

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: P677452

Luminaire Tested: **CCW-SA-1E-760-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677452
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-760-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) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

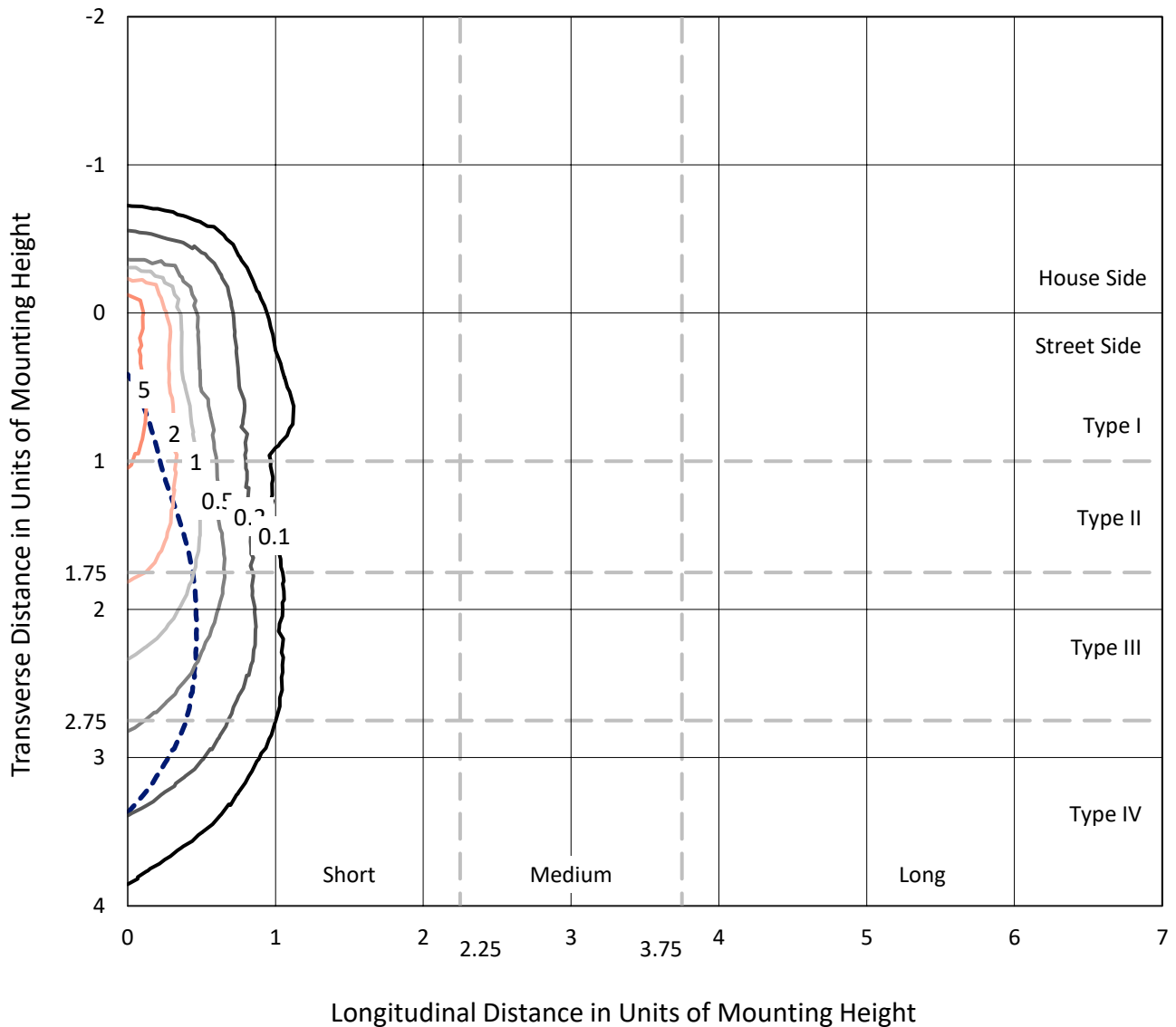
Lumens per Lamp: N/A
Luminaire Lumens: 5025.8 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

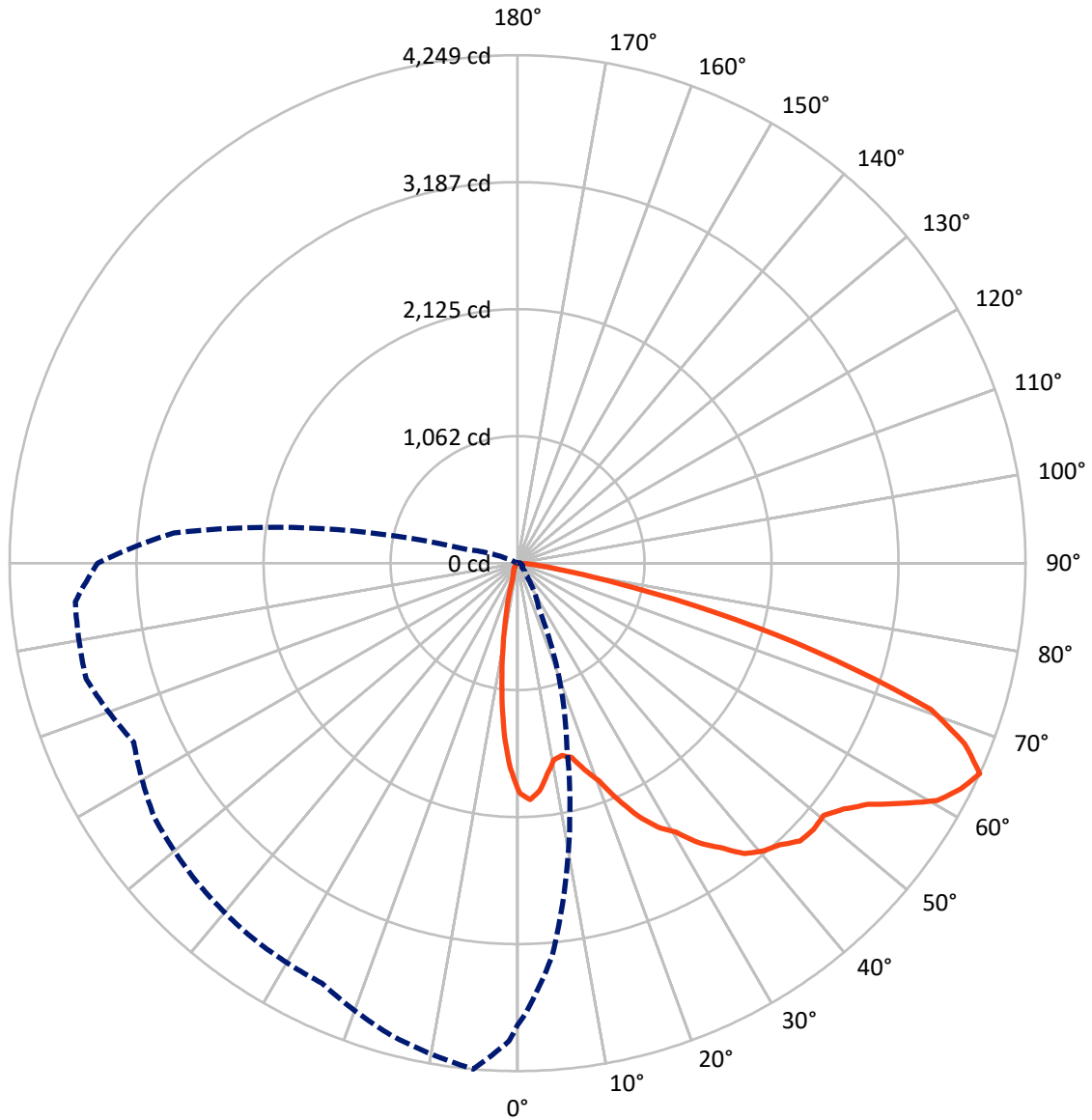
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.5 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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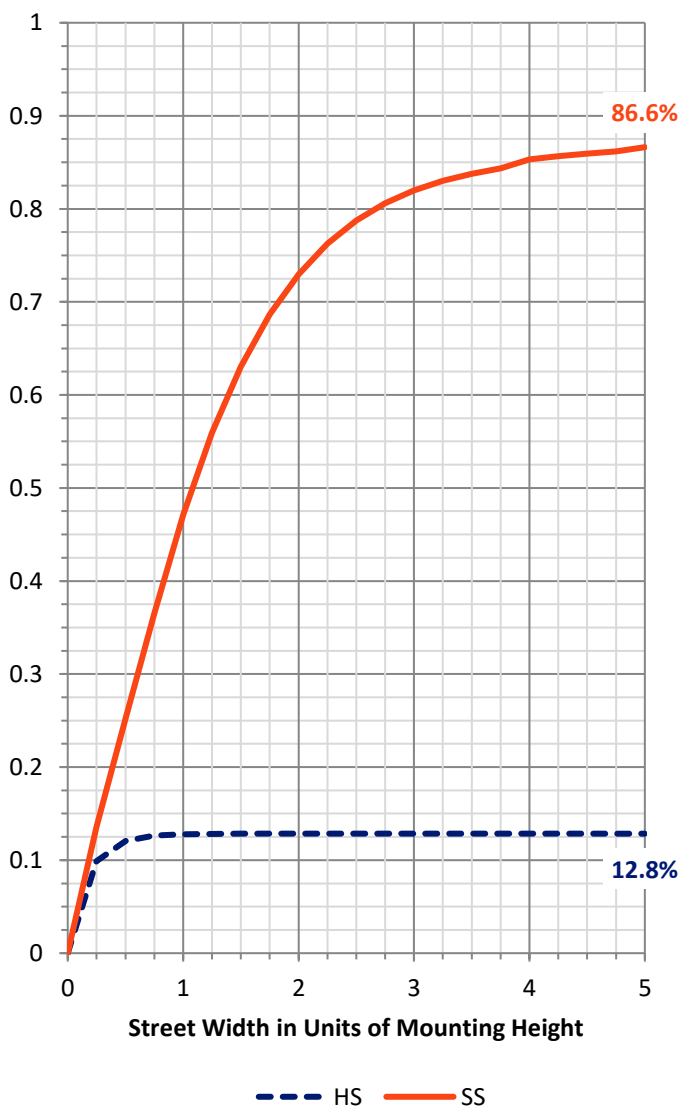
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.5	0.0	652.5
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4373.3	0.0	4373.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	5025.8	0.0	5025.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	2.9
10°-20°	281.8	5.6
20°-30°	392.5	7.8
30°-40°	557.7	11.1
40°-50°	773.4	15.4
50°-60°	1053.8	21.0
60°-70°	1158.6	23.1
70°-80°	569.4	11.3
80°-90°	93.0	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°	5025.8	100.0
0°-180°	5025.8	100.0

Coefficient of Utilization



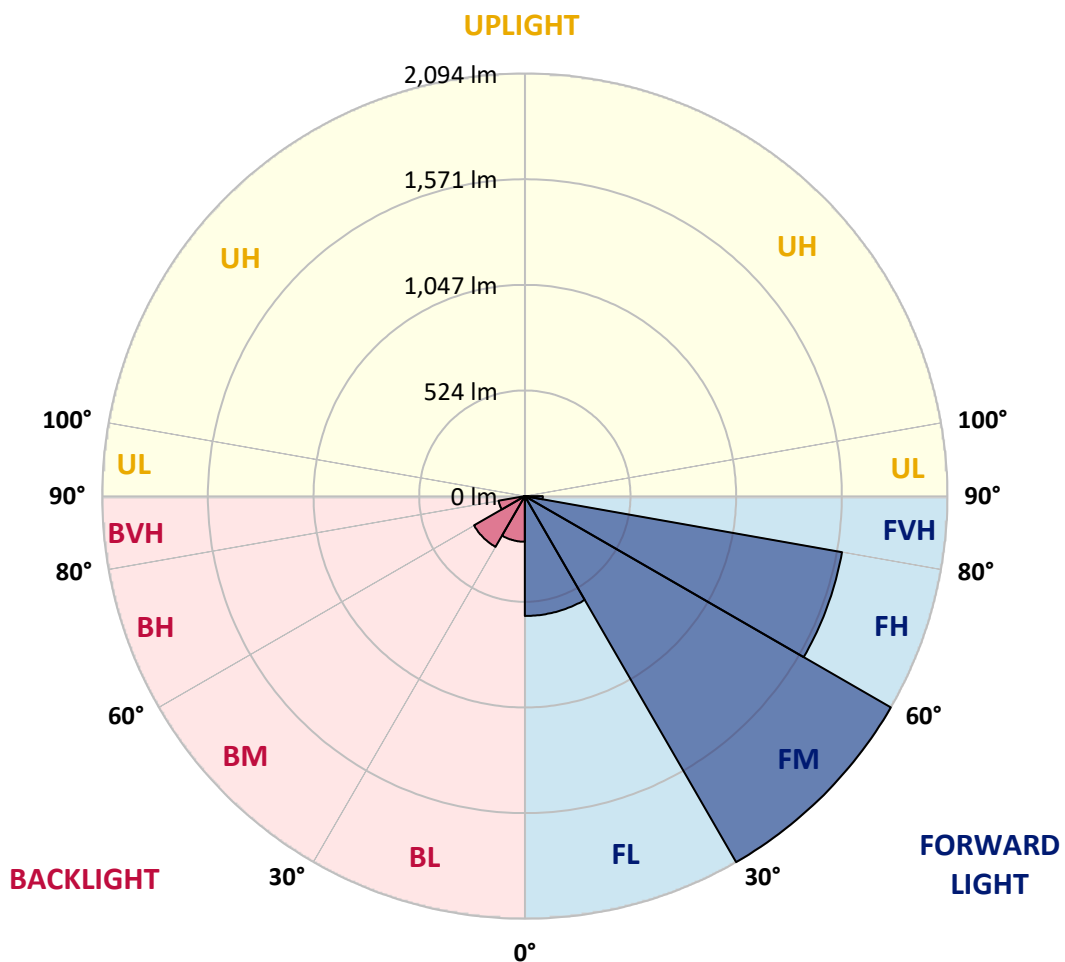
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.9	11.8			
FM (30°-60°)	2094.4	41.7			
FH (60°-80°)	1596.1	31.8			G1/1800
FVH (80°-90°)	88.8	1.8			G1/100
BL (0°-30°)	225.9	4.5	B1/500		
BM (30°-60°)	290.5	5.8	B1/1000		
BH (60°-80°)	131.9	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°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	1960.7	1983.7	1962.0	1886.1	1872.6	1836.0	1780.5	1776.4	1718.1	1724.9	1693.7
5°	1842.8	1865.8	1819.7	1719.5	1626.0	1551.5	1506.7	1426.8	1409.2	1369.9	1369.9
7.5°	1722.2	1720.8	1642.2	1558.2	1418.7	1281.8	1219.5	1104.3	1036.6	1000.0	964.7
10°	1621.9	1600.2	1551.5	1378.0	1226.3	1084.0	1006.8	930.9	860.4	799.4	738.5
12.5°	1551.5	1565.0	1487.8	1299.4	1103.0	1004.0	921.4	841.4	757.4	688.3	620.6
15°	1588.0	1566.4	1475.6	1281.8	1082.6	947.1	837.4	739.8	646.3	555.5	504.1
17.5°	1701.9	1646.3	1539.3	1281.8	1040.6	860.4	727.6	612.5	512.2	430.9	367.2
20°	1855.0	1791.3	1676.1	1329.2	1009.5	796.7	615.2	470.2	365.8	290.0	241.2
22.5°	2012.2	1962.0	1788.6	1348.2	972.9	711.4	485.1	340.1	243.9	195.1	170.7
25°	2200.5	2130.0	1940.3	1424.1	918.7	628.7	382.1	237.1	181.6	155.8	140.9
27.5°	2350.9	2338.7	2082.6	1470.2	878.0	561.0	302.2	188.3	150.4	131.4	121.9
30°	2540.6	2474.2	2256.0	1562.3	832.0	483.7	252.0	169.4	138.2	117.9	111.1
32.5°	2654.4	2623.3	2346.8	1613.8	780.5	420.0	216.8	149.0	126.0	111.1	104.3
35°	2819.7	2757.4	2476.9	1646.3	753.4	383.5	195.1	135.5	105.7	90.8	82.7
37.5°	3004.0	2981.0	2632.7	1645.0	714.1	361.8	180.2	126.0	100.3	84.0	74.5
40°	3192.3	3098.9	2727.6	1682.9	693.8	345.5	169.4	120.6	94.8	79.9	67.7
42.5°	3333.3	3226.2	2837.3	1669.3	669.4	317.1	165.3	112.5	90.8	73.2	62.3
45°	3371.2	3333.3	2936.3	1665.3	651.7	294.0	158.5	111.1	88.1	69.1	58.3
47.5°	3444.4	3418.6	3058.2	1672.1	638.2	276.4	142.3	113.8	84.0	65.0	55.6
50°	3476.9	3430.8	3157.1	1688.3	607.0	254.7	127.4	119.2	82.7	63.7	52.8
52.5°	3611.0	3570.4	3292.6	1734.4	581.3	226.3	112.5	113.8	85.4	59.6	50.1
55°	3742.5	3696.4	3501.3	1840.1	544.7	203.2	96.2	100.3	81.3	54.2	44.7
57.5°	3922.7	3846.8	3640.8	1883.4	512.2	172.1	85.4	82.7	75.9	48.8	39.3
60°	3949.8	3980.9	3620.5	1856.3	478.3	151.8	74.5	63.7	81.3	43.4	33.9
62.5°	4040.6	3910.5	3525.7	1794.0	453.9	139.6	66.4	52.8	70.5	37.9	28.5
65°	3865.8	3769.6	3303.5	1593.5	422.8	140.9	58.3	43.4	44.7	31.2	23.0
67.5°	3609.7	3533.8	2934.9	1375.3	391.6	138.2	51.5	37.9	33.9	27.1	20.3
70°	3168.0	3004.0	2493.2	1116.5	345.5	128.7	43.4	33.9	28.5	21.7	14.9
72.5°	2304.8	2238.4	1788.6	863.1	310.3	116.5	40.6	28.5	24.4	16.3	12.2
75°	1551.5	1441.7	1128.7	566.4	249.3	101.6	33.9	25.7	19.0	12.2	9.5
77.5°	819.8	775.1	639.6	269.6	138.2	47.4	19.0	14.9	10.8	9.5	5.4
80°	355.0	315.7	276.4	109.8	48.8	21.7	12.2	8.1	6.8	5.4	2.7
82.5°	181.6	173.4	143.6	47.4	28.5	16.3	6.8	5.4	4.1	2.7	1.4
85°	89.4	92.1	75.9	14.9	16.3	9.5	1.4	1.4	0.0	0.0	0.0
87.5°	6.8	6.8	5.4	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°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	1681.5	1700.5	1668.0	1688.3	1678.8	1682.9	1687.0	1676.1	1678.8	1716.8	1718.1
5°	1346.9	1383.4	1369.9	1388.9	1421.4	1405.1	1420.0	1417.3	1420.0	1425.4	1449.8
7.5°	960.7	949.8	975.6	1025.7	1084.0	1119.2	1101.6	1092.1	1086.7	1073.1	1089.4
10°	724.9	719.5	712.7	727.6	765.6	804.9	826.5	790.0	769.6	743.9	734.4
12.5°	601.6	567.7	548.8	525.7	536.6	571.8	573.2	537.9	505.4	491.9	506.8
15°	474.2	451.2	417.3	384.8	368.6	395.7	372.6	338.7	296.7	291.3	290.0
17.5°	338.7	325.2	300.8	287.3	268.3	261.5	237.1	185.6	155.8	147.7	150.4
20°	230.3	219.5	218.2	206.0	197.8	192.4	153.1	119.2	109.8	111.1	112.5
22.5°	170.7	165.3	158.5	157.2	150.4	143.6	112.5	100.3	93.5	93.5	97.6
25°	139.6	136.9	130.1	127.4	124.7	115.2	94.8	85.4	82.7	79.9	84.0
27.5°	119.2	117.9	113.8	109.8	107.0	97.6	82.7	74.5	71.8	71.8	71.8
30°	107.0	107.0	101.6	93.5	93.5	82.7	70.5	65.0	62.3	62.3	61.0
32.5°	100.3	97.6	90.8	85.4	81.3	70.5	62.3	56.9	52.8	52.8	54.2
35°	81.3	81.3	79.9	75.9	70.5	59.6	52.8	47.4	44.7	43.4	44.7
37.5°	71.8	67.7	62.3	63.7	61.0	51.5	44.7	40.6	36.6	36.6	36.6
40°	65.0	61.0	55.6	51.5	50.1	46.1	39.3	32.5	28.5	27.1	27.1
42.5°	58.3	55.6	47.4	40.6	39.3	39.3	29.8	24.4	20.3	20.3	20.3
45°	54.2	50.1	43.4	35.2	28.5	29.8	24.4	17.6	14.9	13.5	13.5
47.5°	51.5	47.4	37.9	29.8	21.7	21.7	17.6	12.2	9.5	8.1	8.1
50°	47.4	43.4	33.9	24.4	16.3	13.5	10.8	6.8	4.1	2.7	2.7
52.5°	44.7	40.6	29.8	20.3	13.5	9.5	6.8	1.4	0.0	0.0	0.0
55°	40.6	35.2	25.7	16.3	10.8	5.4	1.4	0.0	0.0	0.0	0.0
57.5°	35.2	31.2	20.3	12.2	6.8	1.4	0.0	0.0	0.0	0.0	0.0
60°	29.8	25.7	16.3	9.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24.4	21.7	12.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	20.3	16.3	9.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.6	13.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.5	9.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.5	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°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	1723.5	1764.2	1802.1	1813.0	1842.8	1925.4	1925.4	1964.7	2035.2	2060.9	2066.4
5°	1453.9	1497.3	1505.4	1589.4	1628.7	1712.7	1768.3	1901.0	1981.0	2031.1	2062.3
7.5°	1105.7	1120.6	1151.7	1230.3	1307.6	1409.2	1514.9	1684.2	1825.2	1882.1	1987.8
10°	760.1	804.9	872.6	943.1	1063.7	1176.1	1313.0	1472.9	1646.3	1716.8	1807.5
12.5°	512.2	574.5	682.9	783.2	894.3	1008.1	1138.2	1352.3	1548.7	1646.3	1737.1
15°	299.5	375.3	468.8	631.4	779.1	906.5	1036.6	1253.4	1491.8	1617.9	1729.0
17.5°	151.8	174.8	252.0	392.9	588.1	796.7	990.5	1266.9	1535.2	1689.7	1781.8
20°	113.8	120.6	142.3	208.7	402.4	658.5	947.1	1287.2	1655.8	1844.1	1894.3
22.5°	98.9	104.3	113.8	135.5	226.3	504.1	886.2	1337.4	1819.7	1997.2	2102.9
25°	84.0	89.4	97.6	111.1	145.0	342.8	811.6	1390.2	1966.1	2189.7	2288.6
27.5°	73.2	77.2	85.4	96.2	117.9	218.2	682.9	1460.7	2189.7	2422.7	2448.5
30°	62.3	66.4	73.2	85.4	100.3	154.5	501.3	1470.2	2313.0	2524.3	2596.2
32.5°	54.2	55.6	63.7	74.5	84.0	121.9	352.3	1479.6	2403.7	2655.8	2670.7
35°	44.7	47.4	55.6	62.3	73.2	96.2	266.9	1432.2	2521.6	2791.3	2787.2
37.5°	36.6	40.6	46.1	51.5	59.6	81.3	212.7	1344.1	2669.3	3001.3	2873.9
40°	28.5	32.5	37.9	44.7	50.1	73.2	159.9	1211.4	2823.8	3104.3	2968.8
42.5°	20.3	23.0	28.5	35.2	44.7	61.0	115.2	1054.2	2884.8	3224.9	3082.6
45°	14.9	17.6	21.7	29.8	46.1	48.8	79.9	910.5	2949.8	3277.7	3056.8
47.5°	8.1	10.8	16.3	25.7	40.6	36.6	56.9	781.8	3024.3	3325.1	3077.2
50°	2.7	4.1	9.5	27.1	32.5	28.5	44.7	712.7	3097.5	3334.6	3117.8
52.5°	0.0	0.0	5.4	28.5	24.4	21.7	39.3	685.6	3078.5	3364.4	3092.1
55°	0.0	0.0	1.4	12.2	13.5	16.3	32.5	684.3	3212.7	3373.9	3233.0
57.5°	0.0	0.0	0.0	4.1	8.1	13.5	28.5	640.9	3298.0	3609.7	3422.7
60°	0.0	0.0	0.0	1.4	5.4	9.5	21.7	603.0	3384.8	3715.4	3625.9
62.5°	0.0	0.0	0.0	0.0	1.4	4.1	14.9	544.7	3210.0	3707.2	3822.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.5	430.9	2887.5	3513.5	3714.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	298.1	2528.4	3269.6	3514.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	180.2	2040.6	2867.1	2981.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.2	1456.6	2276.4	2445.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	901.1	1663.9	1872.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	584.0	1260.1	1421.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	311.6	790.0	918.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.5	479.7	552.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.4	291.3	332.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.7	59.6
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°	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4	1921.4
2.5°	2069.1	2108.4	2123.3	2100.2	2102.9	2055.5	2048.7	1982.3	1955.2	1960.7
5°	2163.9	2220.8	2252.0	2226.2	2168.0	2077.2	1994.5	1915.9	1867.2	1842.8
7.5°	2142.2	2205.9	2245.2	2269.6	2203.2	2056.9	1930.9	1783.2	1720.8	1722.2
10°	2023.0	2155.8	2235.7	2204.6	2173.4	2027.1	1831.9	1672.1	1616.5	1621.9
12.5°	1926.8	2074.5	2121.9	2146.3	2082.6	1966.1	1834.6	1651.7	1589.4	1551.5
15°	1867.2	1976.9	1979.6	2017.6	1991.8	1991.8	1863.1	1684.2	1630.0	1588.0
17.5°	1867.2	1891.6	1888.8	1902.4	1945.8	1997.2	1934.9	1815.7	1708.6	1701.9
20°	1909.2	1833.3	1815.7	1821.1	1857.7	2010.8	2093.5	1944.4	1876.7	1855.0
22.5°	2006.7	1840.1	1733.0	1714.1	1826.5	2009.4	2195.1	2147.7	2029.8	2012.2
25°	2140.9	1827.9	1711.3	1687.0	1772.3	2058.2	2334.6	2344.1	2237.1	2200.5
27.5°	2268.2	1882.1	1708.6	1703.2	1815.7	2047.4	2430.8	2501.3	2380.7	2350.9
30°	2311.6	1936.3	1758.8	1687.0	1831.9	2086.7	2428.1	2612.4	2533.8	2540.6
32.5°	2363.1	1990.5	1764.2	1735.7	1901.0	2150.4	2505.4	2791.3	2734.4	2654.4
35°	2439.0	2063.6	1815.7	1789.9	1949.8	2207.3	2521.6	2922.7	2913.2	2819.7
37.5°	2504.0	2135.5	1922.7	1926.8	2098.9	2299.4	2593.4	3083.9	3067.7	3004.0
40°	2550.1	2235.7	2089.4	2100.2	2228.9	2402.4	2720.8	3165.2	3285.8	3192.3
42.5°	2556.9	2325.2	2280.4	2367.2	2487.8	2562.3	2772.3	3220.8	3394.2	3333.3
45°	2582.6	2467.4	2592.1	2655.8	2754.7	2703.2	2769.6	3315.6	3402.4	3371.2
47.5°	2682.9	2726.2	2883.4	3077.2	3112.4	2943.0	2834.6	3330.6	3448.4	3444.4
50°	2787.2	3004.0	3224.9	3353.6	3398.3	3108.3	2895.6	3318.4	3509.4	3476.9
52.5°	2903.7	3245.2	3563.6	3722.1	3697.8	3291.3	2964.7	3417.3	3621.9	3611.0
55°	2976.9	3353.6	3781.8	4002.6	3983.7	3495.9	3184.2	3559.5	3769.6	3742.5
57.5°	3170.7	3529.7	3998.6	4101.5	4151.7	3764.1	3337.3	3792.6	3892.9	3922.7
60°	3330.6	3644.9	4055.5	4204.5	4222.1	3924.0	3605.6	4032.4	4050.0	3949.8
62.5°	3565.0	3689.6	3934.9	4069.0	4159.8	4014.8	3846.8	4161.2	4047.3	4040.6
65°	3737.0	3543.3	3709.9	3784.5	3842.7	3876.6	4089.3	4249.2	3997.2	3865.8
67.5°	3640.8	3266.9	3235.7	3239.8	3257.4	3462.0	4008.0	4033.8	3718.1	3609.7
70°	3204.5	2680.2	2638.2	2670.7	2582.6	2829.2	3678.8	3666.6	3280.4	3168.0
72.5°	2592.1	1953.9	1882.1	1926.8	1947.1	2208.6	3094.8	2780.4	2392.9	2304.8
75°	2059.6	1432.2	1208.6	1317.0	1386.1	1608.4	2417.3	1888.8	1670.7	1551.5
77.5°	1617.9	1084.0	940.4	897.0	960.7	1169.4	1758.8	991.8	875.3	819.8
80°	1025.7	796.7	864.5	802.2	829.3	834.7	916.0	451.2	359.1	355.0
82.5°	617.9	544.7	647.7	356.4	649.0	579.9	380.8	204.6	181.6	181.6
85°	437.7	337.4	223.6	145.0	288.6	318.4	147.7	105.7	92.1	89.4
87.5°	219.5	104.3	50.1	32.5	36.6	59.6	17.6	8.1	8.1	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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