

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: P677265

Luminaire Tested: **CCW-SA-1F-730-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677265  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-730-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

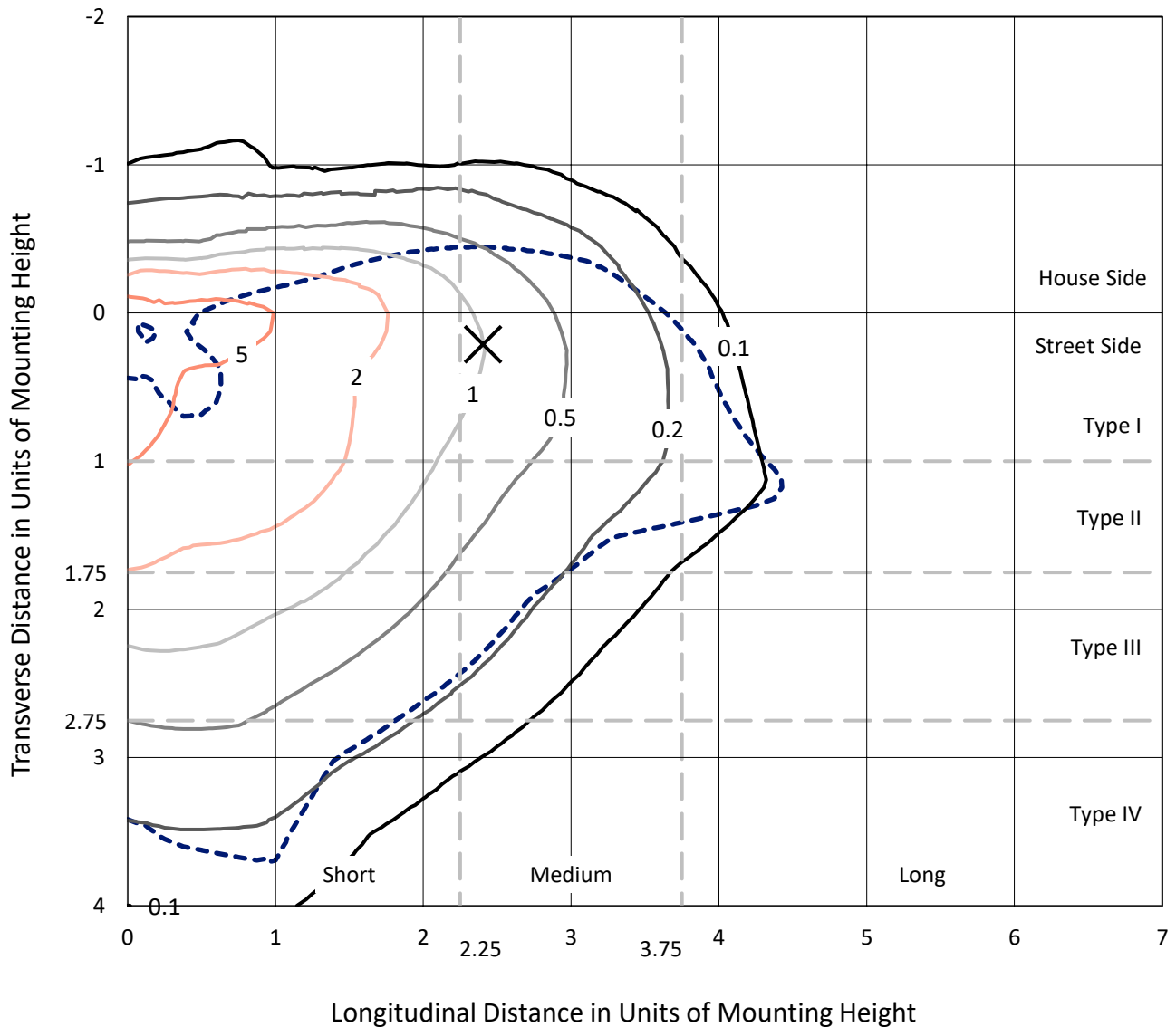
Lumens per Lamp: N/A  
Luminaire Lumens: 4953.5 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

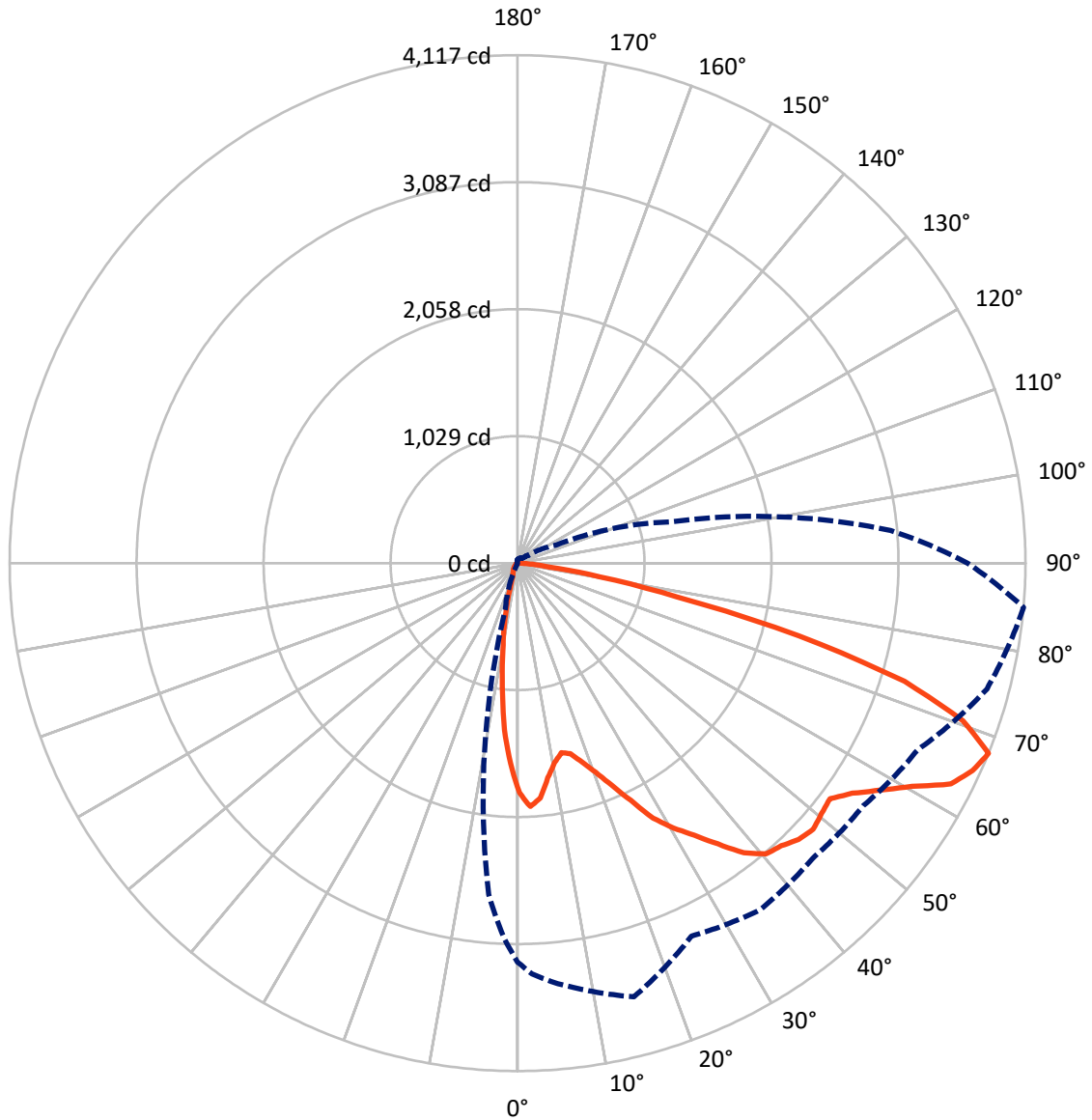
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.3 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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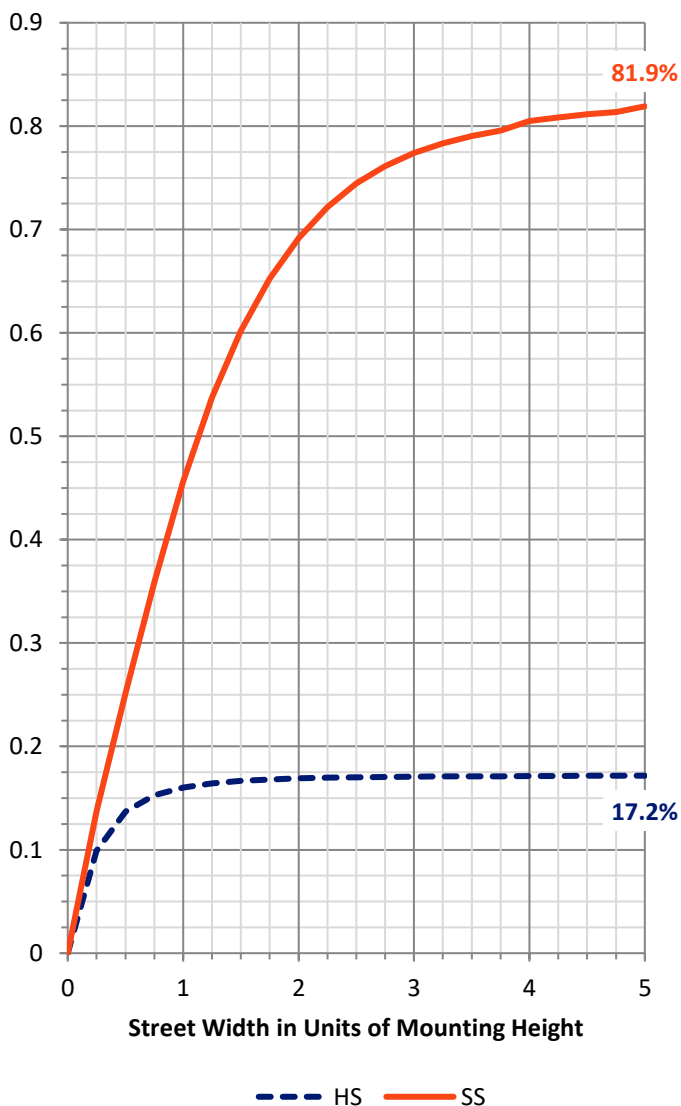
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	860.1	0.0	860.1
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	4093.4	0.0	4093.4
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	4953.5	0.0	4953.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.5	2.9
10°-20°	277.5	5.6
20°-30°	384.0	7.8
30°-40°	542.6	11.0
40°-50°	738.8	14.9
50°-60°	978.5	19.8
60°-70°	1136.1	22.9
70°-80°	643.4	13.0
80°-90°	111.2	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°	4953.5	100.0
0°-180°	4953.5	100.0

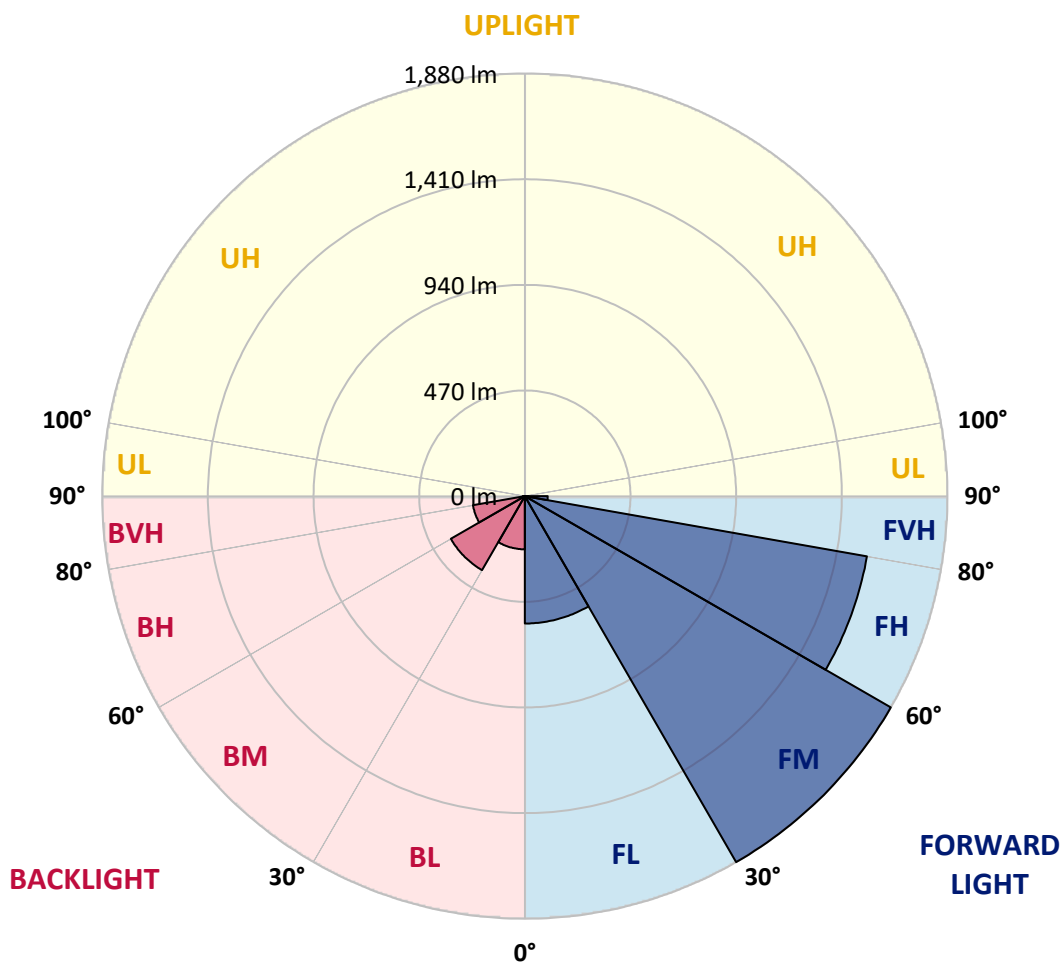


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.5	11.4			
FM (30°-60°)	1879.9	38.0			
FH (60°-80°)	1545.3	31.2			G1/1800
FVH (80°-90°)	101.8	2.1			G2/225
BL (0°-30°)	236.5	4.8	B1/500		
BM (30°-60°)	380.0	7.7	B1/1000		
BH (60°-80°)	234.2	4.7	B1/500		G1/500
BVH (80°-90°)	9.4	0.2			G0/10
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°	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5
2.5°	1935.2	1976.3	1977.6	1996.1	2014.6	2014.6	2058.3	2047.7	2009.3	2002.7	1974.9
5°	1949.8	1964.4	1974.9	2068.9	2148.2	2140.3	2164.1	2148.2	2074.1	1978.9	1914.1
7.5°	1824.1	1840.0	1882.3	2042.4	2149.5	2185.3	2230.2	2131.0	2053.0	1881.0	1756.7
10°	1657.5	1687.9	1765.9	1948.5	2080.8	2194.5	2194.5	2115.1	1964.4	1796.4	1644.2
12.5°	1564.9	1625.7	1668.0	1853.2	2025.2	2103.2	2100.6	2058.3	1960.4	1748.7	1576.8
15°	1580.7	1597.9	1687.9	1832.1	1945.8	1941.9	1989.5	1976.3	1907.5	1791.1	1601.9
17.5°	1653.5	1680.0	1758.0	1832.1	1886.3	1870.4	1869.1	1932.6	1936.6	1862.5	1695.8
20°	1772.5	1850.6	1887.6	1910.1	1844.0	1776.5	1768.6	1857.2	1926.0	1953.8	1808.3
22.5°	1963.0	2014.6	2090.0	1974.9	1803.0	1718.3	1702.4	1800.3	1939.2	2062.2	1953.8
25°	2149.5	2189.2	2262.0	2113.8	1849.3	1706.4	1678.6	1763.3	1989.5	2213.0	2129.7
27.5°	2346.6	2381.0	2389.0	2215.7	1874.4	1682.6	1649.5	1763.3	2031.8	2292.4	2340.0
30°	2467.0	2508.0	2516.0	2305.6	1915.4	1702.4	1686.6	1771.2	2060.9	2359.9	2490.8
32.5°	2601.9	2612.5	2605.9	2321.5	1960.4	1760.6	1694.5	1824.1	2094.0	2440.6	2628.4
35°	2763.3	2781.8	2714.4	2394.3	2060.9	1797.7	1773.9	1889.0	2150.9	2477.6	2795.1
37.5°	2886.3	2944.5	2792.4	2422.0	2080.8	1875.7	1879.7	2023.9	2190.5	2522.6	2978.9
40°	3117.8	3019.9	2924.7	2517.3	2156.2	2008.0	1986.8	2162.8	2324.2	2551.7	3099.3
42.5°	3244.8	3193.2	2976.3	2526.5	2272.6	2190.5	2195.8	2320.2	2394.3	2633.7	3132.4
45°	3276.6	3222.3	3046.4	2533.2	2387.6	2406.2	2497.4	2521.2	2497.4	2687.9	3194.6
47.5°	3357.3	3239.5	3038.5	2621.8	2574.2	2645.6	2762.0	2813.6	2637.7	2668.1	3223.7
50°	3341.4	3273.9	3021.3	2658.8	2801.7	2990.8	3068.9	3047.7	2793.7	2627.1	3191.9
52.5°	3275.2	3202.5	3074.2	2759.4	3014.7	3243.5	3352.0	3299.1	2932.6	2719.7	3170.7
55°	3371.8	3316.2	3143.0	2895.6	3174.7	3465.7	3542.4	3502.8	3103.3	2805.6	3291.1
57.5°	3476.3	3464.4	3329.5	3055.7	3363.9	3694.6	3694.6	3645.6	3251.4	2930.0	3469.7
60°	3627.1	3653.6	3467.0	3161.5	3428.7	3681.3	3873.1	3816.3	3400.9	3148.3	3672.1
62.5°	3578.2	3662.8	3644.3	3389.0	3502.8	3746.2	3850.7	3893.0	3586.1	3414.1	3941.9
65°	3420.7	3510.7	3643.0	3538.5	3447.2	3588.7	3641.7	3770.0	3678.7	3664.1	4053.0
67.5°	3232.9	3330.8	3412.8	3639.0	3334.8	3428.7	3382.4	3423.4	3578.2	3938.0	4116.5
70°	2822.8	2916.8	3046.4	3415.5	3037.1	2952.5	2940.6	2920.7	3161.5	3840.1	3828.2
72.5°	2321.5	2365.2	2579.5	2776.5	2247.4	2231.6	2250.1	2227.6	2506.7	3476.3	3279.2
75°	1738.2	1781.8	1903.5	2132.3	1530.5	1439.2	1545.0	1649.5	1914.1	2698.5	2355.9
77.5°	1306.9	1362.5	1439.2	1595.3	1123.1	980.2	994.7	1094.0	1383.6	2161.4	1320.1
80°	847.9	841.3	989.5	1097.9	845.3	871.7	834.7	907.4	1002.7	1156.1	674.6
82.5°	489.4	496.0	558.2	629.7	588.6	673.3	485.5	810.9	715.6	470.9	251.3
85°	275.1	287.0	343.9	436.5	369.1	247.4	202.4	402.1	449.8	193.1	121.7
87.5°	27.8	23.8	46.3	165.3	100.5	41.0	60.8	96.6	108.5	72.8	35.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5
2.5°	1935.2	1935.2	1902.2	1846.6	1824.1	1784.5	1730.2	1747.4	1728.9	1661.4	1644.2
5°	1855.9	1792.4	1723.6	1638.9	1590.0	1489.5	1457.7	1400.8	1410.1	1353.2	1355.9
7.5°	1690.5	1640.3	1523.9	1412.7	1316.2	1228.9	1105.9	1059.6	1014.6	992.1	1018.6
10°	1594.0	1500.0	1341.3	1195.8	1067.5	989.5	907.4	843.9	785.7	742.1	732.8
12.5°	1523.9	1440.5	1248.7	1071.5	970.9	907.4	832.0	744.7	687.9	612.5	590.0
15°	1502.7	1400.8	1198.5	1022.5	924.6	820.1	734.2	648.2	574.1	494.7	466.9
17.5°	1575.4	1457.7	1197.1	982.8	845.3	732.8	613.8	517.2	441.8	369.1	351.9
20°	1698.5	1518.6	1235.5	959.0	769.9	619.1	484.1	387.6	302.9	255.3	243.4
22.5°	1838.7	1621.7	1239.5	895.5	694.5	505.3	353.2	255.3	207.7	185.2	178.6
25°	2010.6	1787.1	1287.1	843.9	605.8	383.6	251.3	195.8	168.0	154.8	152.1
27.5°	2152.2	1902.2	1338.7	789.7	518.5	284.4	197.1	160.1	145.5	132.3	131.0
30°	2299.0	2034.5	1353.2	756.6	443.1	234.1	169.3	141.5	125.7	119.1	117.7
32.5°	2427.3	2178.6	1399.5	702.4	371.7	206.4	153.4	127.0	116.4	105.8	104.5
35°	2592.7	2262.0	1422.0	673.3	345.2	186.5	140.2	116.4	100.5	93.9	91.3
37.5°	2769.9	2342.7	1436.6	650.8	322.8	174.6	132.3	109.8	95.2	86.0	83.3
40°	2935.3	2456.4	1415.4	623.0	305.6	160.1	127.0	101.9	88.6	79.4	75.4
42.5°	3062.3	2567.5	1408.8	596.6	287.0	154.8	120.4	97.9	83.3	72.8	71.4
45°	3133.7	2642.9	1362.5	575.4	272.5	157.4	117.7	92.6	79.4	70.1	64.8
47.5°	3116.5	2701.1	1374.4	568.8	252.7	146.8	116.4	88.6	72.8	64.8	60.8
50°	3211.7	2818.9	1354.5	547.6	238.1	132.3	127.0	88.6	71.4	62.2	58.2
52.5°	3227.6	2926.0	1396.9	509.3	215.6	121.7	125.7	87.3	68.8	59.5	54.2
55°	3359.9	3050.4	1478.9	488.1	197.1	105.8	115.1	84.7	62.2	54.2	51.6
57.5°	3539.8	3308.3	1531.8	468.3	172.0	92.6	96.6	83.3	56.9	50.3	46.3
60°	3713.1	3411.5	1535.8	432.6	148.2	83.3	75.4	83.3	52.9	45.0	41.0
62.5°	3842.7	3411.5	1509.3	402.1	129.6	74.1	66.1	79.4	47.6	39.7	37.0
65°	3772.6	3320.2	1440.5	377.0	117.7	64.8	56.9	60.8	42.3	34.4	31.7
67.5°	3646.9	3035.8	1288.4	346.6	116.4	56.9	48.9	45.0	37.0	30.4	27.8
70°	3445.9	2652.2	1072.8	312.2	113.8	51.6	43.7	38.4	33.1	26.5	23.8
72.5°	2776.5	2190.5	881.0	292.3	111.1	45.0	37.0	33.1	27.8	22.5	19.8
75°	1923.3	1399.5	678.6	250.0	108.5	41.0	34.4	29.1	23.8	18.5	17.2
77.5°	1153.5	935.2	437.8	187.8	71.4	33.1	29.1	22.5	19.8	15.9	14.6
80°	539.7	441.8	177.3	72.8	34.4	23.8	19.8	17.2	15.9	13.2	11.9
82.5°	211.6	186.5	86.0	42.3	27.8	18.5	15.9	14.6	13.2	10.6	9.3
85°	113.8	100.5	41.0	29.1	19.8	13.2	13.2	11.9	10.6	9.3	7.9
87.5°	25.1	18.5	17.2	17.2	14.6	10.6	10.6	9.3	7.9	6.6	5.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5
2.5°	1635.0	1654.8	1623.1	1642.9	1615.1	1636.3	1638.9	1619.1	1624.4	1650.8	1662.8
5°	1392.9	1379.7	1350.6	1341.3	1342.6	1325.4	1332.1	1341.3	1355.9	1363.8	1387.6
7.5°	1004.0	1034.4	1033.1	1055.6	1056.9	1054.3	1035.7	996.1	1009.3	998.7	1011.9
10°	718.3	731.5	756.6	771.2	797.6	783.1	740.8	724.9	717.0	715.6	728.9
12.5°	574.1	542.3	539.7	545.0	558.2	541.0	519.9	501.3	510.6	529.1	543.7
15°	444.5	418.0	383.6	378.3	381.0	373.0	350.5	326.7	333.3	351.9	362.4
17.5°	341.3	310.9	287.0	271.2	265.9	238.1	205.0	185.2	179.9	178.6	187.8
20°	230.2	224.9	220.9	201.1	201.1	161.4	133.6	119.1	119.1	121.7	123.0
22.5°	172.0	165.3	166.7	162.7	152.1	120.4	105.8	101.9	101.9	104.5	104.5
25°	149.5	140.2	137.6	136.2	125.7	103.2	92.6	88.6	88.6	91.3	91.3
27.5°	127.0	124.3	120.4	115.1	105.8	88.6	82.0	78.0	79.4	80.7	79.4
30°	116.4	109.8	104.5	104.5	93.9	79.4	74.1	71.4	68.8	71.4	72.8
32.5°	103.2	99.2	96.6	92.6	80.7	70.1	64.8	62.2	60.8	60.8	62.2
35°	88.6	88.6	86.0	80.7	70.1	63.5	56.9	54.2	52.9	54.2	54.2
37.5°	79.4	75.4	76.7	71.4	62.2	55.6	48.9	46.3	46.3	45.0	46.3
40°	74.1	67.5	63.5	60.8	55.6	47.6	42.3	39.7	38.4	38.4	38.4
42.5°	66.1	60.8	52.9	51.6	50.3	41.0	34.4	33.1	31.7	30.4	30.4
45°	62.2	54.2	47.6	41.0	41.0	34.4	29.1	26.5	25.1	23.8	25.1
47.5°	56.9	48.9	41.0	34.4	33.1	27.8	22.5	19.8	18.5	18.5	18.5
50°	54.2	43.7	35.7	29.1	25.1	22.5	17.2	14.6	13.2	13.2	13.2
52.5°	50.3	41.0	31.7	25.1	19.8	17.2	13.2	10.6	9.3	9.3	9.3
55°	45.0	37.0	27.8	21.2	17.2	13.2	9.3	6.6	5.3	5.3	5.3
57.5°	42.3	33.1	23.8	18.5	13.2	9.3	5.3	4.0	4.0	2.6	4.0
60°	38.4	29.1	19.8	14.6	10.6	6.6	4.0	1.3	1.3	1.3	1.3
62.5°	33.1	25.1	17.2	11.9	7.9	4.0	1.3	0.0	0.0	0.0	0.0
65°	27.8	19.8	13.2	9.3	5.3	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	23.8	17.2	10.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21.2	14.6	7.9	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.2	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.6	9.3	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.3	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.3	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°	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5	1862.5
2.5°	1680.0	1672.0	1711.7	1776.5	1809.6	1874.4	1890.3	1931.3	1920.7	1935.2
5°	1390.3	1406.1	1464.3	1559.6	1594.0	1687.9	1776.5	1865.1	1922.0	1949.8
7.5°	1031.8	1084.7	1156.1	1243.4	1332.1	1455.1	1605.9	1709.1	1764.6	1824.1
10°	768.5	825.4	907.4	993.4	1137.6	1275.2	1426.0	1554.3	1601.9	1657.5
12.5°	604.5	693.1	788.4	881.0	967.0	1097.9	1284.4	1470.9	1522.5	1564.9
15°	420.6	529.1	665.4	785.7	906.1	1019.9	1213.0	1439.2	1509.3	1580.7
17.5°	232.8	318.8	474.9	644.2	821.5	996.1	1236.8	1497.4	1603.2	1653.5
20°	134.9	169.3	280.4	481.5	715.6	944.5	1248.7	1607.2	1747.4	1772.5
22.5°	111.1	123.0	158.7	301.6	586.0	911.4	1309.6	1760.6	1903.5	1963.0
25°	95.2	104.5	123.0	181.2	443.1	841.3	1347.9	1952.4	2084.7	2149.5
27.5°	84.7	93.9	108.5	133.6	301.6	744.7	1411.4	2125.7	2258.0	2346.6
30°	74.1	82.0	96.6	113.8	209.0	636.3	1465.7	2252.7	2439.2	2467.0
32.5°	66.1	72.8	83.3	97.9	154.8	482.8	1509.3	2383.7	2541.1	2601.9
35°	56.9	64.8	71.4	83.3	117.7	363.8	1482.9	2485.5	2690.6	2763.3
37.5°	50.3	55.6	62.2	70.1	99.2	284.4	1428.6	2607.2	2818.9	2886.3
40°	42.3	46.3	54.2	62.2	90.0	219.6	1366.4	2754.1	2998.8	3117.8
42.5°	35.7	39.7	45.0	58.2	74.1	162.7	1240.8	2867.8	3144.3	3244.8
45°	27.8	33.1	41.0	58.2	59.5	120.4	1111.1	2952.5	3226.3	3276.6
47.5°	21.2	26.5	39.7	50.3	47.6	83.3	957.7	3049.0	3311.0	3357.3
50°	15.9	21.2	45.0	43.7	39.7	63.5	861.1	3116.5	3316.2	3341.4
52.5°	10.6	15.9	37.0	33.1	33.1	55.6	834.7	3113.9	3329.5	3275.2
55°	7.9	11.9	21.2	23.8	29.1	48.9	810.9	3213.1	3333.4	3371.8
57.5°	5.3	9.3	14.6	18.5	25.1	42.3	761.9	3332.1	3456.5	3476.3
60°	2.6	6.6	10.6	14.6	21.2	37.0	693.1	3419.4	3605.9	3627.1
62.5°	1.3	4.0	7.9	11.9	17.2	29.1	621.7	3280.5	3541.1	3578.2
65°	0.0	2.6	5.3	7.9	10.6	21.2	505.3	2961.7	3284.5	3420.7
67.5°	0.0	0.0	2.6	5.3	6.6	15.9	381.0	2694.5	3047.7	3232.9
70°	0.0	0.0	1.3	1.3	4.0	11.9	243.4	2231.6	2721.0	2822.8
72.5°	0.0	0.0	0.0	0.0	1.3	7.9	141.5	1657.5	2132.3	2321.5
75°	0.0	0.0	0.0	0.0	0.0	6.6	71.4	1066.2	1484.2	1738.2
77.5°	0.0	0.0	0.0	0.0	0.0	5.3	38.4	687.9	1094.0	1306.9
80°	0.0	0.0	0.0	0.0	0.0	1.3	22.5	399.5	699.8	847.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.3	195.8	418.0	489.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	104.5	209.0	275.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	14.6	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)