

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: P677390

Luminaire Tested: **CCW-SA-2C-722-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677390
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-722-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4786.1 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

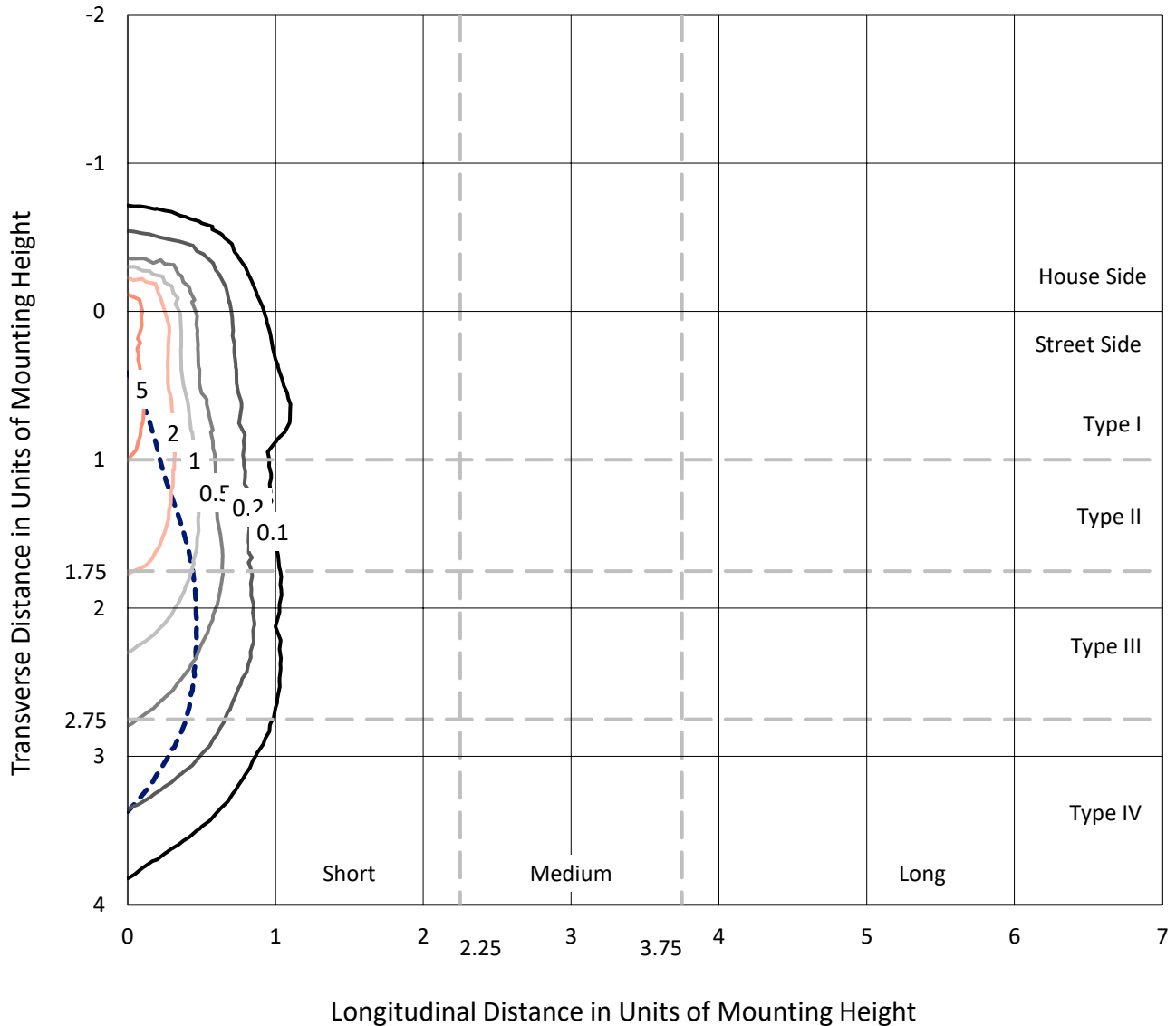
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

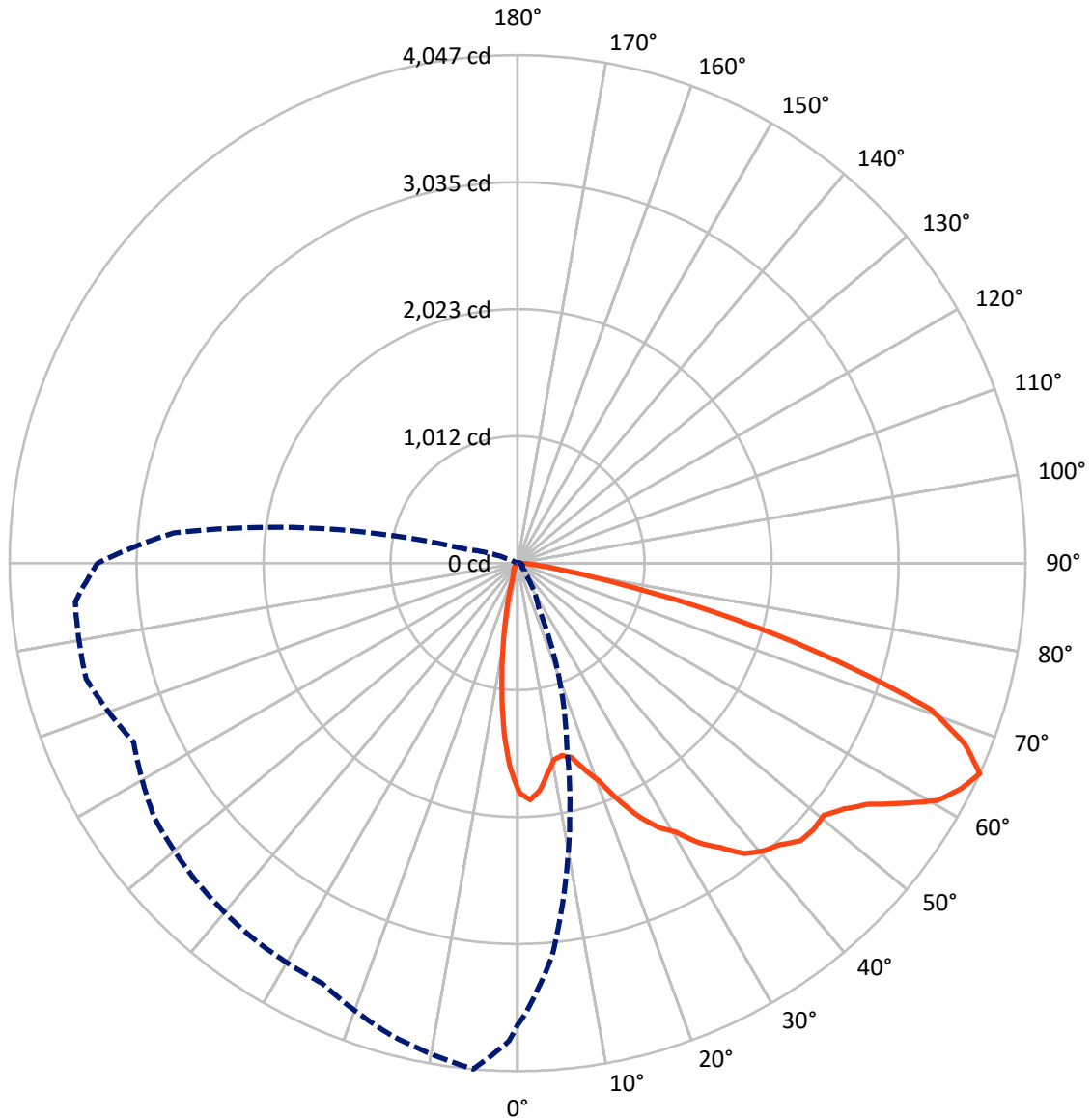
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.1 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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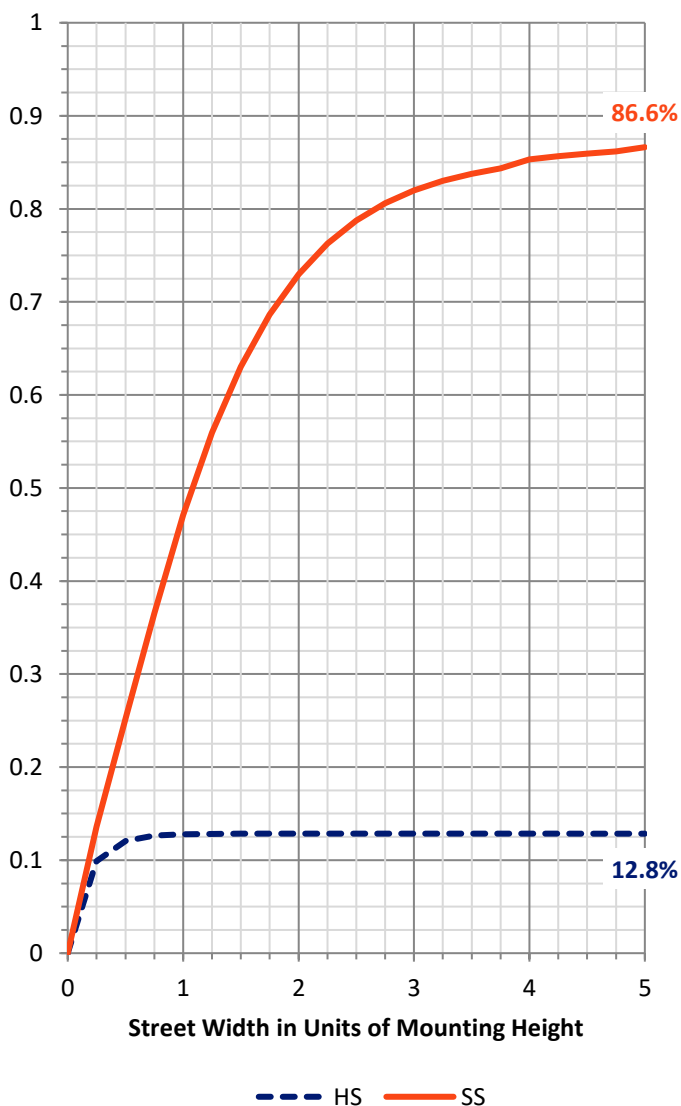
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.4	0.0	621.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4164.7	0.0	4164.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	4786.1	0.0	4786.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.6	2.9
10°-20°	268.4	5.6
20°-30°	373.8	7.8
30°-40°	531.1	11.1
40°-50°	736.5	15.4
50°-60°	1003.5	21.0
60°-70°	1103.3	23.1
70°-80°	542.3	11.3
80°-90°	88.6	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°	4786.1	100.0
0°-180°	4786.1	100.0



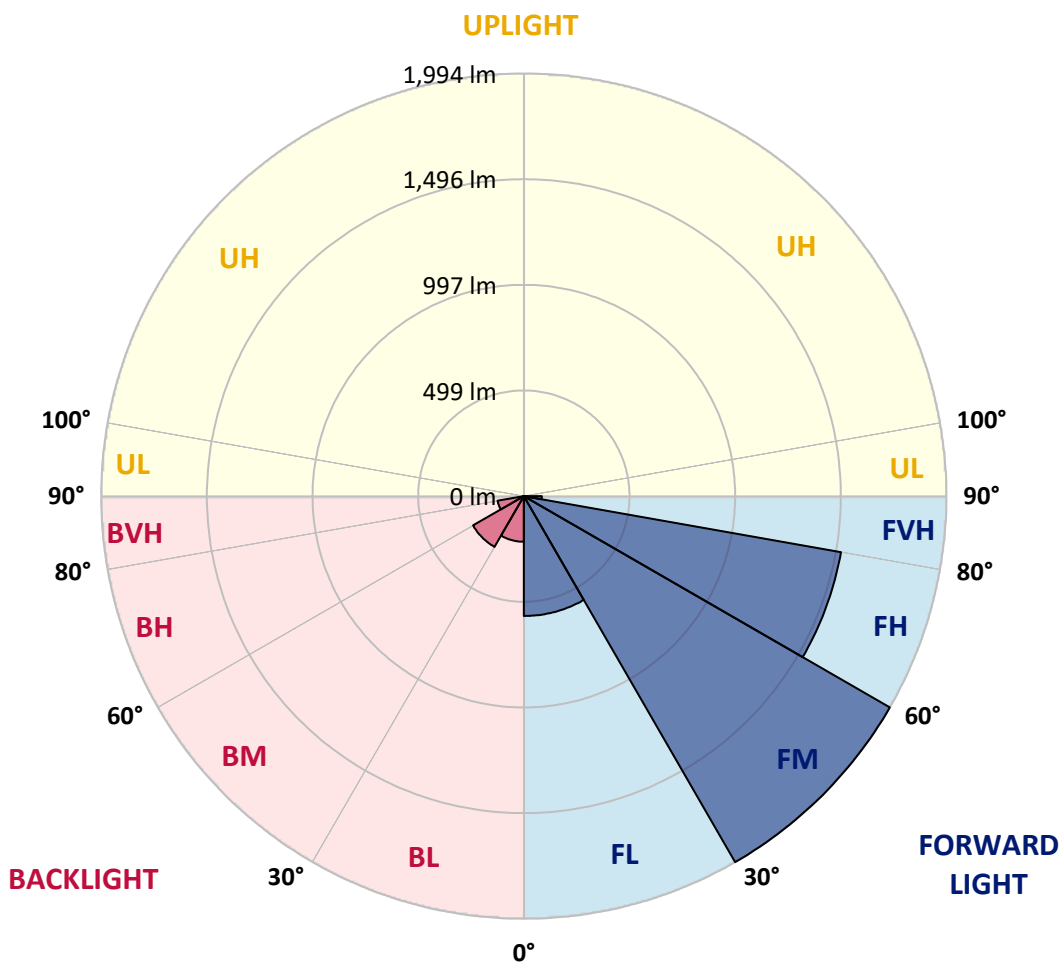
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.6	11.8			
FM (30°-60°)	1994.5	41.7			
FH (60°-80°)	1520.0	31.8			G1/1800
FVH (80°-90°)	84.6	1.8			G1/100
BL (0°-30°)	215.2	4.5	B1/500		
BM (30°-60°)	276.7	5.8	B1/1000		
BH (60°-80°)	125.6	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°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
2.5°	1867.1	1889.1	1868.4	1796.2	1783.3	1748.4	1695.5	1691.6	1636.2	1642.6	1612.9
5°	1754.9	1776.8	1732.9	1637.5	1548.4	1477.4	1434.9	1358.7	1342.0	1304.5	1304.5
7.5°	1640.0	1638.7	1563.9	1483.9	1351.0	1220.7	1161.3	1051.6	987.1	952.3	918.7
10°	1544.5	1523.9	1477.4	1312.3	1167.8	1032.3	958.7	886.5	819.4	761.3	703.2
12.5°	1477.4	1490.4	1416.8	1237.4	1050.3	956.1	877.4	801.3	721.3	655.5	591.0
15°	1512.3	1491.6	1405.2	1220.7	1031.0	902.0	797.4	704.5	615.5	529.0	480.0
17.5°	1620.7	1567.8	1465.8	1220.7	991.0	819.4	692.9	583.2	487.8	410.3	349.7
20°	1766.5	1705.8	1596.2	1265.8	961.3	758.7	585.8	447.8	348.4	276.1	229.7
22.5°	1916.2	1868.4	1703.3	1283.9	926.5	677.4	461.9	323.9	232.3	185.8	162.6
25°	2095.5	2028.4	1847.8	1356.2	874.9	598.7	363.9	225.8	172.9	148.4	134.2
27.5°	2238.8	2227.1	1983.3	1400.0	836.1	534.2	287.7	179.4	143.2	125.2	116.1
30°	2419.4	2356.2	2148.4	1487.8	792.3	460.7	240.0	161.3	131.6	112.3	105.8
32.5°	2527.8	2498.1	2234.9	1536.8	743.2	400.0	206.5	141.9	120.0	105.8	99.4
35°	2685.2	2625.9	2358.8	1567.8	717.4	365.2	185.8	129.0	100.6	86.5	78.7
37.5°	2860.7	2838.8	2507.1	1566.5	680.0	344.5	171.6	120.0	95.5	80.0	71.0
40°	3040.1	2951.0	2597.5	1602.6	660.7	329.0	161.3	114.8	90.3	76.1	64.5
42.5°	3174.3	3072.3	2702.0	1589.7	637.4	301.9	157.4	107.1	86.5	69.7	59.4
45°	3210.4	3174.3	2796.2	1585.8	620.7	280.0	151.0	105.8	83.9	65.8	55.5
47.5°	3280.1	3255.5	2912.3	1592.3	607.8	263.2	135.5	108.4	80.0	61.9	52.9
50°	3311.0	3267.2	3006.5	1607.8	578.1	242.6	121.3	113.6	78.7	60.6	50.3
52.5°	3438.8	3400.1	3135.5	1651.6	553.6	215.5	107.1	108.4	81.3	56.8	47.7
55°	3563.9	3520.1	3334.3	1752.3	518.7	193.6	91.6	95.5	77.4	51.6	42.6
57.5°	3735.6	3663.3	3467.2	1793.6	487.8	163.9	81.3	78.7	72.3	46.5	37.4
60°	3761.4	3791.0	3447.8	1767.8	455.5	144.5	71.0	60.6	77.4	41.3	32.3
62.5°	3847.8	3723.9	3357.5	1708.4	432.3	132.9	63.2	50.3	67.1	36.1	27.1
65°	3681.4	3589.7	3145.9	1517.4	402.6	134.2	55.5	41.3	42.6	29.7	21.9
67.5°	3437.5	3365.2	2794.9	1309.7	372.9	131.6	49.0	36.1	32.3	25.8	19.4
70°	3016.8	2860.7	2374.2	1063.2	329.0	122.6	41.3	32.3	27.1	20.6	14.2
72.5°	2194.9	2131.7	1703.3	822.0	295.5	111.0	38.7	27.1	23.2	15.5	11.6
75°	1477.4	1372.9	1074.9	539.4	237.4	96.8	32.3	24.5	18.1	11.6	9.0
77.5°	780.7	738.1	609.0	256.8	131.6	45.2	18.1	14.2	10.3	9.0	5.2
80°	338.1	300.7	263.2	104.5	46.5	20.6	11.6	7.7	6.5	5.2	2.6
82.5°	172.9	165.2	136.8	45.2	27.1	15.5	6.5	5.2	3.9	2.6	1.3
85°	85.2	87.7	72.3	14.2	15.5	9.0	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°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
2.5°	1601.3	1619.4	1588.4	1607.8	1598.7	1602.6	1606.5	1596.2	1598.7	1634.9	1636.2
5°	1282.6	1317.4	1304.5	1322.6	1353.6	1338.1	1352.3	1349.7	1352.3	1357.4	1380.7
7.5°	914.9	904.5	929.1	976.8	1032.3	1065.8	1049.1	1040.0	1034.9	1022.0	1037.4
10°	690.3	685.2	678.7	692.9	729.0	766.5	787.1	752.3	732.9	708.4	699.4
12.5°	572.9	540.7	522.6	500.7	511.0	544.5	545.8	512.3	481.3	468.4	482.6
15°	451.6	429.7	397.4	366.5	351.0	376.8	354.8	322.6	282.6	277.4	276.1
17.5°	322.6	309.7	286.5	273.6	255.5	249.0	225.8	176.8	148.4	140.6	143.2
20°	219.4	209.0	207.7	196.1	188.4	183.2	145.8	113.6	104.5	105.8	107.1
22.5°	162.6	157.4	151.0	149.7	143.2	136.8	107.1	95.5	89.0	89.0	92.9
25°	132.9	130.3	123.9	121.3	118.7	109.7	90.3	81.3	78.7	76.1	80.0
27.5°	113.6	112.3	108.4	104.5	101.9	92.9	78.7	71.0	68.4	68.4	68.4
30°	101.9	101.9	96.8	89.0	89.0	78.7	67.1	61.9	59.4	59.4	58.1
32.5°	95.5	92.9	86.5	81.3	77.4	67.1	59.4	54.2	50.3	50.3	51.6
35°	77.4	77.4	76.1	72.3	67.1	56.8	50.3	45.2	42.6	41.3	42.6
37.5°	68.4	64.5	59.4	60.6	58.1	49.0	42.6	38.7	34.8	34.8	34.8
40°	61.9	58.1	52.9	49.0	47.7	43.9	37.4	31.0	27.1	25.8	25.8
42.5°	55.5	52.9	45.2	38.7	37.4	37.4	28.4	23.2	19.4	19.4	19.4
45°	51.6	47.7	41.3	33.5	27.1	28.4	23.2	16.8	14.2	12.9	12.9
47.5°	49.0	45.2	36.1	28.4	20.6	20.6	16.8	11.6	9.0	7.7	7.7
50°	45.2	41.3	32.3	23.2	15.5	12.9	10.3	6.5	3.9	2.6	2.6
52.5°	42.6	38.7	28.4	19.4	12.9	9.0	6.5	1.3	0.0	0.0	0.0
55°	38.7	33.5	24.5	15.5	10.3	5.2	1.3	0.0	0.0	0.0	0.0
57.5°	33.5	29.7	19.4	11.6	6.5	1.3	0.0	0.0	0.0	0.0	0.0
60°	28.4	24.5	15.5	9.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23.2	20.6	11.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19.4	15.5	9.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16.8	12.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.9	9.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.0	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°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
2.5°	1641.3	1680.0	1716.2	1726.5	1754.9	1833.6	1833.6	1871.0	1938.1	1962.6	1967.8
5°	1384.5	1425.8	1433.6	1513.6	1551.0	1631.0	1683.9	1810.4	1886.5	1934.2	1963.9
7.5°	1052.9	1067.1	1096.8	1171.6	1245.2	1342.0	1442.6	1603.9	1738.1	1792.3	1892.9
10°	723.9	766.5	831.0	898.1	1012.9	1120.0	1250.3	1402.6	1567.8	1634.9	1721.3
12.5°	487.8	547.1	650.3	745.8	851.6	960.0	1083.9	1287.8	1474.9	1567.8	1654.2
15°	285.2	357.4	446.5	601.3	742.0	863.2	987.1	1193.6	1420.7	1540.7	1646.5
17.5°	144.5	166.5	240.0	374.2	560.0	758.7	943.2	1206.5	1462.0	1609.1	1696.8
20°	108.4	114.8	135.5	198.7	383.2	627.1	902.0	1225.8	1576.8	1756.2	1803.9
22.5°	94.2	99.4	108.4	129.0	215.5	480.0	843.9	1273.6	1732.9	1902.0	2002.6
25°	80.0	85.2	92.9	105.8	138.1	326.5	772.9	1323.9	1872.3	2085.2	2179.4
27.5°	69.7	73.5	81.3	91.6	112.3	207.7	650.3	1391.0	2085.2	2307.1	2331.7
30°	59.4	63.2	69.7	81.3	95.5	147.1	477.4	1400.0	2202.6	2403.9	2472.3
32.5°	51.6	52.9	60.6	71.0	80.0	116.1	335.5	1409.1	2289.1	2529.1	2543.3
35°	42.6	45.2	52.9	59.4	69.7	91.6	254.2	1363.9	2401.3	2658.1	2654.2
37.5°	34.8	38.7	43.9	49.0	56.8	77.4	202.6	1280.0	2542.0	2858.1	2736.8
40°	27.1	31.0	36.1	42.6	47.7	69.7	152.3	1153.6	2689.1	2956.2	2827.2
42.5°	19.4	21.9	27.1	33.5	42.6	58.1	109.7	1003.9	2747.2	3071.0	2935.5
45°	14.2	16.8	20.6	28.4	43.9	46.5	76.1	867.1	2809.1	3121.4	2911.0
47.5°	7.7	10.3	15.5	24.5	38.7	34.8	54.2	744.5	2880.1	3166.5	2930.4
50°	2.6	3.9	9.0	25.8	31.0	27.1	42.6	678.7	2949.7	3175.5	2969.1
52.5°	0.0	0.0	5.2	27.1	23.2	20.6	37.4	652.9	2931.7	3203.9	2944.6
55°	0.0	0.0	1.3	11.6	12.9	15.5	31.0	651.6	3059.4	3213.0	3078.8
57.5°	0.0	0.0	0.0	3.9	7.7	12.9	27.1	610.3	3140.7	3437.5	3259.4
60°	0.0	0.0	0.0	1.3	5.2	9.0	20.6	574.2	3223.3	3538.1	3453.0
62.5°	0.0	0.0	0.0	0.0	1.3	3.9	14.2	518.7	3056.8	3530.4	3640.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	410.3	2749.7	3345.9	3536.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	283.9	2407.8	3113.6	3347.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	171.6	1943.3	2730.4	2838.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.5	1387.1	2167.8	2329.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	858.1	1584.5	1783.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	556.1	1200.0	1353.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	296.8	752.3	874.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	129.0	456.8	526.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.3	277.4	316.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.6	56.8
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°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
2.5°	1970.4	2007.8	2022.0	2000.0	2002.6	1957.5	1951.0	1887.8	1862.0	1867.1
5°	2060.7	2114.9	2144.6	2120.0	2064.6	1978.1	1899.4	1824.6	1778.1	1754.9
7.5°	2040.0	2100.7	2138.1	2161.3	2098.1	1958.7	1838.7	1698.1	1638.7	1640.0
10°	1926.5	2052.9	2129.1	2099.4	2069.7	1930.4	1744.6	1592.3	1539.4	1544.5
12.5°	1834.9	1975.5	2020.7	2043.9	1983.3	1872.3	1747.1	1572.9	1513.6	1477.4
15°	1778.1	1882.6	1885.2	1921.3	1896.8	1896.8	1774.2	1603.9	1552.3	1512.3
17.5°	1778.1	1801.3	1798.7	1811.6	1852.9	1902.0	1842.6	1729.1	1627.1	1620.7
20°	1818.1	1745.8	1729.1	1734.2	1769.1	1914.9	1993.6	1851.6	1787.1	1766.5
22.5°	1911.0	1752.3	1650.4	1632.3	1739.4	1913.6	2090.4	2045.2	1932.9	1916.2
25°	2038.8	1740.7	1629.7	1606.5	1687.8	1960.0	2223.3	2232.3	2130.4	2095.5
27.5°	2160.0	1792.3	1627.1	1622.0	1729.1	1949.7	2314.9	2382.0	2267.1	2238.8
30°	2201.3	1843.9	1674.9	1606.5	1744.6	1987.1	2312.3	2487.8	2413.0	2419.4
32.5°	2250.4	1895.5	1680.0	1652.9	1810.4	2047.8	2385.9	2658.1	2603.9	2527.8
35°	2322.6	1965.2	1729.1	1704.6	1856.8	2102.0	2401.3	2783.3	2774.2	2685.2
37.5°	2384.6	2033.6	1831.0	1834.9	1998.7	2189.7	2469.7	2936.8	2921.3	2860.7
40°	2428.4	2129.1	1989.7	2000.0	2122.6	2287.8	2591.0	3014.3	3129.1	3040.1
42.5°	2434.9	2214.2	2171.7	2254.2	2369.1	2440.0	2640.1	3067.2	3232.3	3174.3
45°	2459.4	2349.7	2468.4	2529.1	2623.3	2574.2	2637.5	3157.5	3240.1	3210.4
47.5°	2554.9	2596.2	2745.9	2930.4	2963.9	2802.6	2699.4	3171.7	3283.9	3280.1
50°	2654.2	2860.7	3071.0	3193.6	3236.2	2960.1	2757.5	3160.1	3342.0	3311.0
52.5°	2765.2	3090.4	3393.6	3544.6	3521.4	3134.3	2823.3	3254.3	3449.1	3438.8
55°	2834.9	3193.6	3601.4	3811.7	3793.6	3329.1	3032.3	3389.7	3589.7	3563.9
57.5°	3019.4	3361.4	3807.8	3905.9	3953.6	3584.6	3178.1	3611.7	3707.2	3735.6
60°	3171.7	3471.0	3862.0	4004.0	4020.7	3736.8	3433.6	3840.1	3856.9	3761.4
62.5°	3394.9	3513.6	3747.2	3874.9	3961.4	3823.3	3663.3	3962.7	3854.3	3847.8
65°	3558.8	3374.3	3533.0	3603.9	3659.4	3691.7	3894.3	4046.5	3806.5	3681.4
67.5°	3467.2	3111.0	3081.4	3085.2	3102.0	3296.8	3816.9	3841.4	3540.7	3437.5
70°	3051.7	2552.3	2512.3	2543.3	2459.4	2694.2	3503.3	3491.7	3123.9	3016.8
72.5°	2468.4	1860.7	1792.3	1834.9	1854.2	2103.3	2947.2	2647.8	2278.8	2194.9
75°	1961.3	1363.9	1151.0	1254.2	1320.0	1531.6	2302.0	1798.7	1591.0	1477.4
77.5°	1540.7	1032.3	895.5	854.2	914.9	1113.6	1674.9	944.5	833.6	780.7
80°	976.8	758.7	823.2	763.9	789.7	794.9	872.3	429.7	341.9	338.1
82.5°	588.4	518.7	616.8	339.4	618.1	552.3	362.6	194.8	172.9	172.9
85°	416.8	321.3	212.9	138.1	274.8	303.2	140.6	100.6	87.7	85.2
87.5°	209.0	99.4	47.7	31.0	34.8	56.8	16.8	7.7	7.7	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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