

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: P677419

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677419
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-735-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

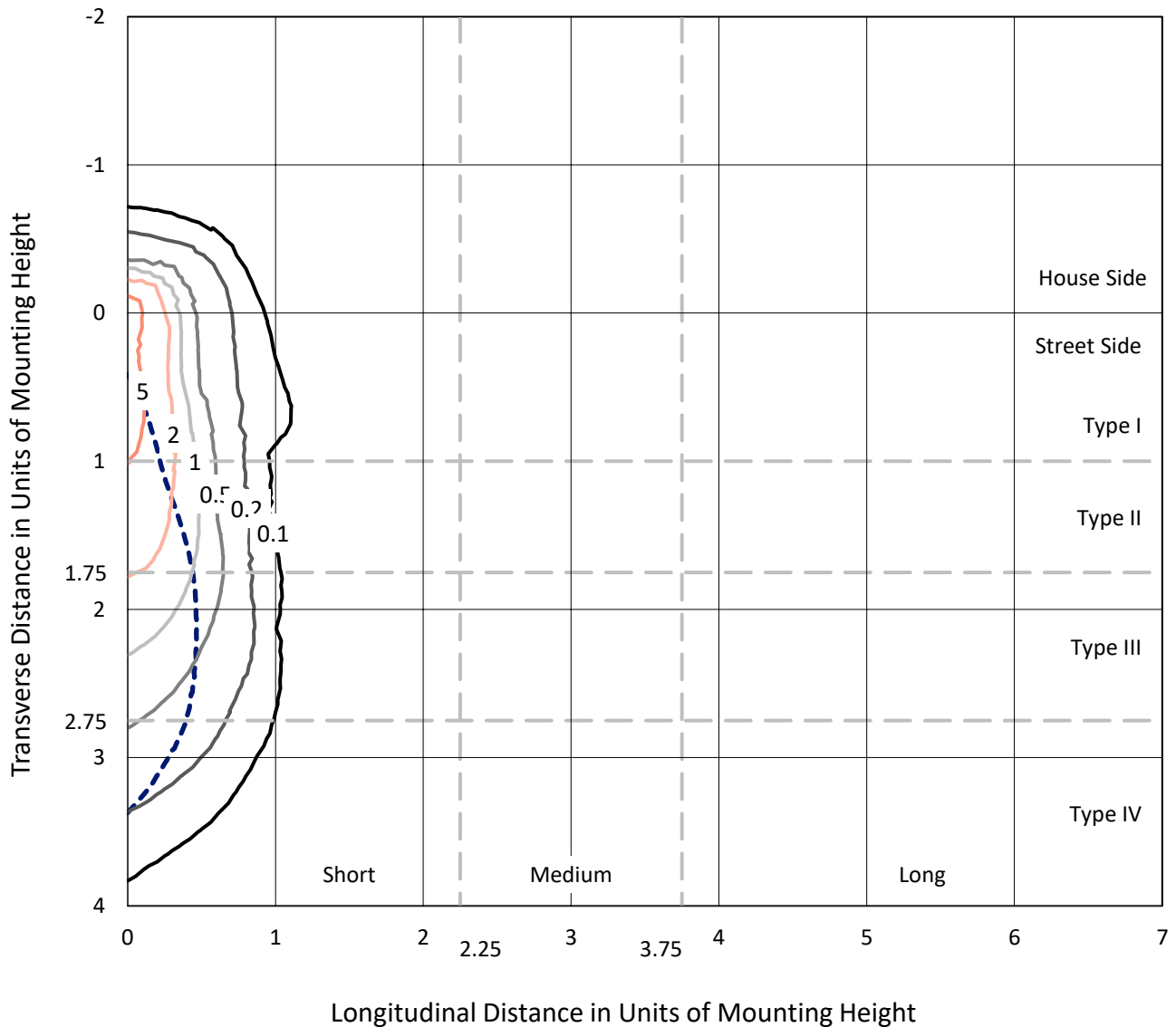
Lumens per Lamp: N/A
Luminaire Lumens: 4846 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

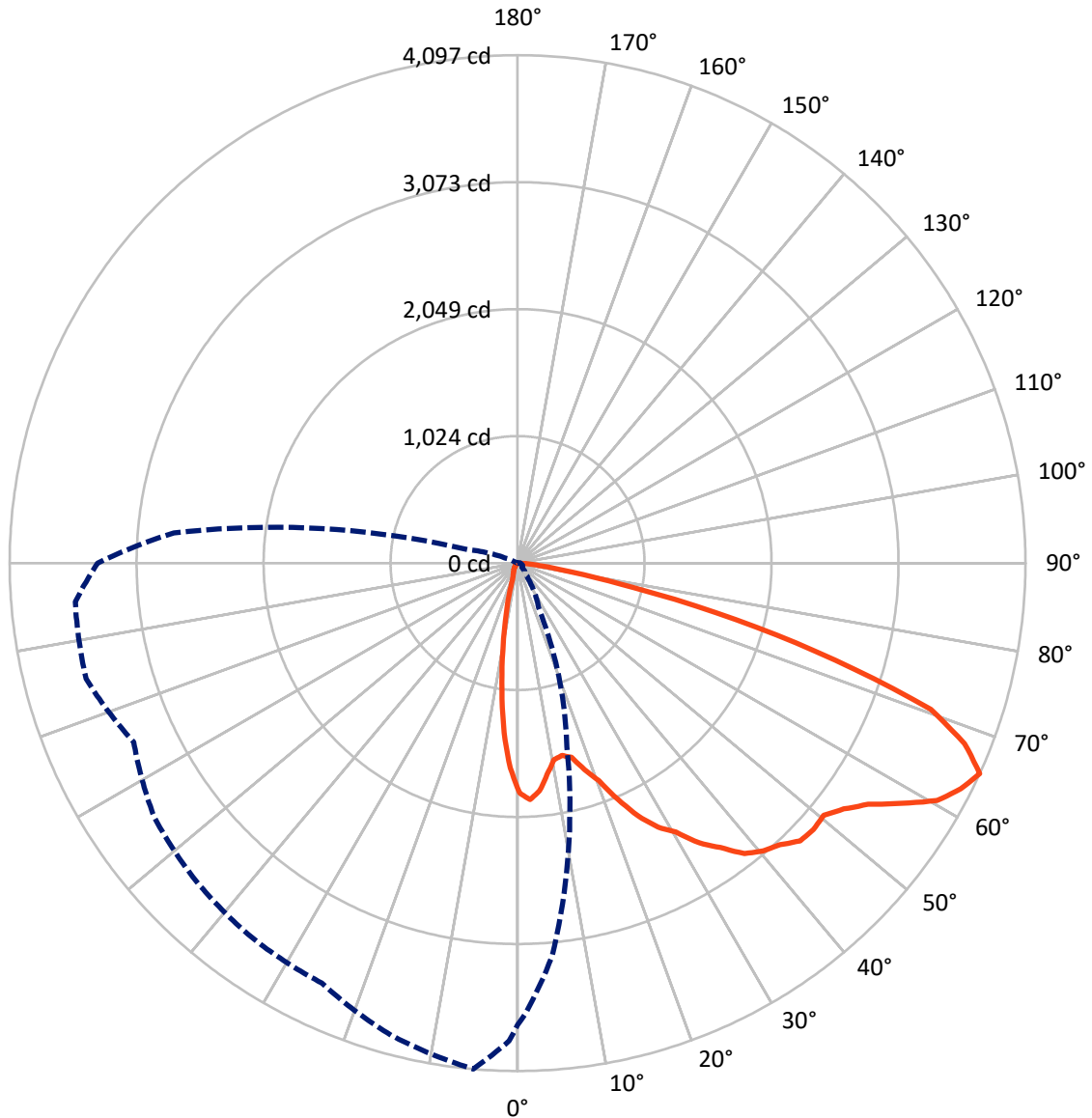
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.2 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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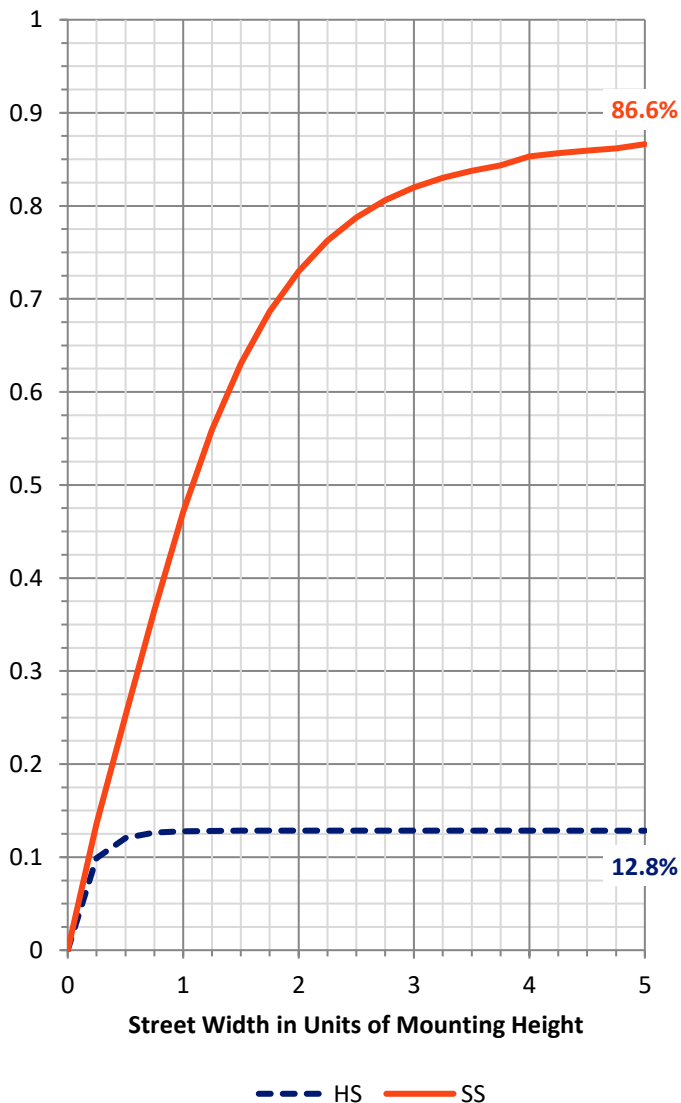
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.2	0.0	629.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4216.8	0.0	4216.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	4846.0	0.0	4846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	2.9
10°-20°	271.7	5.6
20°-30°	378.5	7.8
30°-40°	537.8	11.1
40°-50°	745.7	15.4
50°-60°	1016.1	21.0
60°-70°	1117.1	23.1
70°-80°	549.1	11.3
80°-90°	89.7	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°	4846.0	100.0
0°-180°	4846.0	100.0



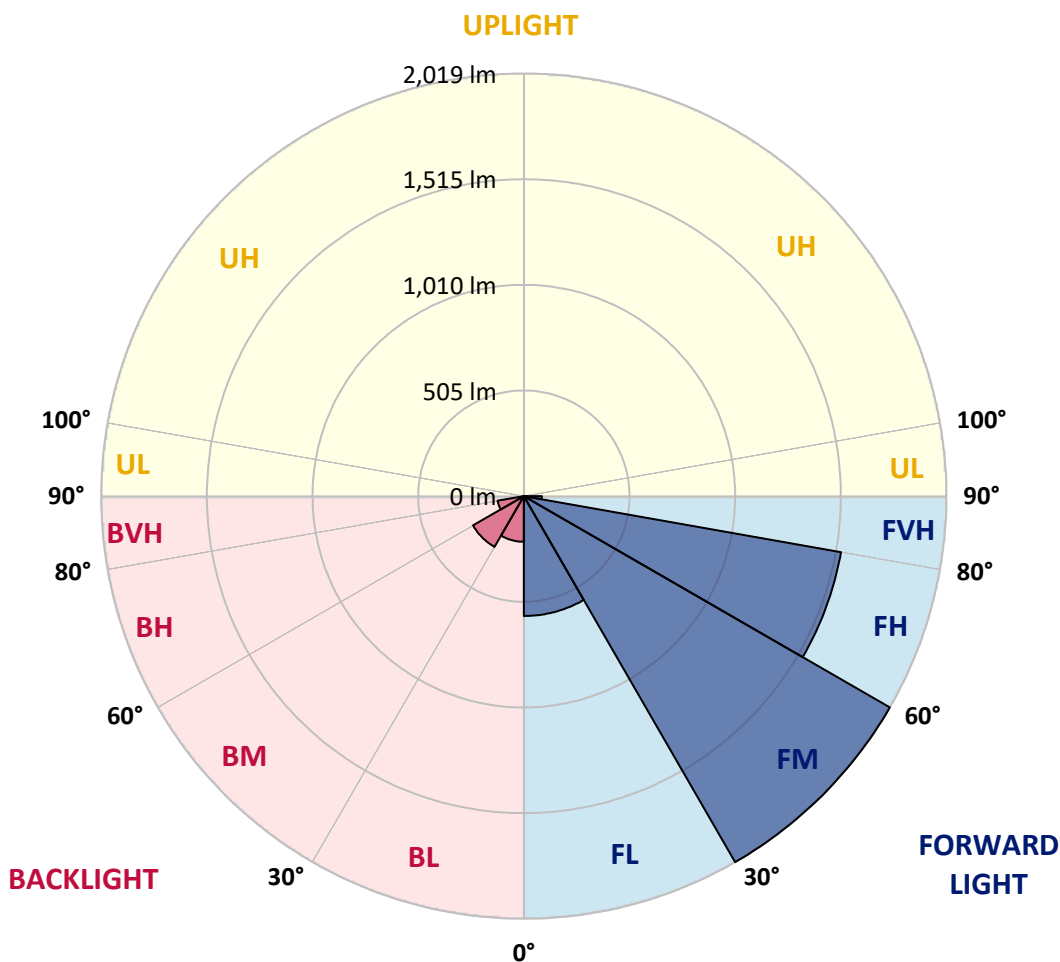
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.7	11.8			
FM (30°-60°)	2019.5	41.7			
FH (60°-80°)	1539.0	31.8			G1/1800
FVH (80°-90°)	85.6	1.8			G1/100
BL (0°-30°)	217.9	4.5	B1/500		
BM (30°-60°)	280.1	5.8	B1/1000		
BH (60°-80°)	127.2	2.6	B1/500		G1/500
BVH (80°-90°)	4.0	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°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1890.5	1912.7	1891.8	1818.7	1805.6	1770.3	1716.7	1712.8	1656.6	1663.2	1633.1
5°	1776.8	1799.1	1754.6	1658.0	1567.8	1495.9	1452.8	1375.7	1358.8	1320.9	1320.9
7.5°	1660.6	1659.3	1583.5	1502.5	1367.9	1236.0	1175.9	1064.8	999.5	964.2	930.2
10°	1563.9	1543.0	1495.9	1328.7	1182.4	1045.2	970.7	897.6	829.6	770.8	712.0
12.5°	1495.9	1509.0	1434.5	1252.9	1063.5	968.1	888.4	811.3	730.3	663.7	598.4
15°	1531.2	1510.3	1422.8	1236.0	1043.9	913.2	807.4	713.4	623.2	535.7	486.0
17.5°	1641.0	1587.4	1484.2	1236.0	1003.4	829.6	701.6	590.5	493.9	415.5	354.1
20°	1788.6	1727.2	1616.1	1281.7	973.3	768.2	593.2	453.4	352.8	279.6	232.6
22.5°	1940.2	1891.8	1724.6	1300.0	938.1	685.9	467.7	327.9	235.2	188.1	164.6
25°	2121.8	2053.8	1870.9	1373.1	885.8	606.2	368.4	228.6	175.1	150.2	135.9
27.5°	2266.8	2255.0	2008.1	1417.6	846.6	540.9	291.4	181.6	145.0	126.7	117.6
30°	2449.7	2385.7	2175.3	1506.4	802.2	466.4	243.0	163.3	133.3	113.7	107.1
32.5°	2559.4	2529.4	2262.9	1556.0	752.5	405.0	209.0	143.7	121.5	107.1	100.6
35°	2718.8	2658.7	2388.3	1587.4	726.4	369.7	188.1	130.7	101.9	87.5	79.7
37.5°	2896.5	2874.3	2538.5	1586.1	688.5	348.8	173.8	121.5	96.7	81.0	71.9
40°	3078.1	2988.0	2630.0	1622.7	668.9	333.2	163.3	116.3	91.5	77.1	65.3
42.5°	3214.0	3110.8	2735.8	1609.6	645.4	305.7	159.4	108.4	87.5	70.6	60.1
45°	3250.6	3214.0	2831.2	1605.7	628.4	283.5	152.9	107.1	84.9	66.6	56.2
47.5°	3321.1	3296.3	2948.8	1612.2	615.4	266.5	137.2	109.7	81.0	62.7	53.6
50°	3352.5	3308.1	3044.2	1627.9	585.3	245.6	122.8	115.0	79.7	61.4	51.0
52.5°	3481.8	3442.6	3174.8	1672.3	560.5	218.2	108.4	109.7	82.3	57.5	48.3
55°	3608.6	3564.1	3376.0	1774.2	525.2	196.0	92.8	96.7	78.4	52.3	43.1
57.5°	3782.3	3709.2	3510.6	1816.0	493.9	165.9	82.3	79.7	73.2	47.0	37.9
60°	3808.5	3838.5	3491.0	1789.9	461.2	146.3	71.9	61.4	78.4	41.8	32.7
62.5°	3896.0	3770.6	3399.5	1729.8	437.7	134.6	64.0	51.0	67.9	36.6	27.4
65°	3727.5	3634.7	3185.3	1536.4	407.6	135.9	56.2	41.8	43.1	30.0	22.2
67.5°	3480.5	3407.4	2829.9	1326.1	377.6	133.3	49.6	36.6	32.7	26.1	19.6
70°	3054.6	2896.5	2404.0	1076.6	333.2	124.1	41.8	32.7	27.4	20.9	14.4
72.5°	2222.4	2158.3	1724.6	832.2	299.2	112.4	39.2	27.4	23.5	15.7	11.8
75°	1495.9	1390.1	1088.3	546.1	240.4	98.0	32.7	24.8	18.3	11.8	9.1
77.5°	790.4	747.3	616.7	260.0	133.3	45.7	18.3	14.4	10.5	9.1	5.2
80°	342.3	304.4	266.5	105.8	47.0	20.9	11.8	7.8	6.5	5.2	2.6
82.5°	175.1	167.2	138.5	45.7	27.4	15.7	6.5	5.2	3.9	2.6	1.3
85°	86.2	88.8	73.2	14.4	15.7	9.1	1.3	1.3	0.0	0.0	0.0
87.5°	6.5	6.5	5.2	2.6	3.9	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°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1621.4	1639.7	1608.3	1627.9	1618.8	1622.7	1626.6	1616.1	1618.8	1655.3	1656.6
5°	1298.7	1333.9	1320.9	1339.2	1370.5	1354.8	1369.2	1366.6	1369.2	1374.4	1398.0
7.5°	926.3	915.9	940.7	989.0	1045.2	1079.2	1062.2	1053.0	1047.8	1034.8	1050.4
10°	699.0	693.8	687.2	701.6	738.2	776.1	797.0	761.7	742.1	717.3	708.1
12.5°	580.1	547.4	529.1	506.9	517.4	551.3	552.7	518.7	487.3	474.3	488.6
15°	457.3	435.1	402.4	371.0	355.4	381.5	359.3	326.6	286.1	280.9	279.6
17.5°	326.6	313.6	290.0	277.0	258.7	252.2	228.6	179.0	150.2	142.4	145.0
20°	222.1	211.7	210.3	198.6	190.7	185.5	147.6	115.0	105.8	107.1	108.4
22.5°	164.6	159.4	152.9	151.6	145.0	138.5	108.4	96.7	90.1	90.1	94.1
25°	134.6	132.0	125.4	122.8	120.2	111.1	91.5	82.3	79.7	77.1	81.0
27.5°	115.0	113.7	109.7	105.8	103.2	94.1	79.7	71.9	69.2	69.2	69.2
30°	103.2	103.2	98.0	90.1	90.1	79.7	67.9	62.7	60.1	60.1	58.8
32.5°	96.7	94.1	87.5	82.3	78.4	67.9	60.1	54.9	51.0	51.0	52.3
35°	78.4	78.4	77.1	73.2	67.9	57.5	51.0	45.7	43.1	41.8	43.1
37.5°	69.2	65.3	60.1	61.4	58.8	49.6	43.1	39.2	35.3	35.3	35.3
40°	62.7	58.8	53.6	49.6	48.3	44.4	37.9	31.4	27.4	26.1	26.1
42.5°	56.2	53.6	45.7	39.2	37.9	37.9	28.7	23.5	19.6	19.6	19.6
45°	52.3	48.3	41.8	34.0	27.4	28.7	23.5	17.0	14.4	13.1	13.1
47.5°	49.6	45.7	36.6	28.7	20.9	20.9	17.0	11.8	9.1	7.8	7.8
50°	45.7	41.8	32.7	23.5	15.7	13.1	10.5	6.5	3.9	2.6	2.6
52.5°	43.1	39.2	28.7	19.6	13.1	9.1	6.5	1.3	0.0	0.0	0.0
55°	39.2	34.0	24.8	15.7	10.5	5.2	1.3	0.0	0.0	0.0	0.0
57.5°	34.0	30.0	19.6	11.8	6.5	1.3	0.0	0.0	0.0	0.0	0.0
60°	28.7	24.8	15.7	9.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23.5	20.9	11.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19.6	15.7	9.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.0	13.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.1	9.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.1	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.9	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°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1661.9	1701.1	1737.6	1748.1	1776.8	1856.5	1856.5	1894.4	1962.4	1987.2	1992.4
5°	1401.9	1443.7	1451.5	1532.5	1570.4	1651.4	1705.0	1833.0	1910.1	1958.4	1988.5
7.5°	1066.1	1080.5	1110.5	1186.3	1260.8	1358.8	1460.7	1624.0	1759.9	1814.7	1916.6
10°	732.9	776.1	841.4	909.3	1025.6	1134.0	1266.0	1420.2	1587.4	1655.3	1742.9
12.5°	493.9	554.0	658.5	755.2	862.3	972.0	1097.5	1303.9	1493.3	1587.4	1674.9
15°	288.7	361.9	452.0	608.8	751.2	874.1	999.5	1208.5	1438.5	1560.0	1667.1
17.5°	146.3	168.5	243.0	378.9	567.0	768.2	955.1	1221.6	1480.3	1629.2	1718.1
20°	109.7	116.3	137.2	201.2	388.0	635.0	913.2	1241.2	1596.5	1778.2	1826.5
22.5°	95.4	100.6	109.7	130.7	218.2	486.0	854.5	1289.5	1754.6	1925.8	2027.7
25°	81.0	86.2	94.1	107.1	139.8	330.5	782.6	1340.5	1895.7	2111.3	2206.7
27.5°	70.6	74.5	82.3	92.8	113.7	210.3	658.5	1408.4	2111.3	2336.0	2360.9
30°	60.1	64.0	70.6	82.3	96.7	148.9	483.4	1417.6	2230.2	2434.0	2503.3
32.5°	52.3	53.6	61.4	71.9	81.0	117.6	339.7	1426.7	2317.7	2560.7	2575.1
35°	43.1	45.7	53.6	60.1	70.6	92.8	257.4	1381.0	2431.4	2691.4	2687.5
37.5°	35.3	39.2	44.4	49.6	57.5	78.4	205.1	1296.1	2573.8	2893.9	2771.1
40°	27.4	31.4	36.6	43.1	48.3	70.6	154.2	1168.0	2722.8	2993.2	2862.5
42.5°	19.6	22.2	27.4	34.0	43.1	58.8	111.1	1016.5	2781.5	3109.5	2972.3
45°	14.4	17.0	20.9	28.7	44.4	47.0	77.1	878.0	2844.3	3160.4	2947.5
47.5°	7.8	10.5	15.7	24.8	39.2	35.3	54.9	753.9	2916.1	3206.2	2967.1
50°	2.6	3.9	9.1	26.1	31.4	27.4	43.1	687.2	2986.7	3215.3	3006.3
52.5°	0.0	0.0	5.2	27.4	23.5	20.9	37.9	661.1	2968.4	3244.0	2981.4
55°	0.0	0.0	1.3	11.8	13.1	15.7	31.4	659.8	3097.7	3253.2	3117.3
57.5°	0.0	0.0	0.0	3.9	7.8	13.1	27.4	618.0	3180.0	3480.5	3300.2
60°	0.0	0.0	0.0	1.3	5.2	9.1	20.9	581.4	3263.6	3582.4	3496.2
62.5°	0.0	0.0	0.0	0.0	1.3	3.9	14.4	525.2	3095.1	3574.6	3685.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	415.5	2784.2	3387.8	3581.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	287.4	2437.9	3152.6	3389.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	173.8	1967.6	2764.6	2874.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.5	1404.5	2194.9	2358.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	868.8	1604.4	1805.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	563.1	1215.0	1370.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	300.5	761.7	885.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.7	462.5	533.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8	280.9	320.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	57.5
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°	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6	1852.6
2.5°	1995.0	2032.9	2047.3	2025.1	2027.7	1982.0	1975.4	1911.4	1885.3	1890.5
5°	2086.5	2141.4	2171.4	2146.6	2090.4	2002.9	1923.2	1847.4	1800.4	1776.8
7.5°	2065.6	2127.0	2164.9	2188.4	2124.4	1983.3	1861.8	1719.4	1659.3	1660.6
10°	1950.6	2078.6	2155.7	2125.7	2095.6	1954.5	1766.4	1612.2	1558.7	1563.9
12.5°	1857.8	2000.3	2046.0	2069.5	2008.1	1895.7	1769.0	1592.6	1532.5	1495.9
15°	1800.4	1906.2	1908.8	1945.4	1920.6	1920.6	1796.4	1624.0	1571.7	1531.2
17.5°	1800.4	1823.9	1821.3	1834.3	1876.1	1925.8	1865.7	1750.7	1647.5	1641.0
20°	1840.9	1767.7	1750.7	1755.9	1791.2	1938.8	2018.5	1874.8	1809.5	1788.6
22.5°	1934.9	1774.2	1671.0	1652.7	1761.2	1937.5	2116.5	2070.8	1957.1	1940.2
25°	2064.3	1762.5	1650.1	1626.6	1708.9	1984.6	2251.1	2260.2	2157.0	2121.8
27.5°	2187.1	1814.7	1647.5	1642.3	1750.7	1974.1	2343.9	2411.8	2295.5	2266.8
30°	2228.9	1867.0	1695.8	1626.6	1766.4	2012.0	2341.3	2518.9	2443.2	2449.7
32.5°	2278.5	1919.3	1701.1	1673.6	1833.0	2073.4	2415.7	2691.4	2636.5	2559.4
35°	2351.7	1989.8	1750.7	1725.9	1880.1	2128.3	2431.4	2818.1	2809.0	2718.8
37.5°	2414.4	2059.0	1853.9	1857.8	2023.8	2217.1	2500.6	2973.6	2957.9	2896.5
40°	2458.8	2155.7	2014.6	2025.1	2149.2	2316.4	2623.5	3052.0	3168.3	3078.1
42.5°	2465.4	2242.0	2198.8	2282.5	2398.7	2470.6	2673.1	3105.6	3272.8	3214.0
45°	2490.2	2379.1	2499.3	2560.7	2656.1	2606.5	2670.5	3197.0	3280.6	3250.6
47.5°	2586.9	2628.7	2780.2	2967.1	3001.0	2837.7	2733.2	3211.4	3325.0	3321.1
50°	2687.5	2896.5	3109.5	3233.6	3276.7	2997.1	2792.0	3199.6	3383.8	3352.5
52.5°	2799.8	3129.1	3436.1	3589.0	3565.4	3173.5	2858.6	3295.0	3492.3	3481.8
55°	2870.4	3233.6	3646.4	3859.4	3841.1	3370.8	3070.3	3432.2	3634.7	3608.6
57.5°	3057.2	3403.4	3855.5	3954.8	4003.1	3629.5	3217.9	3656.9	3753.6	3782.3
60°	3211.4	3514.5	3910.4	4054.1	4071.1	3783.6	3476.6	3888.2	3905.1	3808.5
62.5°	3437.4	3557.6	3794.1	3923.4	4011.0	3871.2	3709.2	4012.3	3902.5	3896.0
65°	3603.3	3416.5	3577.2	3649.1	3705.2	3737.9	3943.0	4097.2	3854.2	3727.5
67.5°	3510.6	3150.0	3119.9	3123.8	3140.8	3338.1	3864.6	3889.5	3585.0	3480.5
70°	3089.9	2584.3	2543.8	2575.1	2490.2	2728.0	3547.2	3535.4	3163.0	3054.6
72.5°	2499.3	1884.0	1814.7	1857.8	1877.4	2129.6	2984.1	2680.9	2307.3	2222.4
75°	1985.9	1381.0	1165.4	1269.9	1336.6	1550.8	2330.8	1821.3	1610.9	1495.9
77.5°	1560.0	1045.2	906.7	864.9	926.3	1127.5	1695.8	956.4	844.0	790.4
80°	989.0	768.2	833.5	773.4	799.6	804.8	883.2	435.1	346.2	342.3
82.5°	595.8	525.2	624.5	343.6	625.8	559.2	367.1	197.3	175.1	175.1
85°	422.0	325.3	215.6	139.8	278.3	307.0	142.4	101.9	88.8	86.2
87.5°	211.7	100.6	48.3	31.4	35.3	57.5	17.0	7.8	7.8	6.5
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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