

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: P676089

Luminaire Tested: **CCW-SA-1D-722-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676089  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-722-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T1 distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

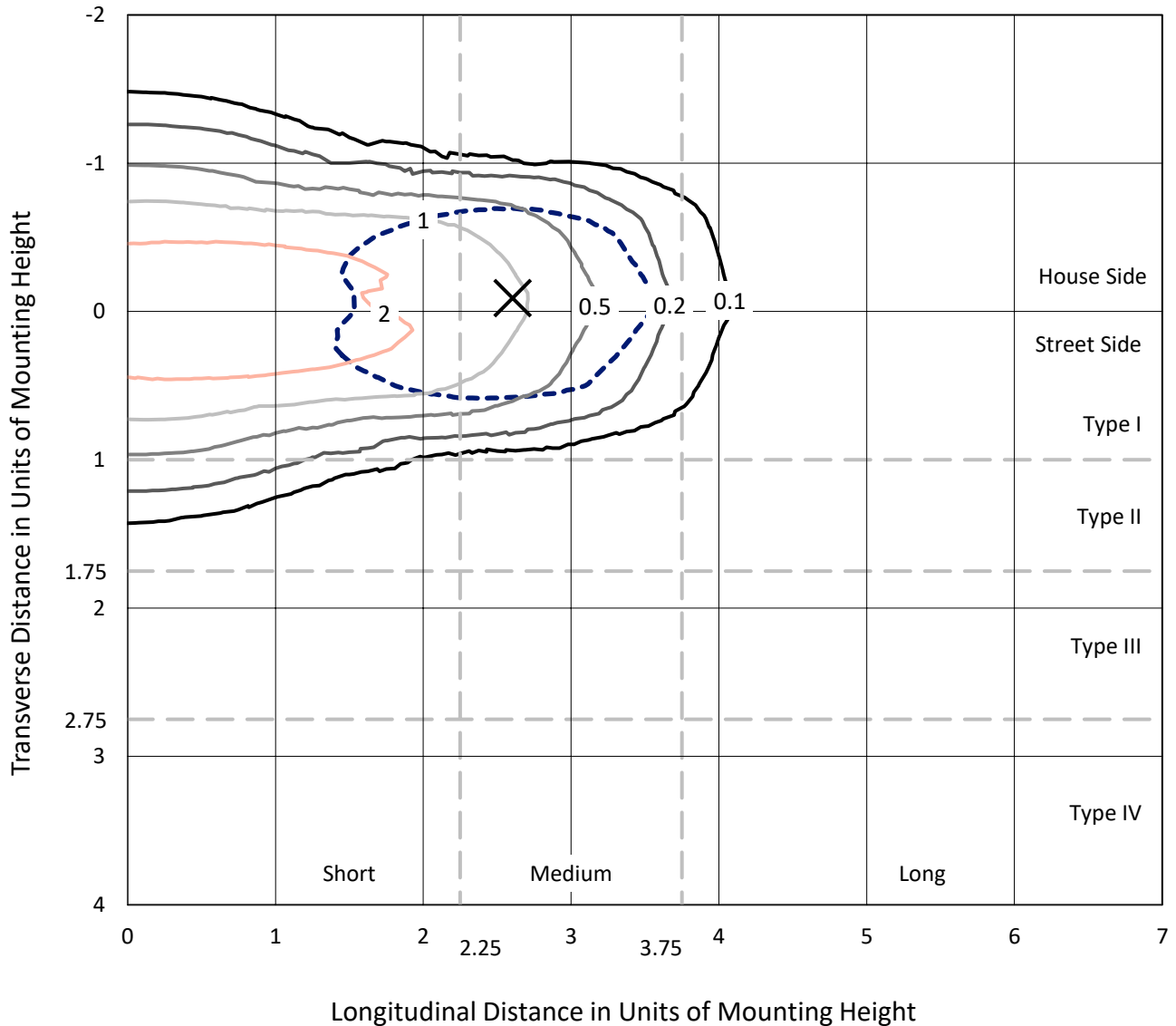
Lumens per Lamp: N/A  
Luminaire Lumens: 4000.2 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 44  
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

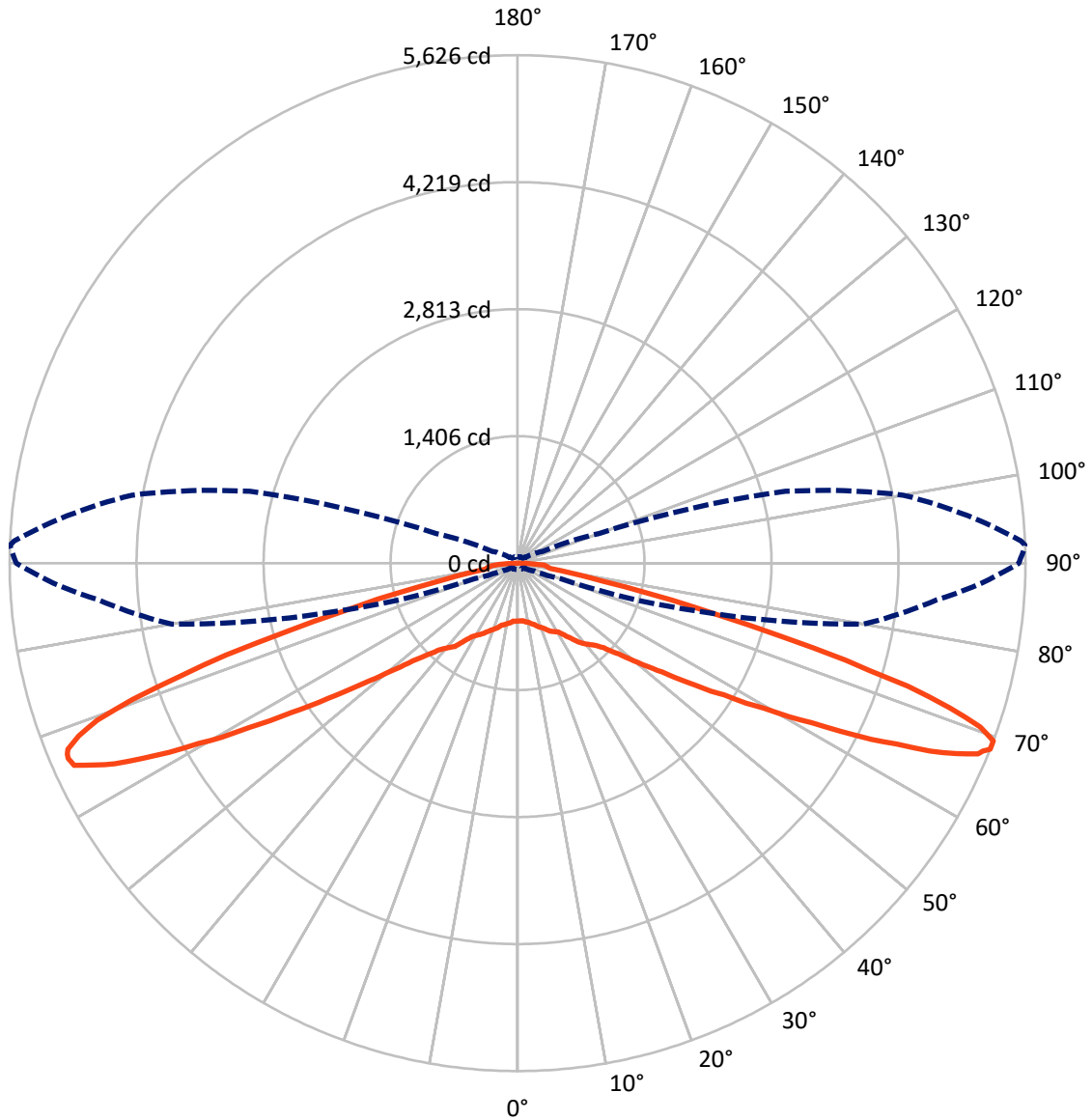
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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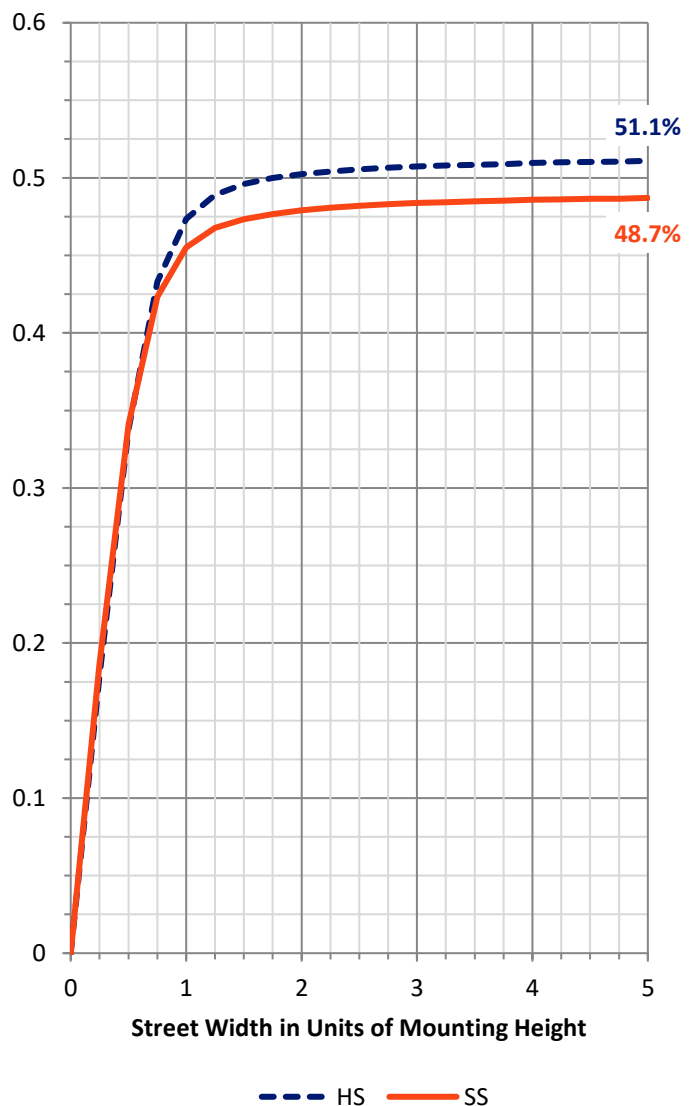
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2060.1	0.0	2060.1
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1940.2	0.0	1940.2
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	4000.2	0.0	4000.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	1.6
10°-20°	207.5	5.2
20°-30°	354.1	8.9
30°-40°	494.5	12.4
40°-50°	629.0	15.7
50°-60°	795.3	19.9
60°-70°	980.8	24.5
70°-80°	428.5	10.7
80°-90°	46.5	1.2
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°	4000.2	100.0
0°-180°	4000.2	100.0



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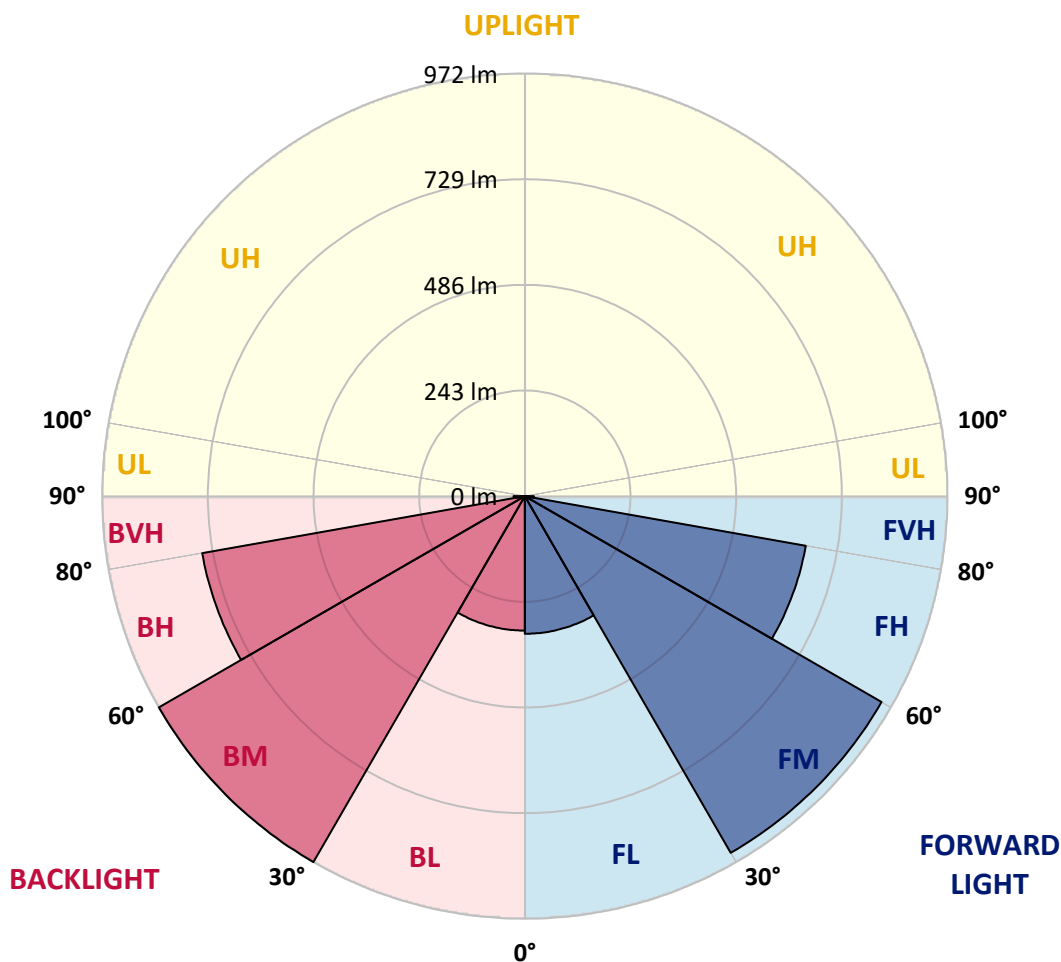
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.6	7.9			
FM (30°-60°)	947.0	23.7			
FH (60°-80°)	656.0	16.4			G0/660
FVH (80°-90°)	20.6	0.5			G1/100
BL (0°-30°)	309.1	7.7	B1/500		
BM (30°-60°)	971.7	24.3	B1/1000		
BH (60°-80°)	753.3	18.8	B2/1000		G2/1000
BVH (80°-90°)	25.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	653.2	652.4	654.7	656.2	649.4	651.7	650.2	648.7	643.4	641.2	636.7
5°	671.2	673.5	681.0	674.2	677.2	673.5	661.4	665.2	658.4	656.9	652.4
7.5°	702.7	698.2	708.7	701.2	703.5	696.0	690.7	684.0	682.5	672.0	672.7
10°	709.5	718.5	723.0	721.5	723.0	726.8	717.0	706.5	692.2	689.2	678.7
12.5°	705.0	713.2	725.3	735.0	741.8	743.3	739.5	737.3	731.3	714.0	713.2
15°	700.5	694.5	702.0	735.8	758.3	773.3	778.6	765.8	767.3	744.8	735.8
17.5°	670.5	661.4	690.7	723.8	751.5	784.6	810.1	806.3	806.3	788.3	775.6
20°	630.7	645.7	660.7	702.7	753.8	803.3	852.1	849.9	840.9	835.6	807.8
22.5°	596.9	603.6	631.4	675.7	739.5	808.6	866.4	907.7	886.7	865.7	849.1
25°	573.6	567.6	602.9	648.7	726.0	799.6	893.4	936.2	947.5	931.7	900.2
27.5°	540.6	540.6	568.3	611.9	682.5	795.1	919.7	985.0	1001.5	978.3	932.5
30°	503.0	507.5	531.6	581.1	650.2	762.0	930.2	1041.3	1054.9	1034.6	987.3
32.5°	473.7	473.7	500.8	553.3	627.7	747.0	923.5	1096.9	1122.4	1107.4	1058.6
35°	442.2	440.0	459.5	517.3	591.6	717.8	921.2	1141.2	1198.3	1199.0	1147.9
37.5°	397.2	406.2	431.0	476.7	563.1	689.2	914.5	1194.5	1296.6	1313.9	1278.6
40°	367.1	370.9	393.4	443.7	518.8	655.4	904.7	1238.0	1361.9	1421.2	1372.4
42.5°	323.6	328.8	346.1	408.4	476.0	607.4	861.9	1268.8	1455.0	1522.6	1481.3
45°	277.8	280.8	306.3	357.4	430.2	550.3	816.1	1318.4	1545.1	1683.3	1659.2
47.5°	223.0	224.5	246.3	299.6	375.4	493.3	745.5	1316.1	1617.9	1843.9	1911.5
50°	174.2	177.9	194.5	238.0	309.3	423.4	663.7	1298.1	1709.5	2027.1	2160.0
52.5°	138.9	139.6	150.2	184.7	238.7	353.6	575.9	1241.0	1795.9	2206.6	2464.8
55°	114.9	114.9	120.9	141.9	183.2	268.8	473.0	1146.4	1806.4	2404.8	2797.4
56°	110.4	108.9	114.1	132.1	165.2	242.5	424.9	1082.6	1821.4	2496.4	2964.1
57°	104.4	105.1	108.1	120.9	148.7	214.7	371.6	1020.3	1810.9	2571.4	3087.2
58°	101.4	99.9	105.9	114.1	131.4	190.7	334.8	946.7	1794.4	2633.0	3266.7
59°	96.9	96.1	99.9	107.4	122.4	169.7	289.8	867.2	1762.1	2712.6	3400.3
60°	95.3	94.6	96.1	102.1	112.6	148.7	255.3	774.1	1675.8	2794.4	3566.2
61°	90.8	91.6	94.6	98.4	106.6	133.6	229.7	678.7	1619.4	2863.5	3749.4
62°	91.6	90.1	91.6	94.6	100.6	123.1	201.2	584.9	1518.8	2941.6	3886.8
63°	87.1	86.3	88.6	92.3	95.3	111.1	175.7	505.3	1404.7	2959.6	4003.2
64°	85.6	84.8	85.6	90.8	91.6	104.4	155.4	431.7	1239.5	2990.4	4152.6
65°	81.8	81.8	83.3	85.6	88.6	98.4	138.9	374.6	1075.1	2909.3	4198.4
66°	78.8	79.6	79.6	83.3	85.6	91.6	127.6	318.3	917.5	2780.2	4242.7
67°	76.6	76.6	77.3	80.3	82.6	86.3	114.9	275.5	774.1	2626.2	4174.4
67.5°	75.1	75.8	75.8	78.8	81.1	86.3	109.6	261.3	692.2	2457.3	4123.3
68°	72.8	73.6	73.6	76.6	78.8	83.3	105.9	238.7	638.2	2347.7	4028.7
69°	71.3	70.6	70.6	73.6	76.6	79.6	98.4	208.7	507.5	2041.4	3890.6
70°	66.8	66.8	68.3	70.6	72.8	75.8	90.8	183.9	429.4	1690.0	3534.7
71°	64.6	63.8	64.6	66.8	69.1	72.8	83.3	162.9	351.4	1403.2	3184.8
72°	60.1	61.6	61.6	63.8	66.1	68.3	78.1	141.9	295.1	1121.7	2799.7
72.5°	59.3	59.3	60.1	62.3	63.8	67.6	75.1	135.9	269.5	988.8	2638.3
73°	57.1	57.1	57.8	60.1	61.6	65.3	72.8	122.4	245.5	879.9	2336.4
74°	54.8	54.1	54.1	57.1	57.8	61.6	68.3	108.1	205.7	662.9	1875.5
75°	51.1	51.1	51.8	53.3	54.1	57.1	63.1	96.1	173.4	514.3	1467.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	42.0	42.8	43.5	45.0	45.0	47.3	51.8	66.8	105.9	260.5	673.5
80°	30.8	32.3	34.5	36.8	36.0	36.0	40.5	48.1	63.1	117.1	258.3
82.5°	24.8	26.3	24.0	27.0	27.0	25.5	29.3	35.3	42.8	57.8	92.3
85°	16.5	17.3	14.3	16.5	15.8	15.8	19.5	21.0	26.3	32.3	45.8
87.5°	7.5	7.5	6.0	6.8	6.8	6.8	9.8	7.5	11.3	15.8	27.0
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):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	641.2	644.2	644.2	641.2	638.9	641.2	639.7	635.9	639.7	641.2	641.9
5°	650.2	644.2	647.2	640.4	644.9	644.2	642.7	646.4	647.2	647.2	652.4
7.5°	659.9	667.4	657.7	658.4	660.7	651.7	654.7	656.2	653.2	659.2	663.7
10°	677.2	680.2	677.2	665.9	673.5	667.4	665.2	672.0	670.5	672.0	678.7
12.5°	693.0	698.2	690.0	689.2	685.5	680.2	683.2	682.5	693.0	694.5	702.7
15°	725.3	711.7	708.7	708.0	706.5	704.2	705.7	706.5	720.0	722.3	741.8
17.5°	753.0	750.8	734.3	740.3	740.3	731.3	727.5	740.3	750.8	762.0	775.6
20°	781.6	779.3	761.3	762.0	755.3	763.5	759.0	771.1	789.1	792.8	804.8
22.5°	815.4	805.6	792.8	794.3	796.6	790.6	787.6	804.1	822.1	832.6	833.4
25°	868.7	843.9	833.4	834.9	831.9	827.4	829.6	850.6	859.6	882.2	877.7
27.5°	897.2	882.9	875.4	858.1	858.9	852.1	861.1	892.7	910.7	928.0	893.4
30°	931.7	922.7	889.7	883.7	882.9	879.9	896.4	937.0	964.0	973.8	924.2
32.5°	999.3	963.3	955.0	949.7	937.7	941.5	949.7	1003.0	1045.8	1043.6	952.7
35°	1076.6	1051.8	1028.6	1024.1	1022.6	1012.1	1026.3	1088.6	1121.7	1111.9	963.3
37.5°	1200.5	1163.0	1131.4	1114.2	1111.2	1103.7	1137.4	1187.0	1229.8	1191.5	971.5
40°	1261.3	1219.3	1190.0	1179.5	1181.7	1192.2	1225.3	1301.1	1319.9	1249.3	978.3
42.5°	1348.4	1302.6	1244.8	1239.5	1232.8	1238.0	1301.9	1404.0	1419.7	1327.4	952.7
45°	1503.1	1434.0	1367.2	1337.1	1338.6	1352.9	1452.0	1563.9	1534.6	1381.4	912.2
47.5°	1698.3	1596.9	1542.9	1502.3	1521.8	1506.1	1663.7	1753.1	1653.2	1449.8	862.7
50°	1991.8	1849.9	1776.4	1727.6	1735.8	1749.3	1909.2	1985.1	1784.6	1482.8	786.8
52.5°	2362.0	2179.5	2071.4	2006.1	2012.1	2041.4	2247.8	2224.6	1934.8	1510.6	685.5
55°	2804.9	2617.2	2407.8	2380.7	2374.0	2443.8	2671.3	2475.3	2069.9	1466.3	580.4
56°	3039.2	2839.5	2621.7	2566.2	2549.7	2598.5	2865.7	2600.7	2116.5	1416.7	530.1
57°	3238.1	3047.4	2808.7	2714.1	2735.1	2826.7	3058.7	2718.6	2159.3	1365.7	482.8
58°	3511.4	3293.7	3041.4	2969.4	2950.6	3023.4	3266.7	2837.2	2173.5	1313.1	439.2
59°	3784.0	3522.7	3295.2	3163.8	3169.1	3302.0	3471.6	2978.4	2195.3	1246.3	383.7
60°	3991.2	3859.8	3555.7	3457.4	3443.8	3636.0	3675.8	3073.0	2218.6	1156.2	344.6
61°	4284.7	4113.5	3830.5	3703.6	3740.4	3894.3	3896.6	3191.6	2184.0	1042.1	296.6
62°	4495.7	4450.7	4153.3	4032.5	4021.2	4225.4	4126.3	3295.9	2154.0	934.0	262.0
63°	4742.7	4742.7	4471.7	4377.1	4382.3	4543.7	4226.2	3400.3	2119.5	814.6	230.5
64°	4871.1	5032.5	4782.5	4649.6	4684.1	4823.8	4404.1	3468.6	2012.9	693.7	202.7
65°	4982.2	5224.7	5085.8	5024.3	4971.7	5054.3	4558.0	3532.4	1849.9	590.1	180.2
66°	5076.1	5405.6	5359.9	5293.8	5288.5	5269.8	4588.0	3530.2	1681.8	498.5	157.7
67°	5028.8	5409.4	5492.7	5520.5	5512.3	5314.1	4535.5	3449.9	1466.3	421.2	140.4
67.5°	4986.0	5378.6	5572.3	5556.6	5591.1	5351.6	4544.5	3351.5	1313.1	381.4	132.1
68°	4948.4	5337.3	5604.6	5624.9	5607.6	5356.1	4494.9	3273.4	1208.8	358.1	124.6
69°	4663.9	5141.4	5552.8	5625.6	5581.3	5184.2	4337.3	3070.0	960.3	305.6	114.9
70°	4378.6	4887.6	5301.3	5434.9	5380.1	4851.6	4138.3	2746.4	792.1	261.3	103.6
71°	3983.7	4416.1	4966.4	5046.8	4980.7	4473.2	3726.9	2404.8	616.4	221.5	92.3
72°	3447.6	3814.7	4340.3	4534.7	4437.1	3928.9	3311.0	1987.3	499.3	186.2	84.1
72.5°	3181.8	3558.0	4064.7	4080.5	4099.3	3692.4	3134.5	1745.6	435.5	172.7	81.8
73°	2929.6	3298.2	3736.7	3792.2	3712.6	3293.7	2871.0	1560.9	397.9	157.7	78.8
74°	2374.0	2584.2	2947.6	3001.6	2931.8	2685.6	2346.2	1196.8	316.8	135.9	72.1
75°	1868.0	1983.6	2312.4	2279.4	2175.0	2088.7	1819.2	914.5	256.8	119.4	66.8



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	839.4	909.2	964.0	964.0	970.0	925.7	838.6	419.7	158.4	86.3	54.8
80°	319.8	358.1	370.1	370.9	376.1	389.7	362.6	206.5	93.8	61.6	44.3
82.5°	232.0	324.3	349.1	331.1	332.6	300.3	138.9	91.6	59.3	42.8	32.3
85°	210.2	282.3	298.8	296.6	297.3	277.8	81.8	45.0	34.5	27.0	22.5
87.5°	102.1	99.9	105.9	119.4	116.4	150.9	69.1	22.5	15.0	11.3	11.3
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):**

	135°	145°	155°	165°	175°	180°
0°	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	635.9	635.2	645.7	635.2	641.2	636.7
5°	643.4	646.4	648.7	653.2	642.7	653.2
7.5°	665.9	668.9	669.7	673.5	668.9	668.2
10°	683.2	690.7	695.2	680.2	689.2	688.5
12.5°	717.0	709.5	708.7	705.7	697.5	694.5
15°	741.0	729.8	723.0	711.0	701.2	697.5
17.5°	774.8	753.0	725.3	700.5	683.2	669.7
20°	795.8	756.8	701.2	672.0	645.7	651.7
22.5°	809.3	753.0	679.5	641.9	615.6	623.2
25°	813.9	734.3	664.4	617.9	592.4	587.1
27.5°	801.1	712.5	635.2	582.6	560.1	564.6
30°	795.1	681.0	608.1	556.3	526.3	530.8
32.5°	779.3	648.7	572.1	519.5	497.8	490.3
35°	756.8	621.6	537.6	488.0	461.7	455.7
37.5°	729.0	587.9	507.5	447.5	424.2	419.7
40°	687.7	547.3	464.0	412.2	385.2	384.4
42.5°	651.7	508.3	423.4	370.1	343.1	344.6
45°	605.9	455.7	376.9	331.1	304.1	305.6
47.5°	547.3	406.9	332.6	281.5	259.0	257.5
50°	478.2	351.4	278.5	235.0	216.2	212.5
52.5°	412.2	295.1	228.2	189.2	173.4	171.9
55°	328.8	229.7	177.9	148.7	136.6	137.4
56°	298.8	211.7	162.2	135.9	126.9	126.9
57°	270.3	187.7	147.2	125.4	117.1	117.1
58°	238.7	165.2	133.6	113.4	109.6	106.6
59°	217.0	150.2	120.9	107.4	101.4	100.6
60°	191.5	135.1	112.6	100.6	96.1	95.3
61°	169.7	121.6	103.6	93.8	92.3	92.3
62°	151.7	112.6	96.1	90.8	90.1	87.8
63°	135.9	103.6	92.3	86.3	84.1	86.3
64°	121.6	95.3	89.3	84.8	81.8	83.3
65°	110.4	91.6	85.6	82.6	79.6	80.3
66°	102.9	85.6	82.6	78.8	77.3	78.1
67°	93.1	82.6	79.6	75.8	75.1	75.8
67.5°	90.1	80.3	78.1	74.3	73.6	74.3
68°	87.8	78.8	77.3	73.6	72.8	72.1
69°	81.8	75.8	73.6	72.1	70.6	69.8
70°	76.6	72.8	71.3	69.1	67.6	66.8
71°	73.6	69.1	68.3	66.1	64.6	63.8
72°	69.8	66.8	65.3	62.3	61.6	62.3
72.5°	69.1	65.3	64.6	61.6	60.8	60.8
73°	66.8	62.3	63.1	60.1	58.6	60.1
74°	62.3	60.8	59.3	57.1	56.3	56.3
75°	58.6	57.1	55.6	54.1	54.1	54.1



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	49.6	48.8	49.6	46.5	45.8	45.0
80°	39.8	39.8	40.5	38.3	36.8	36.0
82.5°	30.0	30.8	32.3	30.0	28.5	27.0
85°	19.5	20.3	20.3	18.0	21.0	19.5
87.5°	9.8	10.5	9.8	9.0	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)