

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: P675916

Luminaire Tested: **CCW-SA-2C-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675916
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SLL distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

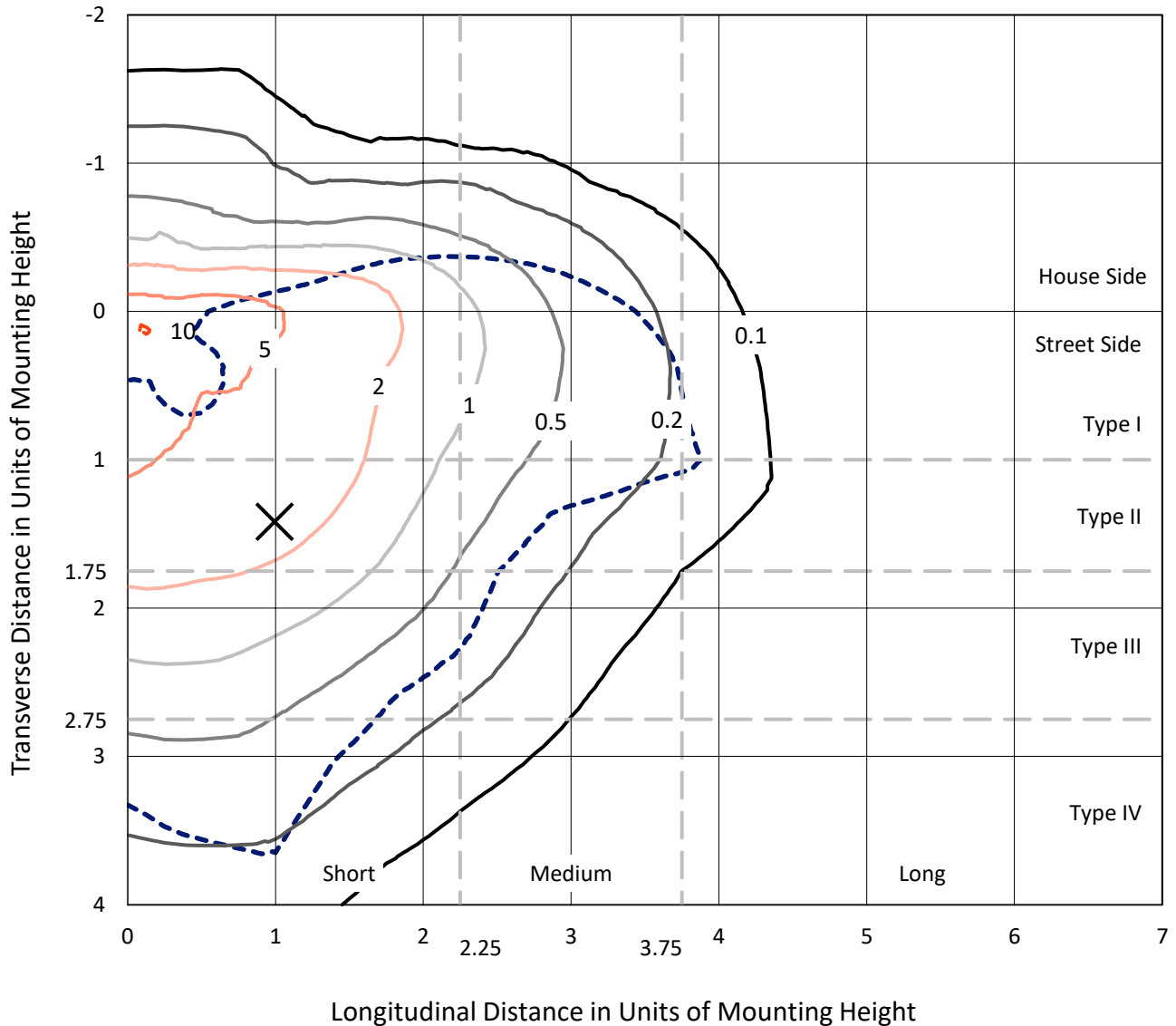
Lumens per Lamp: N/A
Luminaire Lumens: 6396.2 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

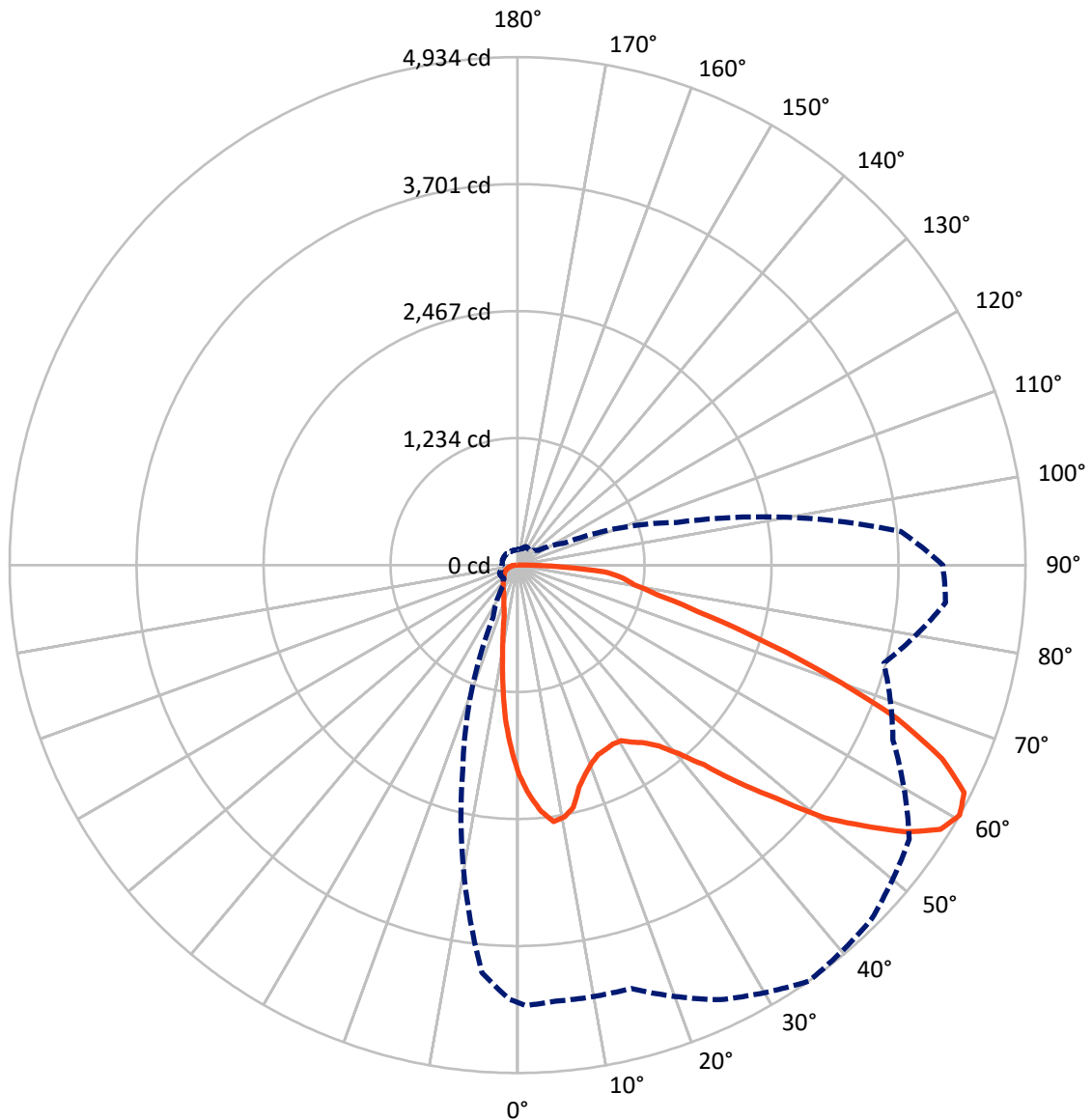
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.3	0.0	1217.3
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	5178.9	0.0	5178.9
	% Fixture	81.0	0.0	81.0
Total	Lumens	6396.2	0.0	6396.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	2.5
10°-20°	335.1	5.2
20°-30°	490.3	7.7
30°-40°	690.8	10.8
40°-50°	949.3	14.8
50°-60°	1293.8	20.2
60°-70°	1416.0	22.1
70°-80°	817.5	12.8
80°-90°	244.8	3.8
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°	6396.2	100.0
0°-180°	6396.2	100.0



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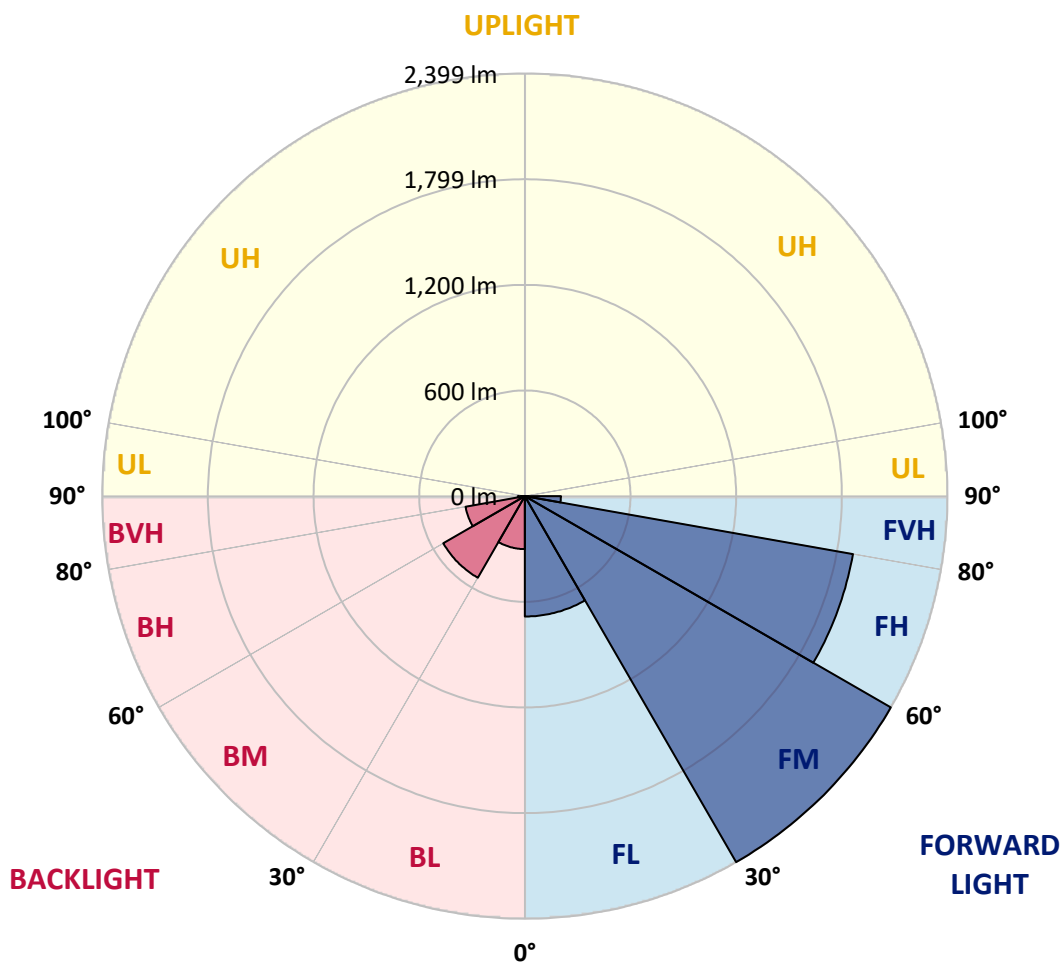
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.3	10.7			
FM (30°-60°)	2399.1	37.5			
FH (60°-80°)	1891.6	29.6			G2/5000
FVH (80°-90°)	204.9	3.2			G2/225
BL (0°-30°)	300.7	4.7	B1/500		
BM (30°-60°)	534.7	8.4	B1/1000		
BH (60°-80°)	341.9	5.3	B1/500		G1/500
BVH (80°-90°)	39.9	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9
2.5°	2187.6	2179.1	2187.6	2218.8	2227.3	2241.5	2241.5	2221.7	2184.8	2167.8	2139.4
5°	2235.9	2221.7	2292.6	2357.9	2408.9	2403.3	2355.0	2315.3	2241.5	2130.9	2025.9
7.5°	2139.4	2153.6	2204.6	2374.9	2494.1	2516.8	2440.1	2360.7	2201.8	2048.6	1906.7
10°	1957.8	1977.6	2088.3	2264.2	2451.5	2488.4	2440.1	2343.7	2153.6	1963.5	1798.9
12.5°	1869.8	1915.2	1980.5	2193.3	2326.6	2414.6	2391.9	2329.5	2116.7	1892.5	1733.6
15°	1869.8	1881.2	1977.6	2156.4	2233.0	2235.9	2244.4	2255.7	2128.0	1923.7	1710.9
17.5°	1929.4	1960.6	2042.9	2153.6	2167.8	2133.7	2133.7	2181.9	2150.7	2011.7	1793.2
20°	2074.1	2062.8	2170.6	2216.0	2139.4	2054.3	2045.7	2128.0	2176.3	2105.3	1943.6
22.5°	2218.8	2269.9	2357.9	2255.7	2113.8	2000.3	1989.0	2091.1	2252.9	2267.1	2116.7
25°	2437.3	2488.4	2533.8	2408.9	2111.0	1986.2	1994.7	2074.1	2346.5	2496.9	2406.1
27.5°	2672.8	2704.0	2769.3	2576.3	2179.1	1969.1	1977.6	2096.8	2434.5	2647.3	2633.1
30°	2806.2	2840.2	2826.0	2607.5	2224.5	1980.5	1957.8	2128.0	2386.2	2647.3	2780.6
32.5°	2936.7	2916.8	2908.3	2658.6	2281.2	2051.4	1994.7	2193.3	2414.6	2689.8	2970.7
35°	3095.6	3067.2	3044.5	2757.9	2374.9	2119.5	2094.0	2278.4	2477.0	2777.8	3123.9
37.5°	3271.5	3271.5	3160.8	2831.7	2485.5	2230.2	2201.8	2400.4	2576.3	2831.7	3333.9
40°	3478.6	3487.1	3291.4	2931.0	2610.4	2406.1	2397.6	2559.3	2672.8	2911.1	3535.4
42.5°	3631.8	3637.5	3404.8	2967.9	2755.1	2650.1	2687.0	2814.7	2783.5	2982.1	3549.6
45°	3736.8	3708.4	3484.3	3072.9	2914.0	3016.1	3027.5	3064.4	2928.2	3024.6	3606.3
47.5°	3787.9	3782.2	3518.3	3194.9	3248.8	3387.8	3453.1	3402.0	3061.5	2979.2	3606.3
50°	3839.0	3790.7	3549.6	3362.3	3575.1	3856.0	3841.8	3748.2	3246.0	3036.0	3552.4
52.5°	3873.0	3830.5	3612.0	3512.7	3887.2	4205.0	4261.7	4088.7	3461.6	3141.0	3577.9
55°	3995.0	3961.0	3799.2	3717.0	4247.5	4573.8	4582.4	4341.2	3688.6	3314.1	3745.3
57.5°	4142.6	4162.4	4057.4	4006.4	4522.8	4843.4	4812.2	4528.4	3881.5	3524.0	3938.3
60°	4247.5	4278.8	4253.2	4258.9	4659.0	4934.2	4863.3	4644.8	4023.4	3682.9	4173.8
62.5°	4190.8	4253.2	4358.2	4335.5	4664.6	4868.9	4769.6	4491.6	4040.4	3890.0	4352.5
65°	4034.7	4040.4	4244.7	4369.6	4409.3	4531.3	4400.8	4170.9	3864.5	4017.7	4327.0
67.5°	3634.7	3680.1	3864.5	4108.5	3941.1	3969.5	3958.1	3626.2	3597.8	3929.8	4131.2
70°	3209.1	3240.3	3441.7	3728.3	3328.2	3194.9	3220.4	2973.6	3089.9	3657.4	3736.8
72.5°	2652.9	2672.8	2902.6	3155.2	2670.0	2431.6	2491.2	2289.8	2454.3	3200.6	3152.3
75°	2003.2	2040.1	2218.8	2516.8	1966.3	1813.1	1872.7	1790.4	1943.6	2635.9	2445.8
77.5°	1424.4	1396.0	1617.3	1969.1	1478.3	1387.5	1393.2	1407.3	1571.9	2221.7	1756.3
80°	970.4	978.9	1177.5	1444.2	1160.5	1146.3	1132.1	1245.6	1319.4	1759.2	1276.8
82.5°	576.0	576.0	794.5	1027.1	916.5	1032.8	967.5	1069.7	1032.8	1293.8	837.0
85°	269.6	269.6	408.6	740.6	709.3	851.2	723.5	808.7	763.3	902.3	377.4
87.5°	45.4	39.7	82.3	363.2	292.2	332.0	130.5	431.3	479.5	629.9	93.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9
2.5°	2108.2	2088.3	2048.6	1997.5	1955.0	1901.0	1884.0	1847.1	1796.1	1790.4	1767.7
5°	1986.2	1918.1	1832.9	1728.0	1657.0	1583.3	1520.8	1483.9	1441.4	1435.7	1424.4
7.5°	1852.8	1767.7	1625.8	1501.0	1379.0	1262.6	1205.9	1134.9	1086.7	1049.8	1032.8
10°	1728.0	1648.5	1472.6	1302.4	1194.5	1117.9	1049.8	976.1	916.5	871.1	854.0
12.5°	1645.7	1552.0	1361.9	1200.2	1120.8	1032.8	956.2	876.7	800.1	740.6	709.3
15°	1608.8	1520.8	1327.9	1149.1	1032.8	910.8	822.8	743.4	649.8	607.2	593.0
17.5°	1696.7	1566.2	1316.5	1089.6	925.0	786.0	678.1	593.0	524.9	482.4	465.3
20°	1810.2	1648.5	1336.4	1018.6	822.8	666.8	547.6	456.8	411.4	380.2	377.4
22.5°	1955.0	1770.5	1367.6	967.5	709.3	536.3	428.4	374.5	343.3	340.5	334.8
25°	2213.2	1991.8	1418.7	899.4	618.5	442.6	366.0	334.8	320.6	312.1	317.8
27.5°	2434.5	2136.5	1455.6	856.9	581.7	417.1	354.7	320.6	306.4	303.6	306.4
30°	2565.0	2269.9	1444.2	777.4	507.9	397.2	377.4	366.0	337.6	314.9	314.9
32.5°	2684.2	2355.0	1441.4	706.5	434.1	332.0	314.9	306.4	323.5	334.8	326.3
35°	2848.7	2488.4	1432.9	666.8	402.9	306.4	278.1	255.4	244.0	238.3	246.9
37.5°	3024.6	2579.2	1410.2	661.1	385.9	292.2	269.6	246.9	235.5	229.8	227.0
40°	3217.6	2675.6	1384.6	632.7	377.4	283.7	261.0	241.2	227.0	218.5	215.6
42.5°	3342.4	2752.3	1359.1	618.5	360.3	278.1	252.5	235.5	221.3	210.0	210.0
45°	3413.4	2843.0	1333.6	604.4	340.5	280.9	252.5	229.8	212.8	207.1	201.5
47.5°	3444.6	2911.1	1325.1	581.7	323.5	269.6	246.9	224.2	207.1	195.8	192.9
50°	3526.9	3055.9	1356.3	564.6	303.6	258.2	261.0	221.3	204.3	190.1	187.3
52.5°	3575.1	3172.2	1424.4	539.1	289.4	244.0	255.4	215.6	195.8	181.6	181.6
55°	3751.0	3365.1	1498.1	519.2	272.4	224.2	235.5	204.3	181.6	173.1	173.1
57.5°	3975.2	3569.4	1560.6	510.7	261.0	210.0	210.0	198.6	173.1	161.7	158.9
60°	4131.2	3736.8	1597.4	505.1	249.7	195.8	187.3	198.6	164.6	153.2	150.4
62.5°	4148.2	3640.4	1560.6	502.2	246.9	181.6	170.2	190.1	156.1	144.7	139.0
65°	4040.4	3444.6	1458.4	490.9	244.0	167.4	158.9	164.6	144.7	136.2	130.5
67.5°	3824.8	3126.8	1310.9	485.2	241.2	156.1	144.7	141.9	133.4	124.8	119.2
70°	3322.6	2712.5	1137.8	459.7	235.5	147.5	130.5	127.7	119.2	113.5	110.7
72.5°	2789.1	2218.8	939.2	425.6	224.2	133.4	119.2	113.5	110.7	102.1	99.3
75°	2136.5	1708.1	751.9	377.4	195.8	119.2	105.0	99.3	96.5	90.8	88.0
77.5°	1501.0	1271.1	556.1	306.4	164.6	107.8	93.6	88.0	85.1	76.6	76.6
80°	1018.6	890.9	377.4	212.8	127.7	88.0	82.3	76.6	70.9	65.3	65.3
82.5°	632.7	624.2	272.4	139.0	93.6	70.9	65.3	65.3	56.7	51.1	51.1
85°	289.4	383.0	190.1	96.5	70.9	53.9	53.9	51.1	45.4	36.9	36.9
87.5°	90.8	127.7	99.3	42.6	39.7	31.2	31.2	28.4	28.4	22.7	22.7
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°	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9
2.5°	1790.4	1787.5	1787.5	1776.2	1804.6	1804.6	1821.6	1807.4	1815.9	1818.8	1841.5
5°	1421.5	1444.2	1461.2	1495.3	1515.2	1523.7	1523.7	1546.4	1537.9	1554.9	1588.9
7.5°	1041.3	1069.7	1120.8	1163.3	1197.4	1208.7	1205.9	1211.6	1220.1	1200.2	1205.9
10°	842.7	822.8	839.9	879.6	910.8	947.7	919.3	916.5	925.0	916.5	933.5
12.5°	703.7	681.0	666.8	666.8	689.5	706.5	698.0	712.2	743.4	751.9	771.8
15°	570.3	550.5	539.1	524.9	547.6	553.3	561.8	581.7	604.4	615.7	638.4
17.5°	456.8	456.8	456.8	445.5	454.0	462.5	465.3	490.9	493.7	505.1	513.6
20°	374.5	383.0	397.2	402.9	411.4	411.4	405.7	419.9	408.6	417.1	422.8
22.5°	337.6	349.0	354.7	357.5	368.9	371.7	357.5	360.3	363.2	354.7	357.5
25°	317.8	323.5	317.8	320.6	323.5	317.8	320.6	326.3	323.5	329.1	326.3
27.5°	309.3	303.6	300.8	297.9	297.9	292.2	295.1	295.1	300.8	303.6	303.6
30°	309.3	300.8	289.4	280.9	280.9	272.4	278.1	283.7	286.6	292.2	292.2
32.5°	317.8	300.8	280.9	272.4	263.9	258.2	263.9	272.4	283.7	286.6	289.4
35°	252.5	261.0	258.2	246.9	244.0	244.0	241.2	241.2	232.7	232.7	229.8
37.5°	227.0	224.2	229.8	232.7	235.5	227.0	227.0	215.6	212.8	215.6	215.6
40°	212.8	212.8	212.8	221.3	224.2	218.5	210.0	204.3	204.3	204.3	207.1
42.5°	207.1	201.5	198.6	204.3	212.8	207.1	198.6	195.8	195.8	198.6	198.6
45°	198.6	195.8	192.9	190.1	201.5	192.9	190.1	187.3	187.3	187.3	190.1
47.5°	190.1	187.3	181.6	181.6	184.4	181.6	178.8	178.8	178.8	184.4	184.4
50°	184.4	181.6	175.9	175.9	175.9	175.9	173.1	173.1	173.1	175.9	178.8
52.5°	175.9	173.1	170.2	167.4	167.4	167.4	167.4	167.4	167.4	170.2	173.1
55°	167.4	164.6	161.7	161.7	164.6	164.6	161.7	164.6	161.7	164.6	167.4
57.5°	158.9	156.1	153.2	156.1	158.9	156.1	156.1	156.1	156.1	156.1	158.9
60°	147.5	147.5	147.5	147.5	153.2	153.2	153.2	153.2	147.5	150.4	153.2
62.5°	141.9	139.0	139.0	141.9	144.7	144.7	147.5	144.7	141.9	144.7	144.7
65°	130.5	130.5	130.5	133.4	133.4	136.2	136.2	136.2	133.4	136.2	136.2
67.5°	122.0	122.0	122.0	122.0	127.7	127.7	127.7	127.7	124.8	124.8	127.7
70°	107.8	110.7	107.8	113.5	119.2	116.3	119.2	119.2	116.3	113.5	119.2
72.5°	99.3	99.3	99.3	99.3	107.8	107.8	107.8	110.7	107.8	105.0	107.8
75°	88.0	88.0	88.0	90.8	96.5	96.5	96.5	96.5	96.5	93.6	93.6
77.5°	76.6	79.4	76.6	79.4	85.1	82.3	85.1	88.0	85.1	82.3	82.3
80°	65.3	65.3	65.3	68.1	70.9	70.9	70.9	73.8	70.9	68.1	68.1
82.5°	51.1	51.1	53.9	53.9	56.7	56.7	56.7	59.6	56.7	53.9	53.9
85°	39.7	39.7	39.7	42.6	42.6	45.4	45.4	48.2	48.2	45.4	45.4
87.5°	25.5	22.7	25.5	25.5	28.4	28.4	25.5	22.7	25.5	22.7	19.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9	2042.9
2.5°	1864.2	1915.2	1952.1	1977.6	2014.5	2085.5	2113.8	2164.9	2179.1	2187.6
5°	1603.1	1657.0	1736.5	1793.2	1858.5	1991.8	2094.0	2170.6	2204.6	2235.9
7.5°	1257.0	1327.9	1410.2	1483.9	1591.8	1756.3	1889.7	2048.6	2108.2	2139.4
10°	981.7	1047.0	1137.8	1228.6	1379.0	1518.0	1708.1	1852.8	1935.1	1957.8
12.5°	828.5	905.1	1012.9	1123.6	1217.2	1376.1	1569.1	1779.0	1855.6	1869.8
15°	703.7	808.7	919.3	1032.8	1140.6	1279.7	1486.8	1742.1	1855.6	1869.8
17.5°	581.7	675.3	805.8	927.8	1052.7	1242.8	1501.0	1773.4	1886.9	1929.4
20°	462.5	553.3	655.4	808.7	978.9	1180.3	1532.2	1878.3	2028.7	2074.1
22.5°	383.0	422.8	522.1	669.6	871.1	1137.8	1563.4	2042.9	2201.8	2218.8
25°	334.8	363.2	425.6	564.6	786.0	1109.4	1637.2	2233.0	2437.3	2437.3
27.5°	312.1	323.5	366.0	490.9	726.4	1083.9	1710.9	2443.0	2633.1	2672.8
30°	306.4	334.8	357.5	437.0	661.1	1012.9	1779.0	2607.5	2803.3	2806.2
32.5°	300.8	295.1	312.1	380.2	581.7	939.2	1835.8	2775.0	2928.2	2936.7
35°	235.5	246.9	275.2	334.8	522.1	885.3	1864.2	2865.7	3087.1	3095.6
37.5°	221.3	235.5	258.2	309.3	482.4	839.9	1872.7	3041.7	3254.5	3271.5
40°	215.6	227.0	244.0	286.6	451.1	783.1	1889.7	3223.3	3501.3	3478.6
42.5°	204.3	218.5	235.5	275.2	425.6	740.6	1892.5	3322.6	3631.8	3631.8
45°	201.5	210.0	229.8	275.2	397.2	703.7	1847.1	3421.9	3782.2	3736.8
47.5°	190.1	207.1	224.2	266.7	363.2	666.8	1793.2	3472.9	3802.1	3787.9
50°	187.3	204.3	232.7	252.5	343.3	649.8	1781.9	3600.6	3841.8	3839.0
52.5°	181.6	198.6	241.2	241.2	317.8	627.1	1835.8	3657.4	3850.3	3873.0
55°	173.1	198.6	224.2	221.3	295.1	598.7	1895.4	3804.9	4000.7	3995.0
57.5°	167.4	192.9	212.8	201.5	269.6	578.8	1983.3	3946.8	4182.3	4142.6
60°	158.9	192.9	190.1	187.3	249.7	561.8	2057.1	3975.2	4222.0	4247.5
62.5°	153.2	201.5	167.4	173.1	232.7	553.3	2025.9	3762.4	4168.1	4190.8
65°	147.5	173.1	153.2	158.9	227.0	536.3	1903.9	3507.0	3935.4	4034.7
67.5°	136.2	141.9	141.9	147.5	221.3	496.5	1654.2	3047.3	3580.8	3634.7
70°	124.8	127.7	127.7	136.2	215.6	451.1	1364.8	2635.9	3106.9	3209.1
72.5°	113.5	113.5	113.5	124.8	198.6	414.3	1123.6	2025.9	2582.0	2652.9
75°	99.3	99.3	99.3	110.7	178.8	377.4	885.3	1506.6	1901.0	2003.2
77.5°	88.0	88.0	85.1	99.3	156.1	306.4	638.4	1064.0	1339.2	1424.4
80°	73.8	70.9	70.9	79.4	122.0	221.3	411.4	751.9	933.5	970.4
82.5°	59.6	56.7	53.9	59.6	88.0	139.0	255.4	524.9	598.7	576.0
85°	56.7	59.6	48.2	45.4	62.4	90.8	161.7	323.5	269.6	269.6
87.5°	22.7	19.9	19.9	17.0	31.2	34.0	70.9	59.6	45.4	45.4
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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