

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: P677411

Luminaire Tested: **CCW-SA-2B-730-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677411
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-730-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) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

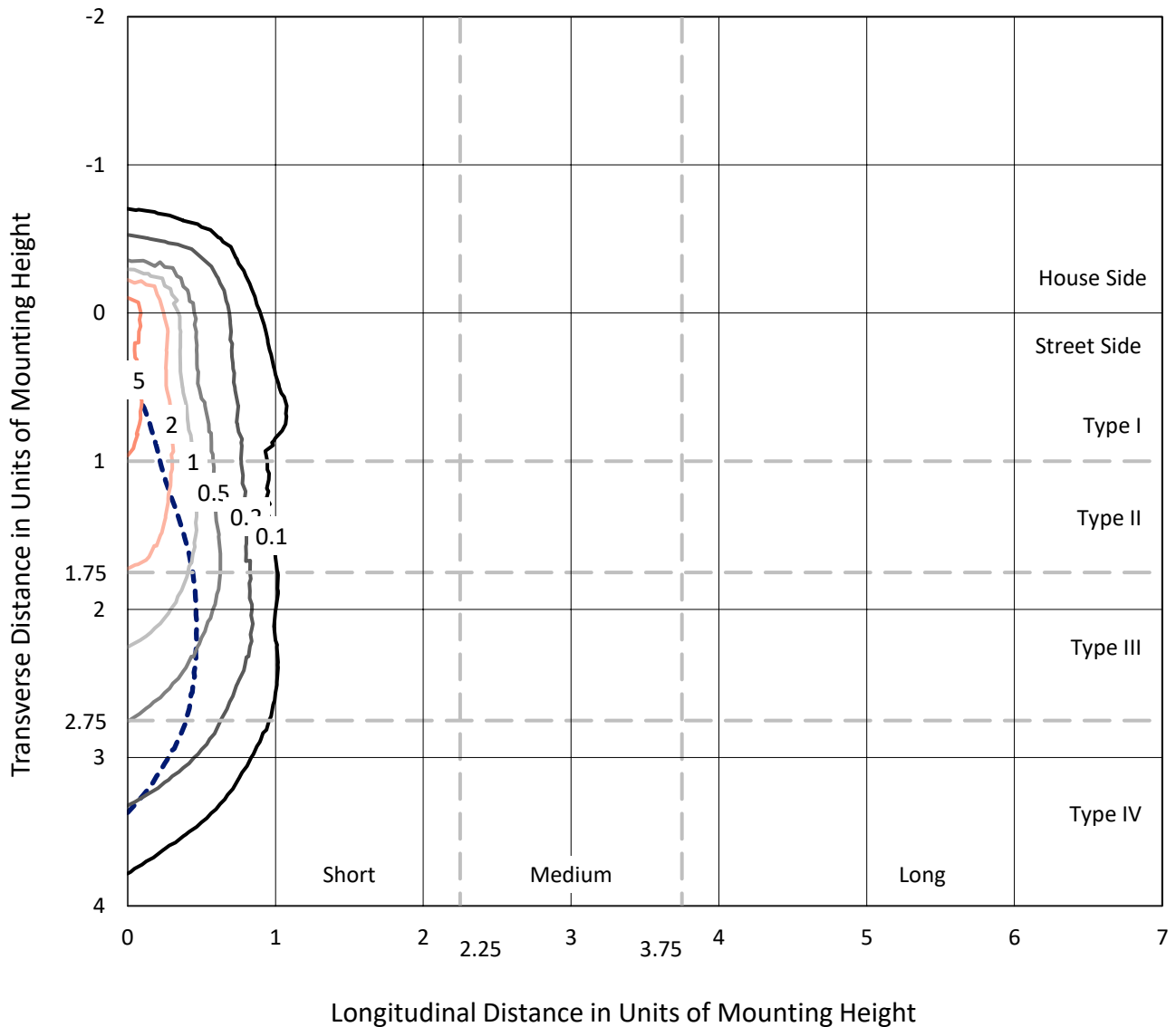
Lumens per Lamp: N/A
Luminaire Lumens: 4519.3 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

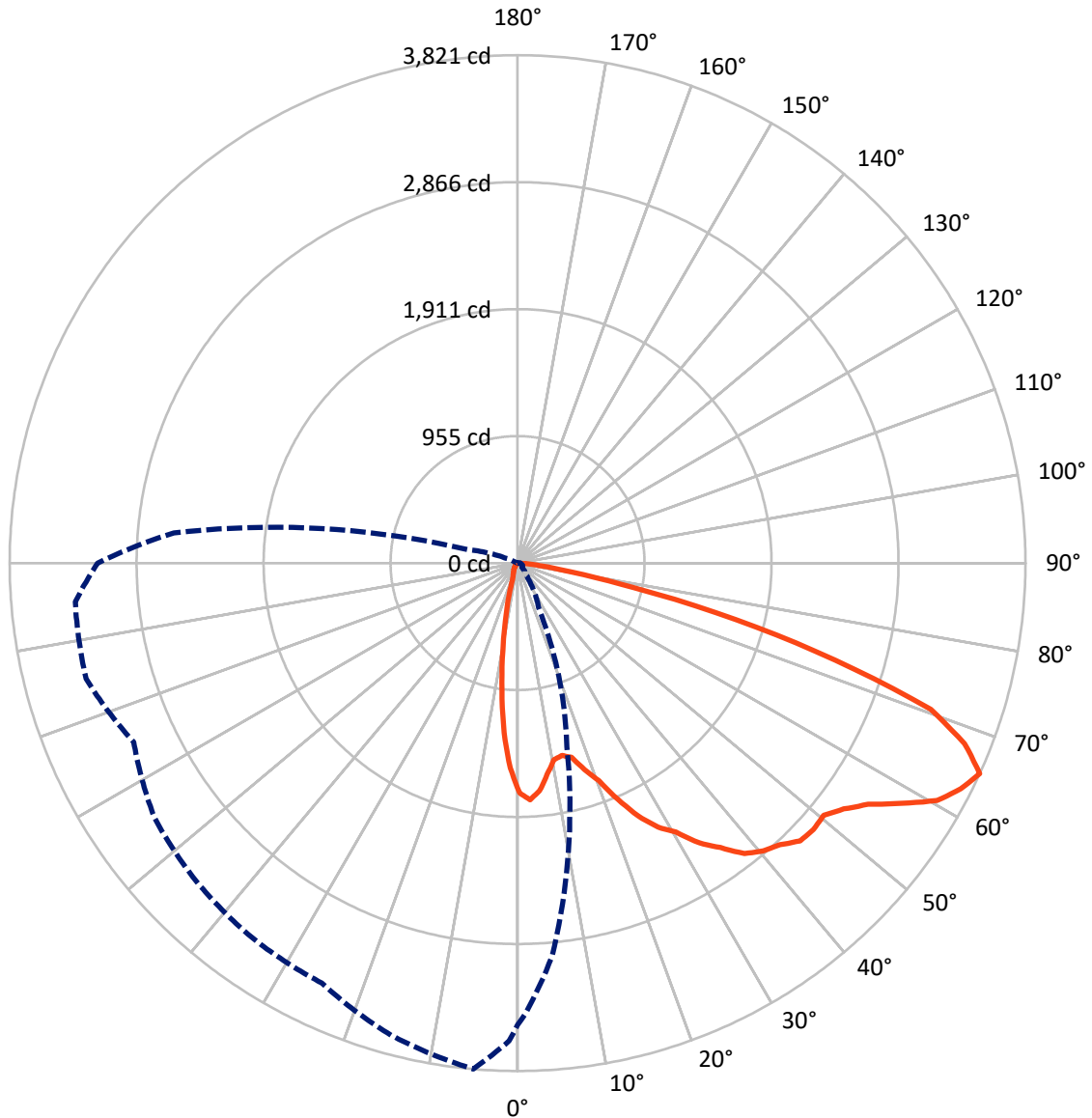
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 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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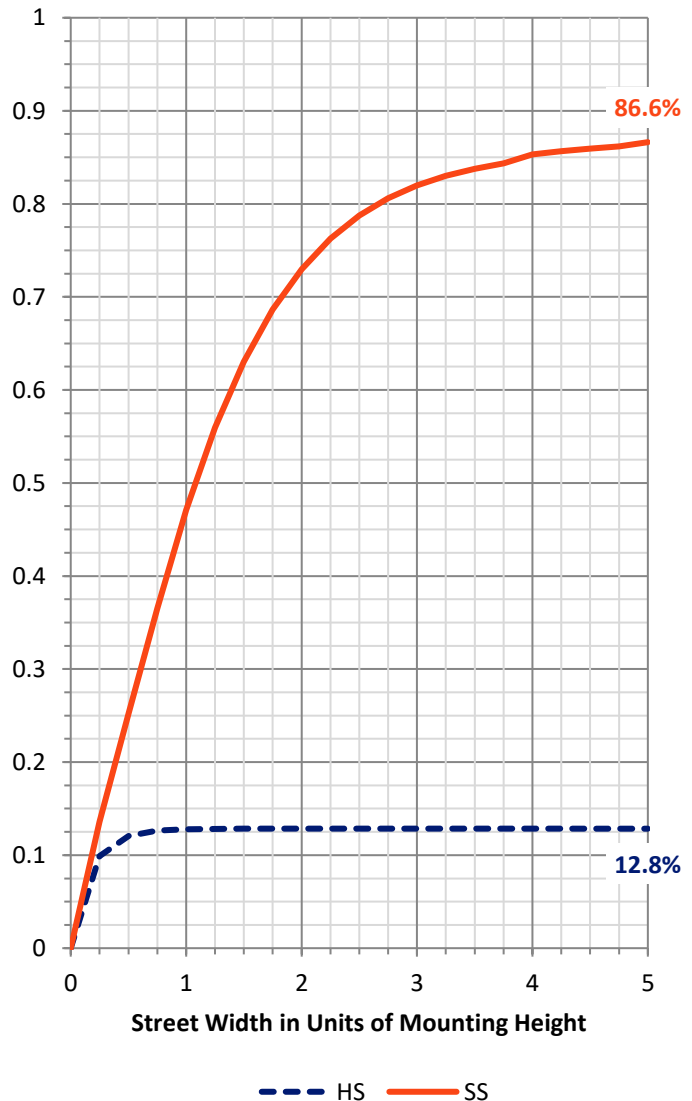
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	586.8	0.0	586.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3932.5	0.0	3932.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	4519.3	0.0	4519.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	2.9
10°-20°	253.4	5.6
20°-30°	353.0	7.8
30°-40°	501.5	11.1
40°-50°	695.5	15.4
50°-60°	947.6	21.0
60°-70°	1041.8	23.1
70°-80°	512.0	11.3
80°-90°	83.6	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°	4519.3	100.0
0°-180°	4519.3	100.0



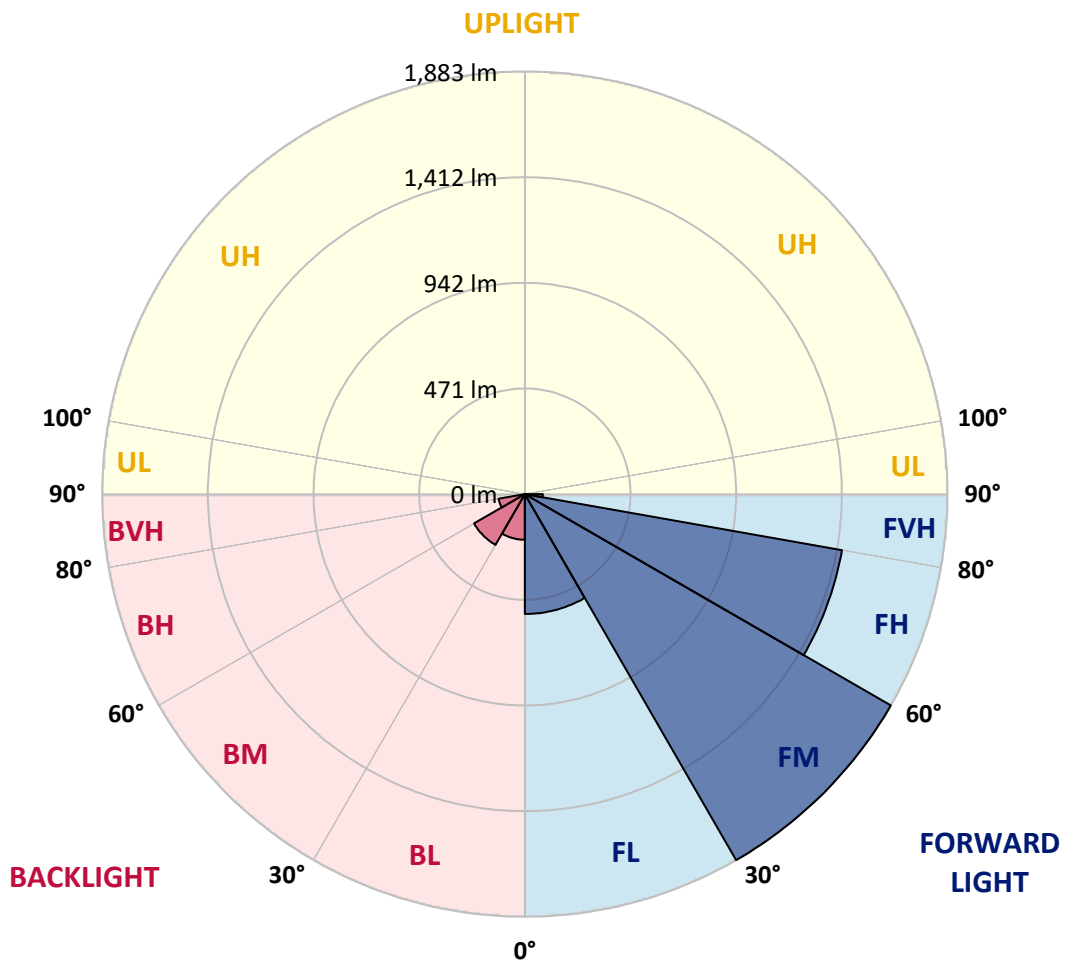
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.1	11.8			
FM (30°-60°)	1883.3	41.7			
FH (60°-80°)	1435.3	31.8			G1/1800
FVH (80°-90°)	79.8	1.8			G1/100
BL (0°-30°)	203.2	4.5	B1/500		
BM (30°-60°)	261.2	5.8	B1/1000		
BH (60°-80°)	118.6	2.6	B1/500		G1/500
BVH (80°-90°)	3.8	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°	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7
2.5°	1763.1	1783.8	1764.3	1696.1	1683.9	1651.0	1601.0	1597.4	1545.0	1551.1	1523.0
5°	1657.1	1677.8	1636.4	1546.2	1462.1	1395.1	1354.9	1283.0	1267.2	1231.8	1231.8
7.5°	1548.6	1547.4	1476.7	1401.2	1275.7	1152.6	1096.6	993.0	932.1	899.2	867.5
10°	1458.5	1439.0	1395.1	1239.1	1102.7	974.7	905.3	837.1	773.7	718.9	664.0
12.5°	1395.1	1407.3	1337.8	1168.5	991.8	902.9	828.5	756.6	681.1	619.0	558.0
15°	1428.0	1408.5	1326.9	1152.6	973.5	851.7	753.0	665.3	581.2	499.6	453.3
17.5°	1530.3	1480.4	1384.1	1152.6	935.8	773.7	654.3	550.7	460.6	387.5	330.2
20°	1668.0	1610.8	1507.2	1195.3	907.7	716.4	553.2	422.8	329.0	260.7	216.9
22.5°	1809.4	1764.3	1608.3	1212.3	874.8	639.7	436.2	305.8	219.3	175.5	153.5
25°	1978.7	1915.4	1744.8	1280.6	826.1	565.4	343.6	213.2	163.3	140.1	126.7
27.5°	2114.0	2103.0	1872.7	1322.0	789.5	504.4	271.7	169.4	135.2	118.2	109.7
30°	2284.6	2224.9	2028.7	1404.9	748.1	435.0	226.6	152.3	124.3	106.0	99.9
32.5°	2386.9	2358.9	2110.3	1451.2	701.8	377.7	194.9	134.0	113.3	99.9	93.8
35°	2535.6	2479.5	2227.3	1480.4	677.4	344.8	175.5	121.8	95.0	81.6	74.3
37.5°	2701.3	2680.5	2367.4	1479.2	642.1	325.3	162.1	113.3	90.2	75.5	67.0
40°	2870.6	2786.6	2452.7	1513.3	623.8	310.7	152.3	108.4	85.3	71.9	60.9
42.5°	2997.3	2901.1	2551.4	1501.1	601.9	285.1	148.6	101.1	81.6	65.8	56.0
45°	3031.5	2997.3	2640.3	1497.5	586.1	264.4	142.6	99.9	79.2	62.1	52.4
47.5°	3097.2	3074.1	2750.0	1503.5	573.9	248.6	127.9	102.3	75.5	58.5	50.0
50°	3126.5	3085.1	2838.9	1518.2	545.9	229.1	114.5	107.2	74.3	57.3	47.5
52.5°	3247.1	3210.6	2960.8	1559.6	522.7	203.5	101.1	102.3	76.8	53.6	45.1
55°	3365.3	3323.9	3148.4	1654.6	489.8	182.8	86.5	90.2	73.1	48.7	40.2
57.5°	3527.4	3459.1	3273.9	1693.6	460.6	154.7	76.8	74.3	68.2	43.9	35.3
60°	3551.7	3579.7	3255.6	1669.2	430.1	136.5	67.0	57.3	73.1	39.0	30.5
62.5°	3633.4	3516.4	3170.4	1613.2	408.2	125.5	59.7	47.5	63.4	34.1	25.6
65°	3476.2	3389.7	2970.5	1432.9	380.2	126.7	52.4	39.0	40.2	28.0	20.7
67.5°	3245.9	3177.7	2639.1	1236.7	352.1	124.3	46.3	34.1	30.5	24.4	18.3
70°	2848.7	2701.3	2241.9	1004.0	310.7	115.8	39.0	30.5	25.6	19.5	13.4
72.5°	2072.5	2012.8	1608.3	776.1	279.0	104.8	36.6	25.6	21.9	14.6	11.0
75°	1395.1	1296.4	1015.0	509.3	224.2	91.4	30.5	23.2	17.1	11.0	8.5
77.5°	737.2	696.9	575.1	242.5	124.3	42.6	17.1	13.4	9.7	8.5	4.9
80°	319.2	283.9	248.6	98.7	43.9	19.5	11.0	7.3	6.1	4.9	2.4
82.5°	163.3	156.0	129.2	42.6	25.6	14.6	6.1	4.9	3.7	2.4	1.2
85°	80.4	82.9	68.2	13.4	14.6	8.5	1.2	1.2	0.0	0.0	0.0
87.5°	6.1	6.1	4.9	2.4	3.7	1.2	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°	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7
2.5°	1512.1	1529.1	1499.9	1518.2	1509.6	1513.3	1516.9	1507.2	1509.6	1543.8	1545.0
5°	1211.1	1244.0	1231.8	1248.9	1278.1	1263.5	1276.9	1274.5	1276.9	1281.8	1303.7
7.5°	863.9	854.1	877.3	922.4	974.7	1006.4	990.6	982.1	977.2	965.0	979.6
10°	651.9	647.0	640.9	654.3	688.4	723.7	743.2	710.3	692.1	668.9	660.4
12.5°	541.0	510.5	493.5	472.8	482.5	514.2	515.4	483.7	454.5	442.3	455.7
15°	426.5	405.7	375.3	346.0	331.4	355.8	335.1	304.6	266.8	262.0	260.7
17.5°	304.6	292.4	270.5	258.3	241.2	235.2	213.2	166.9	140.1	132.8	135.2
20°	207.1	197.4	196.2	185.2	177.9	173.0	137.7	107.2	98.7	99.9	101.1
22.5°	153.5	148.6	142.6	141.3	135.2	129.2	101.1	90.2	84.1	84.1	87.7
25°	125.5	123.1	117.0	114.5	112.1	103.6	85.3	76.8	74.3	71.9	75.5
27.5°	107.2	106.0	102.3	98.7	96.3	87.7	74.3	67.0	64.6	64.6	64.6
30°	96.3	96.3	91.4	84.1	84.1	74.3	63.4	58.5	56.0	56.0	54.8
32.5°	90.2	87.7	81.6	76.8	73.1	63.4	56.0	51.2	47.5	47.5	48.7
35°	73.1	73.1	71.9	68.2	63.4	53.6	47.5	42.6	40.2	39.0	40.2
37.5°	64.6	60.9	56.0	57.3	54.8	46.3	40.2	36.6	32.9	32.9	32.9
40°	58.5	54.8	50.0	46.3	45.1	41.4	35.3	29.2	25.6	24.4	24.4
42.5°	52.4	50.0	42.6	36.6	35.3	35.3	26.8	21.9	18.3	18.3	18.3
45°	48.7	45.1	39.0	31.7	25.6	26.8	21.9	15.8	13.4	12.2	12.2
47.5°	46.3	42.6	34.1	26.8	19.5	19.5	15.8	11.0	8.5	7.3	7.3
50°	42.6	39.0	30.5	21.9	14.6	12.2	9.7	6.1	3.7	2.4	2.4
52.5°	40.2	36.6	26.8	18.3	12.2	8.5	6.1	1.2	0.0	0.0	0.0
55°	36.6	31.7	23.2	14.6	9.7	4.9	1.2	0.0	0.0	0.0	0.0
57.5°	31.7	28.0	18.3	11.0	6.1	1.2	0.0	0.0	0.0	0.0	0.0
60°	26.8	23.2	14.6	8.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	21.9	19.5	11.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18.3	14.6	8.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15.8	12.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.2	8.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.5	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.2	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°	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7
2.5°	1549.8	1586.4	1620.5	1630.3	1657.1	1731.4	1731.4	1766.7	1830.1	1853.2	1858.1
5°	1307.4	1346.4	1353.7	1429.2	1464.6	1540.1	1590.1	1709.5	1781.3	1826.4	1854.5
7.5°	994.2	1007.6	1035.7	1106.3	1175.8	1267.2	1362.2	1514.5	1641.2	1692.4	1787.4
10°	683.5	723.7	784.7	848.0	956.5	1057.6	1180.7	1324.4	1480.4	1543.8	1625.4
12.5°	460.6	516.6	614.1	704.3	804.2	906.5	1023.5	1216.0	1392.7	1480.4	1562.0
15°	269.3	337.5	421.6	567.8	700.6	815.1	932.1	1127.0	1341.5	1454.8	1554.7
17.5°	136.5	157.2	226.6	353.3	528.8	716.4	890.7	1139.2	1380.5	1519.4	1602.2
20°	102.3	108.4	127.9	187.6	361.9	592.2	851.7	1157.5	1488.9	1658.3	1703.4
22.5°	88.9	93.8	102.3	121.8	203.5	453.3	796.9	1202.6	1636.4	1796.0	1891.0
25°	75.5	80.4	87.7	99.9	130.4	308.3	729.8	1250.1	1767.9	1969.0	2057.9
27.5°	65.8	69.5	76.8	86.5	106.0	196.2	614.1	1313.5	1969.0	2178.6	2201.7
30°	56.0	59.7	65.8	76.8	90.2	138.9	450.8	1322.0	2079.9	2269.9	2334.5
32.5°	48.7	50.0	57.3	67.0	75.5	109.7	316.8	1330.5	2161.5	2388.1	2401.5
35°	40.2	42.6	50.0	56.0	65.8	86.5	240.0	1287.9	2267.5	2510.0	2506.3
37.5°	32.9	36.6	41.4	46.3	53.6	73.1	191.3	1208.7	2400.3	2698.8	2584.3
40°	25.6	29.2	34.1	40.2	45.1	65.8	143.8	1089.3	2539.2	2791.4	2669.6
42.5°	18.3	20.7	25.6	31.7	40.2	54.8	103.6	947.9	2594.0	2899.9	2771.9
45°	13.4	15.8	19.5	26.8	41.4	43.9	71.9	818.8	2652.5	2947.4	2748.8
47.5°	7.3	9.7	14.6	23.2	36.6	32.9	51.2	703.0	2719.5	2990.0	2767.1
50°	2.4	3.7	8.5	24.4	29.2	25.6	40.2	640.9	2785.3	2998.6	2803.6
52.5°	0.0	0.0	4.9	25.6	21.9	19.5	35.3	616.5	2768.3	3025.4	2780.5
55°	0.0	0.0	1.2	11.0	12.2	14.6	29.2	615.3	2888.9	3033.9	2907.2
57.5°	0.0	0.0	0.0	3.7	7.3	12.2	25.6	576.3	2965.7	3245.9	3077.8
60°	0.0	0.0	0.0	1.2	4.9	8.5	19.5	542.2	3043.6	3340.9	3260.5
62.5°	0.0	0.0	0.0	0.0	1.2	3.7	13.4	489.8	2886.5	3333.6	3437.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	8.5	387.5	2596.5	3159.4	3339.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.9	268.1	2273.6	2940.1	3160.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.1	1835.0	2578.2	2680.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.5	1309.8	2047.0	2199.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	810.3	1496.2	1683.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	525.1	1133.1	1278.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	280.2	710.3	826.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.8	431.3	497.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	262.0	298.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.2	53.6
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°	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7	1727.7
2.5°	1860.5	1895.9	1909.3	1888.6	1891.0	1848.4	1842.3	1782.6	1758.2	1763.1
5°	1945.8	1997.0	2025.0	2001.9	1949.5	1867.9	1793.5	1722.9	1679.0	1657.1
7.5°	1926.3	1983.6	2018.9	2040.9	1981.2	1849.6	1736.3	1603.5	1547.4	1548.6
10°	1819.1	1938.5	2010.4	1982.4	1954.4	1822.8	1647.3	1503.5	1453.6	1458.5
12.5°	1732.6	1865.4	1908.1	1930.0	1872.7	1767.9	1649.8	1485.3	1429.2	1395.1
15°	1679.0	1777.7	1780.1	1814.2	1791.1	1791.1	1675.3	1514.5	1465.8	1428.0
17.5°	1679.0	1700.9	1698.5	1710.7	1749.7	1796.0	1739.9	1632.7	1536.4	1530.3
20°	1716.8	1648.5	1632.7	1637.6	1670.5	1808.2	1882.5	1748.4	1687.5	1668.0
22.5°	1804.5	1654.6	1558.4	1541.3	1642.4	1806.9	1973.9	1931.2	1825.2	1809.4
25°	1925.1	1643.7	1538.9	1516.9	1593.7	1850.8	2099.4	2107.9	2011.6	1978.7
27.5°	2039.7	1692.4	1536.4	1531.6	1632.7	1841.0	2185.9	2249.2	2140.8	2114.0
30°	2078.6	1741.1	1581.5	1516.9	1647.3	1876.4	2183.4	2349.1	2278.5	2284.6
32.5°	2124.9	1789.9	1586.4	1560.8	1709.5	1933.6	2252.9	2510.0	2458.8	2386.9
35°	2193.2	1855.7	1632.7	1609.5	1753.3	1984.8	2267.5	2628.2	2619.6	2535.6
37.5°	2251.7	1920.2	1729.0	1732.6	1887.3	2067.7	2332.1	2773.1	2758.5	2701.3
40°	2293.1	2010.4	1878.8	1888.6	2004.3	2160.3	2446.6	2846.3	2954.7	2870.6
42.5°	2299.2	2090.8	2050.6	2128.6	2237.0	2304.1	2492.9	2896.2	3052.2	2997.3
45°	2322.3	2218.8	2330.9	2388.1	2477.1	2430.8	2490.5	2981.5	3059.5	3031.5
47.5°	2412.5	2451.5	2592.8	2767.1	2798.7	2646.4	2549.0	2994.9	3100.9	3097.2
50°	2506.3	2701.3	2899.9	3015.6	3055.8	2795.1	2603.8	2983.9	3155.7	3126.5
52.5°	2611.1	2918.1	3204.5	3347.0	3325.1	2959.6	2665.9	3072.9	3256.9	3247.1
55°	2676.9	3015.6	3400.6	3599.2	3582.2	3143.6	2863.3	3200.8	3389.7	3365.3
57.5°	2851.1	3174.0	3595.6	3688.2	3733.3	3384.8	3001.0	3410.4	3500.6	3527.4
60°	2994.9	3277.6	3646.8	3780.8	3796.6	3528.6	3242.2	3626.0	3641.9	3551.7
62.5°	3205.7	3317.8	3538.3	3658.9	3740.6	3610.2	3459.1	3741.8	3639.5	3633.4
65°	3360.4	3186.2	3336.1	3403.1	3455.5	3485.9	3677.2	3821.0	3594.4	3476.2
67.5°	3273.9	2937.6	2909.6	2913.3	2929.1	3113.1	3604.1	3627.3	3343.4	3245.9
70°	2881.6	2410.1	2372.3	2401.5	2322.3	2544.1	3308.0	3297.1	2949.8	2848.7
72.5°	2330.9	1757.0	1692.4	1732.6	1750.9	1986.0	2782.9	2500.2	2151.7	2072.5
75°	1852.0	1287.9	1086.8	1184.3	1246.5	1446.3	2173.7	1698.5	1502.3	1395.1
77.5°	1454.8	974.7	845.6	806.6	863.9	1051.5	1581.5	891.9	787.1	737.2
80°	922.4	716.4	777.4	721.3	745.7	750.6	823.7	405.7	322.9	319.2
82.5°	555.6	489.8	582.4	320.4	583.6	521.5	342.4	184.0	163.3	163.3
85°	393.6	303.4	201.0	130.4	259.5	286.3	132.8	95.0	82.9	80.4
87.5°	197.4	93.8	45.1	29.2	32.9	53.6	15.8	7.3	7.3	6.1
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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