

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: P677453

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677453
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-760-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

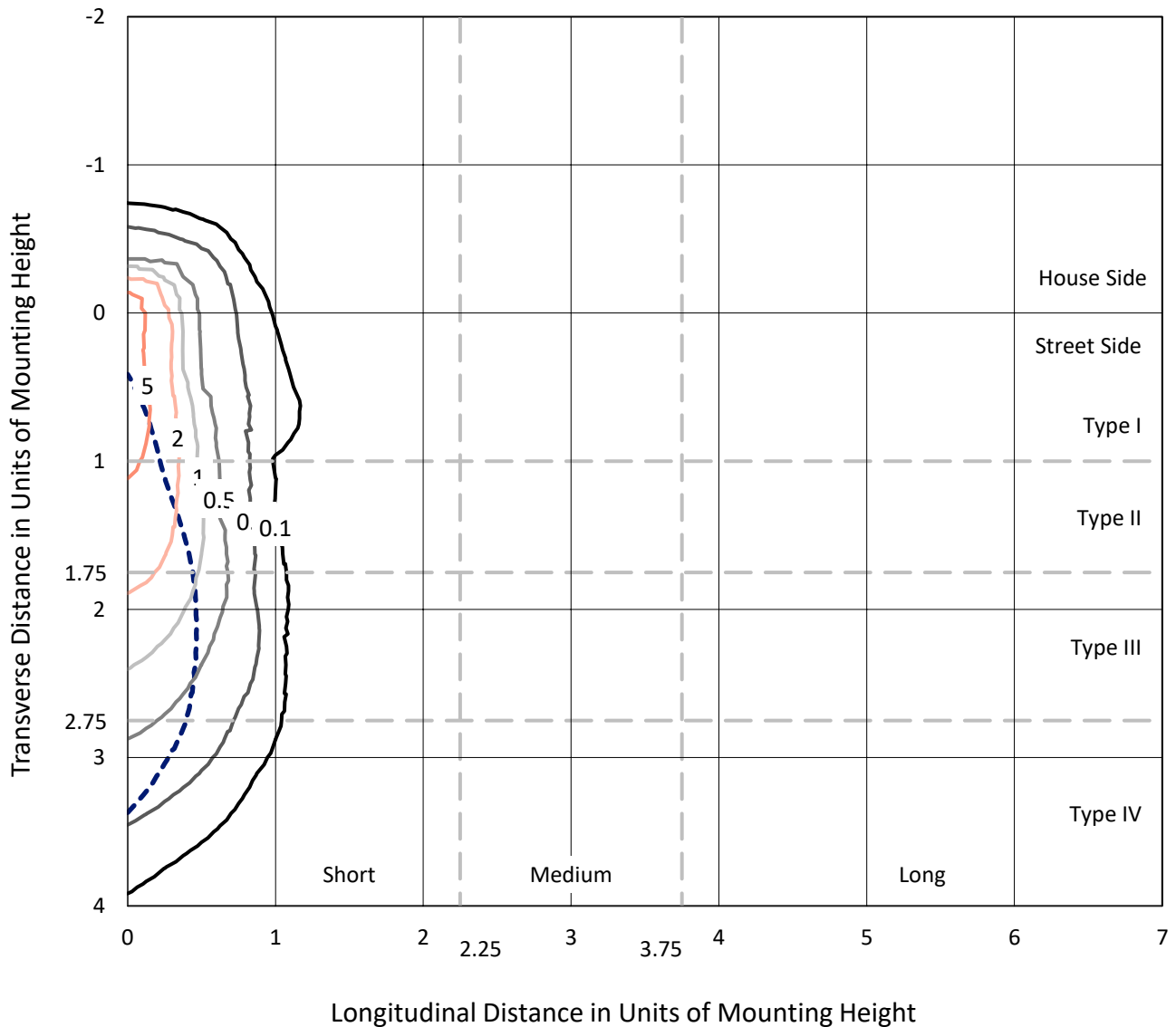
Lumens per Lamp: N/A
Luminaire Lumens: 5511.5 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

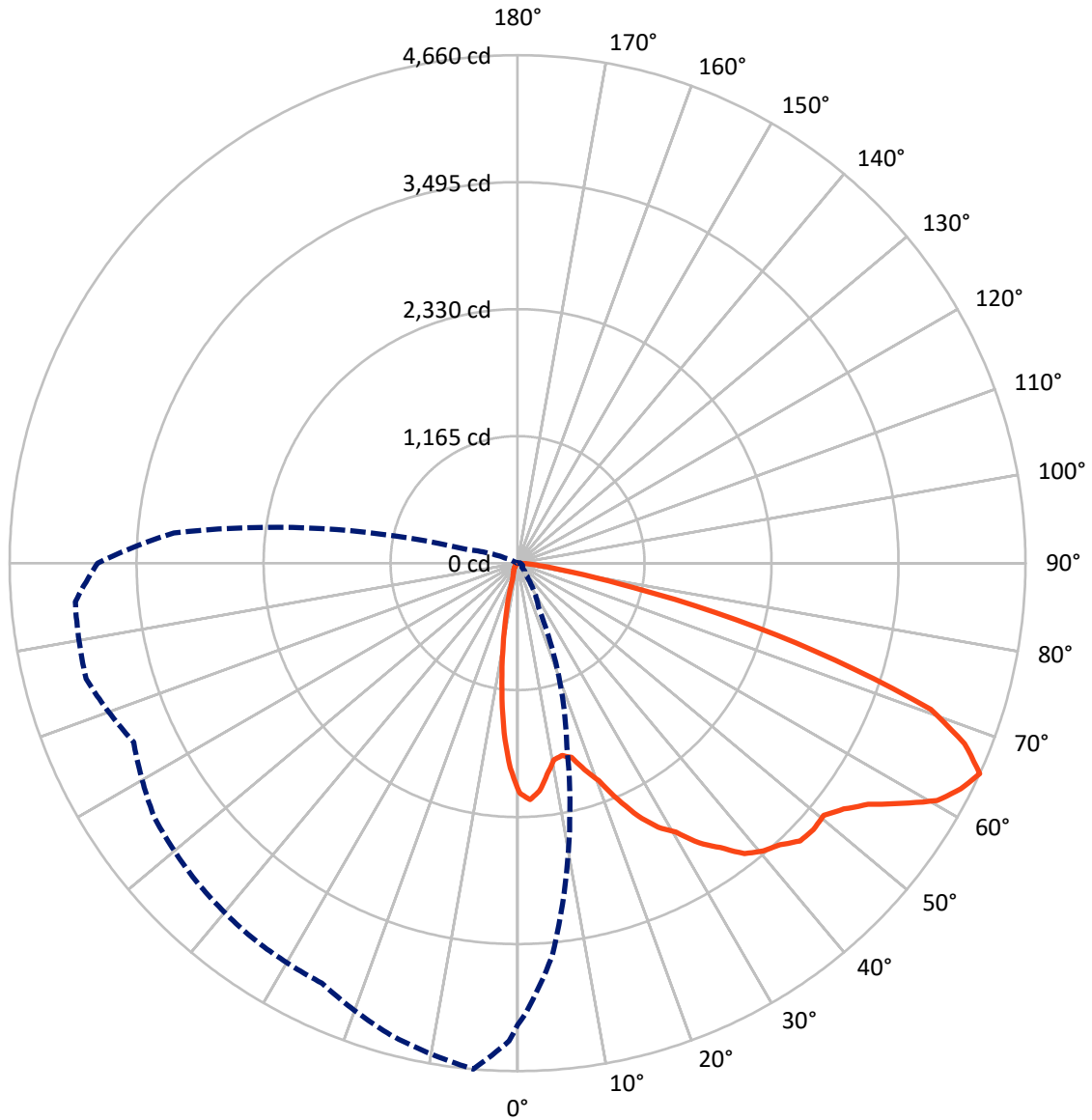
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.4 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	715.6	0.0	715.6
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4795.9	0.0	4795.9
	% Fixture	87.0	0.0	87.0
Total	Lumens	5511.5	0.0	5511.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	2.9
10°-20°	309.1	5.6
20°-30°	430.4	7.8
30°-40°	611.6	11.1
40°-50°	848.1	15.4
50°-60°	1155.6	21.0
60°-70°	1270.5	23.1
70°-80°	624.5	11.3
80°-90°	102.0	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°	5511.5	100.0
0°-180°	5511.5	100.0



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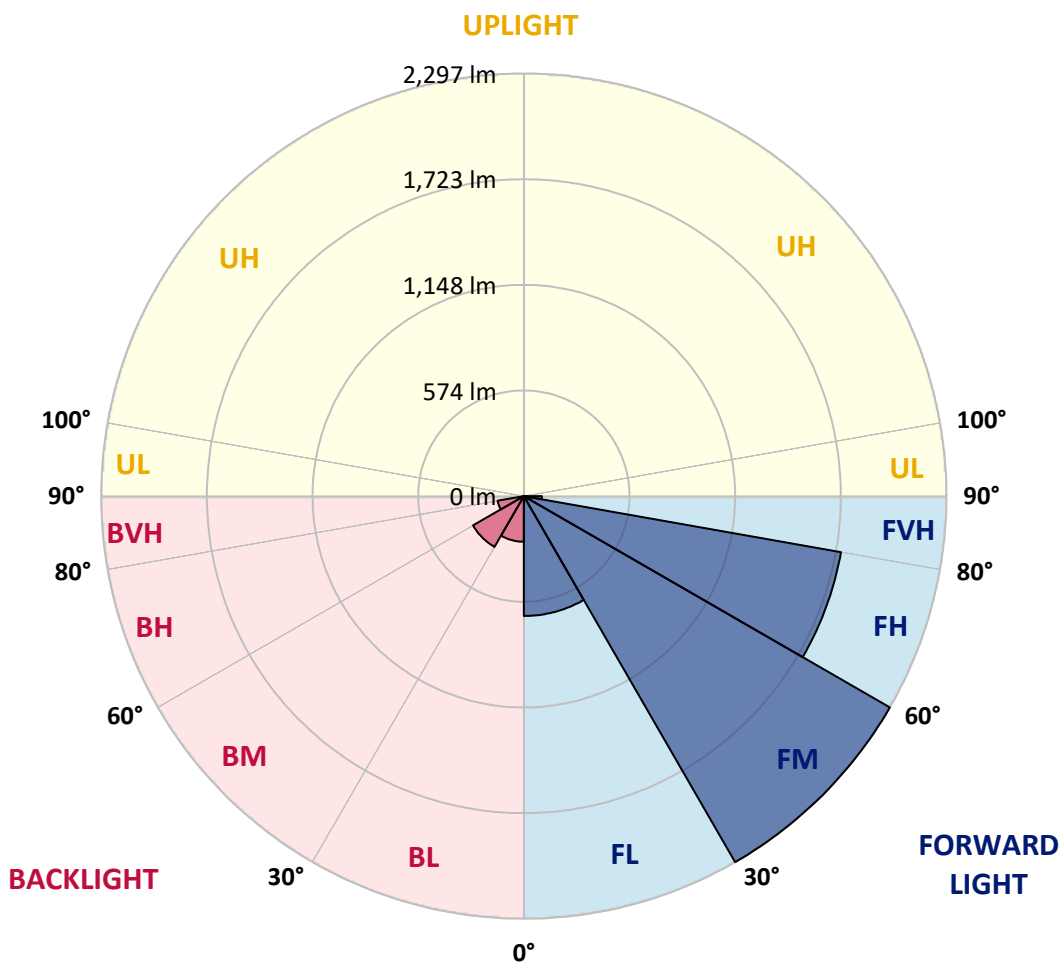
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.3	11.8			
FM (30°-60°)	2296.8	41.7			
FH (60°-80°)	1750.4	31.8			G1/1800
FVH (80°-90°)	97.4	1.8			G1/100
BL (0°-30°)	247.8	4.5	B1/500		
BM (30°-60°)	318.6	5.8	B1/1000		
BH (60°-80°)	144.6	2.6	B1/500		G1/500
BVH (80°-90°)	4.6	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°	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0
2.5°	2150.1	2175.4	2151.6	2068.4	2053.5	2013.4	1952.5	1948.0	1884.1	1891.6	1857.4
5°	2020.8	2046.1	1995.6	1885.6	1783.1	1701.4	1652.3	1564.7	1545.4	1502.3	1502.3
7.5°	1888.6	1887.1	1800.9	1708.8	1555.8	1405.7	1337.3	1211.0	1136.7	1096.6	1058.0
10°	1778.6	1754.9	1701.4	1511.2	1344.8	1188.7	1104.0	1020.8	943.6	876.7	809.8
12.5°	1701.4	1716.2	1631.5	1425.0	1209.5	1101.1	1010.4	922.8	830.6	754.8	680.5
15°	1741.5	1717.7	1618.2	1405.7	1187.2	1038.7	918.3	811.3	708.8	609.2	552.8
17.5°	1866.3	1805.4	1688.0	1405.7	1141.2	943.6	797.9	671.6	561.7	472.5	402.7
20°	2034.2	1964.4	1838.1	1457.7	1107.0	873.7	674.6	515.6	401.2	318.0	264.5
22.5°	2206.6	2151.6	1961.4	1478.5	1066.9	780.1	532.0	373.0	267.5	214.0	187.2
25°	2413.1	2335.9	2127.8	1561.7	1007.4	689.5	419.0	260.0	199.1	170.9	154.5
27.5°	2578.1	2564.7	2283.8	1612.2	962.9	615.2	331.4	206.5	164.9	144.1	133.7
30°	2786.1	2713.3	2474.0	1713.3	912.4	530.5	276.4	185.7	151.6	129.3	121.8
32.5°	2910.9	2876.7	2573.6	1769.7	855.9	460.6	237.7	163.5	138.2	121.8	114.4
35°	3092.2	3023.8	2716.3	1805.4	826.2	420.5	214.0	148.6	115.9	99.6	90.6
37.5°	3294.3	3269.0	2887.1	1803.9	783.1	396.7	197.6	138.2	110.0	92.1	81.7
40°	3500.8	3398.3	2991.1	1845.5	760.8	378.9	185.7	132.2	104.0	87.7	74.3
42.5°	3655.3	3538.0	3111.5	1830.6	734.0	347.7	181.3	123.3	99.6	80.2	68.4
45°	3697.0	3655.3	3220.0	1826.2	714.7	322.4	173.9	121.8	96.6	75.8	63.9
47.5°	3777.2	3749.0	3353.7	1833.6	699.9	303.1	156.0	124.8	92.1	71.3	60.9
50°	3812.9	3762.3	3462.2	1851.4	665.7	279.4	139.7	130.8	90.6	69.8	58.0
52.5°	3960.0	3915.4	3610.8	1902.0	637.5	248.1	123.3	124.8	93.6	65.4	55.0
55°	4104.1	4053.6	3839.6	2017.9	597.3	222.9	105.5	110.0	89.2	59.4	49.0
57.5°	4301.7	4218.5	3992.7	2065.4	561.7	188.7	93.6	90.6	83.2	53.5	43.1
60°	4331.4	4365.6	3970.4	2035.7	524.5	166.4	81.7	69.8	89.2	47.5	37.1
62.5°	4431.0	4288.3	3866.3	1967.3	497.8	153.0	72.8	58.0	77.3	41.6	31.2
65°	4239.3	4133.8	3622.7	1747.4	463.6	154.5	63.9	47.5	49.0	34.2	25.3
67.5°	3958.5	3875.3	3218.5	1508.2	429.4	151.6	56.5	41.6	37.1	29.7	22.3
70°	3474.1	3294.3	2734.1	1224.4	378.9	141.2	47.5	37.1	31.2	23.8	16.3
72.5°	2527.5	2454.7	1961.4	946.5	340.3	127.8	44.6	31.2	26.7	17.8	13.4
75°	1701.4	1581.0	1237.8	621.1	273.4	111.4	37.1	28.2	20.8	13.4	10.4
77.5°	899.0	849.9	701.4	295.7	151.6	52.0	20.8	16.3	11.9	10.4	5.9
80°	389.3	346.2	303.1	120.4	53.5	23.8	13.4	8.9	7.4	5.9	3.0
82.5°	199.1	190.2	157.5	52.0	31.2	17.8	7.4	5.9	4.5	3.0	1.5
85°	98.1	101.0	83.2	16.3	17.8	10.4	1.5	1.5	0.0	0.0	0.0
87.5°	7.4	7.4	5.9	3.0	4.5	1.5	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°	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0
2.5°	1844.0	1864.8	1829.2	1851.4	1841.0	1845.5	1850.0	1838.1	1841.0	1882.7	1884.1
5°	1477.0	1517.1	1502.3	1523.1	1558.7	1540.9	1557.2	1554.3	1557.2	1563.2	1589.9
7.5°	1053.5	1041.6	1069.9	1124.8	1188.7	1227.4	1208.0	1197.6	1191.7	1176.8	1194.7
10°	795.0	789.0	781.6	797.9	839.5	882.6	906.4	866.3	844.0	815.8	805.4
12.5°	659.7	622.6	601.8	576.5	588.4	627.1	628.5	589.9	554.2	539.4	555.7
15°	520.1	494.8	457.7	422.0	404.2	433.9	408.6	371.5	325.4	319.5	318.0
17.5°	371.5	356.6	329.9	315.0	294.2	286.8	260.0	203.6	170.9	162.0	164.9
20°	252.6	240.7	239.2	225.9	216.9	211.0	167.9	130.8	120.4	121.8	123.3
22.5°	187.2	181.3	173.9	172.4	164.9	157.5	123.3	110.0	102.5	102.5	107.0
25°	153.0	150.1	142.6	139.7	136.7	126.3	104.0	93.6	90.6	87.7	92.1
27.5°	130.8	129.3	124.8	120.4	117.4	107.0	90.6	81.7	78.8	78.8	78.8
30°	117.4	117.4	111.4	102.5	102.5	90.6	77.3	71.3	68.4	68.4	66.9
32.5°	110.0	107.0	99.6	93.6	89.2	77.3	68.4	62.4	58.0	58.0	59.4
35°	89.2	89.2	87.7	83.2	77.3	65.4	58.0	52.0	49.0	47.5	49.0
37.5°	78.8	74.3	68.4	69.8	66.9	56.5	49.0	44.6	40.1	40.1	40.1
40°	71.3	66.9	60.9	56.5	55.0	50.5	43.1	35.7	31.2	29.7	29.7
42.5°	63.9	60.9	52.0	44.6	43.1	43.1	32.7	26.7	22.3	22.3	22.3
45°	59.4	55.0	47.5	38.6	31.2	32.7	26.7	19.3	16.3	14.9	14.9
47.5°	56.5	52.0	41.6	32.7	23.8	23.8	19.3	13.4	10.4	8.9	8.9
50°	52.0	47.5	37.1	26.7	17.8	14.9	11.9	7.4	4.5	3.0	3.0
52.5°	49.0	44.6	32.7	22.3	14.9	10.4	7.4	1.5	0.0	0.0	0.0
55°	44.6	38.6	28.2	17.8	11.9	5.9	1.5	0.0	0.0	0.0	0.0
57.5°	38.6	34.2	22.3	13.4	7.4	1.5	0.0	0.0	0.0	0.0	0.0
60°	32.7	28.2	17.8	10.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	26.7	23.8	13.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	22.3	17.8	10.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19.3	14.9	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.9	10.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.4	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.5	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°	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0
2.5°	1890.1	1934.7	1976.3	1988.2	2020.8	2111.5	2111.5	2154.6	2231.8	2260.1	2266.0
5°	1594.4	1641.9	1650.9	1743.0	1786.1	1878.2	1939.1	2084.7	2172.4	2227.4	2261.6
7.5°	1212.5	1228.9	1263.0	1349.2	1433.9	1545.4	1661.3	1847.0	2001.5	2063.9	2179.8
10°	833.6	882.6	956.9	1034.2	1166.4	1289.8	1439.9	1615.2	1805.4	1882.7	1982.2
12.5°	561.7	630.0	748.9	858.9	980.7	1105.5	1248.2	1482.9	1698.4	1805.4	1904.9
15°	328.4	411.6	514.1	692.4	854.4	994.1	1136.7	1374.5	1636.0	1774.2	1896.0
17.5°	166.4	191.7	276.4	430.9	644.9	873.7	1086.2	1389.3	1683.5	1852.9	1954.0
20°	124.8	132.2	156.0	228.8	441.3	722.2	1038.7	1411.6	1815.8	2022.3	2077.3
22.5°	108.5	114.4	124.8	148.6	248.1	552.8	971.8	1466.6	1995.6	2190.2	2306.1
25°	92.1	98.1	107.0	121.8	159.0	375.9	890.1	1524.5	2156.1	2401.2	2509.7
27.5°	80.2	84.7	93.6	105.5	129.3	239.2	748.9	1601.8	2401.2	2656.8	2685.0
30°	68.4	72.8	80.2	93.6	110.0	169.4	549.8	1612.2	2536.5	2768.3	2847.0
32.5°	59.4	60.9	69.8	81.7	92.1	133.7	386.3	1622.6	2636.0	2912.4	2928.7
35°	49.0	52.0	60.9	68.4	80.2	105.5	292.7	1570.6	2765.3	3061.0	3056.5
37.5°	40.1	44.6	50.5	56.5	65.4	89.2	233.3	1474.0	2927.2	3291.3	3151.6
40°	31.2	35.7	41.6	49.0	55.0	80.2	175.3	1328.4	3096.6	3404.2	3255.6
42.5°	22.3	25.3	31.2	38.6	49.0	66.9	126.3	1156.0	3163.5	3536.5	3380.5
45°	16.3	19.3	23.8	32.7	50.5	53.5	87.7	998.5	3234.8	3594.4	3352.2
47.5°	8.9	11.9	17.8	28.2	44.6	40.1	62.4	857.4	3316.6	3646.4	3374.5
50°	3.0	4.5	10.4	29.7	35.7	31.2	49.0	781.6	3396.8	3656.8	3419.1
52.5°	0.0	0.0	5.9	31.2	26.7	23.8	43.1	751.9	3376.0	3689.5	3390.9
55°	0.0	0.0	1.5	13.4	14.9	17.8	35.7	750.4	3523.1	3699.9	3545.4
57.5°	0.0	0.0	0.0	4.5	8.9	14.9	31.2	702.8	3616.7	3958.5	3753.4
60°	0.0	0.0	0.0	1.5	5.9	10.4	23.8	661.2	3711.8	4074.4	3976.3
62.5°	0.0	0.0	0.0	0.0	1.5	4.5	16.3	597.3	3520.1	4065.5	4191.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	10.4	472.5	3166.5	3853.0	4072.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	326.9	2772.7	3585.5	3854.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6	2237.8	3144.2	3269.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.7	1597.4	2496.3	2682.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.2	988.1	1824.7	2053.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	640.4	1381.9	1558.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	341.8	866.3	1007.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.6	526.0	606.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5	319.5	364.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0	65.4
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°	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0
2.5°	2269.0	2312.1	2328.4	2303.2	2306.1	2254.1	2246.7	2173.9	2144.2	2150.1
5°	2373.0	2435.4	2469.6	2441.4	2377.5	2277.9	2187.3	2101.1	2047.6	2020.8
7.5°	2349.2	2419.1	2462.2	2488.9	2416.1	2255.6	2117.4	1955.5	1887.1	1888.6
10°	2218.5	2364.1	2451.8	2417.6	2383.4	2222.9	2009.0	1833.6	1772.7	1778.6
12.5°	2113.0	2274.9	2326.9	2353.7	2283.8	2156.1	2011.9	1811.3	1743.0	1701.4
15°	2047.6	2167.9	2170.9	2212.5	2184.3	2184.3	2043.1	1847.0	1787.6	1741.5
17.5°	2047.6	2074.3	2071.4	2086.2	2133.8	2190.2	2121.9	1991.1	1873.7	1866.3
20°	2093.7	2010.4	1991.1	1997.1	2037.2	2205.1	2295.7	2132.3	2058.0	2034.2
22.5°	2200.6	2017.9	1900.5	1879.7	2003.0	2203.6	2407.2	2355.2	2225.9	2206.6
25°	2347.7	2004.5	1876.7	1850.0	1943.6	2257.1	2560.2	2570.6	2453.2	2413.1
27.5°	2487.4	2063.9	1873.7	1867.8	1991.1	2245.2	2665.7	2743.0	2610.8	2578.1
30°	2535.0	2123.4	1928.7	1850.0	2009.0	2288.3	2662.8	2864.8	2778.7	2786.1
32.5°	2591.4	2182.8	1934.7	1903.5	2084.7	2358.1	2747.5	3061.0	2998.6	2910.9
35°	2674.6	2263.0	1991.1	1962.9	2138.2	2420.6	2765.3	3205.1	3194.7	3092.2
37.5°	2746.0	2341.8	2108.5	2113.0	2301.7	2521.6	2844.0	3381.9	3364.1	3294.3
40°	2796.5	2451.8	2291.3	2303.2	2444.3	2634.5	2983.7	3471.1	3603.3	3500.8
42.5°	2803.9	2549.8	2500.8	2595.9	2728.1	2809.9	3040.2	3532.0	3722.2	3655.3
45°	2832.2	2705.8	2842.6	2912.4	3020.9	2964.4	3037.2	3636.0	3731.1	3697.0
47.5°	2942.1	2989.7	3162.0	3374.5	3413.1	3227.4	3108.5	3652.4	3781.7	3777.2
50°	3056.5	3294.3	3536.5	3677.6	3726.7	3408.7	3175.4	3639.0	3848.5	3812.9
52.5°	3184.3	3558.8	3908.0	4081.8	4055.1	3609.3	3251.2	3747.5	3971.8	3960.0
55°	3264.6	3677.6	4147.2	4389.4	4368.6	3833.7	3491.9	3903.5	4133.8	4104.1
57.5°	3477.0	3870.8	4384.9	4497.9	4552.8	4127.9	3659.8	4159.1	4269.0	4301.7
60°	3652.4	3997.1	4447.3	4610.8	4630.1	4303.2	3954.0	4422.1	4441.4	4331.4
62.5°	3909.4	4046.1	4315.1	4462.2	4561.8	4402.8	4218.5	4563.2	4438.4	4431.0
65°	4098.1	3885.7	4068.4	4150.2	4214.1	4251.2	4484.5	4659.8	4383.4	4239.3
67.5°	3992.7	3582.5	3548.4	3552.8	3572.1	3796.5	4395.3	4423.6	4077.3	3958.5
70°	3514.2	2939.1	2893.1	2928.7	2832.2	3102.6	4034.3	4020.9	3597.4	3474.1
72.5°	2842.6	2142.7	2063.9	2113.0	2135.3	2422.0	3393.8	3049.1	2624.1	2527.5
75°	2258.6	1570.6	1325.4	1444.3	1520.1	1763.8	2650.9	2071.4	1832.1	1701.4
77.5°	1774.2	1188.7	1031.2	983.7	1053.5	1282.3	1928.7	1087.7	959.9	899.0
80°	1124.8	873.7	948.0	879.7	909.4	915.3	1004.5	494.8	393.8	389.3
82.5°	677.6	597.3	710.3	390.8	711.8	636.0	417.5	224.4	199.1	199.1
85°	480.0	370.0	245.2	159.0	316.5	349.2	162.0	115.9	101.0	98.1
87.5°	240.7	114.4	55.0	35.7	40.1	65.4	19.3	8.9	8.9	7.4
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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