

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: INVUE

Report Number: P677420

Luminaire Tested: **CCW-SA-1F-735-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677420
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-735-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

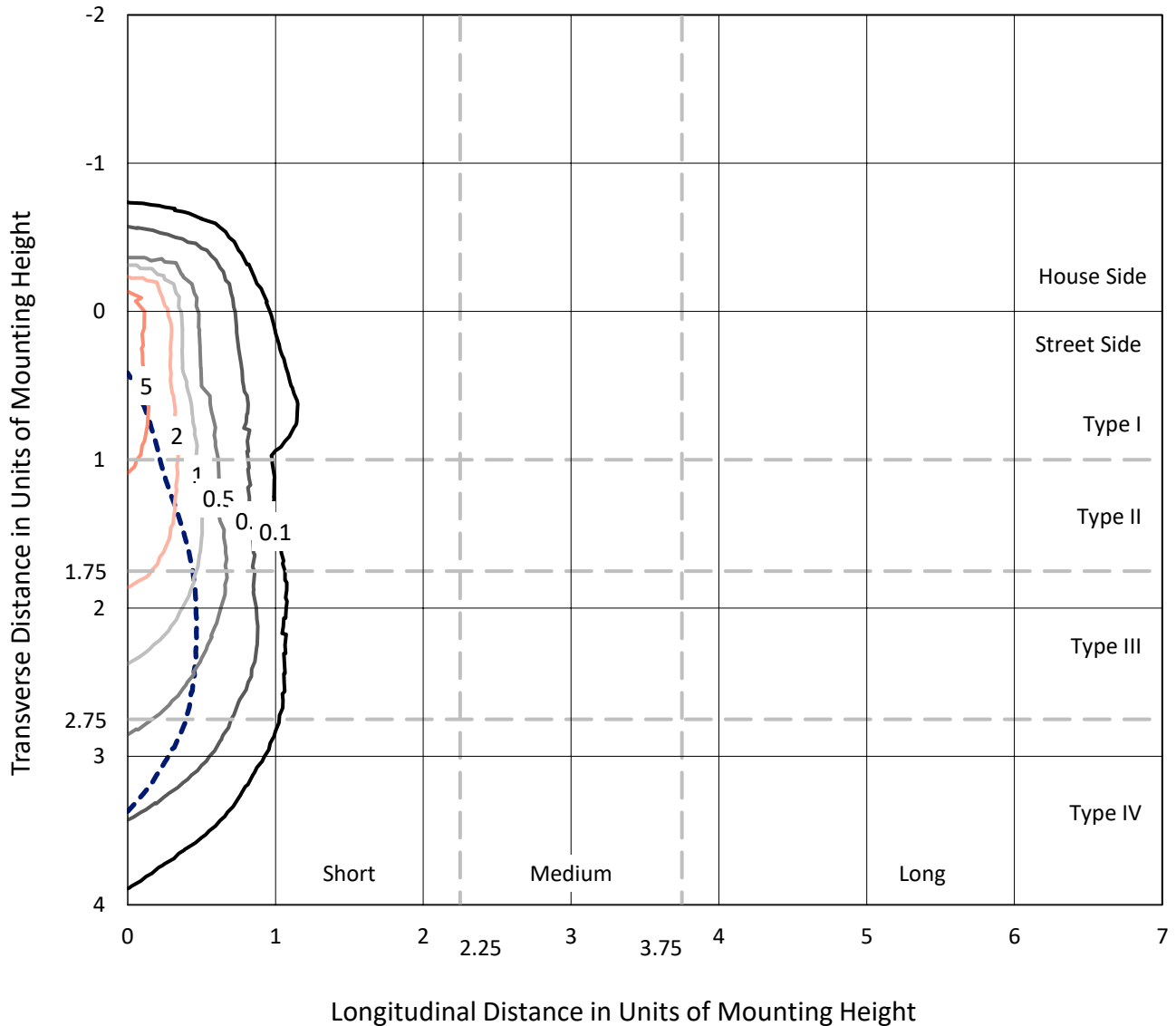
Lumens per Lamp: N/A
Luminaire Lumens: 5314.3 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
Input Voltage (V): 120
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

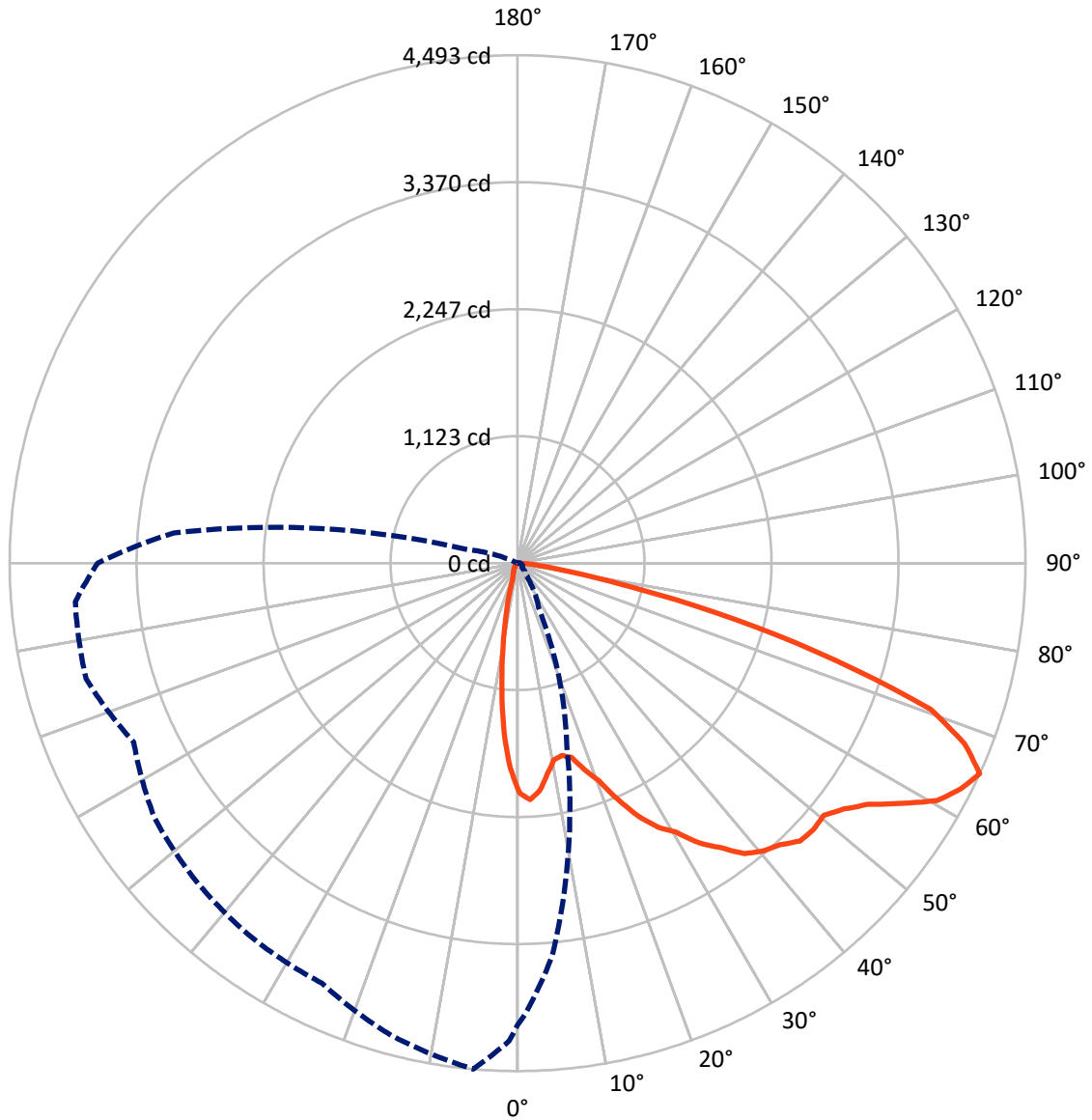
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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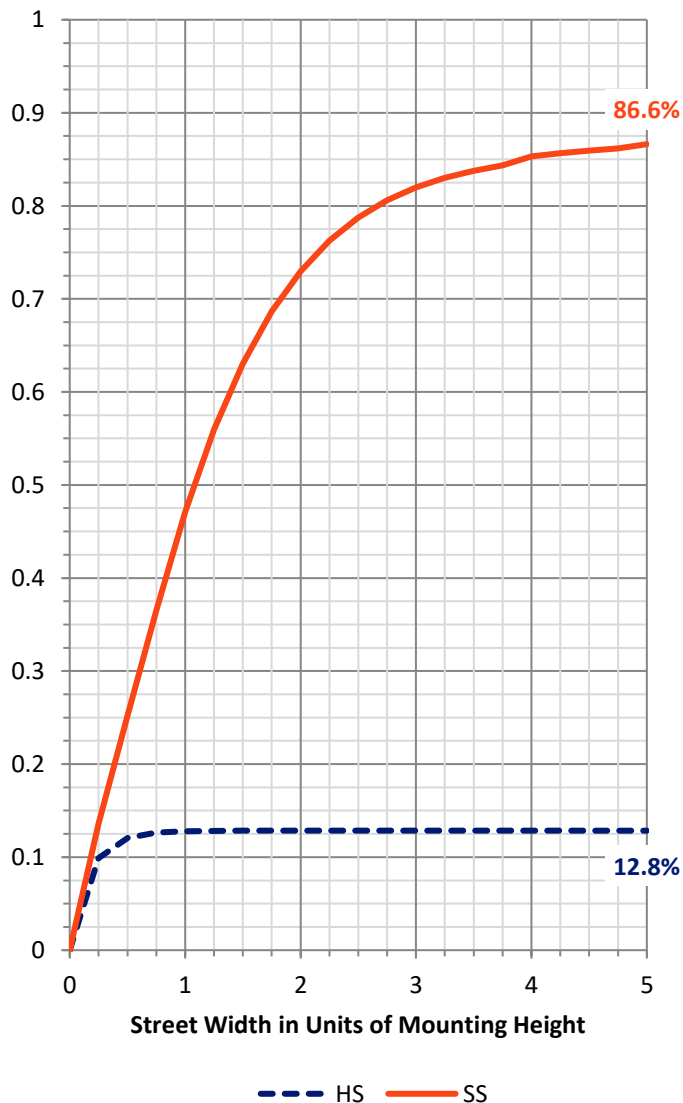
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.0	0.0	690.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4624.3	0.0	4624.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	5314.3	0.0	5314.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	2.9
10°-20°	298.0	5.6
20°-30°	415.0	7.8
30°-40°	589.7	11.1
40°-50°	817.8	15.4
50°-60°	1114.3	21.0
60°-70°	1225.1	23.1
70°-80°	602.1	11.3
80°-90°	98.3	1.9
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°	5314.3	100.0
0°-180°	5314.3	100.0



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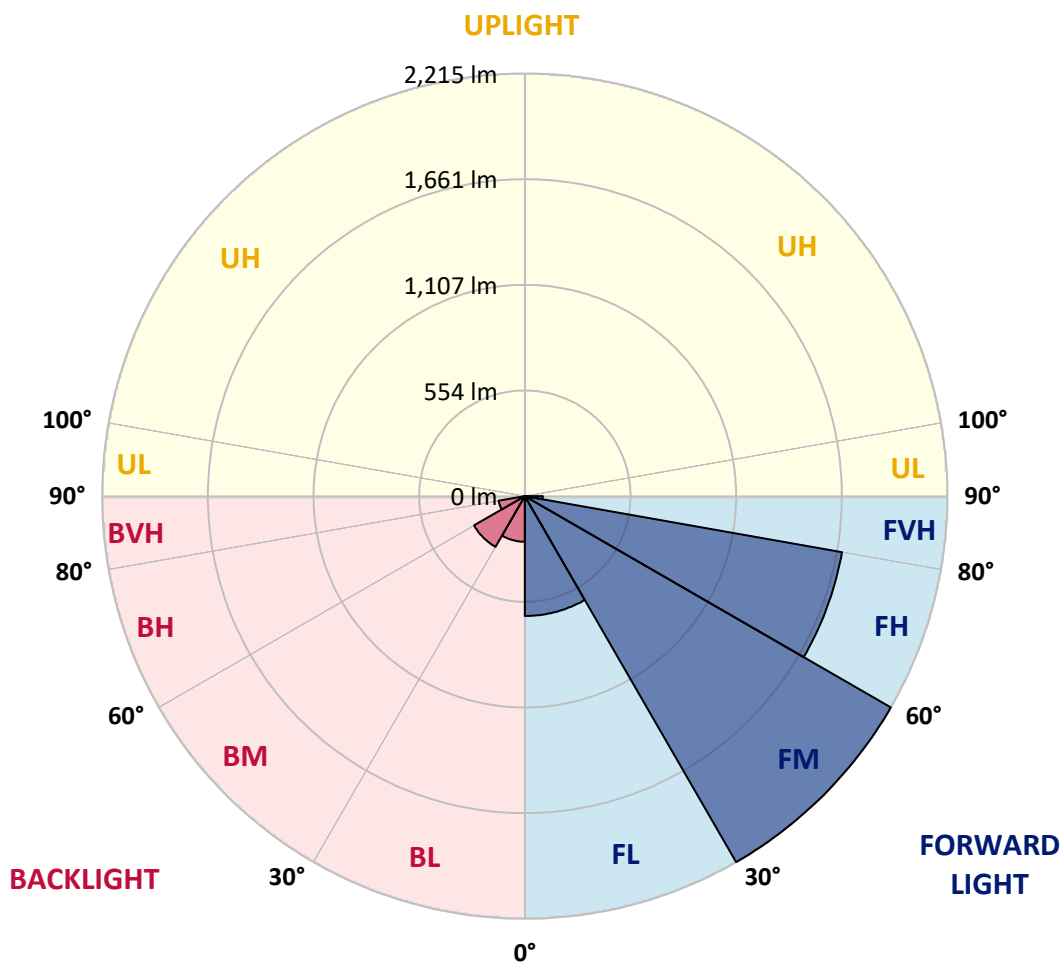
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.0	11.8			
FM (30°-60°)	2214.6	41.7			
FH (60°-80°)	1687.7	31.8			G1/1800
FVH (80°-90°)	93.9	1.8			G1/100
BL (0°-30°)	238.9	4.5	B1/500		
BM (30°-60°)	307.2	5.8	B1/1000		
BH (60°-80°)	139.4	2.6	B1/500		G1/500
BVH (80°-90°)	4.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	2073.2	2097.5	2074.6	1994.4	1980.1	1941.4	1882.6	1878.3	1816.7	1823.9	1790.9
5°	1948.5	1972.9	1924.2	1818.2	1719.3	1640.5	1593.2	1508.7	1490.1	1448.5	1448.5
7.5°	1821.0	1819.6	1736.5	1647.7	1500.1	1355.4	1289.5	1167.7	1096.1	1057.4	1020.1
10°	1715.0	1692.1	1640.5	1457.1	1296.6	1146.2	1064.5	984.3	909.8	845.3	780.8
12.5°	1640.5	1654.8	1573.2	1374.0	1166.3	1061.7	974.3	889.7	800.9	727.8	656.2
15°	1679.2	1656.3	1560.3	1355.4	1144.8	1001.5	885.4	782.3	683.4	587.4	533.0
17.5°	1799.5	1740.8	1627.6	1355.4	1100.3	909.8	769.4	647.6	541.6	455.6	388.3
20°	1961.4	1894.1	1772.3	1405.5	1067.4	842.5	650.5	497.2	386.8	306.6	255.0
22.5°	2127.6	2074.6	1891.2	1425.6	1028.7	752.2	512.9	359.6	257.9	206.3	180.5
25°	2326.8	2252.3	2051.7	1505.8	971.4	664.8	404.0	250.7	192.0	164.8	149.0
27.5°	2485.8	2472.9	2202.1	1554.5	928.4	593.2	319.5	199.2	159.0	139.0	128.9
30°	2686.4	2616.2	2385.5	1652.0	879.7	511.5	266.5	179.1	146.1	124.6	117.5
32.5°	2806.8	2773.8	2481.5	1706.4	825.3	444.2	229.2	157.6	133.2	117.5	110.3
35°	2981.5	2915.6	2619.1	1740.8	796.6	405.5	206.3	143.3	111.8	96.0	87.4
37.5°	3176.4	3152.0	2783.8	1739.4	755.1	382.5	190.6	133.2	106.0	88.8	78.8
40°	3375.6	3276.7	2884.1	1779.5	733.6	365.4	179.1	127.5	100.3	84.5	71.6
42.5°	3524.6	3411.4	3000.2	1765.1	707.8	335.3	174.8	118.9	96.0	77.4	65.9
45°	3564.7	3524.6	3104.8	1760.8	689.2	310.9	167.6	117.5	93.1	73.1	61.6
47.5°	3642.0	3614.8	3233.7	1768.0	674.8	292.3	150.4	120.4	88.8	68.8	58.7
50°	3676.4	3627.7	3338.3	1785.2	641.9	269.4	134.7	126.1	87.4	67.3	55.9
52.5°	3818.3	3775.3	3481.6	1833.9	614.6	239.3	118.9	120.4	90.3	63.0	53.0
55°	3957.2	3908.5	3702.2	1945.7	576.0	214.9	101.7	106.0	86.0	57.3	47.3
57.5°	4147.8	4067.6	3849.8	1991.5	541.6	182.0	90.3	87.4	80.2	51.6	41.5
60°	4176.5	4209.4	3828.3	1962.9	505.8	160.5	78.8	67.3	86.0	45.8	35.8
62.5°	4272.5	4134.9	3728.0	1897.0	480.0	147.6	70.2	55.9	74.5	40.1	30.1
65°	4087.6	3985.9	3493.0	1684.9	447.0	149.0	61.6	45.8	47.3	33.0	24.4
67.5°	3816.8	3736.6	3103.3	1454.2	414.1	146.1	54.4	40.1	35.8	28.7	21.5
70°	3349.8	3176.4	2636.3	1180.6	365.4	136.1	45.8	35.8	30.1	22.9	15.8
72.5°	2437.1	2366.9	1891.2	912.7	328.1	123.2	43.0	30.1	25.8	17.2	12.9
75°	1640.5	1524.4	1193.5	598.9	263.6	107.5	35.8	27.2	20.1	12.9	10.0
77.5°	866.8	819.5	676.3	285.1	146.1	50.1	20.1	15.8	11.5	10.0	5.7
80°	375.4	333.8	292.3	116.1	51.6	22.9	12.9	8.6	7.2	5.7	2.9
82.5°	192.0	183.4	151.9	50.1	30.1	17.2	7.2	5.7	4.3	2.9	1.4
85°	94.6	97.4	80.2	15.8	17.2	10.0	1.4	1.4	0.0	0.0	0.0
87.5°	7.2	7.2	5.7	2.9	4.3	1.4	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°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	1778.0	1798.1	1763.7	1785.2	1775.2	1779.5	1783.8	1772.3	1775.2	1815.3	1816.7
5°	1424.2	1462.8	1448.5	1468.6	1503.0	1485.8	1501.5	1498.7	1501.5	1507.2	1533.0
7.5°	1015.8	1004.4	1031.6	1084.6	1146.2	1183.4	1164.8	1154.8	1149.1	1134.7	1151.9
10°	766.5	760.8	753.6	769.4	809.5	851.1	874.0	835.3	813.8	786.6	776.5
12.5°	636.1	600.3	580.3	555.9	567.4	604.6	606.1	568.8	534.4	520.1	535.8
15°	501.5	477.1	441.3	406.9	389.7	418.4	394.0	358.2	313.8	308.0	306.6
17.5°	358.2	343.9	318.1	303.7	283.7	276.5	250.7	196.3	164.8	156.2	159.0
20°	243.6	232.1	230.7	217.8	209.2	203.5	161.9	126.1	116.1	117.5	118.9
22.5°	180.5	174.8	167.6	166.2	159.0	151.9	118.9	106.0	98.9	98.9	103.2
25°	147.6	144.7	137.5	134.7	131.8	121.8	100.3	90.3	87.4	84.5	88.8
27.5°	126.1	124.6	120.4	116.1	113.2	103.2	87.4	78.8	75.9	75.9	75.9
30°	113.2	113.2	107.5	98.9	98.9	87.4	74.5	68.8	65.9	65.9	64.5
32.5°	106.0	103.2	96.0	90.3	86.0	74.5	65.9	60.2	55.9	55.9	57.3
35°	86.0	86.0	84.5	80.2	74.5	63.0	55.9	50.1	47.3	45.8	47.3
37.5°	75.9	71.6	65.9	67.3	64.5	54.4	47.3	43.0	38.7	38.7	38.7
40°	68.8	64.5	58.7	54.4	53.0	48.7	41.5	34.4	30.1	28.7	28.7
42.5°	61.6	58.7	50.1	43.0	41.5	41.5	31.5	25.8	21.5	21.5	21.5
45°	57.3	53.0	45.8	37.3	30.1	31.5	25.8	18.6	15.8	14.3	14.3
47.5°	54.4	50.1	40.1	31.5	22.9	22.9	18.6	12.9	10.0	8.6	8.6
50°	50.1	45.8	35.8	25.8	17.2	14.3	11.5	7.2	4.3	2.9	2.9
52.5°	47.3	43.0	31.5	21.5	14.3	10.0	7.2	1.4	0.0	0.0	0.0
55°	43.0	37.3	27.2	17.2	11.5	5.7	1.4	0.0	0.0	0.0	0.0
57.5°	37.3	33.0	21.5	12.9	7.2	1.4	0.0	0.0	0.0	0.0	0.0
60°	31.5	27.2	17.2	10.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	25.8	22.9	12.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21.5	17.2	10.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18.6	14.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.3	10.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.0	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.4	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	1822.5	1865.4	1905.6	1917.0	1948.5	2035.9	2035.9	2077.5	2152.0	2179.2	2184.9
5°	1537.3	1583.2	1591.8	1680.6	1722.2	1811.0	1869.7	2010.1	2094.7	2147.7	2180.6
7.5°	1169.1	1184.9	1217.8	1300.9	1382.6	1490.1	1601.8	1780.9	1929.9	1990.1	2101.8
10°	803.8	851.1	922.7	997.2	1124.7	1243.6	1388.3	1557.4	1740.8	1815.3	1911.3
12.5°	541.6	607.5	722.1	828.1	945.6	1066.0	1203.5	1429.9	1637.6	1740.8	1836.8
15°	316.6	396.9	495.7	667.7	823.8	958.5	1096.1	1325.3	1577.5	1710.7	1828.2
17.5°	160.5	184.8	266.5	415.5	621.8	842.5	1047.3	1339.6	1623.3	1786.6	1884.1
20°	120.4	127.5	150.4	220.6	425.5	696.3	1001.5	1361.1	1750.8	1950.0	2003.0
22.5°	104.6	110.3	120.4	143.3	239.3	533.0	937.0	1414.1	1924.2	2111.9	2223.6
25°	88.8	94.6	103.2	117.5	153.3	362.5	858.2	1470.0	2078.9	2315.3	2419.9
27.5°	77.4	81.7	90.3	101.7	124.6	230.7	722.1	1544.5	2315.3	2561.8	2589.0
30°	65.9	70.2	77.4	90.3	106.0	163.3	530.1	1554.5	2445.7	2669.2	2745.1
32.5°	57.3	58.7	67.3	78.8	88.8	128.9	372.5	1564.6	2541.7	2808.2	2823.9
35°	47.3	50.1	58.7	65.9	77.4	101.7	282.3	1514.4	2666.3	2951.5	2947.2
37.5°	38.7	43.0	48.7	54.4	63.0	86.0	224.9	1421.3	2822.5	3173.5	3038.9
40°	30.1	34.4	40.1	47.3	53.0	77.4	169.1	1280.9	2985.8	3282.4	3139.1
42.5°	21.5	24.4	30.1	37.3	47.3	64.5	121.8	1114.7	3050.3	3409.9	3259.5
45°	15.8	18.6	22.9	31.5	48.7	51.6	84.5	962.8	3119.1	3465.8	3232.3
47.5°	8.6	11.5	17.2	27.2	43.0	38.7	60.2	826.7	3197.9	3516.0	3253.8
50°	2.9	4.3	10.0	28.7	34.4	30.1	47.3	753.6	3275.3	3526.0	3296.8
52.5°	0.0	0.0	5.7	30.1	25.8	22.9	41.5	725.0	3255.2	3557.5	3269.5
55°	0.0	0.0	1.4	12.9	14.3	17.2	34.4	723.5	3397.0	3567.5	3418.5
57.5°	0.0	0.0	0.0	4.3	8.6	14.3	30.1	677.7	3487.3	3816.8	3619.1
60°	0.0	0.0	0.0	1.4	5.7	10.0	22.9	637.6	3579.0	3928.6	3834.0
62.5°	0.0	0.0	0.0	0.0	1.4	4.3	15.8	576.0	3394.2	3920.0	4041.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	455.6	3053.2	3715.1	3927.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	315.2	2673.5	3457.2	3716.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.6	2157.7	3031.7	3152.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.7	1540.2	2407.0	2586.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0	952.8	1759.4	1980.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	617.5	1332.5	1503.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	329.5	835.3	971.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	143.3	507.2	584.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	308.0	351.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.3	63.0
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°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	2187.8	2229.4	2245.1	2220.8	2223.6	2173.5	2166.3	2096.1	2067.5	2073.2
5°	2288.1	2348.3	2381.2	2354.0	2292.4	2196.4	2109.0	2025.9	1974.3	1948.5
7.5°	2265.2	2332.5	2374.1	2399.9	2329.6	2174.9	2041.7	1885.5	1819.6	1821.0
10°	2139.1	2279.5	2364.0	2331.1	2298.1	2143.4	1937.1	1768.0	1709.3	1715.0
12.5°	2037.4	2193.5	2243.7	2269.5	2202.1	2078.9	1939.9	1746.5	1680.6	1640.5
15°	1974.3	2090.4	2093.2	2133.4	2106.1	2106.1	1970.0	1780.9	1723.6	1679.2
17.5°	1974.3	2000.1	1997.2	2011.6	2057.4	2111.9	2046.0	1919.9	1806.7	1799.5
20°	2018.7	1938.5	1919.9	1925.6	1964.3	2126.2	2213.6	2056.0	1984.4	1961.4
22.5°	2121.9	1945.7	1832.5	1812.4	1931.3	2124.8	2321.0	2270.9	2146.3	2127.6
25°	2263.7	1932.8	1809.6	1783.8	1874.0	2176.3	2468.6	2478.7	2365.5	2326.8
27.5°	2398.4	1990.1	1806.7	1801.0	1919.9	2164.9	2570.3	2644.9	2517.3	2485.8
30°	2444.3	2047.4	1859.7	1783.8	1937.1	2206.4	2567.5	2762.3	2679.2	2686.4
32.5°	2498.7	2104.7	1865.4	1835.3	2010.1	2273.8	2649.1	2951.5	2891.3	2806.8
35°	2578.9	2182.1	1919.9	1892.7	2061.7	2333.9	2666.3	3090.4	3080.4	2981.5
37.5°	2647.7	2258.0	2033.1	2037.4	2219.3	2431.4	2742.3	3260.9	3243.7	3176.4
40°	2696.4	2364.0	2209.3	2220.8	2356.9	2540.3	2877.0	3346.9	3474.4	3375.6
42.5°	2703.6	2458.6	2411.3	2503.0	2630.5	2709.3	2931.4	3405.6	3589.0	3524.6
45°	2730.8	2609.0	2740.8	2808.2	2912.8	2858.3	2928.5	3505.9	3597.6	3564.7
47.5°	2836.8	2882.7	3048.9	3253.8	3291.0	3111.9	2997.3	3521.7	3646.3	3642.0
50°	2947.2	3176.4	3409.9	3546.0	3593.3	3286.7	3061.8	3508.8	3710.8	3676.4
52.5°	3070.4	3431.4	3768.1	3935.8	3910.0	3480.1	3134.8	3613.4	3829.7	3818.3
55°	3147.7	3546.0	3998.8	4232.3	4212.3	3696.5	3367.0	3763.8	3985.9	3957.2
57.5°	3352.6	3732.3	4228.0	4336.9	4389.9	3980.2	3528.9	4010.3	4116.3	4147.8
60°	3521.7	3854.1	4288.2	4445.8	4464.4	4149.2	3812.5	4263.9	4282.5	4176.5
62.5°	3769.6	3901.4	4160.7	4302.5	4398.5	4245.2	4067.6	4400.0	4279.6	4272.5
65°	3951.5	3746.6	3922.9	4001.7	4063.3	4099.1	4324.0	4493.1	4226.6	4087.6
67.5°	3849.8	3454.4	3421.4	3425.7	3444.3	3660.7	4238.1	4265.3	3931.5	3816.8
70°	3388.4	2834.0	2789.6	2823.9	2730.8	2991.6	3889.9	3877.0	3468.7	3349.8
72.5°	2740.8	2066.0	1990.1	2037.4	2058.9	2335.4	3272.4	2940.0	2530.2	2437.1
75°	2177.8	1514.4	1278.0	1392.6	1465.7	1700.7	2556.0	1997.2	1766.6	1640.5
77.5°	1710.7	1146.2	994.3	948.5	1015.8	1236.5	1859.7	1048.8	925.6	866.8
80°	1084.6	842.5	914.1	848.2	876.8	882.6	968.5	477.1	379.7	375.4
82.5°	653.3	576.0	684.9	376.8	686.3	613.2	402.6	216.3	192.0	192.0
85°	462.8	356.8	236.4	153.3	305.2	336.7	156.2	111.8	97.4	94.6
87.5°	232.1	110.3	53.0	34.4	38.7	63.0	18.6	8.6	8.6	7.2
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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