

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: P677422

Luminaire Tested: **CCW-SA-2B-735-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677422
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-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) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

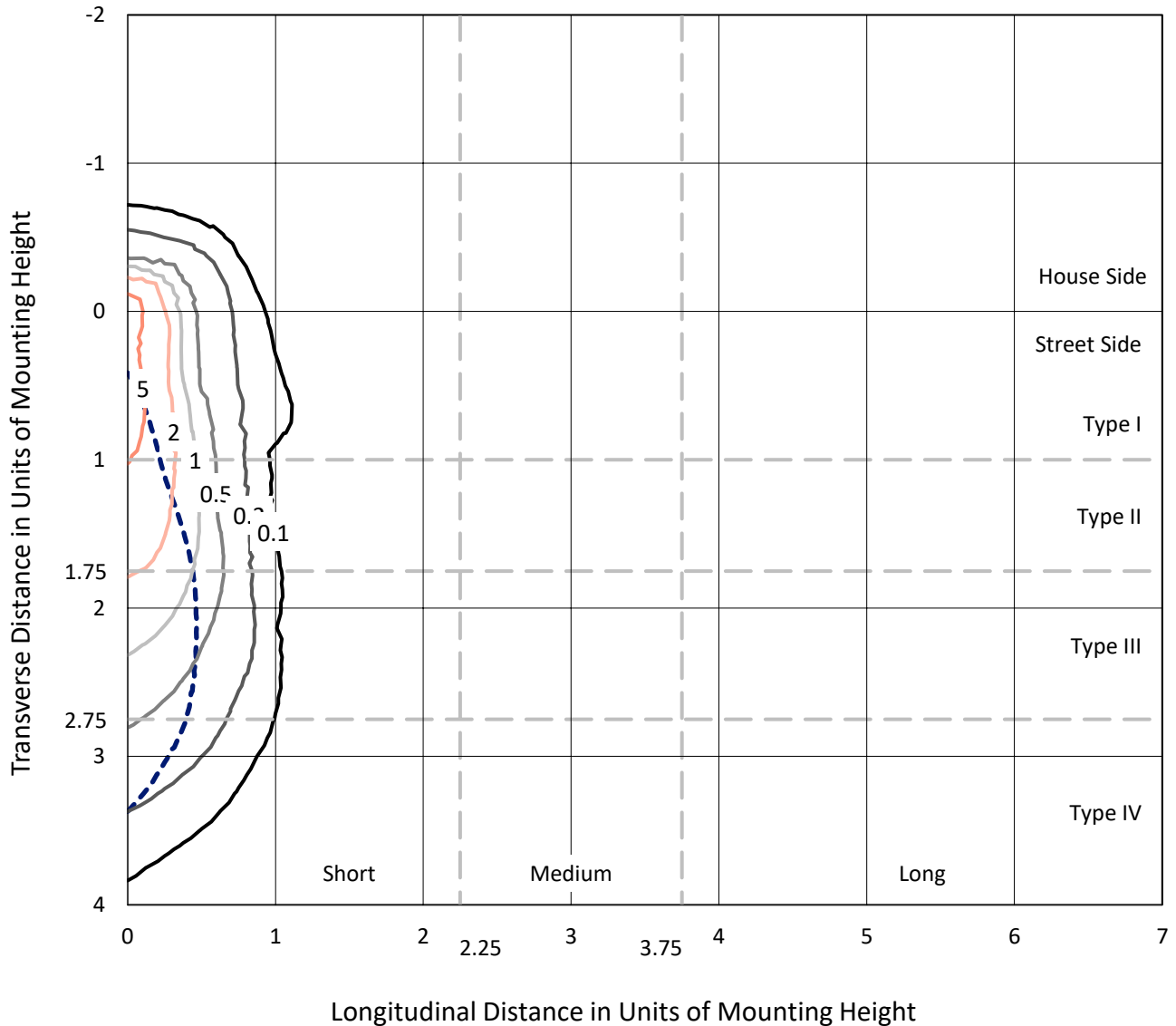
Lumens per Lamp: N/A
Luminaire Lumens: 4895 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

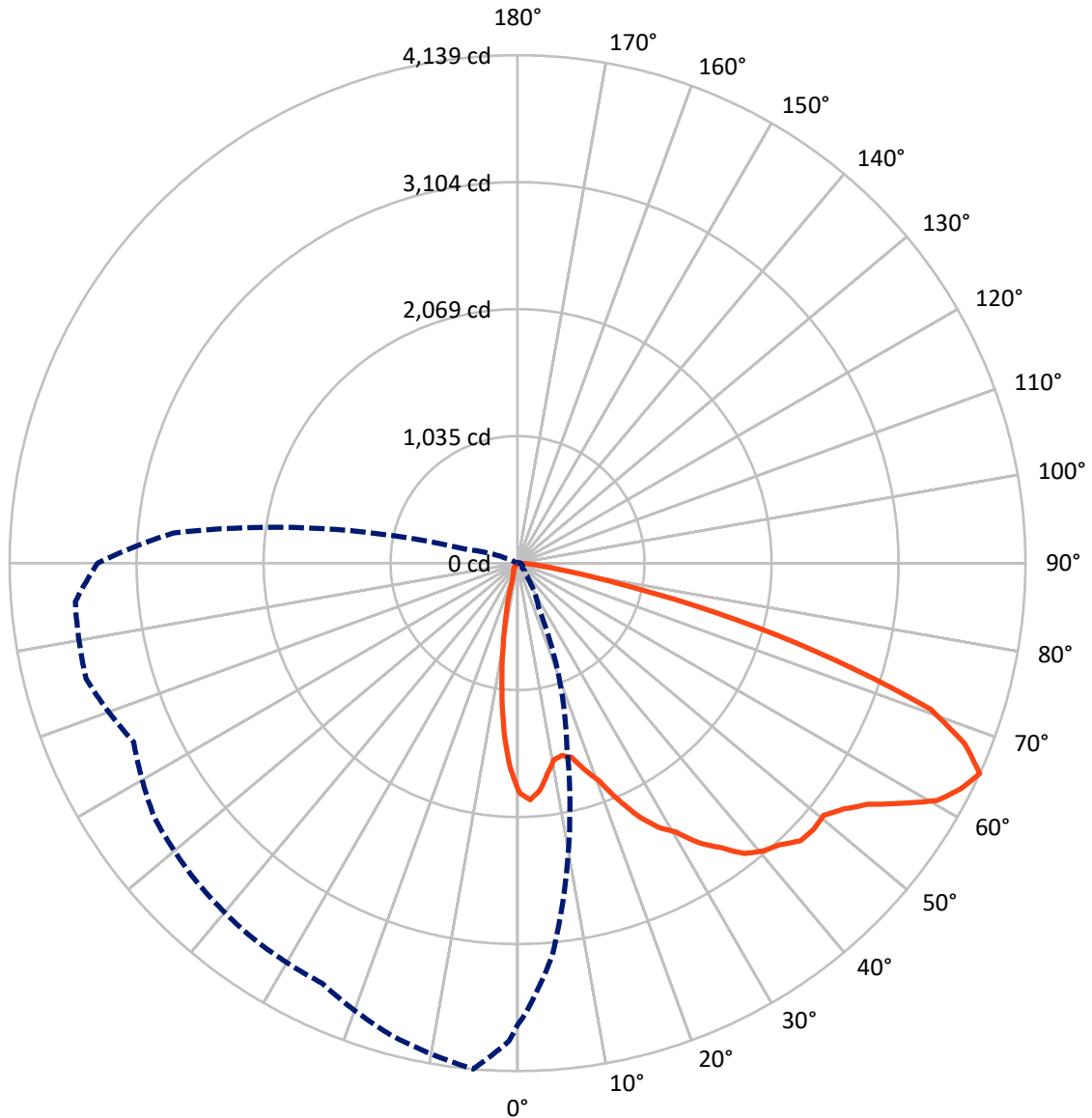
× Max cd
 - - - 1/2 Max cd



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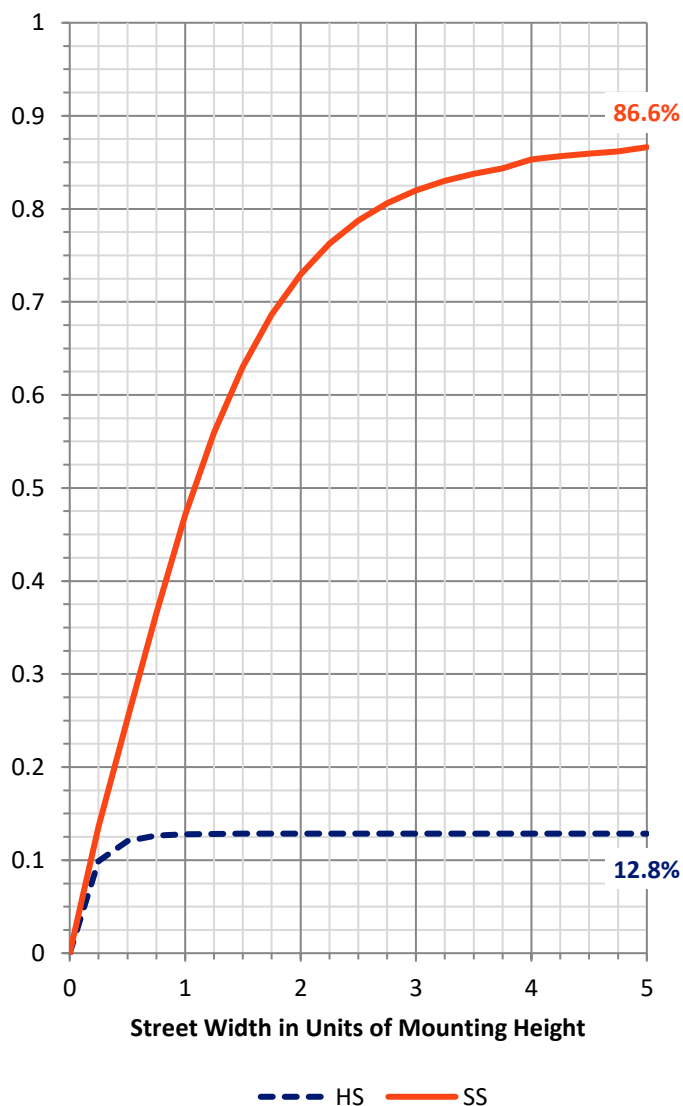
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	635.6	0.0	635.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4259.5	0.0	4259.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	4895.0	0.0	4895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	2.9
10°-20°	274.5	5.6
20°-30°	382.3	7.8
30°-40°	543.2	11.1
40°-50°	753.3	15.4
50°-60°	1026.4	21.0
60°-70°	1128.4	23.1
70°-80°	554.6	11.3
80°-90°	90.6	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°	4895.0	100.0
0°-180°	4895.0	100.0

Coefficient of Utilization



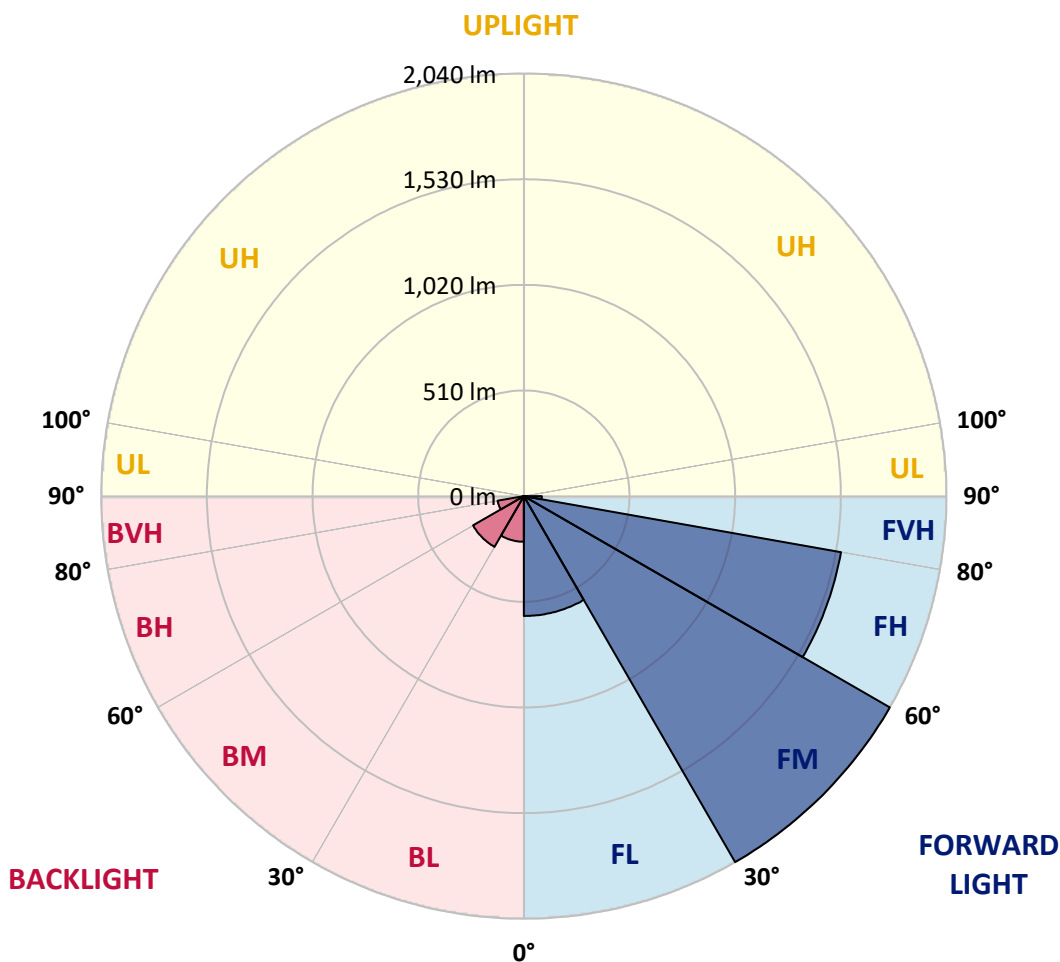
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.5	11.8			
FM (30°-60°)	2039.9	41.7			
FH (60°-80°)	1554.6	31.8			G1/1800
FVH (80°-90°)	86.5	1.8			G1/100
BL (0°-30°)	220.1	4.5	B1/500		
BM (30°-60°)	283.0	5.8	B1/1000		
BH (60°-80°)	128.4	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°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1909.6	1932.1	1911.0	1837.1	1823.9	1788.2	1734.1	1730.2	1673.4	1680.0	1649.7
5°	1794.8	1817.3	1772.4	1674.7	1583.7	1511.1	1467.5	1389.7	1372.5	1334.2	1334.2
7.5°	1677.4	1676.0	1599.5	1517.7	1381.7	1248.5	1187.7	1075.6	1009.6	974.0	939.6
10°	1579.7	1558.6	1511.1	1342.2	1194.3	1055.8	980.6	906.6	838.0	778.6	719.2
12.5°	1511.1	1524.3	1449.1	1265.6	1074.3	977.9	897.4	819.5	737.7	670.4	604.4
15°	1546.7	1525.6	1437.2	1248.5	1054.5	922.5	815.6	720.6	629.5	541.1	490.9
17.5°	1657.6	1603.5	1499.2	1248.5	1013.5	838.0	708.7	596.5	498.9	419.7	357.6
20°	1806.7	1744.7	1632.5	1294.6	983.2	776.0	599.2	457.9	356.3	282.4	234.9
22.5°	1959.8	1911.0	1742.0	1313.1	947.6	692.9	472.5	331.2	237.5	190.0	166.3
25°	2143.2	2074.6	1889.8	1387.0	894.8	612.4	372.2	231.0	176.8	151.8	137.3
27.5°	2289.7	2277.8	2028.4	1431.9	855.2	546.4	294.3	183.4	146.5	128.0	118.8
30°	2474.5	2409.8	2197.3	1521.6	810.3	471.1	245.5	165.0	134.6	114.8	108.2
32.5°	2585.3	2555.0	2285.8	1571.8	760.2	409.1	211.2	145.2	122.7	108.2	101.6
35°	2746.3	2685.6	2412.4	1603.5	733.8	373.5	190.0	132.0	102.9	88.4	80.5
37.5°	2925.8	2903.4	2564.2	1602.1	695.5	352.4	175.5	122.7	97.7	81.8	72.6
40°	3109.3	3018.2	2656.6	1639.1	675.7	336.5	165.0	117.5	92.4	77.9	66.0
42.5°	3246.5	3142.3	2763.5	1625.9	651.9	308.8	161.0	109.5	88.4	71.3	60.7
45°	3283.5	3246.5	2859.8	1621.9	634.8	286.4	154.4	108.2	85.8	67.3	56.7
47.5°	3354.7	3329.7	2978.6	1628.5	621.6	269.2	138.6	110.9	81.8	63.3	54.1
50°	3386.4	3341.5	3074.9	1644.4	591.2	248.1	124.1	116.1	80.5	62.0	51.5
52.5°	3517.1	3477.5	3206.9	1689.2	566.2	220.4	109.5	110.9	83.1	58.1	48.8
55°	3645.1	3600.2	3410.2	1792.2	530.5	198.0	93.7	97.7	79.2	52.8	43.6
57.5°	3820.6	3746.7	3546.1	1834.4	498.9	167.6	83.1	80.5	73.9	47.5	38.3
60°	3847.0	3877.3	3526.3	1808.0	465.9	147.8	72.6	62.0	79.2	42.2	33.0
62.5°	3935.4	3808.7	3433.9	1747.3	442.1	135.9	64.7	51.5	68.6	37.0	27.7
65°	3765.2	3671.5	3217.5	1552.0	411.8	137.3	56.7	42.2	43.6	30.4	22.4
67.5°	3515.7	3441.8	2858.5	1339.5	381.4	134.6	50.1	37.0	33.0	26.4	19.8
70°	3085.5	2925.8	2428.3	1087.5	336.5	125.4	42.2	33.0	27.7	21.1	14.5
72.5°	2244.8	2180.2	1742.0	840.7	302.2	113.5	39.6	27.7	23.8	15.8	11.9
75°	1511.1	1404.2	1099.3	551.6	242.8	99.0	33.0	25.1	18.5	11.9	9.2
77.5°	798.4	754.9	622.9	262.6	134.6	46.2	18.5	14.5	10.6	9.2	5.3
80°	345.8	307.5	269.2	106.9	47.5	21.1	11.9	7.9	6.6	5.3	2.6
82.5°	176.8	168.9	139.9	46.2	27.7	15.8	6.6	5.3	4.0	2.6	1.3
85°	87.1	89.7	73.9	14.5	15.8	9.2	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°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1637.8	1656.2	1624.6	1644.4	1635.1	1639.1	1643.1	1632.5	1635.1	1672.1	1673.4
5°	1311.8	1347.4	1334.2	1352.7	1384.4	1368.6	1383.1	1380.4	1383.1	1388.3	1412.1
7.5°	935.7	925.1	950.2	999.0	1055.8	1090.1	1072.9	1063.7	1058.4	1045.2	1061.1
10°	706.1	700.8	694.2	708.7	745.6	783.9	805.0	769.4	749.6	724.5	715.3
12.5°	586.0	553.0	534.5	512.1	522.6	556.9	558.2	523.9	492.3	479.1	493.6
15°	461.9	439.5	406.5	374.8	359.0	385.4	362.9	329.9	289.0	283.7	282.4
17.5°	329.9	316.7	293.0	279.8	261.3	254.7	231.0	180.8	151.8	143.8	146.5
20°	224.4	213.8	212.5	200.6	192.7	187.4	149.1	116.1	106.9	108.2	109.5
22.5°	166.3	161.0	154.4	153.1	146.5	139.9	109.5	97.7	91.1	91.1	95.0
25°	135.9	133.3	126.7	124.1	121.4	112.2	92.4	83.1	80.5	77.9	81.8
27.5°	116.1	114.8	110.9	106.9	104.3	95.0	80.5	72.6	69.9	69.9	69.9
30°	104.3	104.3	99.0	91.1	91.1	80.5	68.6	63.3	60.7	60.7	59.4
32.5°	97.7	95.0	88.4	83.1	79.2	68.6	60.7	55.4	51.5	51.5	52.8
35°	79.2	79.2	77.9	73.9	68.6	58.1	51.5	46.2	43.6	42.2	43.6
37.5°	69.9	66.0	60.7	62.0	59.4	50.1	43.6	39.6	35.6	35.6	35.6
40°	63.3	59.4	54.1	50.1	48.8	44.9	38.3	31.7	27.7	26.4	26.4
42.5°	56.7	54.1	46.2	39.6	38.3	38.3	29.0	23.8	19.8	19.8	19.8
45°	52.8	48.8	42.2	34.3	27.7	29.0	23.8	17.2	14.5	13.2	13.2
47.5°	50.1	46.2	37.0	29.0	21.1	21.1	17.2	11.9	9.2	7.9	7.9
50°	46.2	42.2	33.0	23.8	15.8	13.2	10.6	6.6	4.0	2.6	2.6
52.5°	43.6	39.6	29.0	19.8	13.2	9.2	6.6	1.3	0.0	0.0	0.0
55°	39.6	34.3	25.1	15.8	10.6	5.3	1.3	0.0	0.0	0.0	0.0
57.5°	34.3	30.4	19.8	11.9	6.6	1.3	0.0	0.0	0.0	0.0	0.0
60°	29.0	25.1	15.8	9.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23.8	21.1	11.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19.8	15.8	9.2	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	9.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.2	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°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1678.7	1718.3	1755.2	1765.8	1794.8	1875.3	1875.3	1913.6	1982.2	2007.3	2012.6
5°	1416.1	1458.3	1466.2	1548.0	1586.3	1668.1	1722.2	1851.6	1929.4	1978.3	2008.6
7.5°	1076.9	1091.4	1121.8	1198.3	1273.5	1372.5	1475.4	1640.4	1777.7	1833.1	1936.0
10°	740.4	783.9	849.9	918.5	1036.0	1145.5	1278.8	1434.5	1603.5	1672.1	1760.5
12.5°	498.9	559.6	665.1	762.8	871.0	981.9	1108.6	1317.1	1508.4	1603.5	1691.9
15°	291.7	365.6	456.6	615.0	758.8	882.9	1009.6	1220.7	1453.0	1575.7	1684.0
17.5°	147.8	170.2	245.5	382.7	572.8	776.0	964.7	1233.9	1495.2	1645.7	1735.4
20°	110.9	117.5	138.6	203.2	392.0	641.4	922.5	1253.7	1612.7	1796.1	1845.0
22.5°	96.3	101.6	110.9	132.0	220.4	490.9	863.1	1302.6	1772.4	1945.3	2048.2
25°	81.8	87.1	95.0	108.2	141.2	333.9	790.5	1354.0	1914.9	2132.7	2229.0
27.5°	71.3	75.2	83.1	93.7	114.8	212.5	665.1	1422.7	2132.7	2359.7	2384.7
30°	60.7	64.7	71.3	83.1	97.7	150.4	488.3	1431.9	2252.8	2458.6	2528.6
32.5°	52.8	54.1	62.0	72.6	81.8	118.8	343.1	1441.1	2341.2	2586.7	2601.2
35°	43.6	46.2	54.1	60.7	71.3	93.7	260.0	1394.9	2456.0	2718.6	2714.7
37.5°	35.6	39.6	44.9	50.1	58.1	79.2	207.2	1309.2	2599.9	2923.2	2799.1
40°	27.7	31.7	37.0	43.6	48.8	71.3	155.7	1179.8	2750.3	3023.5	2891.5
42.5°	19.8	22.4	27.7	34.3	43.6	59.4	112.2	1026.7	2809.7	3140.9	3002.4
45°	14.5	17.2	21.1	29.0	44.9	47.5	77.9	886.9	2873.0	3192.4	2977.3
47.5°	7.9	10.6	15.8	25.1	39.6	35.6	55.4	761.5	2945.6	3238.6	2997.1
50°	2.6	4.0	9.2	26.4	31.7	27.7	43.6	694.2	3016.9	3247.8	3036.7
52.5°	0.0	0.0	5.3	27.7	23.8	21.1	38.3	667.8	2998.4	3276.9	3011.6
55°	0.0	0.0	1.3	11.9	13.2	15.8	31.7	666.5	3129.1	3286.1	3148.9
57.5°	0.0	0.0	0.0	4.0	7.9	13.2	27.7	624.2	3212.2	3515.7	3333.6
60°	0.0	0.0	0.0	1.3	5.3	9.2	21.1	587.3	3296.7	3618.7	3531.6
62.5°	0.0	0.0	0.0	0.0	1.3	4.0	14.5	530.5	3126.4	3610.8	3722.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.2	419.7	2812.3	3422.0	3617.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	290.3	2462.6	3184.5	3423.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.5	1987.5	2792.5	2903.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.2	1418.7	2217.1	2382.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	877.6	1620.6	1823.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	568.8	1227.3	1384.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	303.5	769.4	894.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.0	467.2	538.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.2	283.7	323.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6	58.1
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°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	2015.2	2053.5	2068.0	2045.6	2048.2	2002.0	1995.4	1930.8	1904.4	1909.6
5°	2107.6	2163.0	2193.4	2168.3	2111.6	2023.1	1942.6	1866.1	1818.6	1794.8
7.5°	2086.5	2148.5	2186.8	2210.5	2145.9	2003.3	1880.6	1736.8	1676.0	1677.4
10°	1970.3	2099.7	2177.5	2147.2	2116.8	1974.3	1784.3	1628.5	1574.4	1579.7
12.5°	1876.6	2020.5	2066.7	2090.4	2028.4	1914.9	1786.9	1608.7	1548.0	1511.1
15°	1818.6	1925.5	1928.1	1965.1	1940.0	1940.0	1814.6	1640.4	1587.6	1546.7
17.5°	1818.6	1842.3	1839.7	1852.9	1895.1	1945.3	1884.6	1768.4	1664.2	1657.6
20°	1859.5	1785.6	1768.4	1773.7	1809.3	1958.5	2039.0	1893.8	1827.8	1806.7
22.5°	1954.5	1792.2	1687.9	1669.4	1779.0	1957.1	2137.9	2091.8	1976.9	1959.8
25°	2085.2	1780.3	1666.8	1643.1	1726.2	2004.7	2273.9	2283.1	2178.9	2143.2
27.5°	2209.2	1833.1	1664.2	1658.9	1768.4	1994.1	2367.6	2436.2	2318.7	2289.7
30°	2251.4	1885.9	1713.0	1643.1	1784.3	2032.4	2364.9	2544.4	2467.9	2474.5
32.5°	2301.6	1938.7	1718.3	1690.6	1851.6	2094.4	2440.2	2718.6	2663.2	2585.3
35°	2375.5	2009.9	1768.4	1743.4	1899.1	2149.8	2456.0	2846.6	2837.4	2746.3
37.5°	2438.8	2079.9	1872.7	1876.6	2044.2	2239.6	2525.9	3003.7	2987.8	2925.8
40°	2483.7	2177.5	2035.0	2045.6	2170.9	2339.9	2650.0	3082.9	3200.3	3109.3
42.5°	2490.3	2264.6	2221.1	2305.6	2423.0	2495.6	2700.1	3137.0	3305.9	3246.5
45°	2515.4	2403.2	2524.6	2586.7	2683.0	2632.8	2697.5	3229.4	3313.8	3283.5
47.5°	2613.0	2655.3	2808.4	2997.1	3031.4	2866.4	2760.9	3243.9	3358.7	3354.7
50°	2714.7	2925.8	3140.9	3266.3	3309.9	3027.4	2820.2	3232.0	3418.1	3386.4
52.5°	2828.2	3160.7	3470.9	3625.3	3601.5	3205.6	2887.5	3328.3	3527.6	3517.1
55°	2899.4	3266.3	3683.3	3898.5	3880.0	3404.9	3101.3	3466.9	3671.5	3645.1
57.5°	3088.1	3437.9	3894.5	3994.8	4043.6	3666.2	3250.5	3693.9	3791.6	3820.6
60°	3243.9	3550.0	3949.9	4095.1	4112.3	3821.9	3511.8	3927.5	3944.6	3847.0
62.5°	3472.2	3593.6	3832.5	3963.1	4051.5	3910.3	3746.7	4052.9	3942.0	3935.4
65°	3639.8	3451.1	3613.4	3686.0	3742.7	3775.7	3982.9	4138.6	3893.2	3765.2
67.5°	3546.1	3181.8	3151.5	3155.5	3172.6	3371.9	3903.7	3928.8	3621.3	3515.7
70°	3121.1	2610.4	2569.5	2601.2	2515.4	2755.6	3583.0	3571.2	3195.0	3085.5
72.5°	2524.6	1903.0	1833.1	1876.6	1896.4	2151.1	3014.2	2708.1	2330.6	2244.8
75°	2006.0	1394.9	1177.2	1282.8	1350.1	1566.5	2354.4	1839.7	1627.2	1511.1
77.5°	1575.7	1055.8	915.9	873.7	935.7	1138.9	1713.0	966.0	852.5	798.4
80°	999.0	776.0	842.0	781.3	807.7	812.9	892.1	439.5	349.7	345.8
82.5°	601.8	530.5	630.8	347.1	632.1	564.8	370.8	199.3	176.8	176.8
85°	426.3	328.6	217.8	141.2	281.1	310.1	143.8	102.9	89.7	87.1
87.5°	213.8	101.6	48.8	31.7	35.6	58.1	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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