

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: P675818

Luminaire Tested: **CCW-SA-2D-727-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675818  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-727-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SLL distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

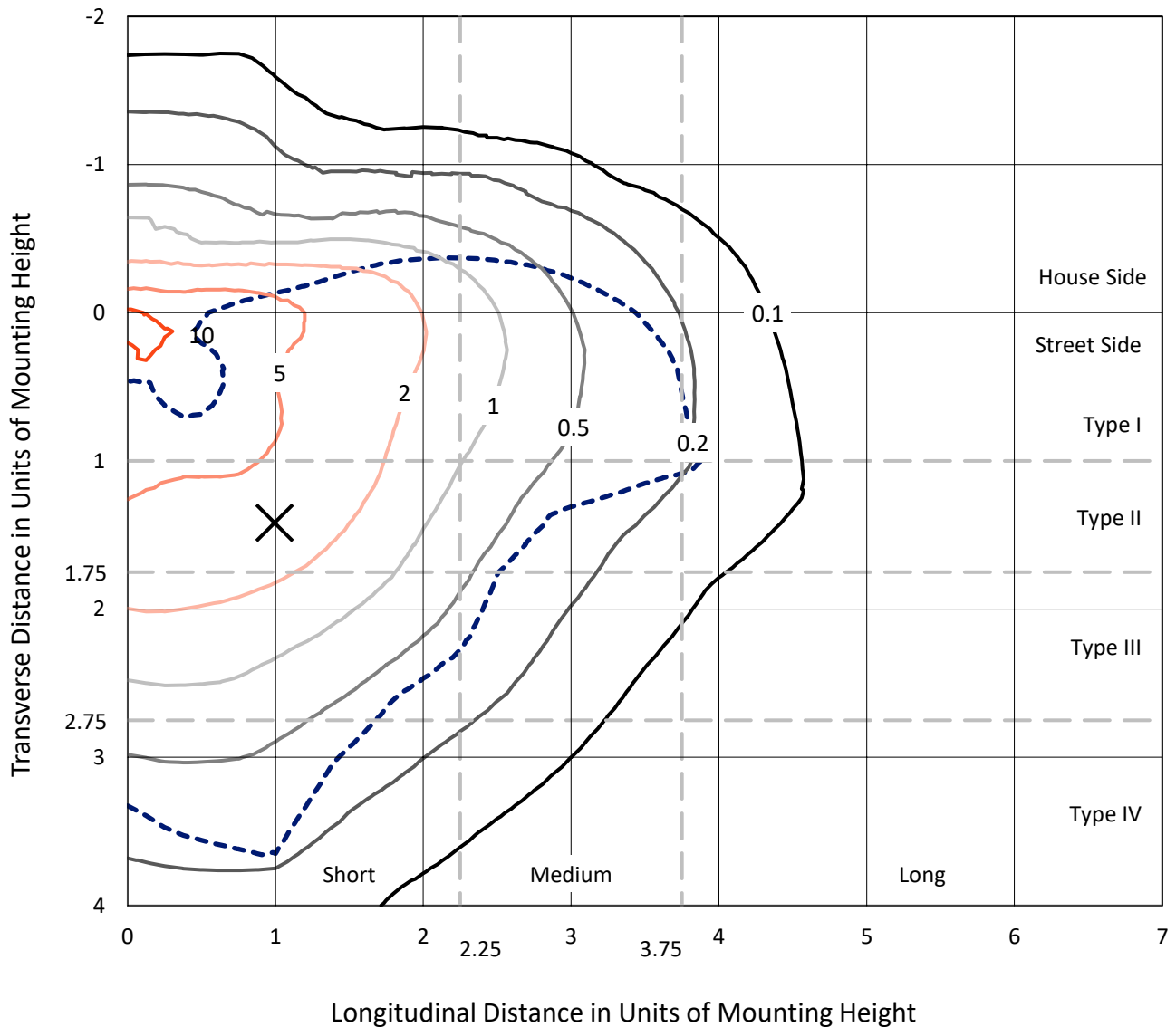
Lumens per Lamp: N/A  
Luminaire Lumens: 7738.9 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8  
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

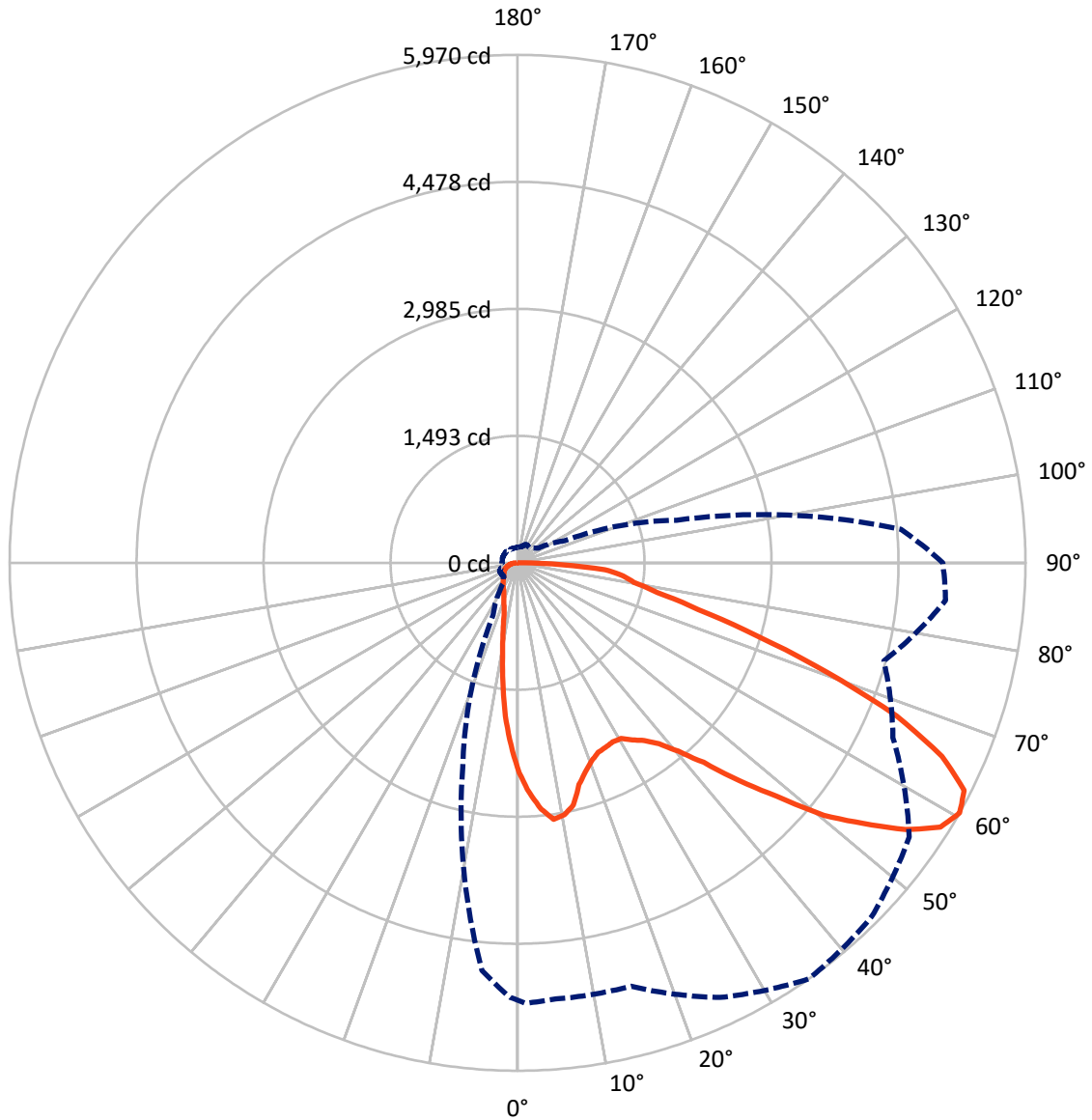
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.5 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	1472.8	0.0	1472.8
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	6266.1	0.0	6266.1
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	7738.9	0.0	7738.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.0	2.5
10°-20°	405.4	5.2
20°-30°	593.2	7.7
30°-40°	835.8	10.8
40°-50°	1148.6	14.8
50°-60°	1565.4	20.2
60°-70°	1713.2	22.1
70°-80°	989.1	12.8
80°-90°	296.2	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°	7738.9	100.0
0°-180°	7738.9	100.0

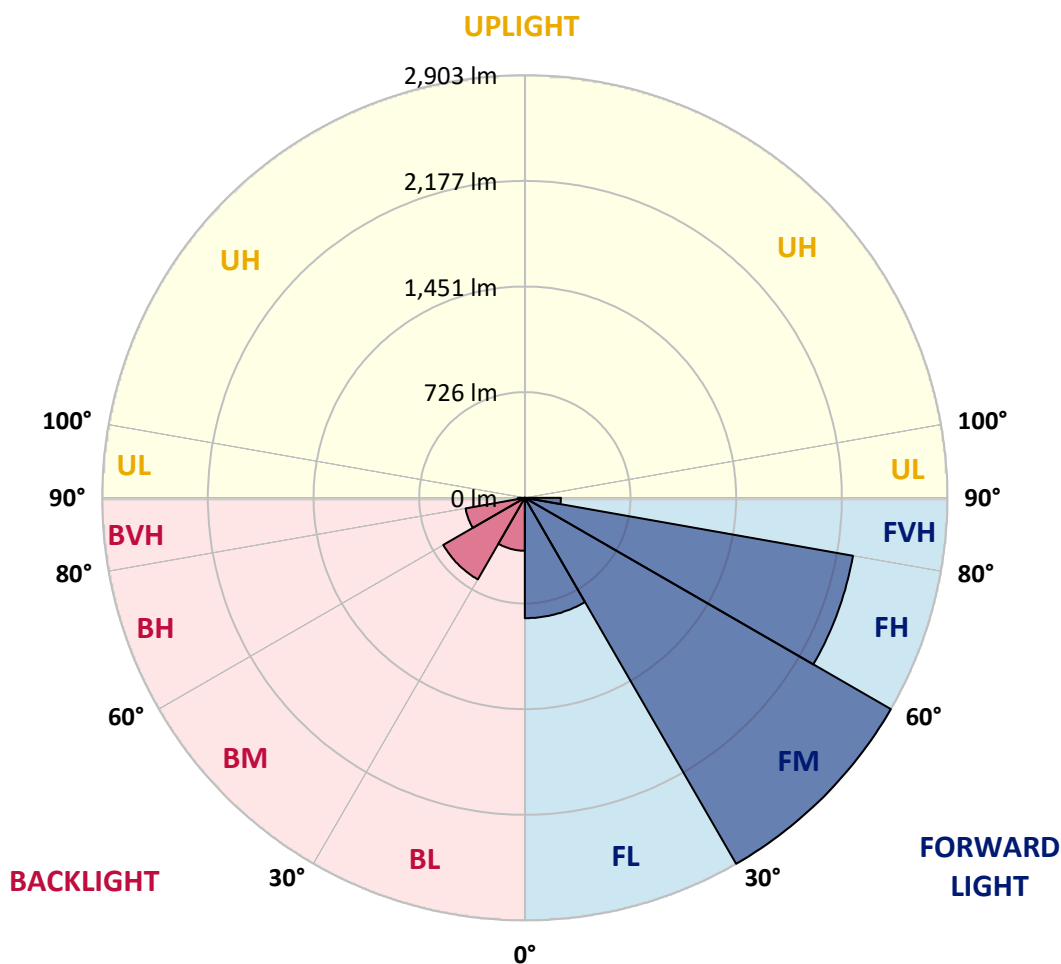


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.7	10.7			
FM (30°-60°)	2902.7	37.5			
FH (60°-80°)	2288.7	29.6			G2/5000
FVH (80°-90°)	247.9	3.2			G3/500
BL (0°-30°)	363.9	4.7	B1/500		
BM (30°-60°)	647.0	8.4	B1/1000		
BH (60°-80°)	413.7	5.3	B1/500		G1/500
BVH (80°-90°)	48.3	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-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8
2.5°	2646.8	2636.6	2646.8	2684.6	2694.9	2712.1	2712.1	2688.0	2643.4	2622.8	2588.5
5°	2705.2	2688.0	2773.9	2852.8	2914.6	2907.8	2849.4	2801.3	2712.1	2578.2	2451.2
7.5°	2588.5	2605.7	2667.4	2873.4	3017.6	3045.1	2952.4	2856.3	2664.0	2478.6	2307.0
10°	2368.8	2392.8	2526.7	2739.5	2966.1	3010.7	2952.4	2835.7	2605.7	2375.6	2176.5
12.5°	2262.4	2317.3	2396.2	2653.7	2815.1	2921.5	2894.0	2818.5	2561.0	2289.8	2097.6
15°	2262.4	2276.1	2392.8	2609.1	2701.8	2705.2	2715.5	2729.2	2574.8	2327.6	2070.1
17.5°	2334.4	2372.2	2471.8	2605.7	2622.8	2581.6	2581.6	2640.0	2602.2	2434.0	2169.7
20°	2509.5	2495.8	2626.3	2681.2	2588.5	2485.5	2475.2	2574.8	2633.1	2547.3	2351.6
22.5°	2684.6	2746.4	2852.8	2729.2	2557.6	2420.3	2406.5	2530.1	2725.8	2743.0	2561.0
25°	2949.0	3010.7	3065.7	2914.6	2554.2	2403.1	2413.4	2509.5	2839.1	3021.0	2911.2
27.5°	3233.9	3271.7	3350.6	3117.2	2636.6	2382.5	2392.8	2537.0	2945.5	3203.0	3185.8
30°	3395.2	3436.4	3419.3	3154.9	2691.5	2396.2	2368.8	2574.8	2887.2	3203.0	3364.3
32.5°	3553.2	3529.1	3518.8	3216.7	2760.1	2482.1	2413.4	2653.7	2921.5	3254.5	3594.4
35°	3745.4	3711.1	3683.6	3336.9	2873.4	2564.5	2533.6	2756.7	2997.0	3360.9	3779.7
37.5°	3958.3	3958.3	3824.4	3426.1	3007.3	2698.3	2664.0	2904.3	3117.2	3426.1	4033.8
40°	4208.9	4219.2	3982.3	3546.3	3158.4	2911.2	2900.9	3096.6	3233.9	3522.3	4277.5
42.5°	4394.3	4401.1	4119.6	3590.9	3333.5	3206.4	3251.1	3405.5	3367.8	3608.1	4294.7
45°	4521.3	4486.9	4215.7	3717.9	3525.7	3649.3	3663.0	3707.6	3542.9	3659.6	4363.4
47.5°	4583.1	4576.2	4256.9	3865.6	3930.8	4099.0	4178.0	4116.2	3704.2	3604.7	4363.4
50°	4644.9	4586.5	4294.7	4068.1	4325.6	4665.5	4648.3	4535.0	3927.4	3673.3	4298.1
52.5°	4686.1	4634.6	4370.2	4250.1	4703.2	5087.7	5156.4	4947.0	4188.3	3800.3	4329.0
55°	4833.7	4792.5	4596.8	4497.2	5139.2	5534.0	5544.3	5252.5	4462.9	4009.8	4531.6
57.5°	5012.2	5036.2	4909.2	4847.4	5472.2	5860.1	5822.4	5479.1	4696.4	4263.8	4765.0
60°	5139.2	5177.0	5146.1	5152.9	5637.0	5970.0	5884.2	5619.8	4868.0	4456.0	5050.0
62.5°	5070.6	5146.1	5273.1	5245.6	5643.9	5891.0	5770.9	5434.5	4888.6	4706.7	5266.2
65°	4881.7	4888.6	5135.8	5286.8	5334.9	5482.5	5324.6	5046.5	4675.8	4861.1	5235.3
67.5°	4397.7	4452.6	4675.8	4971.0	4768.4	4802.8	4789.0	4387.4	4353.1	4754.7	4998.5
70°	3882.7	3920.5	4164.2	4511.0	4026.9	3865.6	3896.5	3597.8	3738.5	4425.1	4521.3
72.5°	3209.9	3233.9	3512.0	3817.5	3230.5	2942.1	3014.2	2770.4	2969.6	3872.4	3814.1
75°	2423.7	2468.3	2684.6	3045.1	2379.1	2193.7	2265.8	2166.2	2351.6	3189.3	2959.3
77.5°	1723.4	1689.0	1956.8	2382.5	1788.6	1678.7	1685.6	1702.8	1901.9	2688.0	2125.0
80°	1174.1	1184.4	1424.7	1747.4	1404.1	1386.9	1369.8	1507.1	1596.3	2128.5	1544.9
82.5°	696.9	696.9	961.2	1242.7	1108.9	1249.6	1170.7	1294.2	1249.6	1565.5	1012.7
85°	326.1	326.1	494.4	896.0	858.3	1029.9	875.4	978.4	923.5	1091.7	456.6
87.5°	54.9	48.1	99.6	439.4	353.6	401.7	157.9	521.8	580.2	762.1	113.3
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°	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8
2.5°	2550.7	2526.7	2478.6	2416.8	2365.3	2300.1	2279.5	2234.9	2173.1	2166.2	2138.8
5°	2403.1	2320.7	2217.7	2090.7	2004.9	1915.6	1840.1	1795.5	1744.0	1737.1	1723.4
7.5°	2241.8	2138.8	1967.1	1816.1	1668.4	1527.7	1459.0	1373.2	1314.8	1270.2	1249.6
10°	2090.7	1994.6	1781.7	1575.8	1445.3	1352.6	1270.2	1181.0	1108.9	1053.9	1033.3
12.5°	1991.1	1877.9	1647.8	1452.2	1356.0	1249.6	1156.9	1060.8	968.1	896.0	858.3
15°	1946.5	1840.1	1606.6	1390.4	1249.6	1102.0	995.6	899.4	786.2	734.7	717.5
17.5°	2052.9	1895.0	1592.9	1318.3	1119.2	950.9	820.5	717.5	635.1	583.6	563.0
20°	2190.3	1994.6	1616.9	1232.5	995.6	806.8	662.6	552.7	497.8	460.0	456.6
22.5°	2365.3	2142.2	1654.7	1170.7	858.3	648.8	518.4	453.2	415.4	412.0	405.1
25°	2677.7	2410.0	1716.5	1088.3	748.4	535.5	442.9	405.1	387.9	377.6	384.5
27.5°	2945.5	2585.1	1761.1	1036.8	703.8	504.7	429.1	387.9	370.8	367.3	370.8
30°	3103.4	2746.4	1747.4	940.6	614.5	480.6	456.6	442.9	408.5	381.1	381.1
32.5°	3247.6	2849.4	1744.0	854.8	525.3	401.7	381.1	370.8	391.4	405.1	394.8
35°	3446.7	3010.7	1733.7	806.8	487.5	370.8	336.4	309.0	295.2	288.4	298.7
37.5°	3659.6	3120.6	1706.2	799.9	466.9	353.6	326.1	298.7	284.9	278.1	274.6
40°	3893.0	3237.3	1675.3	765.6	456.6	343.3	315.8	291.8	274.6	264.3	260.9
42.5°	4044.1	3330.0	1644.4	748.4	436.0	336.4	305.5	284.9	267.8	254.0	254.0
45°	4129.9	3439.9	1613.5	731.2	412.0	339.9	305.5	278.1	257.5	250.6	243.7
47.5°	4167.7	3522.3	1603.2	703.8	391.4	326.1	298.7	271.2	250.6	236.9	233.4
50°	4267.2	3697.4	1641.0	683.2	367.3	312.4	315.8	267.8	247.2	230.0	226.6
52.5°	4325.6	3838.1	1723.4	652.3	350.2	295.2	309.0	260.9	236.9	219.7	219.7
55°	4538.4	4071.5	1812.6	628.2	329.6	271.2	284.9	247.2	219.7	209.4	209.4
57.5°	4809.6	4318.7	1888.2	617.9	315.8	254.0	254.0	240.3	209.4	195.7	192.2
60°	4998.5	4521.3	1932.8	611.1	302.1	236.9	226.6	240.3	199.1	185.4	181.9
62.5°	5019.1	4404.6	1888.2	607.6	298.7	219.7	206.0	230.0	188.8	175.1	168.2
65°	4888.6	4167.7	1764.6	593.9	295.2	202.5	192.2	199.1	175.1	164.8	157.9
67.5°	4627.7	3783.2	1586.1	587.0	291.8	188.8	175.1	171.7	161.4	151.1	144.2
70°	4020.1	3282.0	1376.6	556.1	284.9	178.5	157.9	154.5	144.2	137.3	133.9
72.5°	3374.6	2684.6	1136.3	515.0	271.2	161.4	144.2	137.3	133.9	123.6	120.2
75°	2585.1	2066.7	909.7	456.6	236.9	144.2	127.0	120.2	116.7	109.9	106.4
77.5°	1816.1	1538.0	672.9	370.8	199.1	130.5	113.3	106.4	103.0	92.7	92.7
80°	1232.5	1078.0	456.6	257.5	154.5	106.4	99.6	92.7	85.8	79.0	79.0
82.5°	765.6	755.3	329.6	168.2	113.3	85.8	79.0	79.0	68.7	61.8	61.8
85°	350.2	463.5	230.0	116.7	85.8	65.2	65.2	61.8	54.9	44.6	44.6
87.5°	109.9	154.5	120.2	51.5	48.1	37.8	37.8	34.3	34.3	27.5	27.5
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°	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8
2.5°	2166.2	2162.8	2162.8	2149.1	2183.4	2183.4	2204.0	2186.8	2197.1	2200.6	2228.0
5°	1719.9	1747.4	1768.0	1809.2	1833.2	1843.5	1843.5	1871.0	1860.7	1881.3	1922.5
7.5°	1259.9	1294.2	1356.0	1407.5	1448.7	1462.5	1459.0	1465.9	1476.2	1452.2	1459.0
10°	1019.6	995.6	1016.2	1064.2	1102.0	1146.6	1112.3	1108.9	1119.2	1108.9	1129.5
12.5°	851.4	823.9	806.8	806.8	834.2	854.8	844.5	861.7	899.4	909.7	933.8
15°	690.0	666.0	652.3	635.1	662.6	669.4	679.7	703.8	731.2	745.0	772.4
17.5°	552.7	552.7	552.7	539.0	549.3	559.6	563.0	593.9	597.3	611.1	621.4
20°	453.2	463.5	480.6	487.5	497.8	497.8	490.9	508.1	494.4	504.7	511.5
22.5°	408.5	422.3	429.1	432.6	446.3	449.7	432.6	436.0	439.4	429.1	432.6
25°	384.5	391.4	384.5	387.9	391.4	384.5	387.9	394.8	391.4	398.2	394.8
27.5°	374.2	367.3	363.9	360.5	360.5	353.6	357.0	357.0	363.9	367.3	367.3
30°	374.2	363.9	350.2	339.9	339.9	329.6	336.4	343.3	346.7	353.6	353.6
32.5°	384.5	363.9	339.9	329.6	319.3	312.4	319.3	329.6	343.3	346.7	350.2
35°	305.5	315.8	312.4	298.7	295.2	295.2	291.8	291.8	281.5	281.5	278.1
37.5°	274.6	271.2	278.1	281.5	284.9	274.6	274.6	260.9	257.5	260.9	260.9
40°	257.5	257.5	257.5	267.8	271.2	264.3	254.0	247.2	247.2	247.2	250.6
42.5°	250.6	243.7	240.3	247.2	257.5	250.6	240.3	236.9	236.9	240.3	240.3
45°	240.3	236.9	233.4	230.0	243.7	233.4	230.0	226.6	226.6	226.6	230.0
47.5°	230.0	226.6	219.7	219.7	223.1	219.7	216.3	216.3	216.3	223.1	223.1
50°	223.1	219.7	212.8	212.8	212.8	212.8	209.4	209.4	209.4	212.8	216.3
52.5°	212.8	209.4	206.0	202.5	202.5	202.5	202.5	202.5	202.5	206.0	209.4
55°	202.5	199.1	195.7	195.7	199.1	199.1	195.7	199.1	195.7	199.1	202.5
57.5°	192.2	188.8	185.4	188.8	192.2	188.8	188.8	188.8	188.8	188.8	192.2
60°	178.5	178.5	178.5	178.5	185.4	185.4	185.4	185.4	178.5	181.9	185.4
62.5°	171.7	168.2	168.2	171.7	175.1	175.1	178.5	175.1	171.7	175.1	175.1
65°	157.9	157.9	157.9	161.4	161.4	164.8	164.8	164.8	161.4	164.8	164.8
67.5°	147.6	147.6	147.6	147.6	154.5	154.5	154.5	154.5	151.1	151.1	154.5
70°	130.5	133.9	130.5	137.3	144.2	140.8	144.2	144.2	140.8	137.3	144.2
72.5°	120.2	120.2	120.2	120.2	130.5	130.5	130.5	133.9	130.5	127.0	130.5
75°	106.4	106.4	106.4	109.9	116.7	116.7	116.7	116.7	116.7	113.3	113.3
77.5°	92.7	96.1	92.7	96.1	103.0	99.6	103.0	106.4	103.0	99.6	99.6
80°	79.0	79.0	79.0	82.4	85.8	85.8	85.8	89.3	85.8	82.4	82.4
82.5°	61.8	61.8	65.2	65.2	68.7	68.7	68.7	72.1	68.7	65.2	65.2
85°	48.1	48.1	48.1	51.5	51.5	54.9	54.9	58.4	58.4	54.9	54.9
87.5°	30.9	27.5	30.9	30.9	34.3	34.3	30.9	27.5	30.9	27.5	24.0
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°	359°	360°
0°	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8	2471.8
2.5°	2255.5	2317.3	2361.9	2392.8	2437.4	2523.3	2557.6	2619.4	2636.6	2646.8
5°	1939.6	2004.9	2101.0	2169.7	2248.6	2410.0	2533.6	2626.3	2667.4	2705.2
7.5°	1520.8	1606.6	1706.2	1795.5	1925.9	2125.0	2286.4	2478.6	2550.7	2588.5
10°	1187.8	1266.8	1376.6	1486.5	1668.4	1836.7	2066.7	2241.8	2341.3	2368.8
12.5°	1002.4	1095.1	1225.6	1359.5	1472.8	1665.0	1898.5	2152.5	2245.2	2262.4
15°	851.4	978.4	1112.3	1249.6	1380.1	1548.3	1798.9	2107.9	2245.2	2262.4
17.5°	703.8	817.1	975.0	1122.6	1273.6	1503.7	1816.1	2145.6	2283.0	2334.4
20°	559.6	669.4	793.0	978.4	1184.4	1428.1	1853.8	2272.7	2454.6	2509.5
22.5°	463.5	511.5	631.7	810.2	1053.9	1376.6	1891.6	2471.8	2664.0	2684.6
25°	405.1	439.4	515.0	683.2	950.9	1342.3	1980.8	2701.8	2949.0	2949.0
27.5°	377.6	391.4	442.9	593.9	878.9	1311.4	2070.1	2955.8	3185.8	3233.9
30°	370.8	405.1	432.6	528.7	799.9	1225.6	2152.5	3154.9	3391.8	3395.2
32.5°	363.9	357.0	377.6	460.0	703.8	1136.3	2221.2	3357.5	3542.9	3553.2
35°	284.9	298.7	333.0	405.1	631.7	1071.1	2255.5	3467.3	3735.1	3745.4
37.5°	267.8	284.9	312.4	374.2	583.6	1016.2	2265.8	3680.2	3937.7	3958.3
40°	260.9	274.6	295.2	346.7	545.8	947.5	2286.4	3899.9	4236.3	4208.9
42.5°	247.2	264.3	284.9	333.0	515.0	896.0	2289.8	4020.1	4394.3	4394.3
45°	243.7	254.0	278.1	333.0	480.6	851.4	2234.9	4140.2	4576.2	4521.3
47.5°	230.0	250.6	271.2	322.7	439.4	806.8	2169.7	4202.0	4600.2	4583.1
50°	226.6	247.2	281.5	305.5	415.4	786.2	2155.9	4356.5	4648.3	4644.9
52.5°	219.7	240.3	291.8	291.8	384.5	758.7	2221.2	4425.1	4658.6	4686.1
55°	209.4	240.3	271.2	267.8	357.0	724.4	2293.2	4603.7	4840.5	4833.7
57.5°	202.5	233.4	257.5	243.7	326.1	700.3	2399.7	4775.3	5060.3	5012.2
60°	192.2	233.4	230.0	226.6	302.1	679.7	2488.9	4809.6	5108.3	5139.2
62.5°	185.4	243.7	202.5	209.4	281.5	669.4	2451.2	4552.2	5043.1	5070.6
65°	178.5	209.4	185.4	192.2	274.6	648.8	2303.5	4243.2	4761.6	4881.7
67.5°	164.8	171.7	171.7	178.5	267.8	600.8	2001.4	3687.1	4332.5	4397.7
70°	151.1	154.5	154.5	164.8	260.9	545.8	1651.3	3189.3	3759.1	3882.7
72.5°	137.3	137.3	137.3	151.1	240.3	501.2	1359.5	2451.2	3124.0	3209.9
75°	120.2	120.2	120.2	133.9	216.3	456.6	1071.1	1822.9	2300.1	2423.7
77.5°	106.4	106.4	103.0	120.2	188.8	370.8	772.4	1287.4	1620.4	1723.4
80°	89.3	85.8	85.8	96.1	147.6	267.8	497.8	909.7	1129.5	1174.1
82.5°	72.1	68.7	65.2	72.1	106.4	168.2	309.0	635.1	724.4	696.9
85°	68.7	72.1	58.4	54.9	75.5	109.9	195.7	391.4	326.1	326.1
87.5°	27.5	24.0	24.0	20.6	37.8	41.2	85.8	72.1	54.9	54.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)