

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: P677298

Luminaire Tested: **CCW-SA-1F-750-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677298
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-750-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

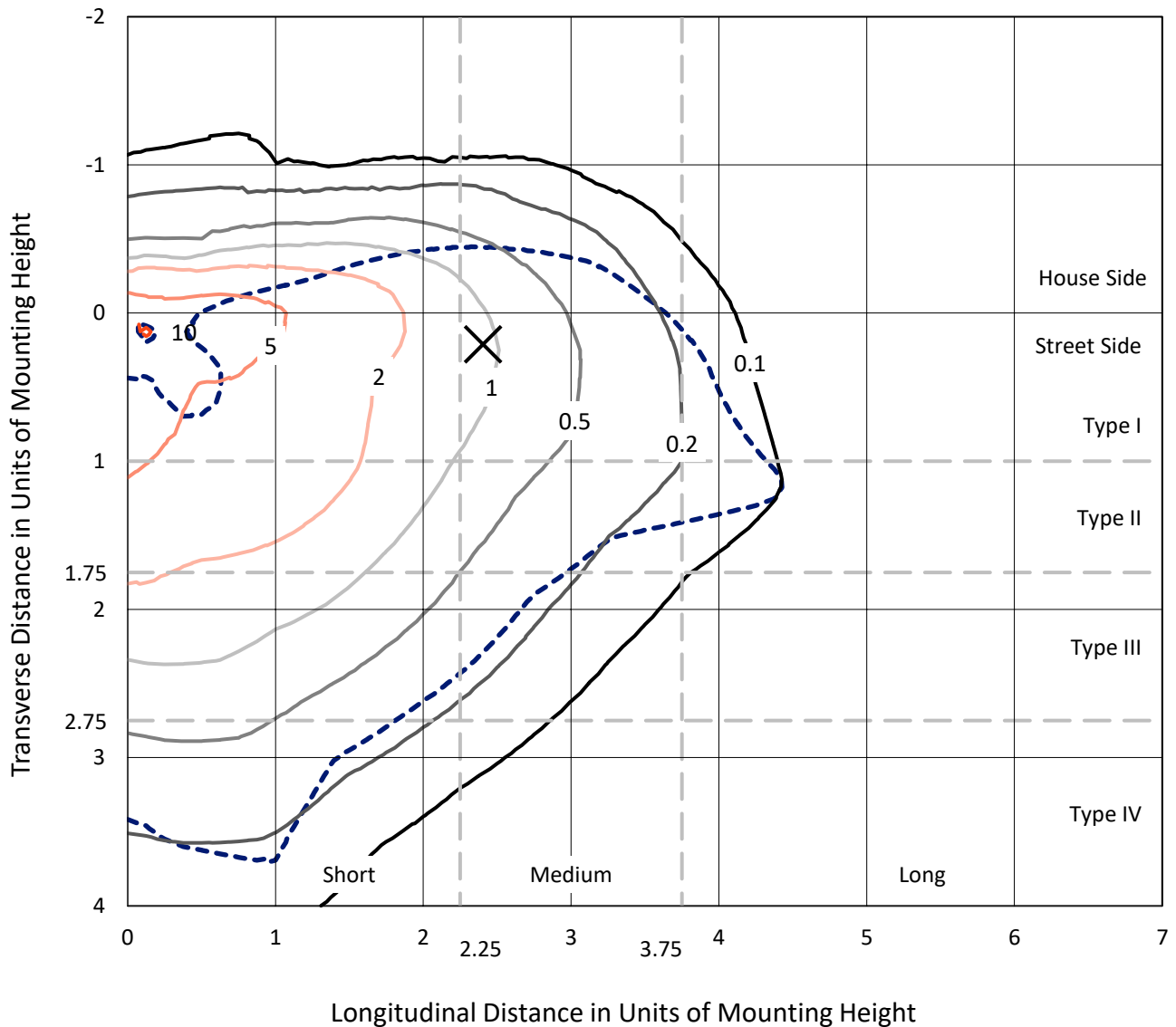
Lumens per Lamp: N/A
Luminaire Lumens: 5564.4 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

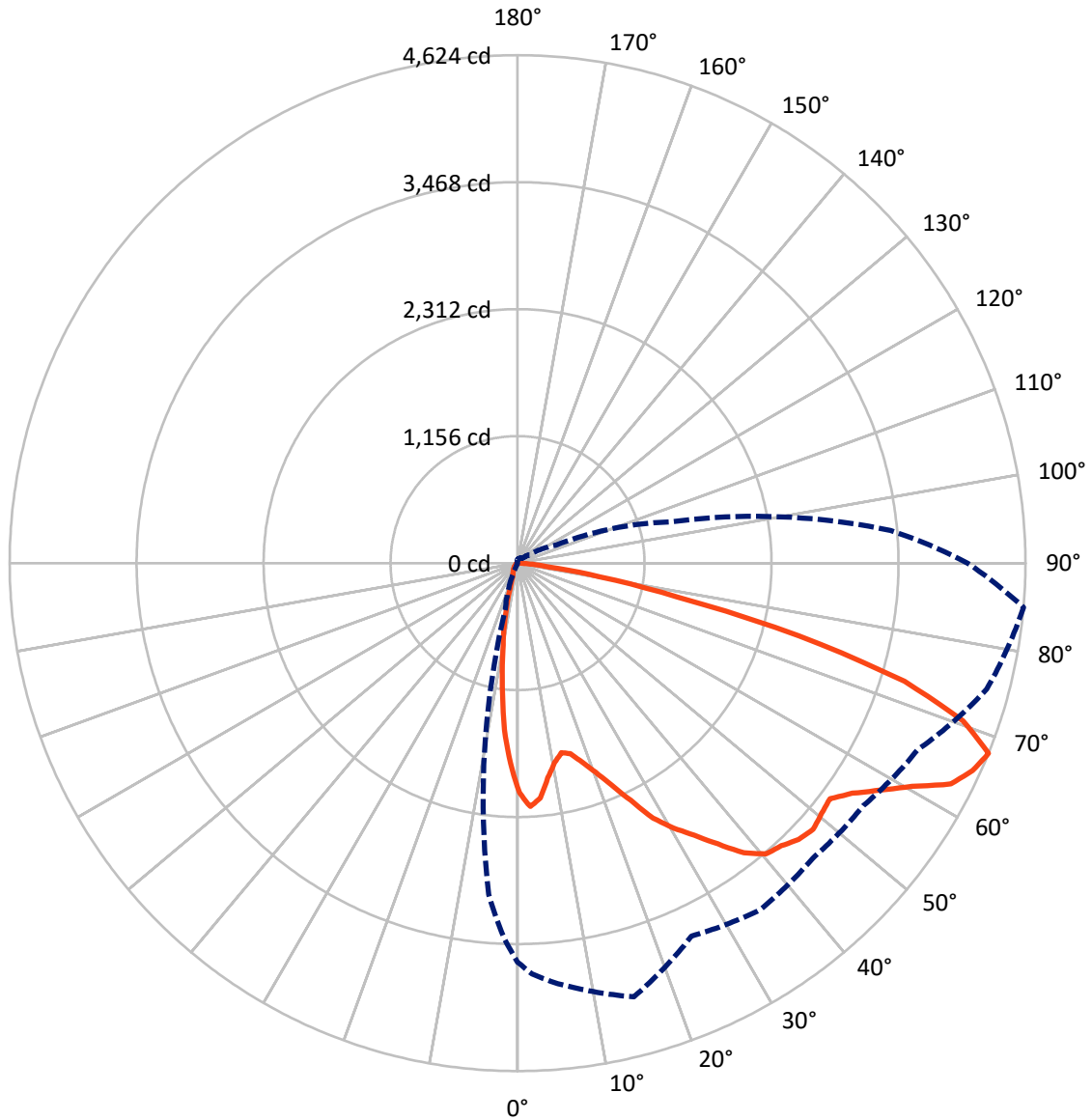
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	966.2	0.0	966.2
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	4598.3	0.0	4598.3
	% Fixture	82.6	0.0	82.6
Total	Lumens	5564.4	0.0	5564.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	2.9
10°-20°	311.7	5.6
20°-30°	431.3	7.8
30°-40°	609.6	11.0
40°-50°	829.9	14.9
50°-60°	1099.2	19.8
60°-70°	1276.2	22.9
70°-80°	722.7	13.0
80°-90°	124.9	2.2
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°	5564.4	100.0
0°-180°	5564.4	100.0

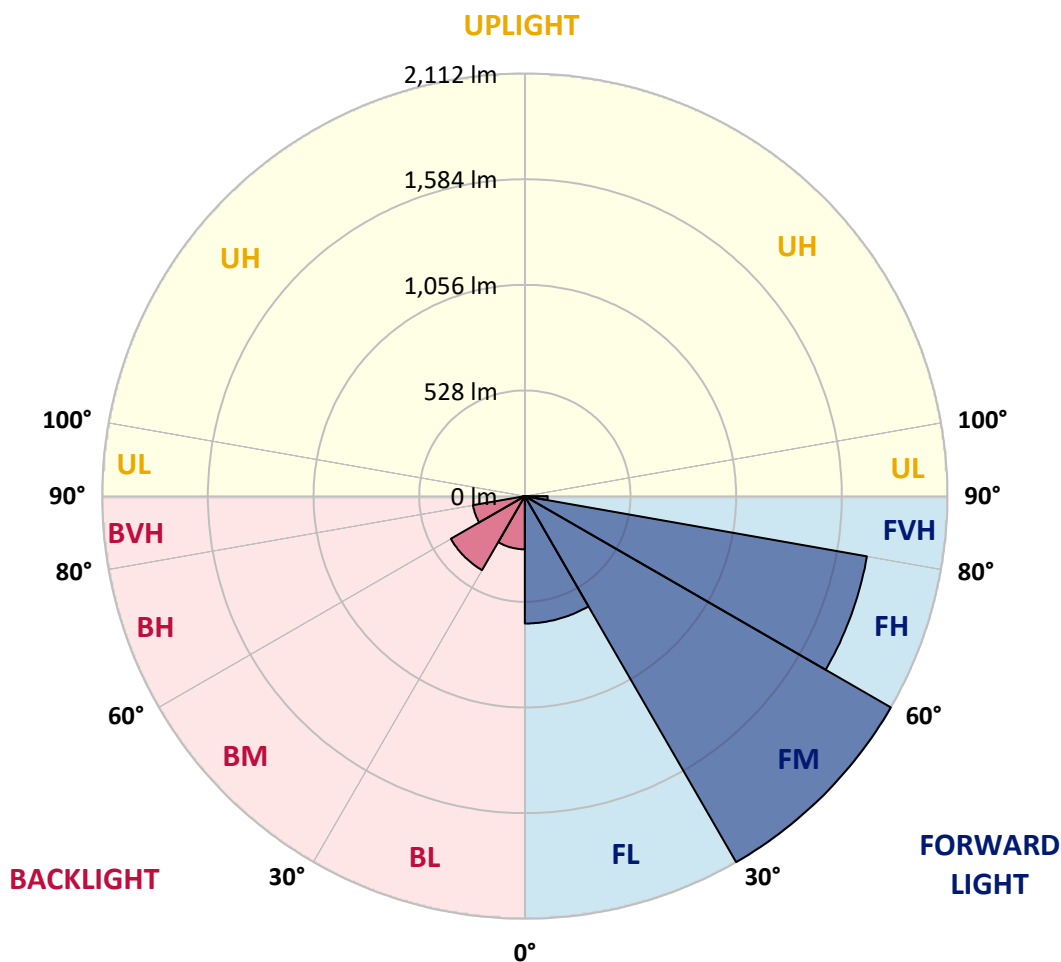


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.3	11.4			
FM (30°-60°)	2111.7	38.0			
FH (60°-80°)	1735.8	31.2			G1/1800
FVH (80°-90°)	114.4	2.1			G2/225
BL (0°-30°)	265.6	4.8	B1/500		
BM (30°-60°)	426.9	7.7	B1/1000		
BH (60°-80°)	263.1	4.7	B1/500		G1/500
BVH (80°-90°)	10.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2
2.5°	2173.9	2220.0	2221.5	2242.3	2263.1	2263.1	2312.1	2300.2	2257.1	2249.7	2218.5
5°	2190.3	2206.6	2218.5	2324.0	2413.1	2404.2	2431.0	2413.1	2329.9	2223.0	2150.1
7.5°	2049.1	2066.9	2114.5	2294.3	2414.6	2454.8	2505.3	2393.8	2306.2	2113.0	1973.3
10°	1861.9	1896.0	1983.7	2188.8	2337.4	2465.2	2465.2	2376.0	2206.6	2017.9	1847.0
12.5°	1757.9	1826.2	1873.8	2081.8	2275.0	2362.6	2359.7	2312.1	2202.1	1964.4	1771.2
15°	1775.7	1795.0	1896.0	2058.0	2185.8	2181.3	2234.8	2220.0	2142.7	2011.9	1799.5
17.5°	1857.4	1887.1	1974.8	2058.0	2118.9	2101.1	2099.6	2170.9	2175.4	2092.2	1905.0
20°	1991.1	2078.8	2120.4	2145.7	2071.4	1995.6	1986.7	2086.2	2163.5	2194.7	2031.3
22.5°	2205.1	2263.1	2347.8	2218.5	2025.3	1930.2	1912.4	2022.3	2178.4	2316.6	2194.7
25°	2414.6	2459.2	2540.9	2374.5	2077.3	1916.8	1885.6	1980.7	2234.8	2486.0	2392.3
27.5°	2636.0	2674.7	2683.6	2488.9	2105.6	1890.1	1853.0	1980.7	2282.4	2575.1	2628.6
30°	2771.3	2817.3	2826.2	2590.0	2151.6	1912.4	1894.6	1989.7	2315.1	2650.9	2798.0
32.5°	2922.8	2934.7	2927.3	2607.8	2202.1	1977.8	1903.5	2049.1	2352.2	2741.5	2952.5
35°	3104.1	3124.9	3049.1	2689.5	2315.1	2019.4	1992.6	2121.9	2416.1	2783.1	3139.8
37.5°	3242.3	3307.7	3136.8	2720.7	2337.4	2107.0	2111.5	2273.5	2460.7	2833.7	3346.3
40°	3502.3	3392.4	3285.4	2827.7	2422.1	2255.6	2231.9	2429.5	2610.8	2866.4	3481.5
42.5°	3645.0	3587.0	3343.3	2838.1	2552.8	2460.7	2466.6	2606.3	2689.5	2958.5	3518.7
45°	3680.6	3619.7	3422.1	2845.6	2682.1	2702.9	2805.4	2832.2	2805.4	3019.4	3588.5
47.5°	3771.3	3639.0	3413.2	2945.1	2891.6	2971.9	3102.6	3160.6	2962.9	2997.1	3621.2
50°	3753.5	3677.7	3393.9	2986.7	3147.2	3359.7	3447.4	3423.6	3138.3	2951.1	3585.5
52.5°	3679.2	3597.4	3453.3	3099.6	3386.4	3643.5	3765.3	3705.9	3294.3	3055.1	3561.8
55°	3787.6	3725.2	3530.6	3252.7	3566.2	3893.1	3979.3	3934.7	3486.0	3151.7	3697.0
57.5°	3905.0	3891.6	3740.1	3432.5	3778.7	4150.2	4150.2	4095.2	3652.4	3291.3	3897.6
60°	4074.4	4104.1	3894.6	3551.4	3851.5	4135.3	4350.8	4286.9	3820.3	3536.5	4124.9
62.5°	4019.4	4114.5	4093.7	3807.0	3934.7	4208.2	4325.5	4373.1	4028.4	3835.2	4428.1
65°	3842.6	3943.7	4092.2	3974.9	3872.3	4031.3	4090.8	4234.9	4132.4	4116.0	4552.9
67.5°	3631.6	3741.6	3833.7	4087.8	3746.0	3851.5	3799.5	3845.6	4019.4	4423.6	4624.2
70°	3171.0	3276.5	3422.1	3836.7	3411.7	3316.6	3303.2	3280.9	3551.4	4313.7	4300.3
72.5°	2607.8	2656.8	2897.6	3119.0	2524.6	2506.8	2527.6	2502.3	2815.8	3905.0	3683.6
75°	1952.5	2001.5	2138.3	2395.3	1719.2	1616.7	1735.6	1853.0	2150.1	3031.3	2646.4
77.5°	1468.1	1530.5	1616.7	1792.0	1261.6	1101.1	1117.4	1228.9	1554.3	2428.0	1483.0
80°	952.5	945.1	1111.5	1233.3	949.5	979.2	937.6	1019.3	1126.3	1298.7	757.8
82.5°	549.8	557.2	627.1	707.3	661.2	756.3	545.3	910.9	803.9	529.0	282.3
85°	309.1	322.4	386.3	490.4	414.6	277.9	227.3	451.7	505.2	216.9	136.7
87.5°	31.2	26.7	52.0	185.7	112.9	46.1	68.4	108.5	121.8	81.7	40.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2
2.5°	2173.9	2173.9	2136.8	2074.4	2049.1	2004.5	1943.6	1962.9	1942.1	1866.3	1847.0
5°	2084.8	2013.4	1936.2	1841.1	1786.1	1673.2	1637.5	1573.6	1584.0	1520.1	1523.1
7.5°	1899.0	1842.6	1711.8	1587.0	1478.5	1380.4	1242.2	1190.2	1139.7	1114.4	1144.2
10°	1790.5	1685.0	1506.7	1343.3	1199.1	1111.5	1019.3	948.0	882.6	833.6	823.2
12.5°	1711.8	1618.2	1402.7	1203.6	1090.7	1019.3	934.6	836.6	772.7	688.0	662.7
15°	1688.0	1573.6	1346.3	1148.6	1038.7	921.3	824.7	728.1	644.9	555.7	524.5
17.5°	1769.7	1637.5	1344.8	1104.0	949.5	823.2	689.5	581.0	496.3	414.6	395.3
20°	1907.9	1705.8	1387.9	1077.3	864.8	695.4	543.9	435.4	340.3	286.8	273.4
22.5°	2065.4	1821.7	1392.3	1006.0	780.1	567.6	396.7	286.8	233.3	208.0	200.6
25°	2258.6	2007.5	1445.8	948.0	680.6	430.9	282.3	219.9	188.7	173.9	170.9
27.5°	2417.6	2136.8	1503.8	887.1	582.5	319.5	221.4	179.8	163.5	148.6	147.1
30°	2582.5	2285.4	1520.1	850.0	497.8	263.0	190.2	159.0	141.2	133.7	132.2
32.5°	2726.7	2447.3	1572.1	789.0	417.5	231.8	172.4	142.6	130.8	118.9	117.4
35°	2912.4	2540.9	1597.4	756.3	387.8	209.5	157.5	130.8	112.9	105.5	102.5
37.5°	3111.5	2631.6	1613.7	731.1	362.6	196.1	148.6	123.3	107.0	96.6	93.6
40°	3297.3	2759.4	1589.9	699.9	343.2	179.8	142.6	114.4	99.6	89.2	84.7
42.5°	3439.9	2884.2	1582.5	670.2	322.4	173.9	135.2	110.0	93.6	81.7	80.2
45°	3520.2	2968.9	1530.5	646.4	306.1	176.8	132.2	104.0	89.2	78.8	72.8
47.5°	3500.8	3034.3	1543.9	638.9	283.8	164.9	130.8	99.6	81.7	72.8	68.4
50°	3607.8	3166.5	1521.6	615.2	267.5	148.6	142.6	99.6	80.2	69.8	65.4
52.5°	3625.7	3286.9	1569.1	572.1	242.2	136.7	141.2	98.1	77.3	66.9	60.9
55°	3774.3	3426.6	1661.3	548.3	221.4	118.9	129.3	95.1	69.8	60.9	58.0
57.5°	3976.3	3716.3	1720.7	526.0	193.2	104.0	108.5	93.6	63.9	56.5	52.0
60°	4171.0	3832.2	1725.2	485.9	166.4	93.6	84.7	93.6	59.4	50.5	46.1
62.5°	4316.6	3832.2	1695.4	451.7	145.6	83.2	74.3	89.2	53.5	44.6	41.6
65°	4237.9	3729.7	1618.2	423.5	132.2	72.8	63.9	68.4	47.5	38.6	35.7
67.5°	4096.7	3410.2	1447.3	389.3	130.8	63.9	55.0	50.5	41.6	34.2	31.2
70°	3870.8	2979.3	1205.1	350.7	127.8	58.0	49.0	43.1	37.1	29.7	26.7
72.5°	3119.0	2460.7	989.6	328.4	124.8	50.5	41.6	37.1	31.2	25.3	22.3
75°	2160.5	1572.1	762.3	280.8	121.8	46.1	38.6	32.7	26.7	20.8	19.3
77.5°	1295.7	1050.6	491.8	211.0	80.2	37.1	32.7	25.3	22.3	17.8	16.3
80°	606.3	496.3	199.1	81.7	38.6	26.7	22.3	19.3	17.8	14.9	13.4
82.5°	237.7	209.5	96.6	47.5	31.2	20.8	17.8	16.3	14.9	11.9	10.4
85°	127.8	112.9	46.1	32.7	22.3	14.9	14.9	13.4	11.9	10.4	8.9
87.5°	28.2	20.8	19.3	19.3	16.3	11.9	11.9	10.4	8.9	7.4	5.9
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°	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2
2.5°	1836.6	1858.9	1823.2	1845.5	1814.3	1838.1	1841.1	1818.8	1824.7	1854.4	1867.8
5°	1564.7	1549.8	1517.1	1506.7	1508.2	1488.9	1496.3	1506.7	1523.1	1532.0	1558.7
7.5°	1127.8	1162.0	1160.5	1185.8	1187.3	1184.3	1163.5	1118.9	1133.8	1121.9	1136.7
10°	806.9	821.7	850.0	866.3	896.0	879.7	832.1	814.3	805.4	803.9	818.7
12.5°	644.9	609.2	606.3	612.2	627.1	607.7	584.0	563.2	573.6	594.4	610.7
15°	499.3	469.6	430.9	425.0	427.9	419.0	393.8	367.0	374.5	395.3	407.1
17.5°	383.4	349.2	322.4	304.6	298.7	267.5	230.3	208.0	202.1	200.6	211.0
20°	258.6	252.6	248.2	225.9	225.9	181.3	150.1	133.7	133.7	136.7	138.2
22.5°	193.2	185.7	187.2	182.8	170.9	135.2	118.9	114.4	114.4	117.4	117.4
25°	167.9	157.5	154.5	153.1	141.2	115.9	104.0	99.6	99.6	102.5	102.5
27.5°	142.6	139.7	135.2	129.3	118.9	99.6	92.1	87.7	89.2	90.6	89.2
30°	130.8	123.3	117.4	117.4	105.5	89.2	83.2	80.2	77.3	80.2	81.7
32.5°	115.9	111.4	108.5	104.0	90.6	78.8	72.8	69.8	68.4	68.4	69.8
35°	99.6	99.6	96.6	90.6	78.8	71.3	63.9	60.9	59.4	60.9	60.9
37.5°	89.2	84.7	86.2	80.2	69.8	62.4	55.0	52.0	52.0	50.5	52.0
40°	83.2	75.8	71.3	68.4	62.4	53.5	47.5	44.6	43.1	43.1	43.1
42.5°	74.3	68.4	59.4	58.0	56.5	46.1	38.6	37.1	35.7	34.2	34.2
45°	69.8	60.9	53.5	46.1	46.1	38.6	32.7	29.7	28.2	26.7	28.2
47.5°	63.9	55.0	46.1	38.6	37.1	31.2	25.3	22.3	20.8	20.8	20.8
50°	60.9	49.0	40.1	32.7	28.2	25.3	19.3	16.3	14.9	14.9	14.9
52.5°	56.5	46.1	35.7	28.2	22.3	19.3	14.9	11.9	10.4	10.4	10.4
55°	50.5	41.6	31.2	23.8	19.3	14.9	10.4	7.4	5.9	5.9	5.9
57.5°	47.5	37.1	26.7	20.8	14.9	10.4	5.9	4.5	4.5	3.0	4.5
60°	43.1	32.7	22.3	16.3	11.9	7.4	4.5	1.5	1.5	1.5	1.5
62.5°	37.1	28.2	19.3	13.4	8.9	4.5	1.5	0.0	0.0	0.0	0.0
65°	31.2	22.3	14.9	10.4	5.9	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	26.7	19.3	11.9	7.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	23.8	16.3	8.9	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	19.3	13.4	7.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.3	10.4	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.4	7.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.4	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.5	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2	2092.2
2.5°	1887.1	1878.2	1922.8	1995.6	2032.8	2105.6	2123.4	2169.5	2157.6	2173.9
5°	1561.7	1579.5	1644.9	1751.9	1790.5	1896.0	1995.6	2095.2	2159.1	2190.3
7.5°	1159.0	1218.5	1298.7	1396.8	1496.3	1634.5	1803.9	1919.8	1982.2	2049.1
10°	863.3	927.2	1019.3	1115.9	1277.9	1432.4	1601.8	1746.0	1799.5	1861.9
12.5°	679.1	778.6	885.6	989.6	1086.2	1233.3	1442.8	1652.4	1710.3	1757.9
15°	472.5	594.4	747.4	882.6	1017.9	1145.7	1362.6	1616.7	1695.4	1775.7
17.5°	261.5	358.1	533.4	723.6	922.8	1118.9	1389.3	1682.1	1800.9	1857.4
20°	151.6	190.2	315.0	540.9	803.9	1061.0	1402.7	1805.4	1962.9	1991.1
22.5°	124.8	138.2	178.3	338.8	658.3	1023.8	1471.1	1977.8	2138.3	2205.1
25°	107.0	117.4	138.2	203.6	497.8	945.1	1514.2	2193.2	2341.8	2414.6
27.5°	95.1	105.5	121.8	150.1	338.8	836.6	1585.5	2387.9	2536.5	2636.0
30°	83.2	92.1	108.5	127.8	234.8	714.7	1646.4	2530.5	2740.1	2771.3
32.5°	74.3	81.7	93.6	110.0	173.9	542.4	1695.4	2677.6	2854.5	2922.8
35°	63.9	72.8	80.2	93.6	132.2	408.6	1665.7	2792.1	3022.4	3104.1
37.5°	56.5	62.4	69.8	78.8	111.4	319.5	1604.8	2928.8	3166.5	3242.3
40°	47.5	52.0	60.9	69.8	101.0	246.7	1535.0	3093.7	3368.6	3502.3
42.5°	40.1	44.6	50.5	65.4	83.2	182.8	1393.8	3221.5	3532.1	3645.0
45°	31.2	37.1	46.1	65.4	66.9	135.2	1248.2	3316.6	3624.2	3680.6
47.5°	23.8	29.7	44.6	56.5	53.5	93.6	1075.8	3425.1	3719.3	3771.3
50°	17.8	23.8	50.5	49.0	44.6	71.3	967.3	3500.8	3725.2	3753.5
52.5°	11.9	17.8	41.6	37.1	37.1	62.4	937.6	3497.9	3740.1	3679.2
55°	8.9	13.4	23.8	26.7	32.7	55.0	910.9	3609.3	3744.5	3787.6
57.5°	5.9	10.4	16.3	20.8	28.2	47.5	855.9	3743.1	3882.7	3905.0
60°	3.0	7.4	11.9	16.3	23.8	41.6	778.6	3841.1	4050.6	4074.4
62.5°	1.5	4.5	8.9	13.4	19.3	32.7	698.4	3685.1	3977.8	4019.4
65°	0.0	3.0	5.9	8.9	11.9	23.8	567.6	3327.0	3689.6	3842.6
67.5°	0.0	0.0	3.0	5.9	7.4	17.8	427.9	3026.8	3423.6	3631.6
70°	0.0	0.0	1.5	1.5	4.5	13.4	273.4	2506.8	3056.6	3171.0
72.5°	0.0	0.0	0.0	0.0	1.5	8.9	159.0	1861.9	2395.3	2607.8
75°	0.0	0.0	0.0	0.0	0.0	7.4	80.2	1197.7	1667.2	1952.5
77.5°	0.0	0.0	0.0	0.0	0.0	5.9	43.1	772.7	1228.9	1468.1
80°	0.0	0.0	0.0	0.0	0.0	1.5	25.3	448.8	786.1	952.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.4	219.9	469.6	549.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	117.4	234.8	309.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	16.3	31.2
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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