	0.8	0.0	0.0	1.0	2.3	2.7	2.7	2.5	3.1
77.5°	4.0	1.0	0.0	0.0	0.0	0.0	1.5	1.3	1.0	0.8	1.5
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
2.5°	1308.9	1333.7	1368.5	1405.4	1462.2	1507.3	1551.6	1589.6	1604.2	1610.3
5°	1036.0	1072.3	1123.3	1188.7	1291.3	1383.6	1477.1	1571.3	1612.2	1622.5
7.5°	743.4	789.7	854.6	936.6	1056.8	1176.3	1307.0	1445.2	1508.6	1524.5
10°	550.2	606.8	681.1	767.5	882.2	1005.2	1147.6	1305.5	1377.9	1399.1
12.5°	390.4	466.9	566.4	671.4	770.9	880.6	1024.7	1198.8	1274.7	1297.6
15°	229.3	303.3	421.0	561.7	689.1	800.2	946.6	1144.0	1227.7	1250.8
17.5°	131.5	168.4	257.4	414.3	587.1	741.1	922.1	1157.7	1256.3	1277.6
20°	100.5	112.2	148.3	266.8	468.0	683.0	922.1	1234.9	1356.3	1387.8
22.5°	87.9	96.5	111.2	159.2	344.4	620.7	932.8	1346.4	1505.2	1540.1
25°	78.0	85.8	98.4	119.8	234.9	546.6	958.2	1483.4	1680.6	1725.7
27.5°	69.8	77.2	88.5	104.9	160.7	457.3	992.4	1644.1	1874.0	1910.1
30°	62.5	69.4	79.7	91.2	124.0	356.0	1021.5	1795.5	2025.9	2064.7
32.5°	55.6	61.9	71.1	79.7	101.5	263.2	1024.7	1915.5	2151.9	2190.5
35°	49.1	54.7	63.1	69.8	84.1	207.9	975.8	2019.6	2278.0	2329.0
37.5°	42.8	48.2	55.6	60.6	74.0	169.5	901.1	2135.6	2439.7	2486.9
40°	36.9	41.7	49.3	52.6	70.1	130.3	820.0	2257.2	2598.3	2641.5
42.5°	31.5	36.1	43.4	49.9	61.5	97.3	732.3	2371.3	2740.9	2786.2
45°	26.2	31.0	38.4	52.9	51.0	72.8	638.5	2447.1	2853.6	2902.9
47.5°	21.2	26.6	36.7	50.3	40.7	53.5	564.3	2518.8	2938.9	2987.6
50°	17.0	22.4	41.3	44.9	33.4	40.9	533.2	2583.0	2994.9	3041.7
52.5°	13.8	18.9	39.0	34.4	27.9	33.8	550.0	2687.0	3046.8	3076.1
55°	11.5	14.9	23.5	23.9	23.7	28.7	570.8	2836.4	3180.8	3194.6
57.5°	10.1	12.0	16.4	18.5	19.9	25.6	571.2	3050.7	3388.2	3396.8
60°	8.6	10.5	13.6	14.9	17.2	22.9	550.4	3125.6	3469.8	3498.4
62.5°	7.6	9.2	11.3	12.4	14.5	20.6	501.7	3017.2	3357.8	3406.3
65°	6.7	8.4	9.4	10.5	12.8	18.5	421.6	2800.3	3172.0	3222.5
67.5°	5.9	7.3	8.4	9.4	11.5	16.4	310.4	2548.4	2958.7	3000.6
70°	5.2	6.5	7.6	8.4	10.1	13.8	188.4	2162.4	2663.7	2681.1
72.5°	5.0	5.9	6.9	7.6	8.8	12.2	95.4	1589.1	2129.5	2157.8
75°	4.4	5.2	6.3	6.7	7.8	10.5	38.8	1043.8	1543.2	1588.7
77.5°	3.6	4.8	5.7	6.1	6.7	8.6	19.7	667.0	1083.0	1112.4
80°	1.3	3.6	4.8	5.0	5.7	6.3	13.0	365.2	628.2	640.8
82.5°	0.0	2.3	3.8	3.6	4.0	4.8	8.4	173.7	414.7	419.3
85°	0.0	1.0	2.9	2.3	1.7	3.4	2.9	38.0	217.5	226.5
87.5°	0.0	0.0	0.2	1.0	0.8	1.3	0.4	0.2	19.7	25.0
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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