

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: P677247

Luminaire Tested: **CCW-SA-2D-722-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677247  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-722-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

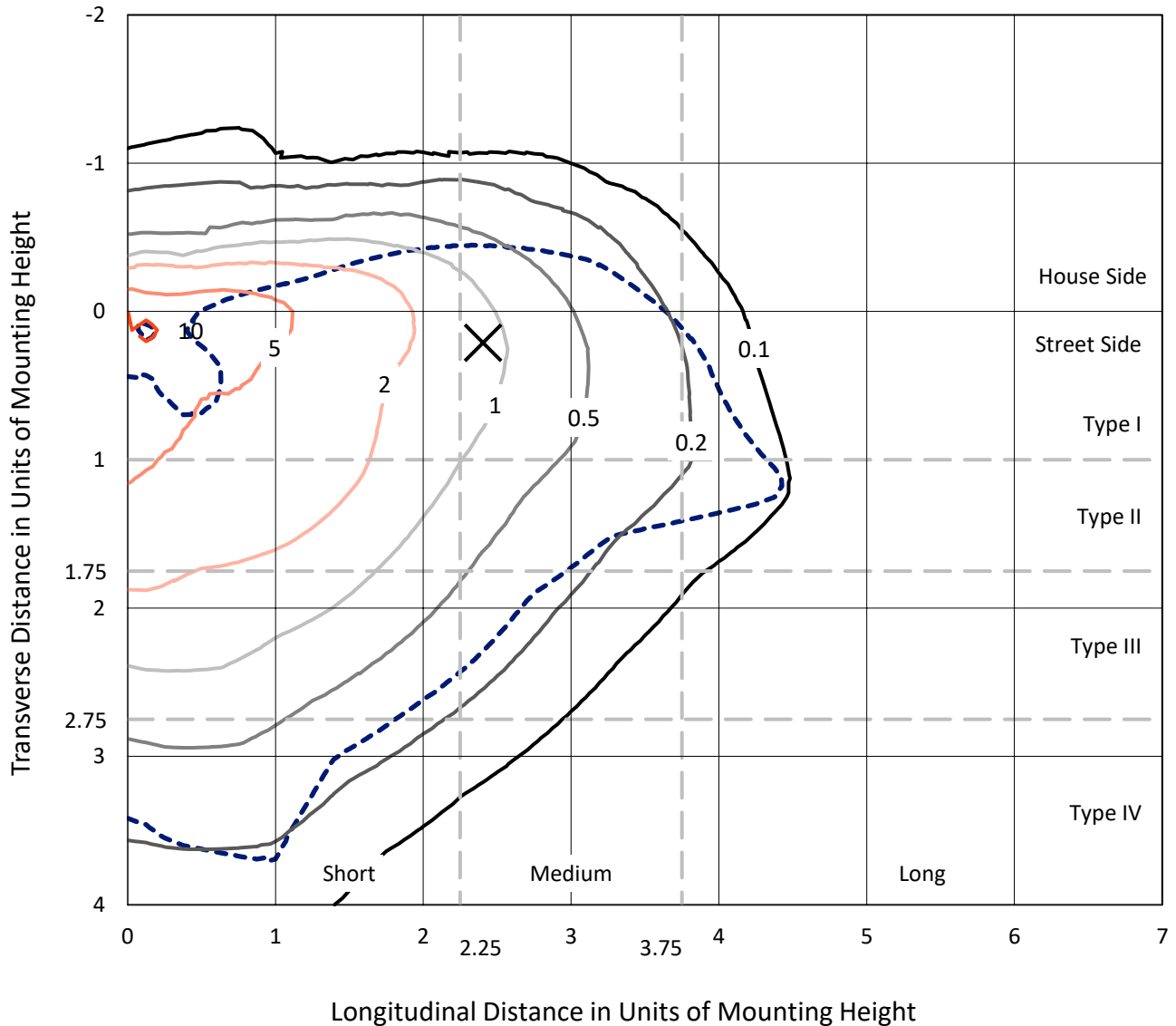
Lumens per Lamp: N/A  
Luminaire Lumens: 5960.4 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

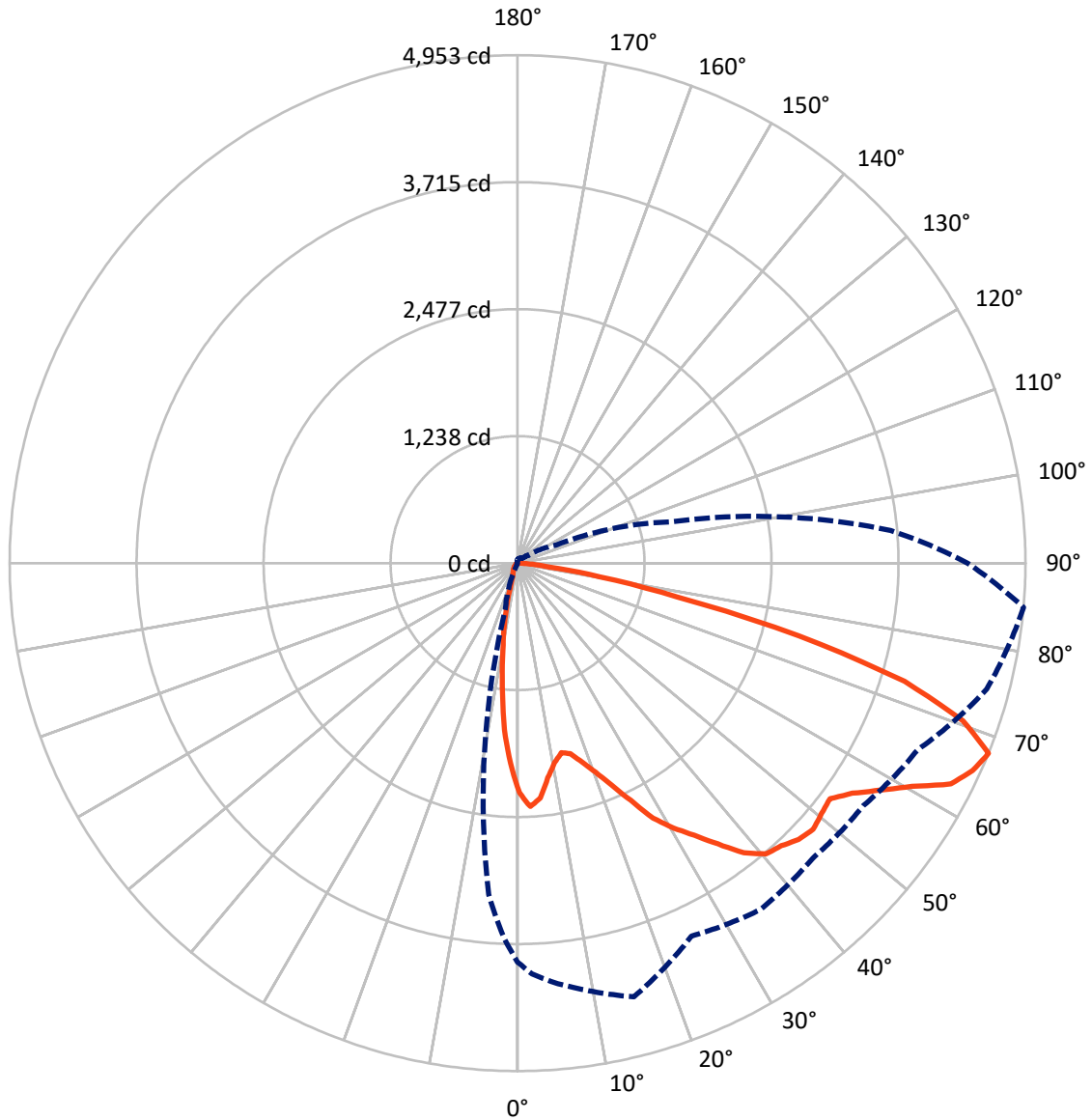
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.2 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
<b>House Side</b>	Lumens	1034.9	0.0	1034.9
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4925.5	0.0	4925.5
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	5960.4	0.0	5960.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	2.9
10°-20°	333.9	5.6
20°-30°	462.0	7.8
30°-40°	652.9	11.0
40°-50°	889.0	14.9
50°-60°	1177.4	19.8
60°-70°	1367.1	22.9
70°-80°	774.2	13.0
80°-90°	133.8	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°	5960.4	100.0
0°-180°	5960.4	100.0



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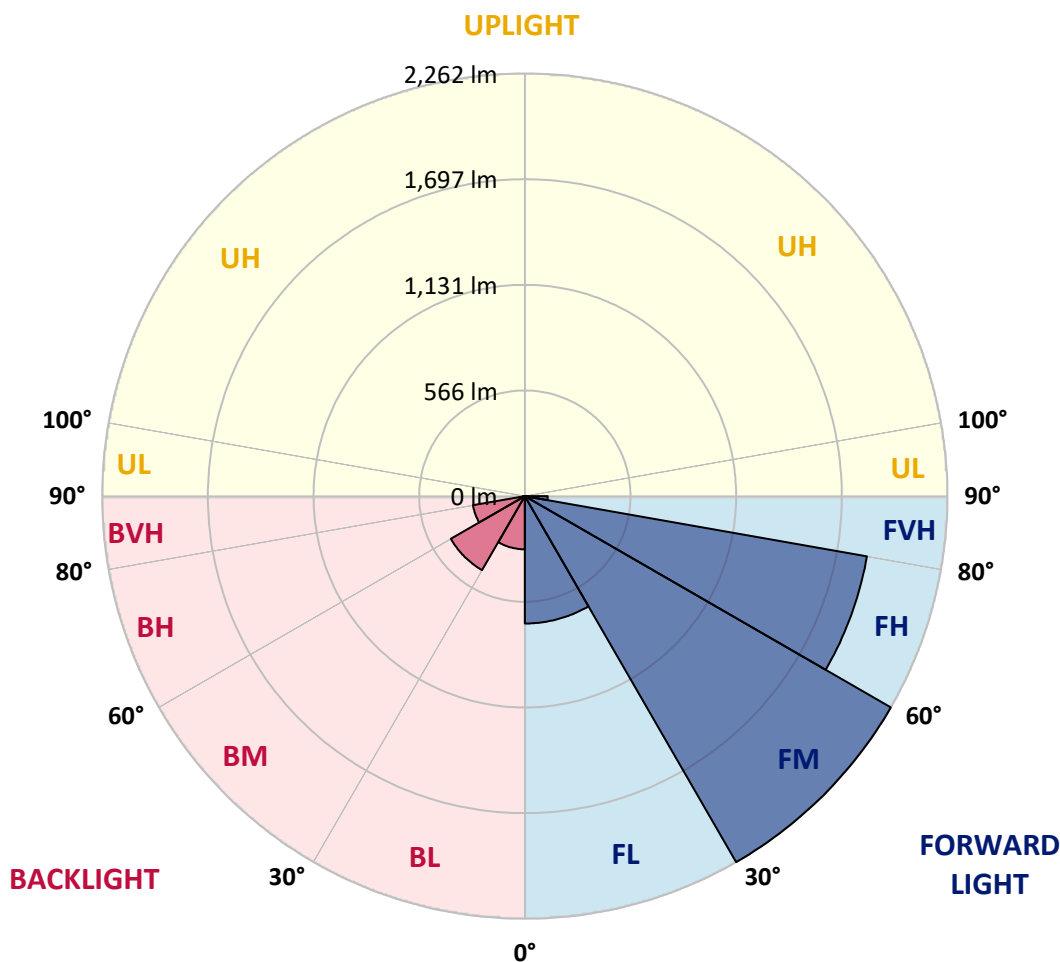
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.6	11.4			
FM (30°-60°)	2262.0	38.0			
FH (60°-80°)	1859.4	31.2			G2/5000
FVH (80°-90°)	122.5	2.1			G2/225
BL (0°-30°)	284.5	4.8	B1/500		
BM (30°-60°)	457.3	7.7	B1/1000		
BH (60°-80°)	281.9	4.7	B1/500		G1/500
BVH (80°-90°)	11.3	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°	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1
2.5°	2328.6	2378.0	2379.5	2401.8	2424.1	2424.1	2476.6	2463.9	2417.7	2409.8	2376.4
5°	2346.1	2363.6	2376.4	2489.4	2584.9	2575.3	2604.0	2584.9	2495.7	2381.1	2303.1
7.5°	2194.9	2214.0	2264.9	2457.5	2586.5	2629.4	2683.6	2564.2	2470.3	2263.4	2113.7
10°	1994.4	2031.0	2124.9	2344.5	2503.7	2640.6	2640.6	2545.1	2363.6	2161.5	1978.4
12.5°	1882.9	1956.2	2007.1	2229.9	2436.8	2530.8	2527.6	2476.6	2358.9	2104.2	1897.3
15°	1902.0	1922.7	2031.0	2204.5	2341.3	2336.6	2393.9	2378.0	2295.2	2155.1	1927.5
17.5°	1989.6	2021.4	2115.3	2204.5	2269.7	2250.6	2249.0	2325.4	2330.2	2241.1	2040.5
20°	2132.8	2226.7	2271.3	2298.4	2218.8	2137.6	2128.1	2234.7	2317.5	2350.9	2175.8
22.5°	2362.0	2424.1	2514.8	2376.4	2169.4	2067.6	2048.5	2166.3	2333.4	2481.4	2350.9
25°	2586.5	2634.2	2721.8	2543.5	2225.2	2053.3	2019.8	2121.7	2393.9	2662.9	2562.6
27.5°	2823.6	2865.0	2874.6	2666.0	2255.4	2024.6	1984.8	2121.7	2444.8	2758.4	2815.7
30°	2968.5	3017.8	3027.4	2774.3	2304.7	2048.5	2029.4	2131.2	2479.8	2839.5	2997.1
32.5°	3130.8	3143.5	3135.6	2793.4	2358.9	2118.5	2038.9	2194.9	2519.6	2936.6	3162.6
35°	3325.0	3347.3	3266.1	2880.9	2479.8	2163.1	2134.4	2272.9	2588.1	2981.2	3363.2
37.5°	3473.0	3543.1	3360.0	2914.3	2503.7	2257.0	2261.8	2435.3	2635.8	3035.3	3584.4
40°	3751.6	3633.8	3519.2	3028.9	2594.4	2416.2	2390.7	2602.4	2796.6	3070.3	3729.3
42.5°	3904.4	3842.3	3581.3	3040.1	2734.5	2635.8	2642.2	2791.8	2880.9	3169.0	3769.1
45°	3942.6	3877.3	3665.6	3048.0	2873.0	2895.2	3005.1	3033.7	3005.1	3234.3	3843.9
47.5°	4039.7	3898.0	3656.1	3154.7	3097.4	3183.3	3323.4	3385.5	3173.8	3210.4	3878.9
50°	4020.6	3939.4	3635.4	3199.3	3371.2	3598.8	3692.7	3667.2	3361.6	3161.1	3840.7
52.5°	3941.0	3853.4	3699.0	3320.2	3627.4	3902.8	4033.3	3969.6	3528.7	3272.5	3815.2
55°	4057.2	3990.3	3781.8	3484.2	3820.0	4170.2	4262.5	4214.7	3734.1	3375.9	3960.1
57.5°	4182.9	4168.6	4006.2	3676.8	4047.6	4445.5	4445.5	4386.6	3912.3	3525.6	4175.0
60°	4364.4	4396.2	4171.8	3804.1	4125.6	4429.6	4660.4	4592.0	4092.2	3788.2	4418.5
62.5°	4305.5	4407.3	4385.1	4077.9	4214.7	4507.6	4633.4	4684.3	4315.0	4108.1	4743.2
65°	4116.1	4224.3	4383.5	4257.7	4147.9	4318.2	4381.9	4536.3	4426.4	4408.9	4876.9
67.5°	3890.0	4007.8	4106.5	4378.7	4012.6	4125.6	4069.9	4119.2	4305.5	4738.4	4953.3
70°	3396.6	3509.6	3665.6	4109.7	3654.5	3552.6	3538.3	3514.4	3804.1	4620.6	4606.3
72.5°	2793.4	2845.9	3103.8	3340.9	2704.2	2685.1	2707.4	2680.4	3016.2	4182.9	3945.8
75°	2091.5	2144.0	2290.4	2565.8	1841.6	1731.7	1859.1	1984.8	2303.1	3247.0	2834.8
77.5°	1572.6	1639.4	1731.7	1919.6	1351.3	1179.4	1196.9	1316.3	1664.9	2600.8	1588.5
80°	1020.3	1012.3	1190.6	1321.1	1017.1	1048.9	1004.3	1091.9	1206.5	1391.1	811.8
82.5°	588.9	596.9	671.7	757.6	708.3	810.2	584.1	975.7	861.1	566.6	302.4
85°	331.1	345.4	413.8	525.3	444.1	297.6	243.5	483.9	541.2	232.4	146.4
87.5°	33.4	28.7	55.7	199.0	121.0	49.3	73.2	116.2	130.5	87.5	43.0
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°	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1
2.5°	2328.6	2328.6	2288.8	2222.0	2194.9	2147.2	2081.9	2102.6	2080.3	1999.1	1978.4
5°	2233.1	2156.7	2073.9	1972.1	1913.2	1792.2	1754.0	1685.6	1696.7	1628.3	1631.5
7.5°	2034.2	1973.7	1833.6	1699.9	1583.7	1478.7	1330.6	1274.9	1220.8	1193.8	1225.6
10°	1918.0	1805.0	1614.0	1438.9	1284.5	1190.6	1091.9	1015.5	945.5	892.9	881.8
12.5°	1833.6	1733.3	1502.5	1289.3	1168.3	1091.9	1001.2	896.1	827.7	736.9	709.9
15°	1808.1	1685.6	1442.1	1230.4	1112.6	986.8	883.4	779.9	690.8	595.3	561.9
17.5°	1895.7	1754.0	1440.5	1182.6	1017.1	881.8	738.5	622.3	531.6	444.1	423.4
20°	2043.7	1827.2	1486.6	1154.0	926.4	744.9	582.6	466.4	364.5	307.2	292.9
22.5°	2212.4	1951.4	1491.4	1077.6	835.6	608.0	425.0	307.2	249.9	222.8	214.9
25°	2419.3	2150.3	1548.7	1015.5	729.0	461.6	302.4	235.6	202.1	186.2	183.0
27.5°	2589.6	2288.8	1610.8	950.2	623.9	342.2	237.2	192.6	175.1	159.2	157.6
30°	2766.3	2448.0	1628.3	910.4	533.2	281.7	203.7	170.3	151.2	143.3	141.7
32.5°	2920.7	2621.5	1684.0	845.2	447.3	248.3	184.6	152.8	140.1	127.3	125.7
35°	3119.7	2721.8	1711.0	810.2	415.4	224.4	168.7	140.1	121.0	113.0	109.8
37.5°	3333.0	2818.8	1728.6	783.1	388.4	210.1	159.2	132.1	114.6	103.5	100.3
40°	3531.9	2955.7	1703.1	749.7	367.7	192.6	152.8	122.6	106.6	95.5	90.7
42.5°	3684.7	3089.4	1695.1	717.8	345.4	186.2	144.8	117.8	100.3	87.5	86.0
45°	3770.7	3180.2	1639.4	692.4	327.9	189.4	141.7	111.4	95.5	84.4	78.0
47.5°	3750.0	3250.2	1653.7	684.4	304.0	176.7	140.1	106.6	87.5	78.0	73.2
50°	3864.6	3391.9	1629.9	659.0	286.5	159.2	152.8	106.6	86.0	74.8	70.0
52.5°	3883.7	3520.8	1680.8	612.8	259.4	146.4	151.2	105.1	82.8	71.6	65.3
55°	4042.8	3670.4	1779.5	587.3	237.2	127.3	138.5	101.9	74.8	65.3	62.1
57.5°	4259.3	3980.8	1843.2	563.5	206.9	111.4	116.2	100.3	68.4	60.5	55.7
60°	4467.8	4104.9	1847.9	520.5	178.3	100.3	90.7	100.3	63.7	54.1	49.3
62.5°	4623.8	4104.9	1816.1	483.9	156.0	89.1	79.6	95.5	57.3	47.8	44.6
65°	4539.4	3995.1	1733.3	453.6	141.7	78.0	68.4	73.2	50.9	41.4	38.2
67.5°	4388.2	3652.9	1550.3	417.0	140.1	68.4	58.9	54.1	44.6	36.6	33.4
70°	4146.3	3191.3	1290.8	375.6	136.9	62.1	52.5	46.2	39.8	31.8	28.7
72.5°	3340.9	2635.8	1060.1	351.8	133.7	54.1	44.6	39.8	33.4	27.1	23.9
75°	2314.3	1684.0	816.5	300.8	130.5	49.3	41.4	35.0	28.7	22.3	20.7
77.5°	1387.9	1125.3	526.8	226.0	86.0	39.8	35.0	27.1	23.9	19.1	17.5
80°	649.4	531.6	213.3	87.5	41.4	28.7	23.9	20.7	19.1	15.9	14.3
82.5°	254.7	224.4	103.5	50.9	33.4	22.3	19.1	17.5	15.9	12.7	11.1
85°	136.9	121.0	49.3	35.0	23.9	15.9	15.9	14.3	12.7	11.1	9.6
87.5°	30.2	22.3	20.7	20.7	17.5	12.7	12.7	11.1	9.6	8.0	6.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1
2.5°	1967.3	1991.2	1953.0	1976.9	1943.4	1968.9	1972.1	1948.2	1954.6	1986.4	2000.7
5°	1676.0	1660.1	1625.1	1614.0	1615.5	1594.9	1602.8	1614.0	1631.5	1641.0	1669.7
7.5°	1208.1	1244.7	1243.1	1270.2	1271.7	1268.6	1246.3	1198.5	1214.4	1201.7	1217.6
10°	864.3	880.2	910.4	927.9	959.8	942.3	891.3	872.2	862.7	861.1	877.0
12.5°	690.8	652.6	649.4	655.8	671.7	651.0	625.5	603.2	614.4	636.7	654.2
15°	534.8	503.0	461.6	455.2	458.4	448.9	421.8	393.1	401.1	423.4	436.1
17.5°	410.7	374.0	345.4	326.3	319.9	286.5	246.7	222.8	216.5	214.9	226.0
20°	277.0	270.6	265.8	241.9	241.9	194.2	160.8	143.3	143.3	146.4	148.0
22.5°	206.9	199.0	200.6	195.8	183.0	144.8	127.3	122.6	122.6	125.7	125.7
25°	179.9	168.7	165.5	163.9	151.2	124.2	111.4	106.6	106.6	109.8	109.8
27.5°	152.8	149.6	144.8	138.5	127.3	106.6	98.7	93.9	95.5	97.1	95.5
30°	140.1	132.1	125.7	125.7	113.0	95.5	89.1	86.0	82.8	86.0	87.5
32.5°	124.2	119.4	116.2	111.4	97.1	84.4	78.0	74.8	73.2	73.2	74.8
35°	106.6	106.6	103.5	97.1	84.4	76.4	68.4	65.3	63.7	65.3	65.3
37.5°	95.5	90.7	92.3	86.0	74.8	66.9	58.9	55.7	55.7	54.1	55.7
40°	89.1	81.2	76.4	73.2	66.9	57.3	50.9	47.8	46.2	46.2	46.2
42.5°	79.6	73.2	63.7	62.1	60.5	49.3	41.4	39.8	38.2	36.6	36.6
45°	74.8	65.3	57.3	49.3	49.3	41.4	35.0	31.8	30.2	28.7	30.2
47.5°	68.4	58.9	49.3	41.4	39.8	33.4	27.1	23.9	22.3	22.3	22.3
50°	65.3	52.5	43.0	35.0	30.2	27.1	20.7	17.5	15.9	15.9	15.9
52.5°	60.5	49.3	38.2	30.2	23.9	20.7	15.9	12.7	11.1	11.1	11.1
55°	54.1	44.6	33.4	25.5	20.7	15.9	11.1	8.0	6.4	6.4	6.4
57.5°	50.9	39.8	28.7	22.3	15.9	11.1	6.4	4.8	4.8	3.2	4.8
60°	46.2	35.0	23.9	17.5	12.7	8.0	4.8	1.6	1.6	1.6	1.6
62.5°	39.8	30.2	20.7	14.3	9.6	4.8	1.6	0.0	0.0	0.0	0.0
65°	33.4	23.9	15.9	11.1	6.4	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	28.7	20.7	12.7	8.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	25.5	17.5	9.6	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	20.7	14.3	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.5	11.1	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.3	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.1	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.6	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°	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1
2.5°	2021.4	2011.9	2059.6	2137.6	2177.4	2255.4	2274.5	2323.8	2311.1	2328.6
5°	1672.8	1691.9	1762.0	1876.6	1918.0	2031.0	2137.6	2244.3	2312.7	2346.1
7.5°	1241.5	1305.2	1391.1	1496.2	1602.8	1750.8	1932.3	2056.4	2123.3	2194.9
10°	924.8	993.2	1091.9	1195.3	1368.8	1534.4	1715.8	1870.2	1927.5	1994.4
12.5°	727.4	834.0	948.6	1060.1	1163.5	1321.1	1545.5	1769.9	1832.0	1882.9
15°	506.2	636.7	800.6	945.5	1090.3	1227.2	1459.6	1731.7	1816.1	1902.0
17.5°	280.1	383.6	571.4	775.1	988.4	1198.5	1488.2	1801.8	1929.1	1989.6
20°	162.4	203.7	337.4	579.4	861.1	1136.5	1502.5	1933.9	2102.6	2132.8
22.5°	133.7	148.0	191.0	362.9	705.1	1096.7	1575.8	2118.5	2290.4	2362.0
25°	114.6	125.7	148.0	218.1	533.2	1012.3	1621.9	2349.3	2508.5	2586.5
27.5°	101.9	113.0	130.5	160.8	362.9	896.1	1698.3	2557.8	2717.0	2823.6
30°	89.1	98.7	116.2	136.9	251.5	765.6	1763.6	2710.6	2935.0	2968.5
32.5°	79.6	87.5	100.3	117.8	186.2	581.0	1816.1	2868.2	3057.6	3130.8
35°	68.4	78.0	86.0	100.3	141.7	437.7	1784.3	2990.7	3237.5	3325.0
37.5°	60.5	66.9	74.8	84.4	119.4	342.2	1719.0	3137.2	3391.9	3473.0
40°	50.9	55.7	65.3	74.8	108.2	264.2	1644.2	3313.9	3608.3	3751.6
42.5°	43.0	47.8	54.1	70.0	89.1	195.8	1493.0	3450.7	3783.4	3904.4
45°	33.4	39.8	49.3	70.0	71.6	144.8	1337.0	3552.6	3882.1	3942.6
47.5°	25.5	31.8	47.8	60.5	57.3	100.3	1152.4	3668.8	3984.0	4039.7
50°	19.1	25.5	54.1	52.5	47.8	76.4	1036.2	3750.0	3990.3	4020.6
52.5°	12.7	19.1	44.6	39.8	39.8	66.9	1004.3	3746.8	4006.2	3941.0
55°	9.6	14.3	25.5	28.7	35.0	58.9	975.7	3866.2	4011.0	4057.2
57.5°	6.4	11.1	17.5	22.3	30.2	50.9	916.8	4009.4	4159.0	4182.9
60°	3.2	8.0	12.7	17.5	25.5	44.6	834.0	4114.5	4338.9	4364.4
62.5°	1.6	4.8	9.6	14.3	20.7	35.0	748.1	3947.3	4260.9	4305.5
65°	0.0	3.2	6.4	9.6	12.7	25.5	608.0	3563.8	3952.1	4116.1
67.5°	0.0	0.0	3.2	6.4	8.0	19.1	458.4	3242.2	3667.2	3890.0
70°	0.0	0.0	1.6	1.6	4.8	14.3	292.9	2685.1	3274.1	3396.6
72.5°	0.0	0.0	0.0	0.0	1.6	9.6	170.3	1994.4	2565.8	2793.4
75°	0.0	0.0	0.0	0.0	0.0	8.0	86.0	1282.9	1785.9	2091.5
77.5°	0.0	0.0	0.0	0.0	0.0	6.4	46.2	827.7	1316.3	1572.6
80°	0.0	0.0	0.0	0.0	0.0	1.6	27.1	480.7	842.0	1020.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.1	235.6	503.0	588.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	125.7	251.5	331.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	17.5	33.4
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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