

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: P677367

Luminaire Tested: **CCW-SA-2C-850-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677367  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-850-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLL distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

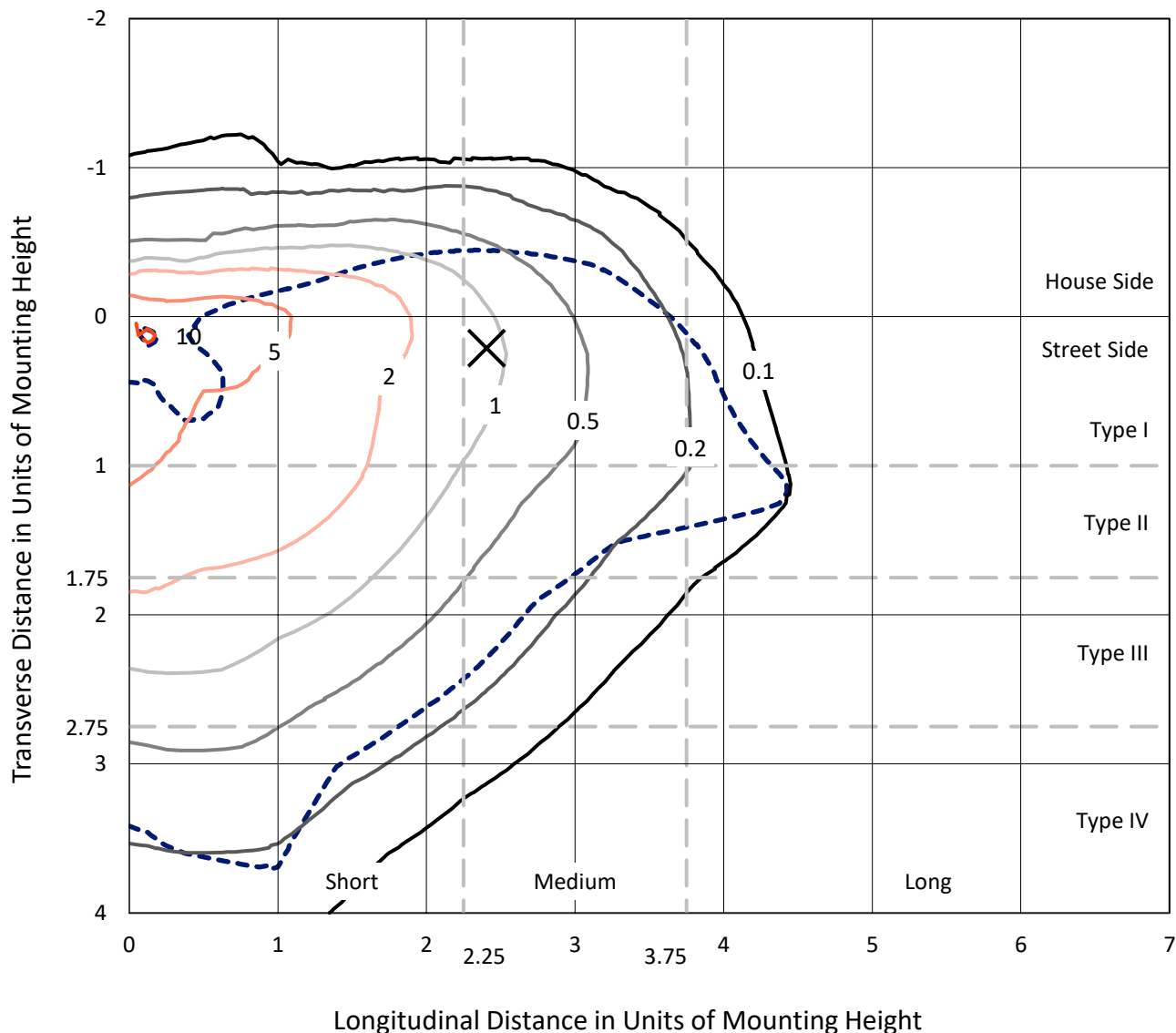
Lumens per Lamp: N/A  
Luminaire Lumens: 5724.2 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

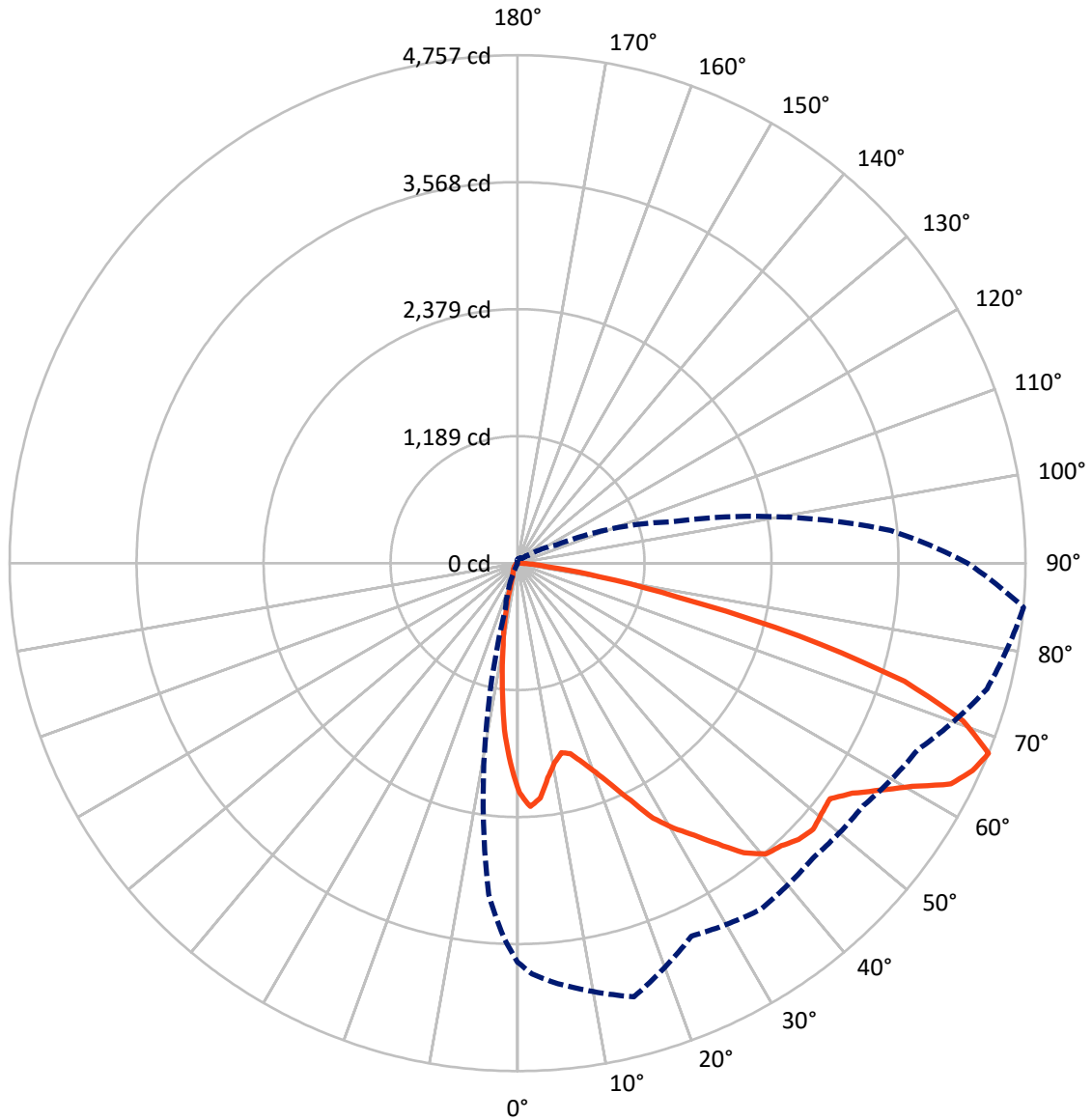
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.8 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	993.9	0.0	993.9
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4730.3	0.0	4730.3
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	5724.2	0.0	5724.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.5	2.9
10°-20°	320.6	5.6
20°-30°	443.7	7.8
30°-40°	627.1	11.0
40°-50°	853.8	14.9
50°-60°	1130.7	19.8
60°-70°	1312.9	22.9
70°-80°	743.5	13.0
80°-90°	128.5	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°	5724.2	100.0
0°-180°	5724.2	100.0



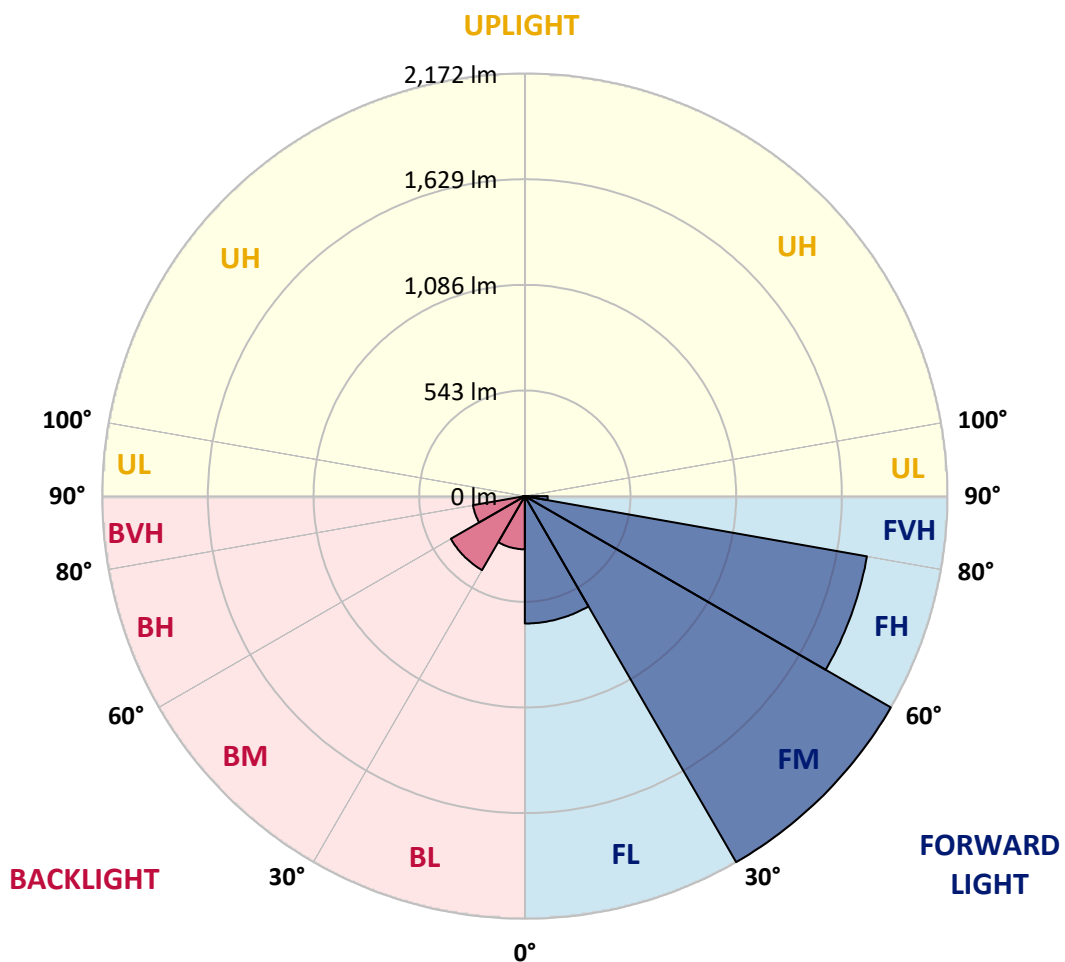
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.6	11.4			
FM (30°-60°)	2172.4	38.0			
FH (60°-80°)	1785.7	31.2			G1/1800
FVH (80°-90°)	117.6	2.1			G2/225
BL (0°-30°)	273.2	4.8	B1/500		
BM (30°-60°)	439.2	7.7	B1/1000		
BH (60°-80°)	270.7	4.7	B1/500		G1/500
BVH (80°-90°)	10.8	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°	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3
2.5°	2236.3	2283.7	2285.3	2306.7	2328.1	2328.1	2378.5	2366.3	2321.9	2314.3	2282.2
5°	2253.2	2270.0	2282.2	2390.7	2482.5	2473.3	2500.8	2482.5	2396.9	2286.8	2211.9
7.5°	2107.9	2126.3	2175.2	2360.2	2484.0	2525.3	2577.2	2462.6	2372.4	2173.7	2030.0
10°	1915.3	1950.5	2040.7	2251.6	2404.5	2536.0	2536.0	2444.2	2270.0	2075.8	1900.1
12.5°	1808.3	1878.7	1927.6	2141.6	2340.3	2430.5	2427.4	2378.5	2265.4	2020.8	1822.1
15°	1826.7	1846.6	1950.5	2117.1	2248.6	2244.0	2299.0	2283.7	2204.2	2069.7	1851.1
17.5°	1910.8	1941.3	2031.5	2117.1	2179.8	2161.4	2159.9	2233.3	2237.9	2152.3	1959.7
20°	2048.3	2138.5	2181.3	2207.3	2130.9	2052.9	2043.7	2146.2	2225.6	2257.7	2089.6
22.5°	2268.4	2328.1	2415.2	2282.2	2083.5	1985.7	1967.3	2080.4	2240.9	2383.1	2257.7
25°	2484.0	2529.8	2613.9	2442.7	2137.0	1971.9	1939.8	2037.6	2299.0	2557.4	2461.1
27.5°	2711.7	2751.5	2760.7	2560.4	2166.0	1944.4	1906.2	2037.6	2347.9	2649.1	2704.1
30°	2850.8	2898.2	2907.4	2664.4	2213.4	1967.3	1949.0	2046.8	2381.6	2727.0	2878.4
32.5°	3006.8	3019.0	3011.4	2682.7	2265.4	2034.6	1958.1	2107.9	2419.8	2820.3	3037.3
35°	3193.3	3214.7	3136.7	2766.8	2381.6	2077.4	2049.9	2182.8	2485.5	2863.1	3229.9
37.5°	3335.4	3402.7	3226.9	2798.9	2404.5	2167.6	2172.1	2338.8	2531.4	2915.0	3442.4
40°	3602.9	3489.8	3379.7	2908.9	2491.6	2320.4	2296.0	2499.3	2685.8	2948.7	3581.5
42.5°	3749.7	3690.1	3439.4	2919.6	2626.1	2531.4	2537.5	2681.2	2766.8	3043.5	3619.7
45°	3786.4	3723.7	3520.4	2927.3	2759.1	2780.5	2886.0	2913.5	2886.0	3106.1	3691.6
47.5°	3879.6	3743.6	3511.2	3029.7	2974.7	3057.2	3191.7	3251.3	3048.0	3083.2	3725.2
50°	3861.3	3783.3	3491.3	3072.5	3237.6	3456.2	3546.4	3521.9	3228.4	3035.8	3688.5
52.5°	3784.8	3700.8	3552.5	3188.7	3483.7	3748.1	3873.5	3812.3	3388.9	3142.8	3664.1
55°	3896.4	3832.2	3632.0	3346.1	3668.7	4004.9	4093.6	4047.7	3586.1	3242.2	3803.2
57.5°	4017.2	4003.4	3847.5	3531.1	3887.2	4269.4	4269.4	4212.8	3757.3	3385.9	4009.5
60°	4191.4	4222.0	4006.5	3653.4	3962.1	4254.1	4475.8	4410.0	3930.0	3638.1	4243.4
62.5°	4134.9	4232.7	4211.3	3916.3	4047.7	4329.0	4449.8	4498.7	4144.0	3945.3	4555.2
65°	3953.0	4056.9	4209.8	4089.0	3983.5	4147.1	4208.2	4356.5	4251.0	4234.2	4683.6
67.5°	3735.9	3849.0	3943.8	4205.2	3853.6	3962.1	3908.6	3956.0	4134.9	4550.7	4757.0
70°	3262.0	3370.6	3520.4	3946.9	3509.7	3411.8	3398.1	3375.2	3653.4	4437.5	4423.8
72.5°	2682.7	2733.1	2980.8	3208.5	2597.1	2578.8	2600.2	2574.2	2896.7	4017.2	3789.4
75°	2008.6	2059.0	2199.7	2464.1	1768.6	1663.1	1785.4	1906.2	2211.9	3118.4	2722.4
77.5°	1510.3	1574.5	1663.1	1843.5	1297.8	1132.7	1149.5	1264.2	1598.9	2497.7	1525.5
80°	979.8	972.2	1143.4	1268.7	976.8	1007.4	964.5	1048.6	1158.7	1336.0	779.6
82.5°	565.6	573.2	645.1	727.6	680.2	778.1	561.0	937.0	827.0	544.2	290.4
85°	317.9	331.7	397.4	504.4	426.5	285.8	233.9	464.7	519.7	223.2	140.6
87.5°	32.1	27.5	53.5	191.1	116.2	47.4	70.3	111.6	125.3	84.1	41.3
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°	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3
2.5°	2236.3	2236.3	2198.1	2133.9	2107.9	2062.1	1999.4	2019.3	1997.9	1919.9	1900.1
5°	2144.6	2071.3	1991.8	1893.9	1837.4	1721.2	1684.5	1618.8	1629.5	1563.8	1566.8
7.5°	1953.6	1895.5	1761.0	1632.5	1521.0	1420.1	1277.9	1224.4	1172.4	1146.5	1177.0
10°	1842.0	1733.4	1550.0	1381.9	1233.6	1143.4	1048.6	975.2	908.0	857.5	846.8
12.5°	1761.0	1664.7	1443.0	1238.2	1122.0	1048.6	961.5	860.6	794.9	707.7	681.8
15°	1736.5	1618.8	1384.9	1181.6	1068.5	947.7	848.4	749.0	663.4	571.7	539.6
17.5°	1820.6	1684.5	1383.4	1135.8	976.8	846.8	709.3	597.7	510.6	426.5	406.6
20°	1962.7	1754.8	1427.7	1108.2	889.6	715.4	559.5	447.9	350.1	295.0	281.3
22.5°	2124.8	1874.1	1432.3	1034.9	802.5	583.9	408.1	295.0	240.0	214.0	206.4
25°	2323.5	2065.1	1487.3	975.2	700.1	443.3	290.4	226.2	194.1	178.8	175.8
27.5°	2487.0	2198.1	1546.9	912.6	599.2	328.6	227.8	185.0	168.1	152.9	151.3
30°	2656.7	2351.0	1563.8	874.4	512.1	270.6	195.7	163.6	145.2	137.6	136.0
32.5°	2805.0	2517.6	1617.3	811.7	429.5	238.5	177.3	146.7	134.5	122.3	120.8
35°	2996.1	2613.9	1643.2	778.1	399.0	215.5	162.0	134.5	116.2	108.5	105.5
37.5°	3200.9	2707.2	1660.1	752.1	373.0	201.8	152.9	126.9	110.1	99.4	96.3
40°	3392.0	2838.6	1635.6	720.0	353.1	185.0	146.7	117.7	102.4	91.7	87.1
42.5°	3538.7	2967.0	1628.0	689.4	331.7	178.8	139.1	113.1	96.3	84.1	82.5
45°	3621.3	3054.2	1574.5	664.9	314.9	181.9	136.0	107.0	91.7	81.0	74.9
47.5°	3601.4	3121.4	1588.2	657.3	292.0	169.7	134.5	102.4	84.1	74.9	70.3
50°	3711.5	3257.5	1565.3	632.8	275.1	152.9	146.7	102.4	82.5	71.8	67.3
52.5°	3729.8	3381.3	1614.2	588.5	249.2	140.6	145.2	100.9	79.5	68.8	62.7
55°	3882.7	3525.0	1709.0	564.1	227.8	122.3	133.0	97.8	71.8	62.7	59.6
57.5°	4090.5	3823.0	1770.1	541.1	198.7	107.0	111.6	96.3	65.7	58.1	53.5
60°	4290.8	3942.3	1774.7	499.9	171.2	96.3	87.1	96.3	61.1	52.0	47.4
62.5°	4440.6	3942.3	1744.1	464.7	149.8	85.6	76.4	91.7	55.0	45.9	42.8
65°	4359.6	3836.8	1664.7	435.7	136.0	74.9	65.7	70.3	48.9	39.7	36.7
67.5°	4214.4	3508.1	1488.9	400.5	134.5	65.7	56.6	52.0	42.8	35.2	32.1
70°	3982.0	3064.9	1239.7	360.8	131.5	59.6	50.4	44.3	38.2	30.6	27.5
72.5°	3208.5	2531.4	1018.1	337.8	128.4	52.0	42.8	38.2	32.1	26.0	22.9
75°	2222.6	1617.3	784.2	288.9	125.3	47.4	39.7	33.6	27.5	21.4	19.9
77.5°	1332.9	1080.7	506.0	217.1	82.5	38.2	33.6	26.0	22.9	18.3	16.8
80°	623.7	510.6	204.8	84.1	39.7	27.5	22.9	19.9	18.3	15.3	13.8
82.5°	244.6	215.5	99.4	48.9	32.1	21.4	18.3	16.8	15.3	12.2	10.7
85°	131.5	116.2	47.4	33.6	22.9	15.3	15.3	13.8	12.2	10.7	9.2
87.5°	29.0	21.4	19.9	19.9	16.8	12.2	12.2	10.7	9.2	7.6	6.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3
2.5°	1889.4	1912.3	1875.6	1898.5	1866.4	1890.9	1893.9	1871.0	1877.1	1907.7	1921.5
5°	1609.6	1594.3	1560.7	1550.0	1551.5	1531.7	1539.3	1550.0	1566.8	1576.0	1603.5
7.5°	1160.2	1195.4	1193.8	1219.8	1221.4	1218.3	1196.9	1151.0	1166.3	1154.1	1169.4
10°	830.0	845.3	874.4	891.2	921.7	904.9	856.0	837.7	828.5	827.0	842.3
12.5°	663.4	626.7	623.7	629.8	645.1	625.2	600.7	579.3	590.0	611.4	628.3
15°	513.6	483.0	443.3	437.2	440.2	431.1	405.1	377.6	385.2	406.6	418.8
17.5°	394.4	359.2	331.7	313.4	307.2	275.1	236.9	214.0	207.9	206.4	217.1
20°	266.0	259.9	255.3	232.3	232.3	186.5	154.4	137.6	137.6	140.6	142.2
22.5°	198.7	191.1	192.6	188.0	175.8	139.1	122.3	117.7	117.7	120.8	120.8
25°	172.7	162.0	159.0	157.4	145.2	119.2	107.0	102.4	102.4	105.5	105.5
27.5°	146.7	143.7	139.1	133.0	122.3	102.4	94.8	90.2	91.7	93.2	91.7
30°	134.5	126.9	120.8	120.8	108.5	91.7	85.6	82.5	79.5	82.5	84.1
32.5°	119.2	114.6	111.6	107.0	93.2	81.0	74.9	71.8	70.3	70.3	71.8
35°	102.4	102.4	99.4	93.2	81.0	73.4	65.7	62.7	61.1	62.7	62.7
37.5°	91.7	87.1	88.7	82.5	71.8	64.2	56.6	53.5	53.5	52.0	53.5
40°	85.6	78.0	73.4	70.3	64.2	55.0	48.9	45.9	44.3	44.3	44.3
42.5°	76.4	70.3	61.1	59.6	58.1	47.4	39.7	38.2	36.7	35.2	35.2
45°	71.8	62.7	55.0	47.4	47.4	39.7	33.6	30.6	29.0	27.5	29.0
47.5°	65.7	56.6	47.4	39.7	38.2	32.1	26.0	22.9	21.4	21.4	21.4
50°	62.7	50.4	41.3	33.6	29.0	26.0	19.9	16.8	15.3	15.3	15.3
52.5°	58.1	47.4	36.7	29.0	22.9	19.9	15.3	12.2	10.7	10.7	10.7
55°	52.0	42.8	32.1	24.5	19.9	15.3	10.7	7.6	6.1	6.1	6.1
57.5°	48.9	38.2	27.5	21.4	15.3	10.7	6.1	4.6	4.6	3.1	4.6
60°	44.3	33.6	22.9	16.8	12.2	7.6	4.6	1.5	1.5	1.5	1.5
62.5°	38.2	29.0	19.9	13.8	9.2	4.6	1.5	0.0	0.0	0.0	0.0
65°	32.1	22.9	15.3	10.7	6.1	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	27.5	19.9	12.2	7.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	24.5	16.8	9.2	6.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	19.9	13.8	7.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.8	10.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.8	7.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.7	6.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	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°	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3	2152.3
2.5°	1941.3	1932.2	1978.0	2052.9	2091.1	2166.0	2184.4	2231.8	2219.5	2236.3
5°	1606.6	1624.9	1692.2	1802.2	1842.0	1950.5	2052.9	2155.3	2221.1	2253.2
7.5°	1192.3	1253.5	1336.0	1436.9	1539.3	1681.5	1855.7	1975.0	2039.2	2107.9
10°	888.1	953.8	1048.6	1148.0	1314.6	1473.6	1647.8	1796.1	1851.1	1915.3
12.5°	698.6	801.0	911.0	1018.1	1117.4	1268.7	1484.3	1699.8	1759.4	1808.3
15°	486.1	611.4	768.9	908.0	1047.1	1178.6	1401.7	1663.1	1744.1	1826.7
17.5°	269.0	368.4	548.8	744.4	949.3	1151.0	1429.2	1730.4	1852.7	1910.8
20°	155.9	195.7	324.1	556.4	827.0	1091.4	1443.0	1857.3	2019.3	2048.3
22.5°	128.4	142.2	183.4	348.5	677.2	1053.2	1513.3	2034.6	2199.7	2268.4
25°	110.1	120.8	142.2	209.4	512.1	972.2	1557.6	2256.2	2409.1	2484.0
27.5°	97.8	108.5	125.3	154.4	348.5	860.6	1631.0	2456.5	2609.3	2711.7
30°	85.6	94.8	111.6	131.5	241.5	735.3	1693.7	2603.2	2818.7	2850.8
32.5°	76.4	84.1	96.3	113.1	178.8	557.9	1744.1	2754.5	2936.4	3006.8
35°	65.7	74.9	82.5	96.3	136.0	420.4	1713.6	2872.2	3109.2	3193.3
37.5°	58.1	64.2	71.8	81.0	114.6	328.6	1650.9	3012.9	3257.5	3335.4
40°	48.9	53.5	62.7	71.8	103.9	253.7	1579.0	3182.6	3465.3	3602.9
42.5°	41.3	45.9	52.0	67.3	85.6	188.0	1433.8	3314.0	3633.5	3749.7
45°	32.1	38.2	47.4	67.3	68.8	139.1	1284.0	3411.8	3728.3	3786.4
47.5°	24.5	30.6	45.9	58.1	55.0	96.3	1106.7	3523.4	3826.1	3879.6
50°	18.3	24.5	52.0	50.4	45.9	73.4	995.1	3601.4	3832.2	3861.3
52.5°	12.2	18.3	42.8	38.2	38.2	64.2	964.5	3598.3	3847.5	3784.8
55°	9.2	13.8	24.5	27.5	33.6	56.6	937.0	3713.0	3852.1	3896.4
57.5°	6.1	10.7	16.8	21.4	29.0	48.9	880.5	3850.6	3994.2	4017.2
60°	3.1	7.6	12.2	16.8	24.5	42.8	801.0	3951.4	4167.0	4191.4
62.5°	1.5	4.6	9.2	13.8	19.9	33.6	718.4	3790.9	4092.1	4134.9
65°	0.0	3.1	6.1	9.2	12.2	24.5	583.9	3422.5	3795.5	3953.0
67.5°	0.0	0.0	3.1	6.1	7.6	18.3	440.2	3113.8	3521.9	3735.9
70°	0.0	0.0	1.5	1.5	4.6	13.8	281.3	2578.8	3144.3	3262.0
72.5°	0.0	0.0	0.0	0.0	1.5	9.2	163.6	1915.3	2464.1	2682.7
75°	0.0	0.0	0.0	0.0	0.0	7.6	82.5	1232.1	1715.1	2008.6
77.5°	0.0	0.0	0.0	0.0	0.0	6.1	44.3	794.9	1264.2	1510.3
80°	0.0	0.0	0.0	0.0	0.0	1.5	26.0	461.6	808.6	979.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.7	226.2	483.0	565.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	120.8	241.5	317.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	16.8	32.1
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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