

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: P675827

Luminaire Tested: **CCW-SA-2B-730-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675827  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-730-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SLL distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

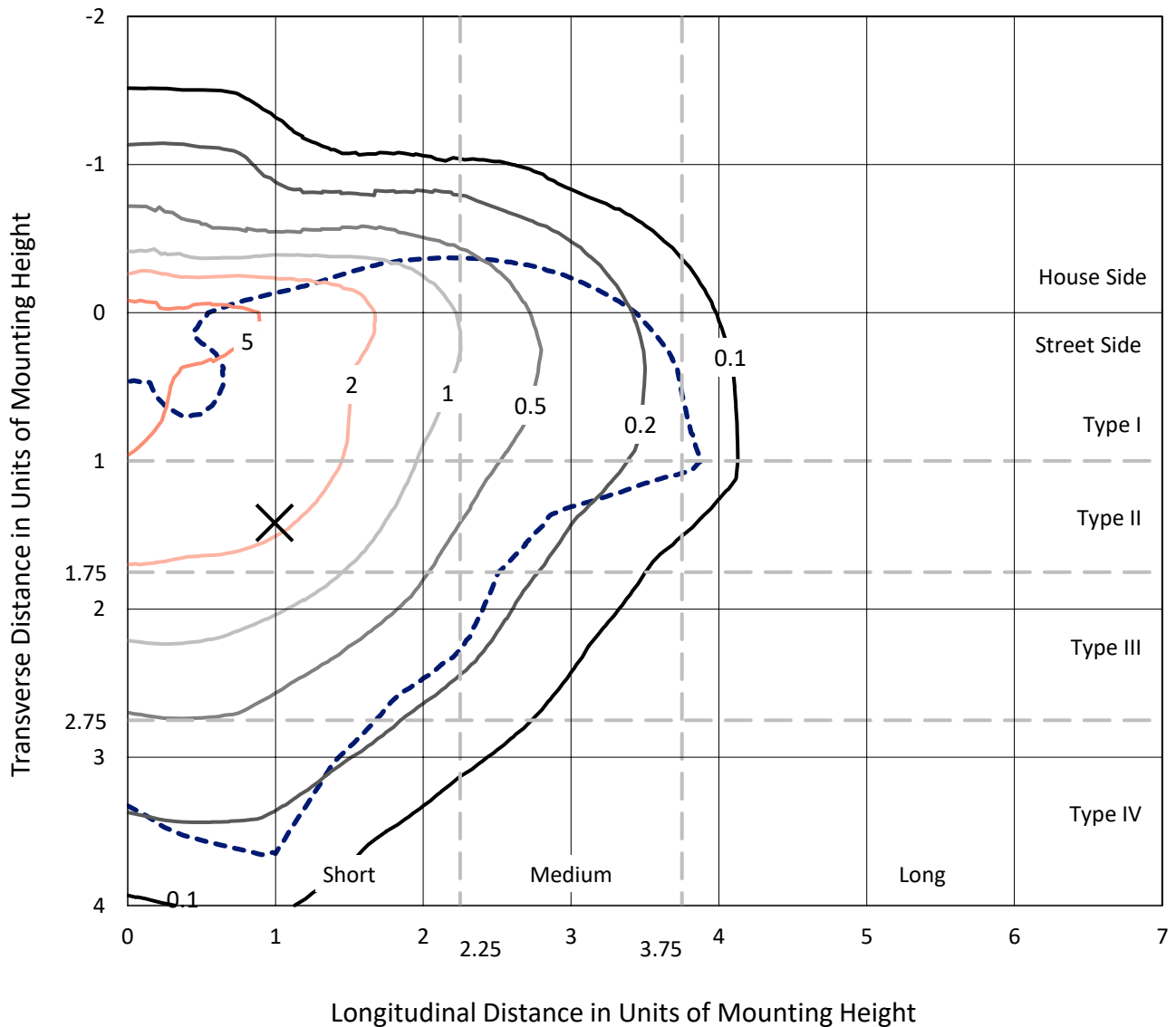
Lumens per Lamp: N/A  
Luminaire Lumens: 5218 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

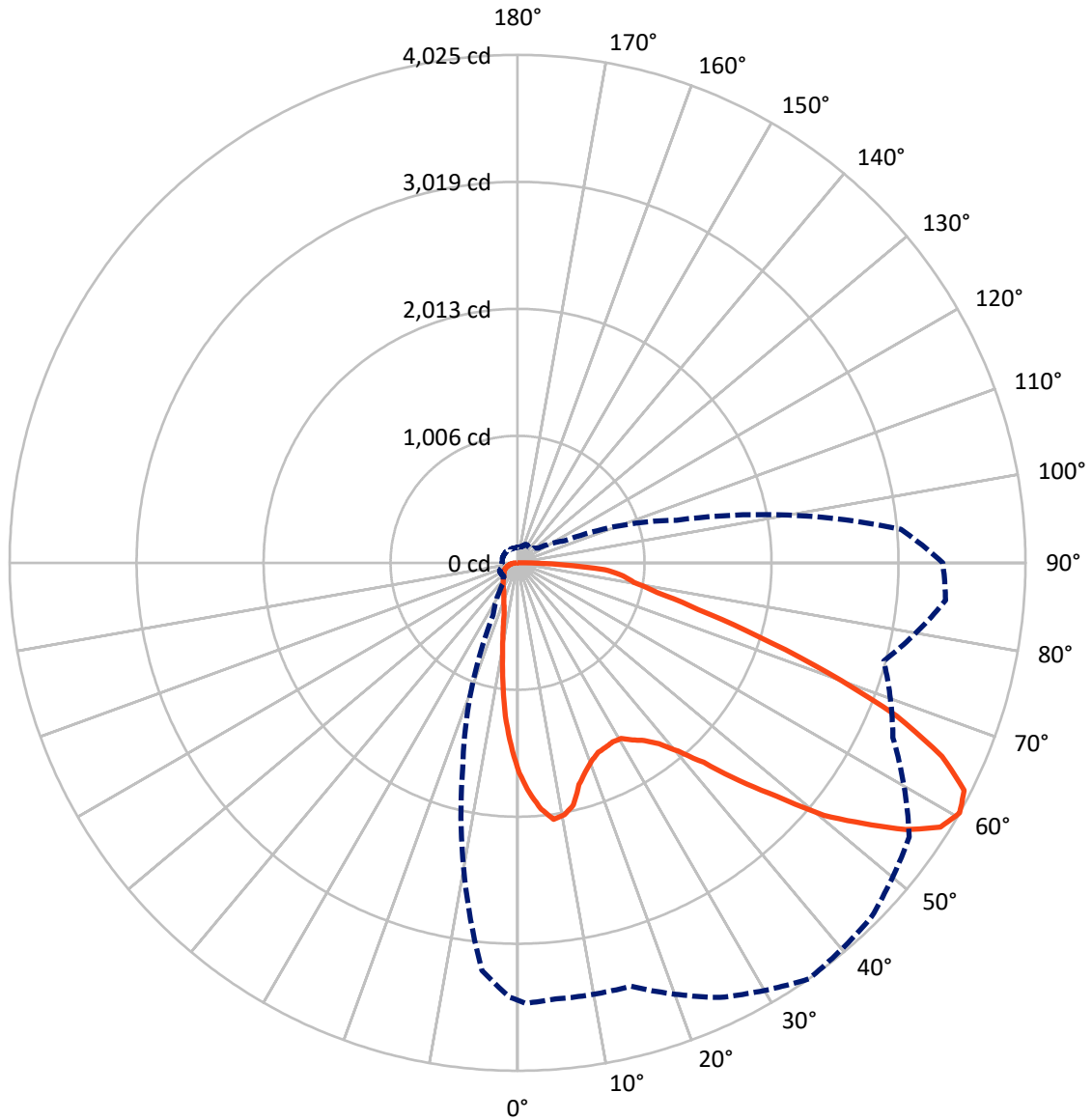
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.4 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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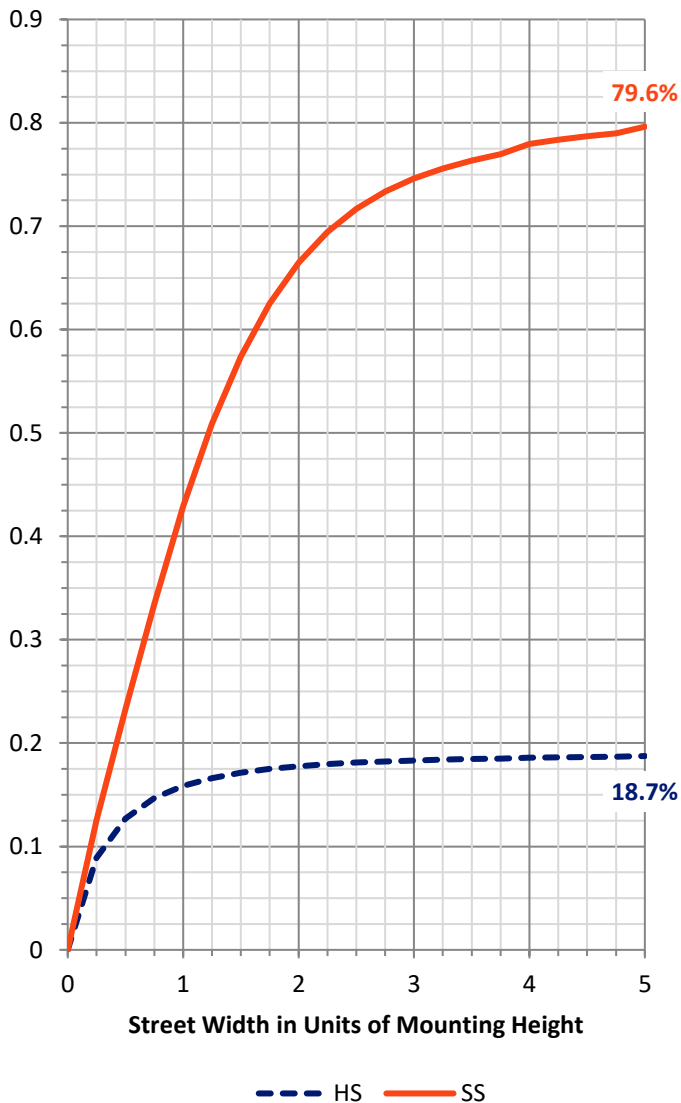
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	993.1	0.0	993.1
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	4224.9	0.0	4224.9
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	5218.0	0.0	5218.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.5	2.5
10°-20°	273.4	5.2
20°-30°	400.0	7.7
30°-40°	563.5	10.8
40°-50°	774.4	14.8
50°-60°	1055.5	20.2
60°-70°	1155.2	22.1
70°-80°	666.9	12.8
80°-90°	199.7	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°	5218.0	100.0
0°-180°	5218.0	100.0

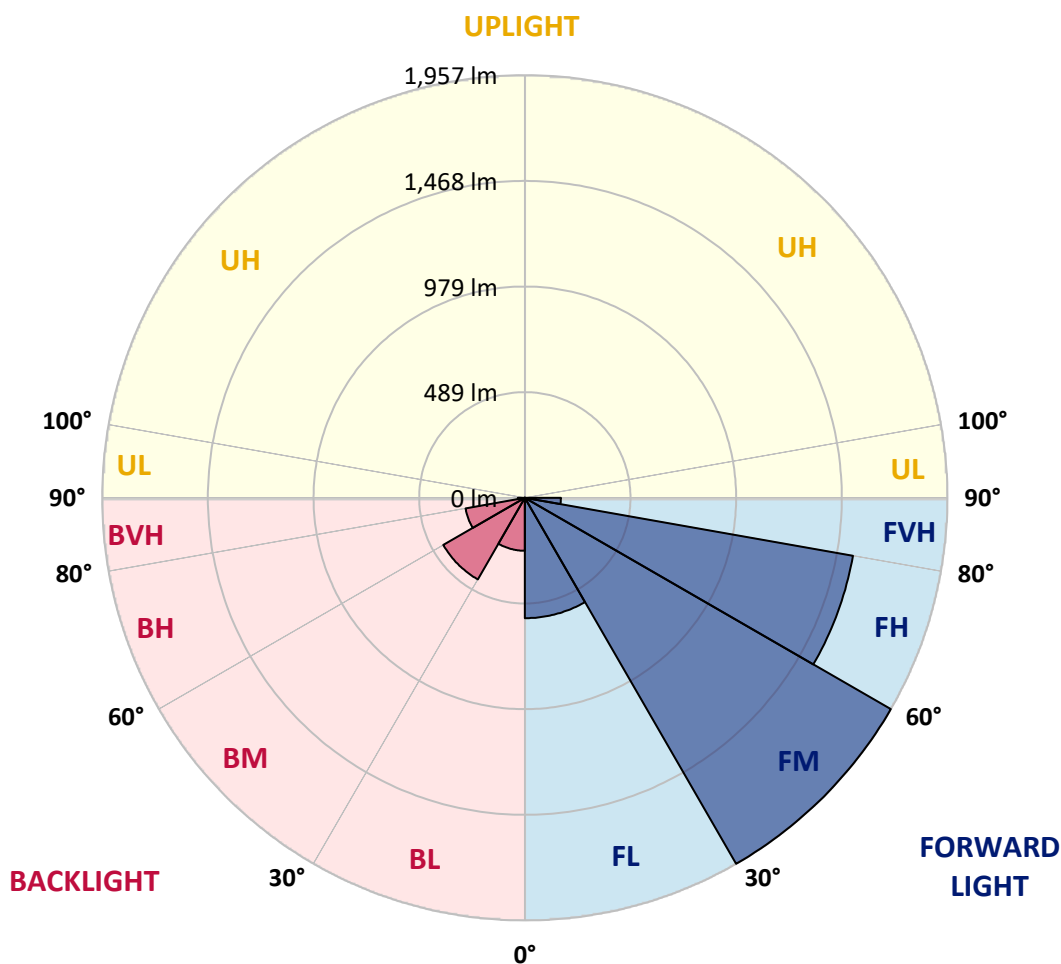


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.4	10.7			
FM (30°-60°)	1957.2	37.5			
FH (60°-80°)	1543.2	29.6			G1/1800
FVH (80°-90°)	167.2	3.2			G2/225
BL (0°-30°)	245.3	4.7	B1/500		
BM (30°-60°)	436.2	8.4	B1/1000		
BH (60°-80°)	278.9	5.3	B1/500		G1/500
BVH (80°-90°)	32.5	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°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1784.6	1777.7	1784.6	1810.1	1817.0	1828.6	1828.6	1812.4	1782.3	1768.4	1745.3
5°	1824.0	1812.4	1870.3	1923.5	1965.2	1960.6	1921.2	1888.8	1828.6	1738.3	1652.7
7.5°	1745.3	1756.9	1798.5	1937.4	2034.6	2053.1	1990.7	1925.8	1796.2	1671.2	1555.5
10°	1597.2	1613.4	1703.6	1847.1	1999.9	2030.0	1990.7	1912.0	1756.9	1601.8	1467.5
12.5°	1525.4	1562.4	1615.7	1789.3	1898.1	1969.8	1951.3	1900.4	1726.8	1543.9	1414.3
15°	1525.4	1534.7	1613.4	1759.2	1821.7	1824.0	1830.9	1840.2	1736.0	1569.4	1395.8
17.5°	1574.0	1599.5	1666.6	1756.9	1768.4	1740.7	1740.7	1780.0	1754.6	1641.1	1462.9
20°	1692.1	1682.8	1770.8	1807.8	1745.3	1675.9	1668.9	1736.0	1775.4	1717.5	1585.6
22.5°	1810.1	1851.8	1923.5	1840.2	1724.5	1631.9	1622.6	1705.9	1837.9	1849.5	1726.8
25°	1988.3	2030.0	2067.0	1965.2	1722.1	1620.3	1627.2	1692.1	1914.3	2036.9	1962.9
27.5°	2180.5	2205.9	2259.2	2101.8	1777.7	1606.4	1613.4	1710.6	1986.0	2159.6	2148.1
30°	2289.2	2317.0	2305.5	2127.2	1814.7	1615.7	1597.2	1736.0	1946.7	2159.6	2268.4
32.5°	2395.7	2379.5	2372.6	2168.9	1861.0	1673.5	1627.2	1789.3	1969.8	2194.3	2423.5
35°	2525.3	2502.2	2483.7	2249.9	1937.4	1729.1	1708.3	1858.7	2020.7	2266.1	2548.5
37.5°	2668.9	2668.9	2578.6	2310.1	2027.7	1819.4	1796.2	1958.2	2101.8	2310.1	2719.8
40°	2837.8	2844.8	2685.1	2391.1	2129.5	1962.9	1955.9	2087.9	2180.5	2374.9	2884.1
42.5°	2962.8	2967.5	2777.7	2421.2	2247.6	2161.9	2192.0	2296.2	2270.7	2432.8	2895.7
45°	3048.5	3025.3	2842.5	2506.8	2377.2	2460.5	2469.8	2499.9	2388.8	2467.5	2942.0
47.5°	3090.1	3085.5	2870.2	2606.4	2650.3	2763.8	2817.0	2775.3	2497.6	2430.4	2942.0
50°	3131.8	3092.5	2895.7	2742.9	2916.5	3145.7	3134.1	3057.7	2648.0	2476.7	2898.0
52.5°	3159.6	3124.9	2946.6	2865.6	3171.2	3430.4	3476.7	3335.5	2823.9	2562.4	2918.8
55°	3259.1	3231.3	3099.4	3032.3	3465.1	3731.3	3738.3	3541.5	3009.1	2703.6	3055.4
57.5°	3379.5	3395.7	3310.0	3268.4	3689.6	3951.2	3925.7	3694.3	3166.5	2874.9	3212.8
60°	3465.1	3490.6	3469.8	3474.4	3800.8	4025.3	3967.4	3789.2	3282.3	3004.5	3404.9
62.5°	3418.8	3469.8	3555.4	3536.9	3805.4	3972.0	3891.0	3664.2	3296.1	3173.5	3550.8
65°	3291.5	3296.1	3462.8	3564.7	3597.1	3696.6	3590.1	3402.6	3152.6	3277.6	3529.9
67.5°	2965.1	3002.2	3152.6	3351.7	3215.1	3238.3	3229.0	2958.2	2935.1	3205.9	3370.2
70°	2617.9	2643.4	2807.7	3041.5	2715.2	2606.4	2627.2	2425.8	2520.7	2983.7	3048.5
72.5°	2164.3	2180.5	2367.9	2574.0	2178.1	1983.7	2032.3	1868.0	2002.2	2611.0	2571.6
75°	1634.2	1664.3	1810.1	2053.1	1604.1	1479.1	1527.7	1460.6	1585.6	2150.4	1995.3
77.5°	1162.0	1138.8	1319.4	1606.4	1206.0	1131.9	1136.5	1148.1	1282.3	1812.4	1432.8
80°	791.6	798.6	960.6	1178.2	946.7	935.1	923.6	1016.2	1076.3	1435.1	1041.6
82.5°	469.9	469.9	648.1	837.9	747.7	842.6	789.3	872.6	842.6	1055.5	682.8
85°	219.9	219.9	333.3	604.1	578.7	694.4	590.3	659.7	622.7	736.1	307.9
87.5°	37.0	32.4	67.1	296.3	238.4	270.8	106.5	351.8	391.2	513.9	76.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1719.8	1703.6	1671.2	1629.6	1594.8	1550.9	1537.0	1506.9	1465.2	1460.6	1442.1
5°	1620.3	1564.7	1495.3	1409.7	1351.8	1291.6	1240.7	1210.6	1175.9	1171.2	1162.0
7.5°	1511.5	1442.1	1326.3	1224.5	1124.9	1030.0	983.8	925.9	886.5	856.4	842.6
10°	1409.7	1344.8	1201.3	1062.5	974.5	912.0	856.4	796.3	747.7	710.6	696.7
12.5°	1342.5	1266.1	1111.1	979.1	914.3	842.6	780.1	715.2	652.7	604.1	578.7
15°	1312.4	1240.7	1083.3	937.5	842.6	743.0	671.3	606.5	530.1	495.3	483.8
17.5°	1384.2	1277.7	1074.0	888.8	754.6	641.2	553.2	483.8	428.2	393.5	379.6
20°	1476.8	1344.8	1090.2	831.0	671.3	544.0	446.7	372.7	335.6	310.2	307.9
22.5°	1594.8	1444.4	1115.7	789.3	578.7	437.5	349.5	305.5	280.1	277.8	273.1
25°	1805.5	1624.9	1157.4	733.8	504.6	361.1	298.6	273.1	261.6	254.6	259.2
27.5°	1986.0	1743.0	1187.4	699.0	474.5	340.3	289.3	261.6	250.0	247.7	250.0
30°	2092.5	1851.8	1178.2	634.2	414.3	324.1	307.9	298.6	275.5	256.9	256.9
32.5°	2189.7	1921.2	1175.9	576.4	354.2	270.8	256.9	250.0	263.9	273.1	266.2
35°	2324.0	2030.0	1168.9	544.0	328.7	250.0	226.8	208.3	199.1	194.4	201.4
37.5°	2467.5	2104.1	1150.4	539.3	314.8	238.4	219.9	201.4	192.1	187.5	185.2
40°	2624.9	2182.8	1129.6	516.2	307.9	231.5	213.0	196.8	185.2	178.2	175.9
42.5°	2726.7	2245.3	1108.7	504.6	294.0	226.8	206.0	192.1	180.5	171.3	171.3
45°	2784.6	2319.3	1087.9	493.0	277.8	229.2	206.0	187.5	173.6	169.0	164.3
47.5°	2810.1	2374.9	1081.0	474.5	263.9	219.9	201.4	182.9	169.0	159.7	157.4
50°	2877.2	2492.9	1106.4	460.6	247.7	210.6	213.0	180.5	166.7	155.1	152.8
52.5°	2916.5	2587.8	1162.0	439.8	236.1	199.1	208.3	175.9	159.7	148.1	148.1
55°	3060.0	2745.2	1222.2	423.6	222.2	182.9	192.1	166.7	148.1	141.2	141.2
57.5°	3242.9	2911.9	1273.1	416.6	213.0	171.3	171.3	162.0	141.2	131.9	129.6
60°	3370.2	3048.5	1303.2	412.0	203.7	159.7	152.8	162.0	134.3	125.0	122.7
62.5°	3384.1	2969.8	1273.1	409.7	201.4	148.1	138.9	155.1	127.3	118.1	113.4
65°	3296.1	2810.1	1189.8	400.4	199.1	136.6	129.6	134.3	118.1	111.1	106.5
67.5°	3120.2	2550.8	1069.4	395.8	196.8	127.3	118.1	115.7	108.8	101.8	97.2
70°	2710.5	2212.9	928.2	375.0	192.1	120.4	106.5	104.2	97.2	92.6	90.3
72.5°	2275.4	1810.1	766.2	347.2	182.9	108.8	97.2	92.6	90.3	83.3	81.0
75°	1743.0	1393.5	613.4	307.9	159.7	97.2	85.6	81.0	78.7	74.1	71.8
77.5°	1224.5	1037.0	453.7	250.0	134.3	88.0	76.4	71.8	69.4	62.5	62.5
80°	831.0	726.8	307.9	173.6	104.2	71.8	67.1	62.5	57.9	53.2	53.2
82.5°	516.2	509.2	222.2	113.4	76.4	57.9	53.2	53.2	46.3	41.7	41.7
85°	236.1	312.5	155.1	78.7	57.9	44.0	44.0	41.7	37.0	30.1	30.1
87.5°	74.1	104.2	81.0	34.7	32.4	25.5	25.5	23.1	23.1	18.5	18.5
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°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1460.6	1458.3	1458.3	1449.0	1472.2	1472.2	1486.0	1474.5	1481.4	1483.7	1502.2
5°	1159.7	1178.2	1192.1	1219.9	1236.1	1243.0	1243.0	1261.5	1254.6	1268.5	1296.2
7.5°	849.5	872.6	914.3	949.0	976.8	986.1	983.8	988.4	995.3	979.1	983.8
10°	687.5	671.3	685.2	717.6	743.0	773.1	750.0	747.7	754.6	747.7	761.5
12.5°	574.0	555.5	544.0	544.0	562.5	576.4	569.4	581.0	606.5	613.4	629.6
15°	465.3	449.1	439.8	428.2	446.7	451.4	458.3	474.5	493.0	502.3	520.8
17.5°	372.7	372.7	372.7	363.4	370.4	377.3	379.6	400.4	402.8	412.0	419.0
20°	305.5	312.5	324.1	328.7	335.6	335.6	331.0	342.6	333.3	340.3	344.9
22.5°	275.5	284.7	289.3	291.7	300.9	303.2	291.7	294.0	296.3	289.3	291.7
25°	259.2	263.9	259.2	261.6	263.9	259.2	261.6	266.2	263.9	268.5	266.2
27.5°	252.3	247.7	245.4	243.0	243.0	238.4	240.7	240.7	245.4	247.7	247.7
30°	252.3	245.4	236.1	229.2	229.2	222.2	226.8	231.5	233.8	238.4	238.4
32.5°	259.2	245.4	229.2	222.2	215.3	210.6	215.3	222.2	231.5	233.8	236.1
35°	206.0	213.0	210.6	201.4	199.1	199.1	196.8	196.8	189.8	189.8	187.5
37.5°	185.2	182.9	187.5	189.8	192.1	185.2	185.2	175.9	173.6	175.9	175.9
40°	173.6	173.6	173.6	180.5	182.9	178.2	171.3	166.7	166.7	166.7	169.0
42.5°	169.0	164.3	162.0	166.7	173.6	169.0	162.0	159.7	159.7	162.0	162.0
45°	162.0	159.7	157.4	155.1	164.3	157.4	155.1	152.8	152.8	152.8	155.1
47.5°	155.1	152.8	148.1	148.1	150.5	148.1	145.8	145.8	145.8	150.5	150.5
50°	150.5	148.1	143.5	143.5	143.5	143.5	141.2	141.2	141.2	143.5	145.8
52.5°	143.5	141.2	138.9	136.6	136.6	136.6	136.6	136.6	136.6	138.9	141.2
55°	136.6	134.3	131.9	131.9	134.3	134.3	131.9	134.3	131.9	134.3	136.6
57.5°	129.6	127.3	125.0	127.3	129.6	127.3	127.3	127.3	127.3	127.3	129.6
60°	120.4	120.4	120.4	120.4	125.0	125.0	125.0	125.0	120.4	122.7	125.0
62.5°	115.7	113.4	113.4	115.7	118.1	118.1	120.4	118.1	115.7	118.1	118.1
65°	106.5	106.5	106.5	108.8	108.8	111.1	111.1	111.1	108.8	111.1	111.1
67.5°	99.5	99.5	99.5	99.5	104.2	104.2	104.2	104.2	101.8	101.8	104.2
70°	88.0	90.3	88.0	92.6	97.2	94.9	97.2	97.2	94.9	92.6	97.2
72.5°	81.0	81.0	81.0	81.0	88.0	88.0	88.0	90.3	88.0	85.6	88.0
75°	71.8	71.8	71.8	74.1	78.7	78.7	78.7	78.7	78.7	76.4	76.4
77.5°	62.5	64.8	62.5	64.8	69.4	67.1	69.4	71.8	69.4	67.1	67.1
80°	53.2	53.2	53.2	55.6	57.9	57.9	57.9	60.2	57.9	55.6	55.6
82.5°	41.7	41.7	44.0	44.0	46.3	46.3	46.3	48.6	46.3	44.0	44.0
85°	32.4	32.4	32.4	34.7	34.7	37.0	37.0	39.4	39.4	37.0	37.0
87.5°	20.8	18.5	20.8	20.8	23.1	23.1	20.8	18.5	20.8	18.5	16.2
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°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1520.8	1562.4	1592.5	1613.4	1643.4	1701.3	1724.5	1766.1	1777.7	1784.6
5°	1307.8	1351.8	1416.6	1462.9	1516.1	1624.9	1708.3	1770.8	1798.5	1824.0
7.5°	1025.4	1083.3	1150.4	1210.6	1298.6	1432.8	1541.6	1671.2	1719.8	1745.3
10°	800.9	854.1	928.2	1002.3	1124.9	1238.4	1393.5	1511.5	1578.6	1597.2
12.5°	675.9	738.4	826.4	916.6	993.0	1122.6	1280.0	1451.3	1513.8	1525.4
15°	574.0	659.7	750.0	842.6	930.5	1043.9	1212.9	1421.2	1513.8	1525.4
17.5°	474.5	550.9	657.4	756.9	858.8	1013.8	1224.5	1446.7	1539.3	1574.0
20°	377.3	451.4	534.7	659.7	798.6	962.9	1249.9	1532.3	1655.0	1692.1
22.5°	312.5	344.9	425.9	546.3	710.6	928.2	1275.4	1666.6	1796.2	1810.1
25°	273.1	296.3	347.2	460.6	641.2	905.1	1335.6	1821.7	1988.3	1988.3
27.5°	254.6	263.9	298.6	400.4	592.6	884.2	1395.8	1993.0	2148.1	2180.5
30°	250.0	273.1	291.7	356.5	539.3	826.4	1451.3	2127.2	2286.9	2289.2
32.5°	245.4	240.7	254.6	310.2	474.5	766.2	1497.6	2263.8	2388.8	2395.7
35°	192.1	201.4	224.5	273.1	425.9	722.2	1520.8	2337.9	2518.4	2525.3
37.5°	180.5	192.1	210.6	252.3	393.5	685.2	1527.7	2481.4	2655.0	2668.9
40°	175.9	185.2	199.1	233.8	368.0	638.9	1541.6	2629.5	2856.4	2837.8
42.5°	166.7	178.2	192.1	224.5	347.2	604.1	1543.9	2710.5	2962.8	2962.8
45°	164.3	171.3	187.5	224.5	324.1	574.0	1506.9	2791.5	3085.5	3048.5
47.5°	155.1	169.0	182.9	217.6	296.3	544.0	1462.9	2833.2	3101.7	3090.1
50°	152.8	166.7	189.8	206.0	280.1	530.1	1453.6	2937.4	3134.1	3131.8
52.5°	148.1	162.0	196.8	196.8	259.2	511.6	1497.6	2983.7	3141.1	3159.6
55°	141.2	162.0	182.9	180.5	240.7	488.4	1546.2	3104.0	3263.7	3259.1
57.5°	136.6	157.4	173.6	164.3	219.9	472.2	1618.0	3219.8	3411.9	3379.5
60°	129.6	157.4	155.1	152.8	203.7	458.3	1678.2	3242.9	3444.3	3465.1
62.5°	125.0	164.3	136.6	141.2	189.8	451.4	1652.7	3069.3	3400.3	3418.8
65°	120.4	141.2	125.0	129.6	185.2	437.5	1553.2	2861.0	3210.5	3291.5
67.5°	111.1	115.7	115.7	120.4	180.5	405.1	1349.5	2486.0	2921.2	2965.1
70°	101.8	104.2	104.2	111.1	175.9	368.0	1113.4	2150.4	2534.6	2617.9
72.5°	92.6	92.6	92.6	101.8	162.0	337.9	916.6	1652.7	2106.4	2164.3
75°	81.0	81.0	81.0	90.3	145.8	307.9	722.2	1229.1	1550.9	1634.2
77.5°	71.8	71.8	69.4	81.0	127.3	250.0	520.8	868.0	1092.5	1162.0
80°	60.2	57.9	57.9	64.8	99.5	180.5	335.6	613.4	761.5	791.6
82.5°	48.6	46.3	44.0	48.6	71.8	113.4	208.3	428.2	488.4	469.9
85°	46.3	48.6	39.4	37.0	50.9	74.1	131.9	263.9	219.9	219.9
87.5°	18.5	16.2	16.2	13.9	25.5	27.8	57.9	48.6	37.0	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)