

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: P677444

Luminaire Tested: **CCW-SA-2B-750-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677444
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-750-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

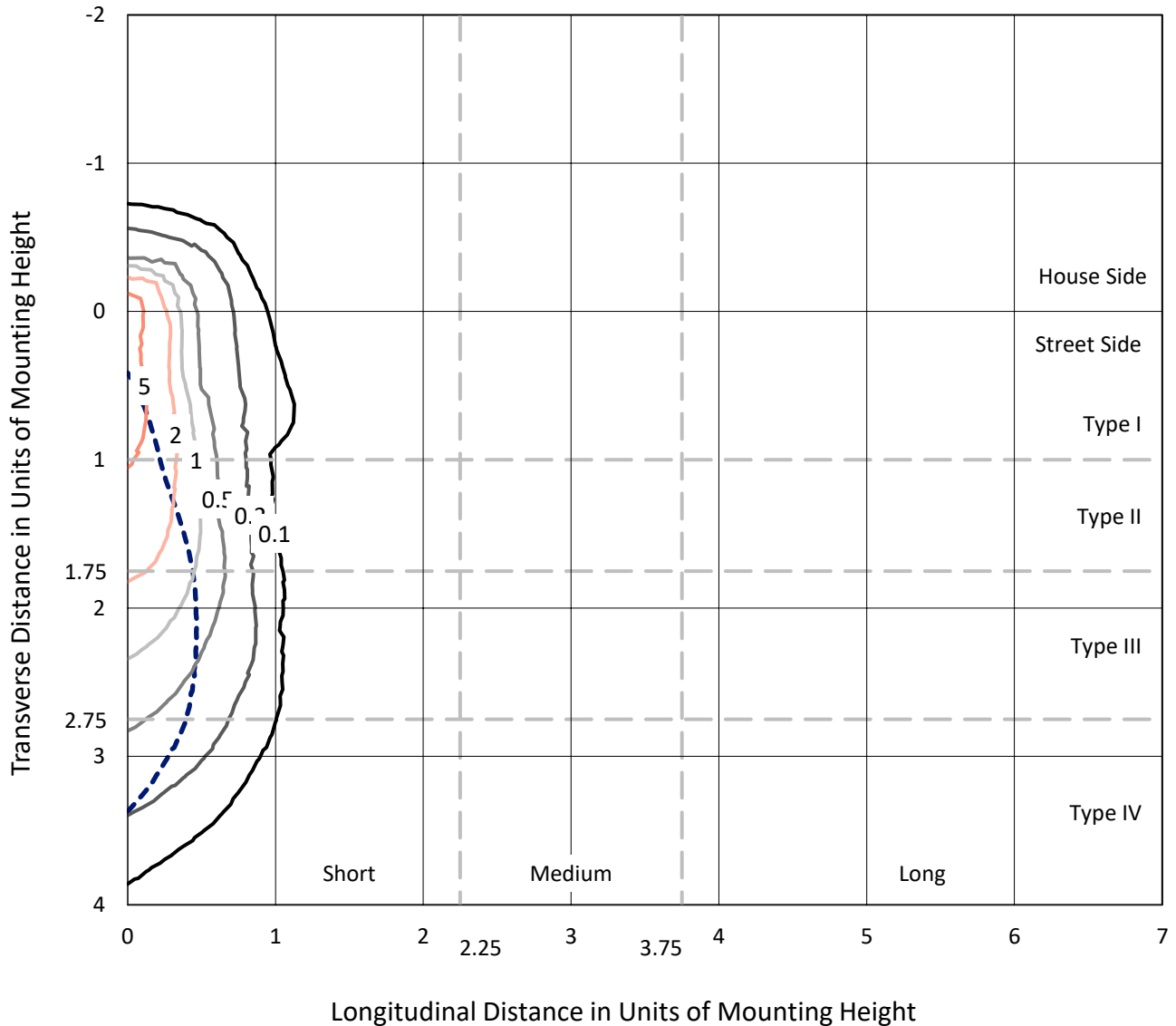
Lumens per Lamp: N/A
Luminaire Lumens: 5076.7 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

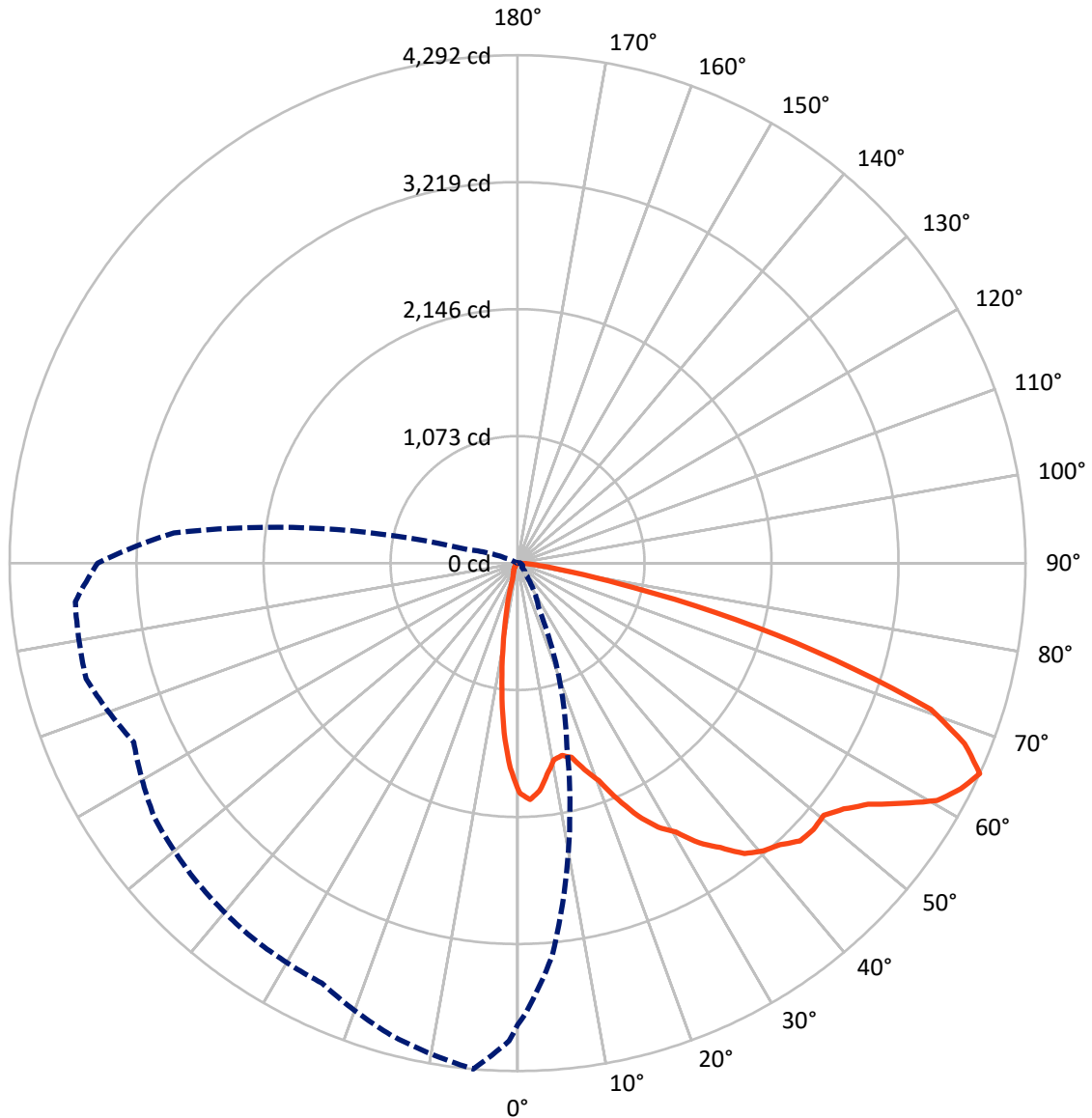
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 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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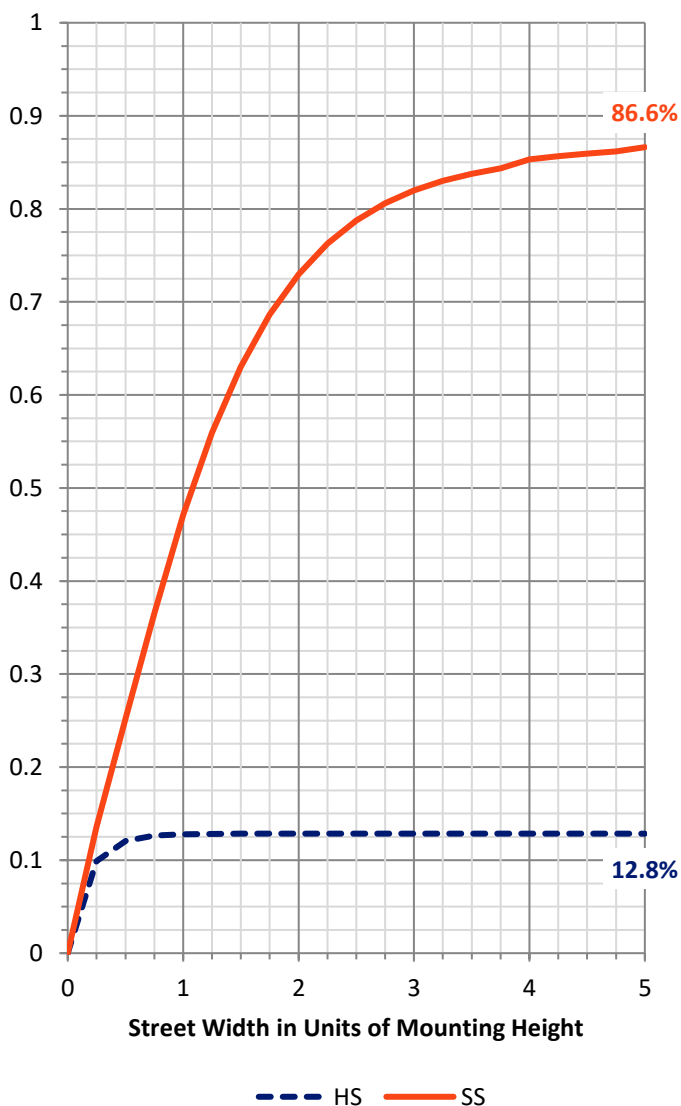
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	659.1	0.0	659.1
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4417.5	0.0	4417.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	5076.7	0.0	5076.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	2.9
10°-20°	284.7	5.6
20°-30°	396.5	7.8
30°-40°	563.4	11.1
40°-50°	781.2	15.4
50°-60°	1064.5	21.0
60°-70°	1170.3	23.1
70°-80°	575.2	11.3
80°-90°	93.9	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°	5076.7	100.0
0°-180°	5076.7	100.0



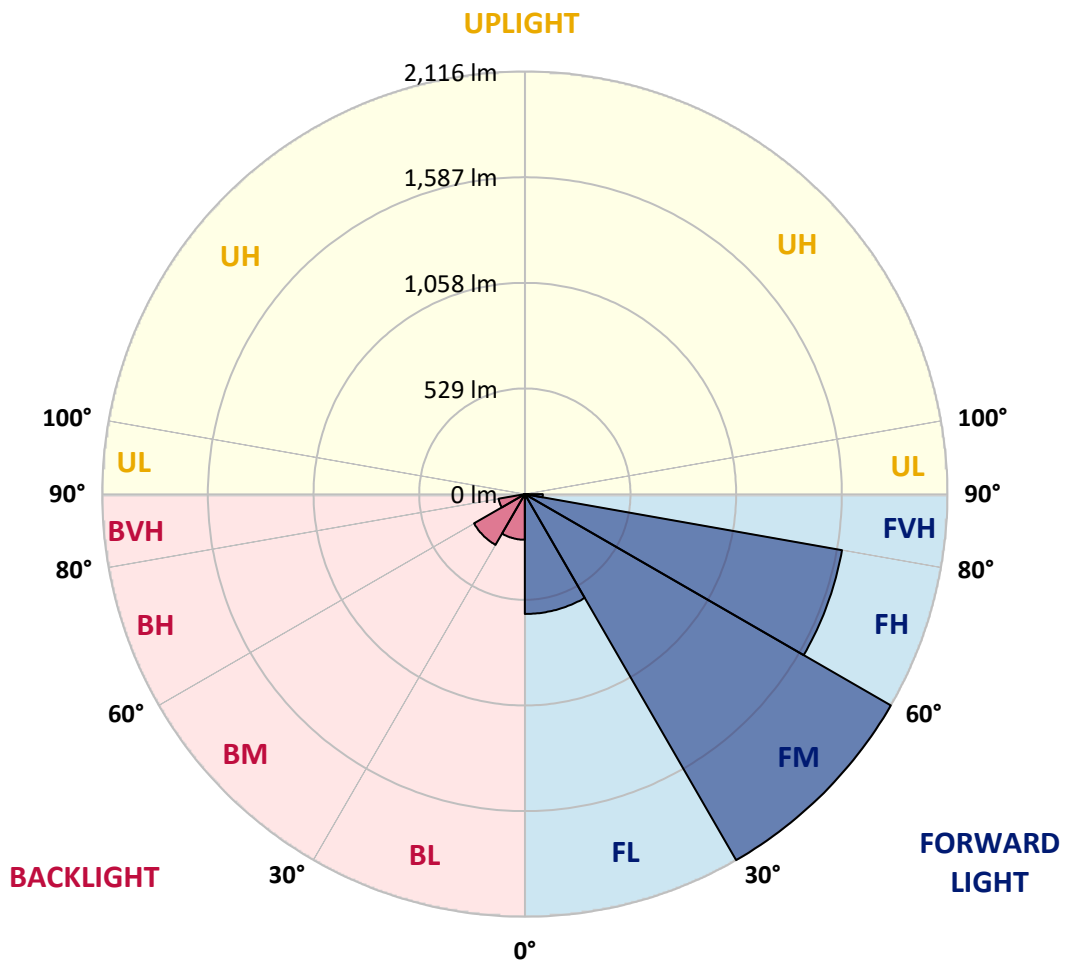
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.0	11.8			
FM (30°-60°)	2115.6	41.7			
FH (60°-80°)	1612.3	31.8			G1/1800
FVH (80°-90°)	89.7	1.8			G1/100
BL (0°-30°)	228.2	4.5	B1/500		
BM (30°-60°)	293.5	5.8	B1/1000		
BH (60°-80°)	133.2	2.6	B1/500		G1/500
BVH (80°-90°)	4.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1980.5	2003.8	1981.9	1905.2	1891.5	1854.6	1798.5	1794.4	1735.5	1742.3	1710.9
5°	1861.4	1884.7	1838.2	1736.9	1642.4	1567.2	1522.0	1441.2	1423.4	1383.7	1383.7
7.5°	1739.6	1738.2	1658.9	1574.0	1433.0	1294.8	1231.8	1115.5	1047.1	1010.1	974.5
10°	1638.3	1616.4	1567.2	1392.0	1238.7	1095.0	1016.9	940.3	869.1	807.5	745.9
12.5°	1567.2	1580.8	1502.8	1312.6	1114.1	1014.2	930.7	850.0	765.1	695.3	626.9
15°	1604.1	1582.2	1490.5	1294.8	1093.6	956.7	845.9	747.3	652.9	561.2	509.2
17.5°	1719.1	1663.0	1554.8	1294.8	1051.2	869.1	735.0	618.6	517.4	435.2	370.9
20°	1873.7	1809.4	1693.1	1342.7	1019.7	804.8	621.4	474.9	369.5	292.9	243.6
22.5°	2032.5	1981.9	1806.7	1361.9	982.7	718.6	490.0	343.5	246.4	197.1	172.5
25°	2222.8	2151.6	1960.0	1438.5	928.0	635.1	386.0	239.5	183.4	157.4	142.3
27.5°	2374.7	2362.4	2103.7	1485.0	886.9	566.6	305.2	190.2	151.9	132.8	123.2
30°	2566.3	2499.2	2278.9	1578.1	840.4	488.6	254.6	171.1	139.6	119.1	112.2
32.5°	2681.3	2649.8	2370.6	1630.1	788.4	424.3	219.0	150.6	127.3	112.2	105.4
35°	2848.3	2785.3	2502.0	1663.0	761.0	387.3	197.1	136.9	106.8	91.7	83.5
37.5°	3034.4	3011.1	2659.4	1661.6	721.3	365.4	182.0	127.3	101.3	84.9	75.3
40°	3224.6	3130.2	2755.2	1699.9	700.8	349.0	171.1	121.8	95.8	80.8	68.4
42.5°	3367.0	3258.9	2866.0	1686.2	676.1	320.3	167.0	113.6	91.7	73.9	63.0
45°	3405.3	3367.0	2966.0	1682.1	658.3	297.0	160.1	112.2	89.0	69.8	58.9
47.5°	3479.2	3453.2	3089.1	1689.0	644.7	279.2	143.7	115.0	84.9	65.7	56.1
50°	3512.1	3465.5	3189.1	1705.4	613.2	257.3	128.7	120.4	83.5	64.3	53.4
52.5°	3647.6	3606.5	3325.9	1751.9	587.2	228.6	113.6	115.0	86.2	60.2	50.6
55°	3780.3	3733.8	3536.7	1858.7	550.2	205.3	97.2	101.3	82.1	54.7	45.2
57.5°	3962.4	3885.7	3677.7	1902.5	517.4	173.8	86.2	83.5	76.6	49.3	39.7
60°	3989.7	4021.2	3657.1	1875.1	483.1	153.3	75.3	64.3	82.1	43.8	34.2
62.5°	4081.4	3950.0	3561.3	1812.2	458.5	141.0	67.1	53.4	71.2	38.3	28.7
65°	3904.9	3807.7	3336.9	1609.6	427.0	142.3	58.9	43.8	45.2	31.5	23.3
67.5°	3646.2	3569.6	2964.6	1389.2	395.6	139.6	52.0	38.3	34.2	27.4	20.5
70°	3200.0	3034.4	2518.4	1127.8	349.0	130.0	43.8	34.2	28.7	21.9	15.1
72.5°	2328.1	2261.1	1806.7	871.9	313.4	117.7	41.1	28.7	24.6	16.4	12.3
75°	1567.2	1456.3	1140.1	572.1	251.8	102.7	34.2	26.0	19.2	12.3	9.6
77.5°	828.1	782.9	646.0	272.4	139.6	47.9	19.2	15.1	10.9	9.6	5.5
80°	358.6	318.9	279.2	110.9	49.3	21.9	12.3	8.2	6.8	5.5	2.7
82.5°	183.4	175.2	145.1	47.9	28.7	16.4	6.8	5.5	4.1	2.7	1.4
85°	90.3	93.1	76.6	15.1	16.4	9.6	1.4	1.4	0.0	0.0	0.0
87.5°	6.8	6.8	5.5	2.7	4.1	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°	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1698.5	1717.7	1684.9	1705.4	1695.8	1699.9	1704.0	1693.1	1695.8	1734.1	1735.5
5°	1360.5	1397.4	1383.7	1402.9	1435.8	1419.3	1434.4	1431.7	1434.4	1439.9	1464.5
7.5°	970.4	959.5	985.5	1036.1	1095.0	1130.5	1112.7	1103.2	1097.7	1084.0	1100.4
10°	732.3	726.8	719.9	735.0	773.3	813.0	834.9	797.9	777.4	751.4	741.8
12.5°	607.7	573.5	554.3	531.1	542.0	577.6	579.0	543.4	510.5	496.8	511.9
15°	479.0	455.8	421.6	388.7	372.3	399.7	376.4	342.2	299.7	294.3	292.9
17.5°	342.2	328.5	303.8	290.2	271.0	264.2	239.5	187.5	157.4	149.2	151.9
20°	232.7	221.7	220.4	208.0	199.8	194.4	154.7	120.4	110.9	112.2	113.6
22.5°	172.5	167.0	160.1	158.8	151.9	145.1	113.6	101.3	94.4	94.4	98.5
25°	141.0	138.2	131.4	128.7	125.9	116.3	95.8	86.2	83.5	80.8	84.9
27.5°	120.4	119.1	115.0	110.9	108.1	98.5	83.5	75.3	72.5	72.5	72.5
30°	108.1	108.1	102.7	94.4	94.4	83.5	71.2	65.7	63.0	63.0	61.6
32.5°	101.3	98.5	91.7	86.2	82.1	71.2	63.0	57.5	53.4	53.4	54.7
35°	82.1	82.1	80.8	76.6	71.2	60.2	53.4	47.9	45.2	43.8	45.2
37.5°	72.5	68.4	63.0	64.3	61.6	52.0	45.2	41.1	37.0	37.0	37.0
40°	65.7	61.6	56.1	52.0	50.6	46.5	39.7	32.8	28.7	27.4	27.4
42.5°	58.9	56.1	47.9	41.1	39.7	39.7	30.1	24.6	20.5	20.5	20.5
45°	54.7	50.6	43.8	35.6	28.7	30.1	24.6	17.8	15.1	13.7	13.7
47.5°	52.0	47.9	38.3	30.1	21.9	21.9	17.8	12.3	9.6	8.2	8.2
50°	47.9	43.8	34.2	24.6	16.4	13.7	10.9	6.8	4.1	2.7	2.7
52.5°	45.2	41.1	30.1	20.5	13.7	9.6	6.8	1.4	0.0	0.0	0.0
55°	41.1	35.6	26.0	16.4	10.9	5.5	1.4	0.0	0.0	0.0	0.0
57.5°	35.6	31.5	20.5	12.3	6.8	1.4	0.0	0.0	0.0	0.0	0.0
60°	30.1	26.0	16.4	9.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24.6	21.9	12.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	20.5	16.4	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.8	13.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.7	9.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.6	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.1	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°	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1741.0	1782.0	1820.4	1831.3	1861.4	1944.9	1944.9	1984.6	2055.8	2081.8	2087.3
5°	1468.6	1512.4	1520.6	1605.5	1645.2	1730.0	1786.1	1920.3	2001.0	2051.7	2083.2
7.5°	1116.9	1131.9	1163.4	1242.8	1320.8	1423.4	1530.2	1701.3	1843.6	1901.1	2007.9
10°	767.8	813.0	881.4	952.6	1074.4	1188.0	1326.3	1487.8	1663.0	1734.1	1825.8
12.5°	517.4	580.3	689.8	791.1	903.3	1018.3	1149.7	1366.0	1564.4	1663.0	1754.7
15°	302.5	379.1	473.6	637.8	787.0	915.7	1047.1	1266.0	1506.9	1634.2	1746.5
17.5°	153.3	176.6	254.6	396.9	594.0	804.8	1000.5	1279.7	1550.7	1706.8	1799.8
20°	115.0	121.8	143.7	210.8	406.5	665.2	956.7	1300.3	1672.5	1862.8	1913.4
22.5°	99.9	105.4	115.0	136.9	228.6	509.2	895.1	1350.9	1838.2	2017.5	2124.2
25°	84.9	90.3	98.5	112.2	146.5	346.3	819.8	1404.3	1986.0	2211.8	2311.7
27.5°	73.9	78.0	86.2	97.2	119.1	220.4	689.8	1475.5	2211.8	2447.2	2473.2
30°	63.0	67.1	73.9	86.2	101.3	156.0	506.4	1485.0	2336.4	2549.9	2622.4
32.5°	54.7	56.1	64.3	75.3	84.9	123.2	355.9	1494.6	2428.1	2682.6	2697.7
35°	45.2	47.9	56.1	63.0	73.9	97.2	269.6	1446.7	2547.1	2819.5	2815.4
37.5°	37.0	41.1	46.5	52.0	60.2	82.1	214.9	1357.7	2696.3	3031.7	2903.0
40°	28.7	32.8	38.3	45.2	50.6	73.9	161.5	1223.6	2852.4	3135.7	2998.8
42.5°	20.5	23.3	28.7	35.6	45.2	61.6	116.3	1064.8	2913.9	3257.5	3113.8
45°	15.1	17.8	21.9	30.1	46.5	49.3	80.8	919.8	2979.6	3310.9	3087.8
47.5°	8.2	10.9	16.4	26.0	41.1	37.0	57.5	789.7	3054.9	3358.8	3108.3
50°	2.7	4.1	9.6	27.4	32.8	28.7	45.2	719.9	3128.8	3368.4	3149.4
52.5°	0.0	0.0	5.5	28.7	24.6	21.9	39.7	692.6	3109.7	3398.5	3123.4
55°	0.0	0.0	1.4	12.3	13.7	16.4	32.8	691.2	3245.2	3408.0	3265.7
57.5°	0.0	0.0	0.0	4.1	8.2	13.7	28.7	647.4	3331.4	3646.2	3457.3
60°	0.0	0.0	0.0	1.4	5.5	9.6	21.9	609.1	3419.0	3753.0	3662.6
62.5°	0.0	0.0	0.0	0.0	1.4	4.1	15.1	550.2	3242.4	3744.7	3861.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.6	435.2	2916.7	3549.0	3751.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	301.1	2554.0	3302.7	3550.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182.0	2061.3	2896.2	3011.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.0	1471.3	2299.4	2470.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	910.2	1680.8	1891.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	589.9	1272.9	1435.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	314.8	797.9	928.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	136.9	484.5	558.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.8	294.3	335.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	60.2
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°	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	2090.0	2129.7	2144.7	2121.5	2124.2	2076.3	2069.5	2002.4	1975.0	1980.5
5°	2185.8	2243.3	2274.8	2248.8	2189.9	2098.2	2014.7	1935.3	1886.1	1861.4
7.5°	2163.9	2228.2	2267.9	2292.6	2225.5	2077.7	1950.4	1801.2	1738.2	1739.6
10°	2043.5	2177.6	2258.3	2226.9	2195.4	2047.6	1850.5	1689.0	1632.9	1638.3
12.5°	1946.3	2095.5	2143.4	2168.0	2103.7	1986.0	1853.2	1668.4	1605.5	1567.2
15°	1886.1	1996.9	1999.7	2038.0	2012.0	2012.0	1882.0	1701.3	1646.5	1604.1
17.5°	1886.1	1910.7	1908.0	1921.6	1965.4	2017.5	1954.5	1834.0	1725.9	1719.1
20°	1928.5	1851.8	1834.0	1839.5	1876.5	2031.1	2114.6	1964.1	1895.6	1873.7
22.5°	2027.0	1858.7	1750.6	1731.4	1845.0	2029.8	2217.3	2169.4	2050.3	2032.5
25°	2162.5	1846.4	1728.7	1704.0	1790.3	2079.0	2358.3	2367.8	2259.7	2222.8
27.5°	2291.2	1901.1	1725.9	1720.4	1834.0	2068.1	2455.4	2526.6	2404.8	2374.7
30°	2335.0	1955.9	1776.6	1704.0	1850.5	2107.8	2452.7	2638.8	2559.5	2566.3
32.5°	2387.0	2010.6	1782.0	1753.3	1920.3	2172.1	2530.7	2819.5	2762.0	2681.3
35°	2463.6	2084.5	1834.0	1808.0	1969.6	2229.6	2547.1	2952.3	2942.7	2848.3
37.5°	2529.3	2157.1	1942.2	1946.3	2120.1	2322.7	2619.7	3115.1	3098.7	3034.4
40°	2575.9	2258.3	2110.5	2121.5	2251.5	2426.7	2748.3	3197.3	3319.1	3224.6
42.5°	2582.7	2348.7	2303.5	2391.1	2512.9	2588.2	2800.3	3253.4	3428.6	3367.0
45°	2608.7	2492.4	2618.3	2682.6	2782.6	2730.5	2797.6	3349.2	3436.8	3405.3
47.5°	2710.0	2753.8	2912.6	3108.3	3143.9	2972.8	2863.3	3364.2	3483.3	3479.2
50°	2815.4	3034.4	3257.5	3387.5	3432.7	3139.8	2924.9	3351.9	3544.9	3512.1
52.5°	2933.1	3278.0	3599.7	3759.8	3735.2	3324.6	2994.7	3451.8	3658.5	3647.6
55°	3007.0	3387.5	3820.0	4043.1	4024.0	3531.2	3216.4	3595.6	3807.7	3780.3
57.5°	3202.7	3565.4	4039.0	4143.0	4193.7	3802.2	3371.1	3831.0	3932.3	3962.4
60°	3364.2	3681.8	4096.5	4247.1	4264.8	3963.7	3642.1	4073.2	4091.0	3989.7
62.5°	3601.0	3727.0	3974.7	4110.2	4201.9	4055.4	3885.7	4203.3	4088.3	4081.4
65°	3774.9	3579.1	3747.5	3822.8	3881.6	3915.8	4130.7	4292.2	4037.6	3904.9
67.5°	3677.7	3299.9	3268.4	3272.5	3290.3	3497.0	4048.6	4074.6	3755.7	3646.2
70°	3237.0	2707.3	2664.8	2697.7	2608.7	2857.8	3716.0	3703.7	3313.6	3200.0
72.5°	2618.3	1973.7	1901.1	1946.3	1966.8	2231.0	3126.1	2808.6	2417.1	2328.1
75°	2080.4	1446.7	1220.9	1330.4	1400.2	1624.6	2441.7	1908.0	1687.6	1567.2
77.5°	1634.2	1095.0	949.9	906.1	970.4	1181.2	1776.6	1001.9	884.2	828.1
80°	1036.1	804.8	873.2	810.3	837.6	843.1	925.2	455.8	362.7	358.6
82.5°	624.1	550.2	654.2	360.0	655.6	585.8	384.6	206.7	183.4	183.4
85°	442.1	340.8	225.8	146.5	291.5	321.6	149.2	106.8	93.1	90.3
87.5°	221.7	105.4	50.6	32.8	37.0	60.2	17.8	8.2	8.2	6.8
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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