

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: P677409

Luminaire Tested: **CCW-SA-1F-730-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677409
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-730-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) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

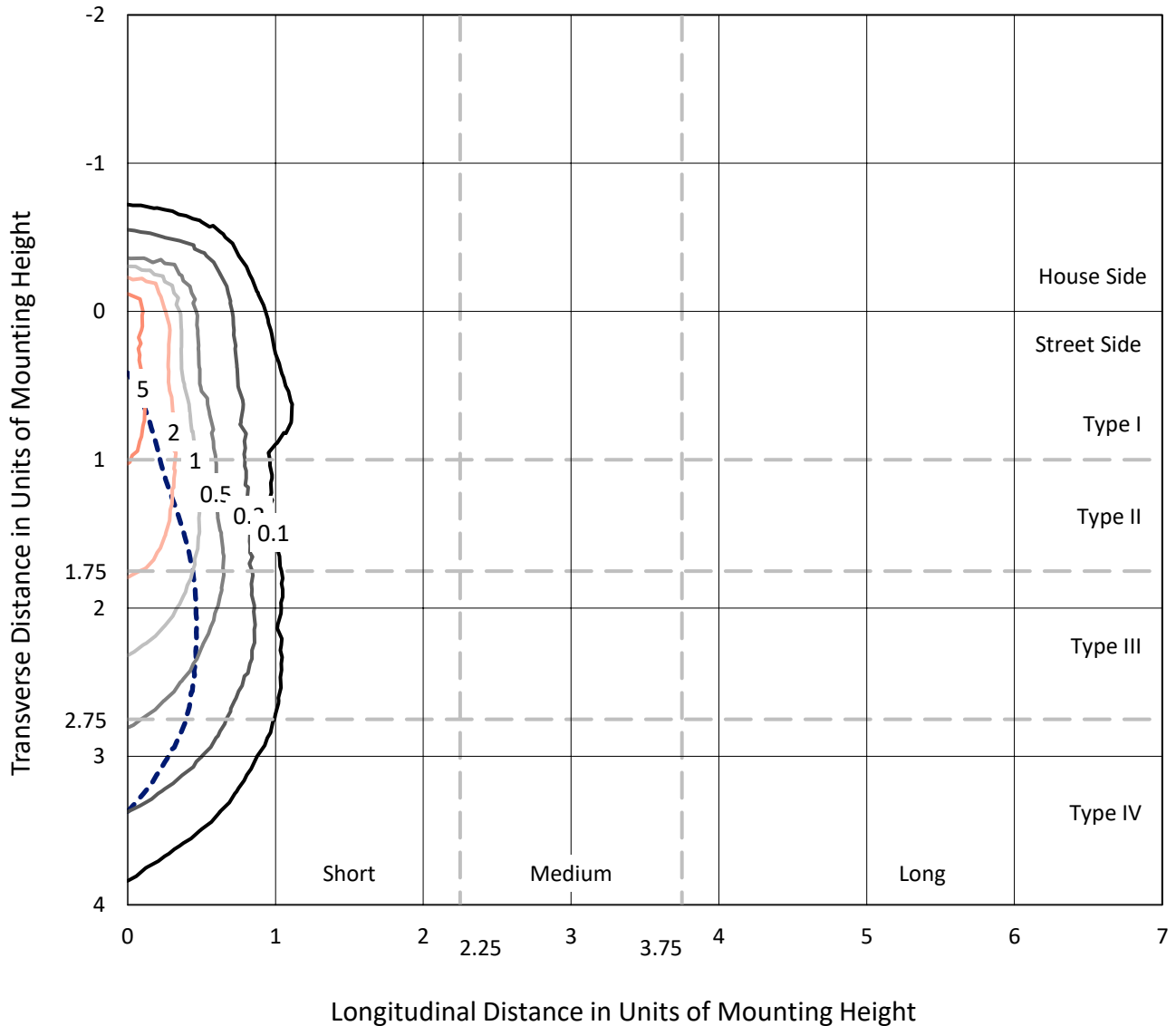
Lumens per Lamp: N/A
Luminaire Lumens: 4906.4 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

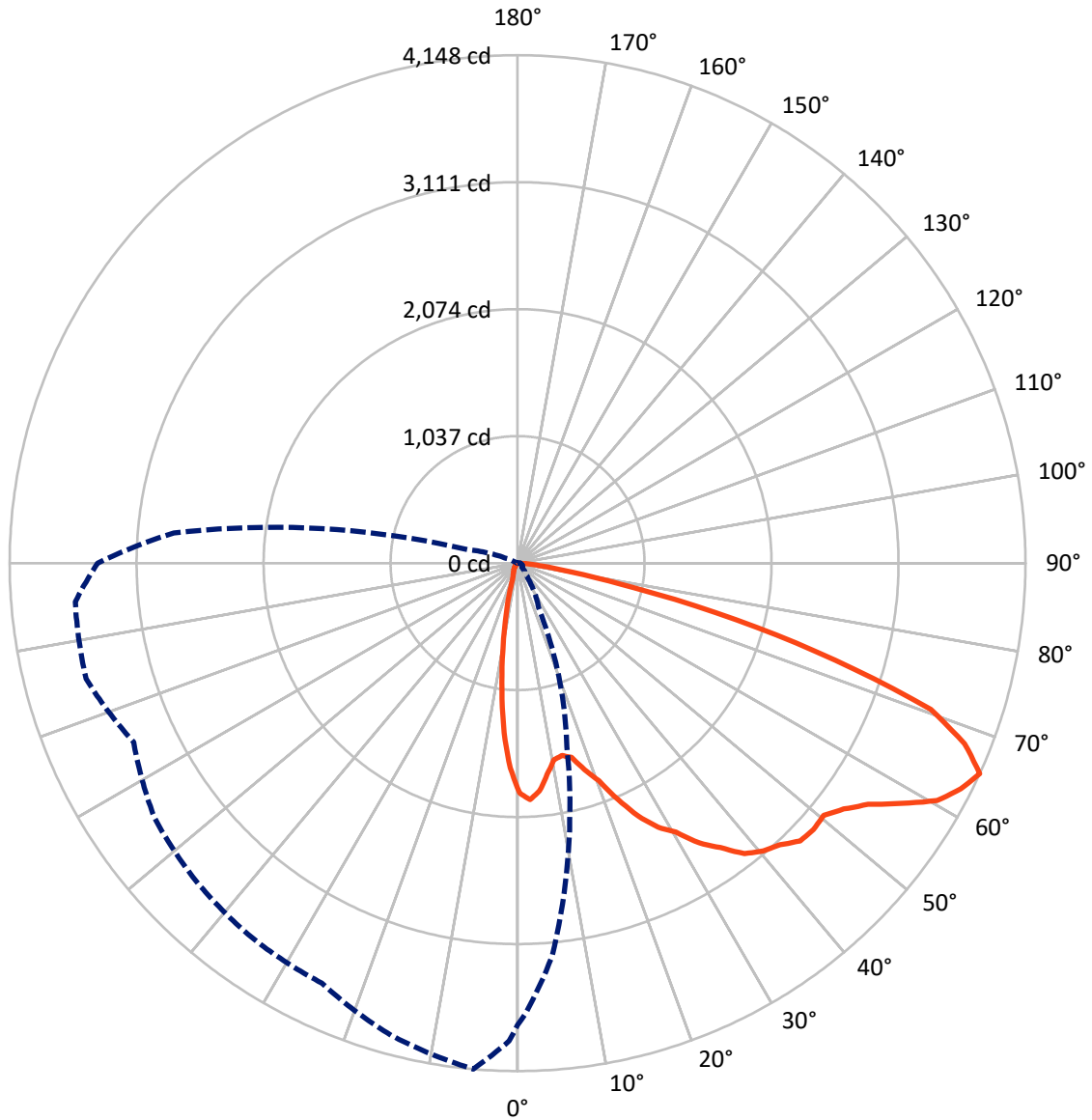
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 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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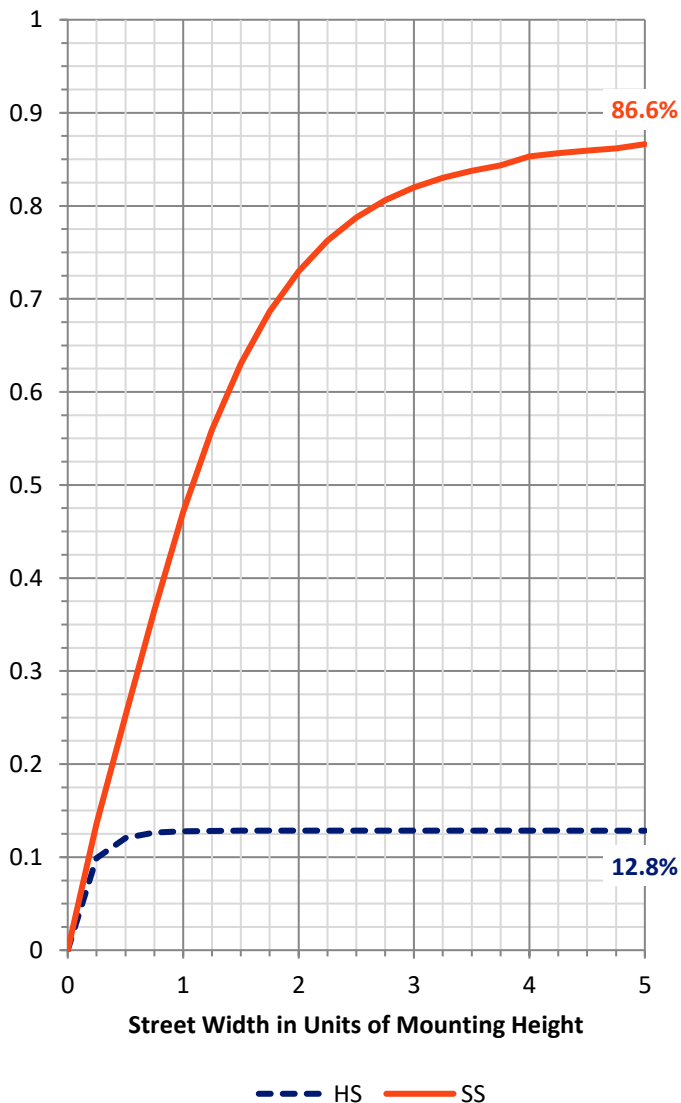
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.0	0.0	637.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4269.3	0.0	4269.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	4906.4	0.0	4906.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	2.9
10°-20°	275.1	5.6
20°-30°	383.2	7.8
30°-40°	544.5	11.1
40°-50°	755.0	15.4
50°-60°	1028.8	21.0
60°-70°	1131.0	23.1
70°-80°	555.9	11.3
80°-90°	90.8	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°	4906.4	100.0
0°-180°	4906.4	100.0



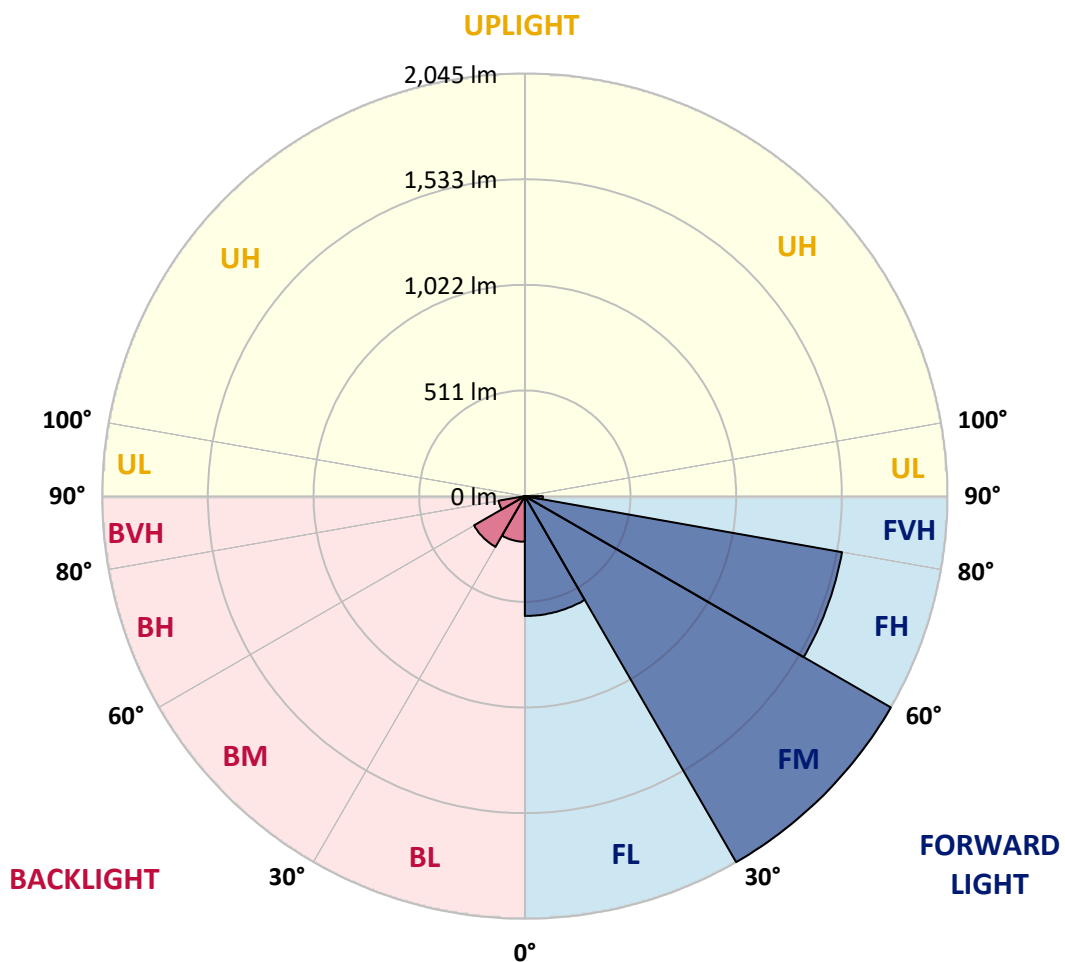
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.8	11.8			
FM (30°-60°)	2044.6	41.7			
FH (60°-80°)	1558.2	31.8			G1/1800
FVH (80°-90°)	86.7	1.8			G1/100
BL (0°-30°)	220.6	4.5	B1/500		
BM (30°-60°)	283.6	5.8	B1/1000		
BH (60°-80°)	128.7	2.6	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7
2.5°	1914.1	1936.6	1915.4	1841.3	1828.1	1792.4	1738.1	1734.2	1677.3	1683.9	1653.5
5°	1799.0	1821.5	1776.5	1678.6	1587.3	1514.6	1470.9	1392.9	1375.7	1337.3	1337.3
7.5°	1681.3	1679.9	1603.2	1521.2	1385.0	1251.4	1190.5	1078.1	1011.9	976.2	941.8
10°	1583.4	1562.2	1514.6	1345.3	1197.1	1058.2	982.8	908.8	840.0	780.4	720.9
12.5°	1514.6	1527.8	1452.4	1268.5	1076.7	980.2	899.5	821.4	739.4	672.0	605.8
15°	1550.3	1529.1	1440.5	1251.4	1056.9	924.6	817.5	722.2	631.0	542.3	492.1
17.5°	1661.4	1607.2	1502.7	1251.4	1015.9	840.0	710.3	597.9	500.0	420.6	358.5
20°	1810.9	1748.7	1636.3	1297.6	985.5	777.8	600.5	459.0	357.2	283.1	235.5
22.5°	1964.3	1915.4	1746.1	1316.2	949.8	694.5	473.6	332.0	238.1	190.5	166.7
25°	2148.2	2079.4	1894.2	1390.2	896.8	613.8	373.0	231.5	177.3	152.1	137.6
27.5°	2295.0	2283.1	2033.1	1435.2	857.2	547.6	295.0	183.9	146.8	128.3	119.1
30°	2480.2	2415.4	2202.4	1525.2	812.2	472.2	246.0	165.3	134.9	115.1	108.5
32.5°	2591.3	2560.9	2291.1	1575.4	761.9	410.1	211.6	145.5	123.0	108.5	101.9
35°	2752.7	2691.9	2418.0	1607.2	735.5	374.3	190.5	132.3	103.2	88.6	80.7
37.5°	2932.6	2910.1	2570.2	1605.9	697.1	353.2	175.9	123.0	97.9	82.0	72.8
40°	3116.5	3025.2	2662.8	1642.9	677.3	337.3	165.3	117.7	92.6	78.0	66.1
42.5°	3254.0	3149.5	2769.9	1629.7	653.5	309.5	161.4	109.8	88.6	71.4	60.8
45°	3291.1	3254.0	2866.5	1625.7	636.3	287.0	154.8	108.5	86.0	67.5	56.9
47.5°	3362.5	3337.4	2985.5	1632.3	623.0	269.8	138.9	111.1	82.0	63.5	54.2
50°	3394.3	3349.3	3082.1	1648.2	592.6	248.7	124.3	116.4	80.7	62.2	51.6
52.5°	3525.2	3485.5	3214.4	1693.2	567.5	220.9	109.8	111.1	83.3	58.2	48.9
55°	3653.5	3608.5	3418.1	1796.3	531.8	198.4	93.9	97.9	79.4	52.9	43.7
57.5°	3829.5	3755.4	3554.3	1838.7	500.0	168.0	83.3	80.7	74.1	47.6	38.4
60°	3855.9	3886.3	3534.5	1812.2	466.9	148.2	72.8	62.2	79.4	42.3	33.1
62.5°	3944.5	3817.5	3441.9	1751.4	443.1	136.2	64.8	51.6	68.8	37.0	27.8
65°	3773.9	3680.0	3224.9	1555.6	412.7	137.6	56.9	42.3	43.7	30.4	22.5
67.5°	3523.9	3449.8	2865.1	1342.6	382.3	134.9	50.3	37.0	33.1	26.5	19.8
70°	3092.7	2932.6	2433.9	1090.0	337.3	125.7	42.3	33.1	27.8	21.2	14.6
72.5°	2250.1	2185.2	1746.1	842.6	302.9	113.8	39.7	27.8	23.8	15.9	11.9
75°	1514.6	1407.4	1101.9	552.9	243.4	99.2	33.1	25.1	18.5	11.9	9.3
77.5°	800.3	756.6	624.4	263.2	134.9	46.3	18.5	14.6	10.6	9.3	5.3
80°	346.6	308.2	269.8	107.1	47.6	21.2	11.9	7.9	6.6	5.3	2.6
82.5°	177.3	169.3	140.2	46.3	27.8	15.9	6.6	5.3	4.0	2.6	1.3
85°	87.3	89.9	74.1	14.6	15.9	9.3	1.3	1.3	0.0	0.0	0.0
87.5°	6.6	6.6	5.3	2.6	4.0	1.3	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°	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7
2.5°	1641.6	1660.1	1628.3	1648.2	1638.9	1642.9	1646.9	1636.3	1638.9	1676.0	1677.3
5°	1314.8	1350.6	1337.3	1355.9	1387.6	1371.7	1386.3	1383.6	1386.3	1391.6	1415.4
7.5°	937.9	927.3	952.4	1001.3	1058.2	1092.6	1075.4	1066.2	1060.9	1047.6	1063.5
10°	707.7	702.4	695.8	710.3	747.4	785.7	806.9	771.2	751.3	726.2	716.9
12.5°	587.3	554.2	535.7	513.2	523.8	558.2	559.5	525.1	493.4	480.2	494.7
15°	463.0	440.5	407.4	375.7	359.8	386.3	363.8	330.7	289.7	284.4	283.1
17.5°	330.7	317.5	293.7	280.4	261.9	255.3	231.5	181.2	152.1	144.2	146.8
20°	224.9	214.3	213.0	201.1	193.1	187.8	149.5	116.4	107.1	108.5	109.8
22.5°	166.7	161.4	154.8	153.4	146.8	140.2	109.8	97.9	91.3	91.3	95.2
25°	136.2	133.6	127.0	124.3	121.7	112.4	92.6	83.3	80.7	78.0	82.0
27.5°	116.4	115.1	111.1	107.1	104.5	95.2	80.7	72.8	70.1	70.1	70.1
30°	104.5	104.5	99.2	91.3	91.3	80.7	68.8	63.5	60.8	60.8	59.5
32.5°	97.9	95.2	88.6	83.3	79.4	68.8	60.8	55.6	51.6	51.6	52.9
35°	79.4	79.4	78.0	74.1	68.8	58.2	51.6	46.3	43.7	42.3	43.7
37.5°	70.1	66.1	60.8	62.2	59.5	50.3	43.7	39.7	35.7	35.7	35.7
40°	63.5	59.5	54.2	50.3	48.9	45.0	38.4	31.7	27.8	26.5	26.5
42.5°	56.9	54.2	46.3	39.7	38.4	38.4	29.1	23.8	19.8	19.8	19.8
45°	52.9	48.9	42.3	34.4	27.8	29.1	23.8	17.2	14.6	13.2	13.2
47.5°	50.3	46.3	37.0	29.1	21.2	21.2	17.2	11.9	9.3	7.9	7.9
50°	46.3	42.3	33.1	23.8	15.9	13.2	10.6	6.6	4.0	2.6	2.6
52.5°	43.7	39.7	29.1	19.8	13.2	9.3	6.6	1.3	0.0	0.0	0.0
55°	39.7	34.4	25.1	15.9	10.6	5.3	1.3	0.0	0.0	0.0	0.0
57.5°	34.4	30.4	19.8	11.9	6.6	1.3	0.0	0.0	0.0	0.0	0.0
60°	29.1	25.1	15.9	9.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23.8	21.2	11.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19.8	15.9	9.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.2	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.2	9.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.3	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	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°	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7
2.5°	1682.6	1722.3	1759.3	1769.9	1799.0	1879.7	1879.7	1918.0	1986.8	2012.0	2017.2
5°	1419.3	1461.7	1469.6	1551.6	1590.0	1672.0	1726.2	1855.9	1933.9	1982.8	2013.3
7.5°	1079.4	1093.9	1124.4	1201.1	1276.5	1375.7	1478.9	1644.2	1781.8	1837.3	1940.5
10°	742.1	785.7	851.9	920.7	1038.4	1148.2	1281.8	1437.9	1607.2	1676.0	1764.6
12.5°	500.0	560.9	666.7	764.6	873.0	984.1	1111.1	1320.1	1511.9	1607.2	1695.8
15°	292.3	366.4	457.7	616.4	760.6	884.9	1011.9	1223.6	1456.4	1579.4	1687.9
17.5°	148.2	170.6	246.0	383.6	574.1	777.8	967.0	1236.8	1498.7	1649.5	1739.5
20°	111.1	117.7	138.9	203.7	392.9	642.9	924.6	1256.6	1616.4	1800.3	1849.2
22.5°	96.6	101.9	111.1	132.3	220.9	492.1	865.1	1305.6	1776.5	1949.8	2053.0
25°	82.0	87.3	95.2	108.5	141.5	334.7	792.3	1357.2	1919.4	2137.6	2234.2
27.5°	71.4	75.4	83.3	93.9	115.1	213.0	666.7	1426.0	2137.6	2365.1	2390.3
30°	60.8	64.8	71.4	83.3	97.9	150.8	489.4	1435.2	2258.0	2464.3	2534.4
32.5°	52.9	54.2	62.2	72.8	82.0	119.1	343.9	1444.5	2346.6	2592.7	2607.2
35°	43.7	46.3	54.2	60.8	71.4	93.9	260.6	1398.2	2461.7	2724.9	2721.0
37.5°	35.7	39.7	45.0	50.3	58.2	79.4	207.7	1312.2	2605.9	2930.0	2805.6
40°	27.8	31.7	37.0	43.7	48.9	71.4	156.1	1182.6	2756.7	3030.5	2898.2
42.5°	19.8	22.5	27.8	34.4	43.7	59.5	112.4	1029.1	2816.2	3148.2	3009.3
45°	14.6	17.2	21.2	29.1	45.0	47.6	78.0	888.9	2879.7	3199.8	2984.2
47.5°	7.9	10.6	15.9	25.1	39.7	35.7	55.6	763.2	2952.4	3246.1	3004.0
50°	2.6	4.0	9.3	26.5	31.7	27.8	43.7	695.8	3023.9	3255.4	3043.7
52.5°	0.0	0.0	5.3	27.8	23.8	21.2	38.4	669.3	3005.4	3284.5	3018.6
55°	0.0	0.0	1.3	11.9	13.2	15.9	31.7	668.0	3136.3	3293.7	3156.2
57.5°	0.0	0.0	0.0	4.0	7.9	13.2	27.8	625.7	3219.6	3523.9	3341.3
60°	0.0	0.0	0.0	1.3	5.3	9.3	21.2	588.6	3304.3	3627.1	3539.8
62.5°	0.0	0.0	0.0	0.0	1.3	4.0	14.6	531.8	3133.7	3619.1	3731.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.3	420.6	2818.8	3430.0	3625.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	291.0	2468.3	3191.9	3431.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.9	1992.1	2799.0	2910.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.4	1422.0	2222.3	2387.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	879.6	1624.4	1828.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	570.1	1230.2	1387.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	304.2	771.2	896.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.3	468.3	539.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.3	284.4	324.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.7	58.2
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°	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7
2.5°	2019.9	2058.2	2072.8	2050.3	2053.0	2006.7	2000.0	1935.2	1908.8	1914.1
5°	2112.5	2168.0	2198.5	2173.3	2116.5	2027.8	1947.1	1870.4	1822.8	1799.0
7.5°	2091.3	2153.5	2191.8	2215.7	2150.8	2008.0	1885.0	1740.8	1679.9	1681.3
10°	1974.9	2104.5	2182.6	2152.2	2121.7	1978.9	1788.4	1632.3	1578.1	1583.4
12.5°	1881.0	2025.2	2071.5	2095.3	2033.1	1919.4	1791.0	1612.5	1551.6	1514.6
15°	1822.8	1929.9	1932.6	1969.6	1944.5	1944.5	1818.8	1644.2	1591.3	1550.3
17.5°	1822.8	1846.6	1844.0	1857.2	1899.5	1949.8	1888.9	1772.5	1668.0	1661.4
20°	1863.8	1789.7	1772.5	1777.8	1813.5	1963.0	2043.7	1898.2	1832.1	1810.9
22.5°	1959.0	1796.3	1691.8	1673.3	1783.1	1961.7	2142.9	2096.6	1981.5	1964.3
25°	2090.0	1784.4	1670.7	1646.9	1730.2	2009.3	2279.2	2288.4	2183.9	2148.2
27.5°	2214.3	1837.3	1668.0	1662.7	1772.5	1998.7	2373.1	2441.9	2324.1	2295.0
30°	2256.7	1890.3	1717.0	1646.9	1788.4	2037.1	2370.4	2550.3	2473.6	2480.2
32.5°	2306.9	1943.2	1722.3	1694.5	1855.9	2099.3	2445.8	2724.9	2669.4	2591.3
35°	2381.0	2014.6	1772.5	1747.4	1903.5	2154.8	2461.7	2853.2	2844.0	2752.7
37.5°	2444.5	2084.7	1877.0	1881.0	2049.0	2244.8	2531.8	3010.7	2994.8	2932.6
40°	2489.5	2182.6	2039.7	2050.3	2176.0	2345.3	2656.1	3090.0	3207.7	3116.5
42.5°	2496.1	2269.9	2226.2	2310.9	2428.6	2501.4	2706.4	3144.3	3313.6	3254.0
45°	2521.2	2408.8	2530.5	2592.7	2689.2	2638.9	2703.8	3236.8	3321.5	3291.1
47.5°	2619.1	2661.4	2814.9	3004.0	3038.4	2873.1	2767.3	3251.4	3366.5	3362.5
50°	2721.0	2932.6	3148.2	3273.9	3317.5	3034.5	2826.8	3239.5	3426.0	3394.3
52.5°	2834.7	3168.1	3478.9	3633.7	3609.9	3213.0	2894.2	3336.1	3535.8	3525.2
55°	2906.2	3273.9	3691.9	3907.5	3889.0	3412.8	3108.5	3474.9	3680.0	3653.5
57.5°	3095.3	3445.8	3903.5	4004.1	4053.0	3674.7	3258.0	3702.5	3800.4	3829.5
60°	3251.4	3558.3	3959.1	4104.6	4121.8	3830.8	3519.9	3936.6	3953.8	3855.9
62.5°	3480.2	3601.9	3841.4	3972.3	4060.9	3919.4	3755.4	4062.3	3951.1	3944.5
65°	3648.2	3459.1	3621.8	3694.5	3751.4	3784.5	3992.2	4148.2	3902.2	3773.9
67.5°	3554.3	3189.2	3158.8	3162.8	3180.0	3379.7	3912.8	3937.9	3629.7	3523.9
70°	3128.4	2616.5	2575.5	2607.2	2521.2	2762.0	3591.4	3579.4	3202.5	3092.7
72.5°	2530.5	1907.5	1837.3	1881.0	1900.8	2156.1	3021.2	2714.3	2336.0	2250.1
75°	2010.6	1398.2	1179.9	1285.7	1353.2	1570.1	2359.8	1844.0	1631.0	1514.6
77.5°	1579.4	1058.2	918.0	875.7	937.9	1141.6	1717.0	968.3	854.5	800.3
80°	1001.3	777.8	843.9	783.1	809.5	814.8	894.2	440.5	350.5	346.6
82.5°	603.2	531.8	632.3	347.9	633.6	566.2	371.7	199.7	177.3	177.3
85°	427.3	329.4	218.3	141.5	281.8	310.9	144.2	103.2	89.9	87.3
87.5°	214.3	101.9	48.9	31.7	35.7	58.2	17.2	7.9	7.9	6.6
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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