

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: P676090

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676090  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-722-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T1 distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

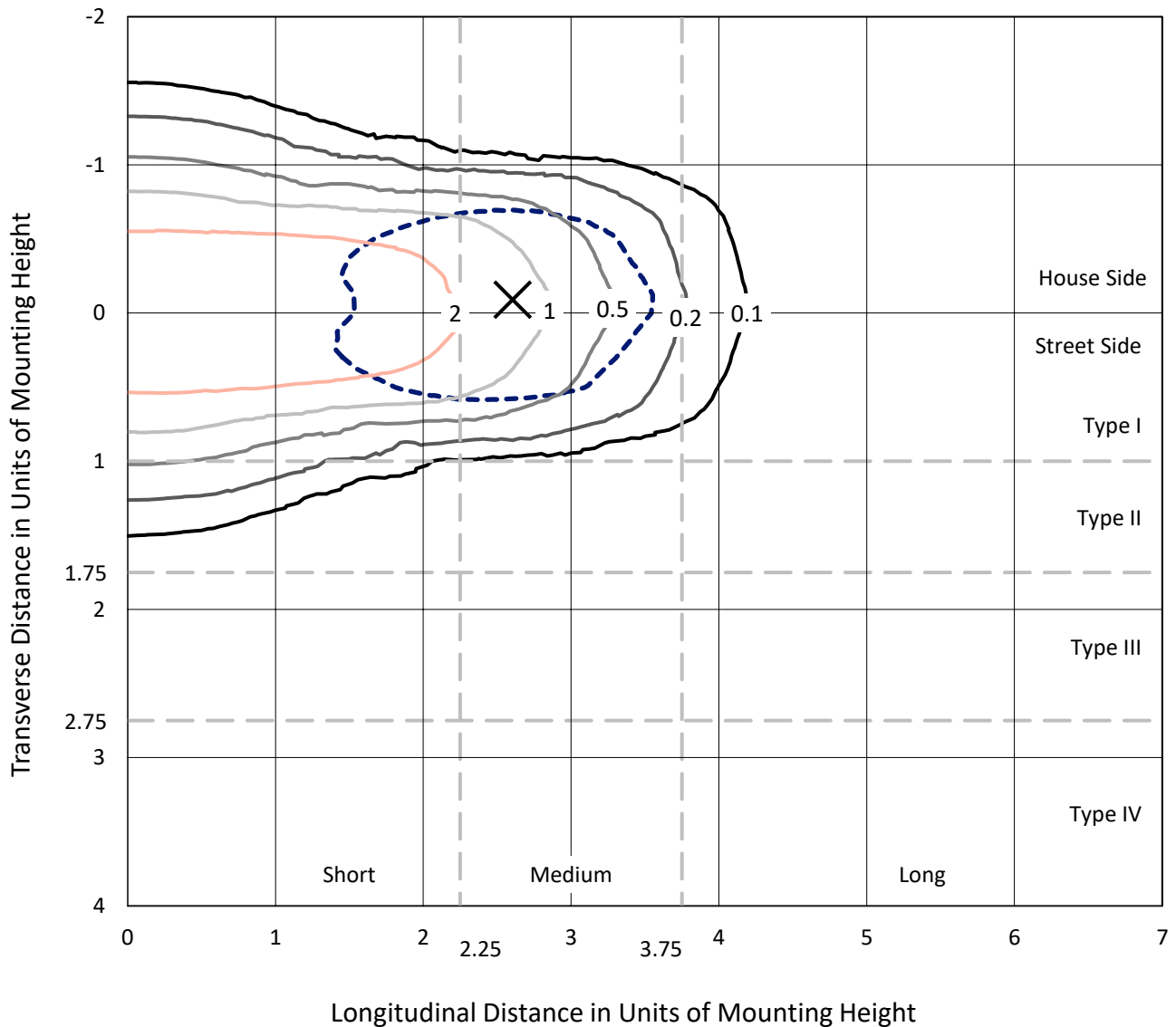
Lumens per Lamp: N/A  
Luminaire Lumens: 4904.1 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 56.1  
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

REPORT NUMBER: P676090  
 CATALOG NUMBER: CCW-SA-1E-722-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

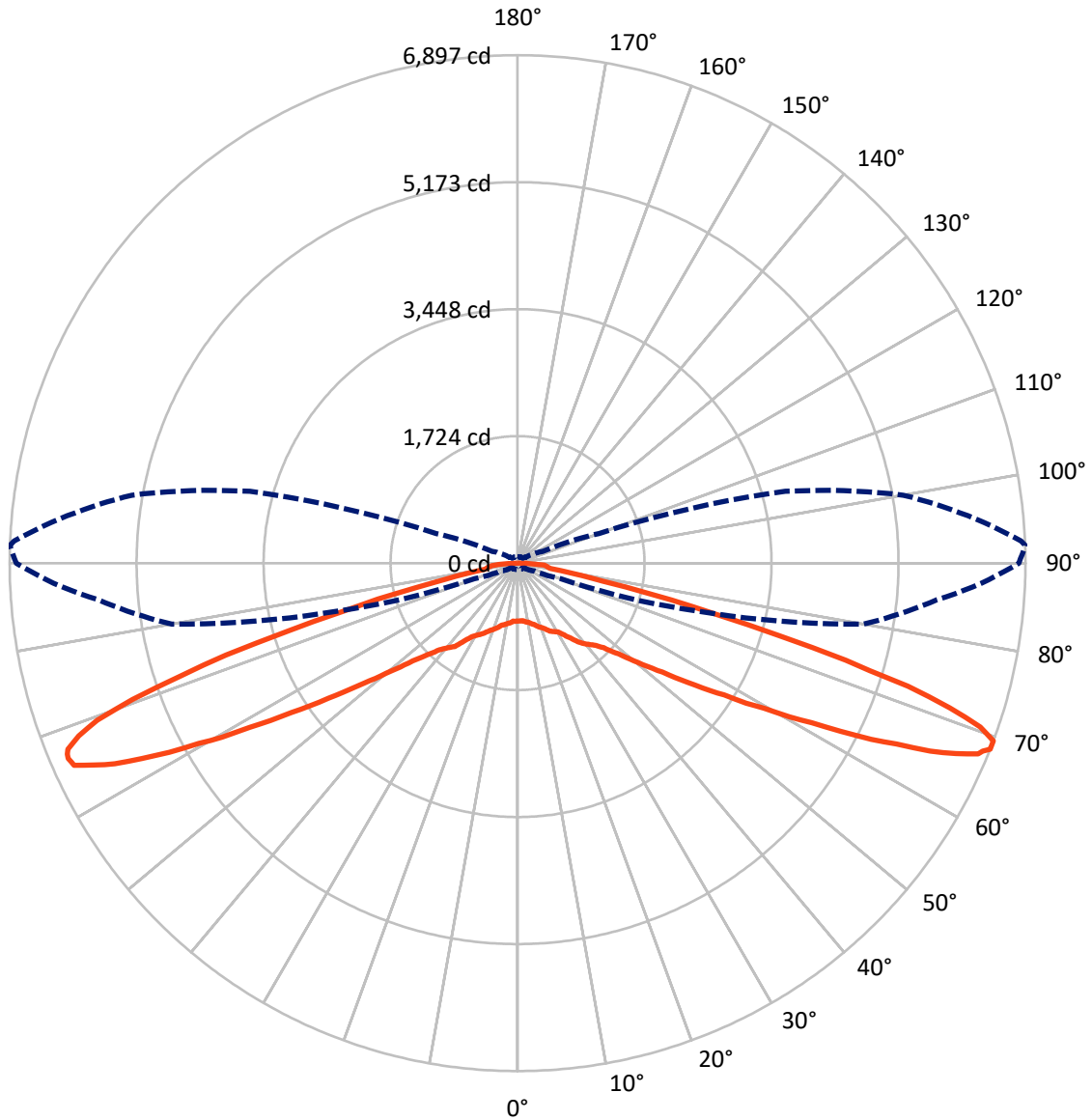
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc  
 Type I - Short - N/A

REPORT NUMBER: P676090  
CATALOG NUMBER: CCW-SA-1E-722-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P676090  
 CATALOG NUMBER: CCW-SA-1E-722-U-T1

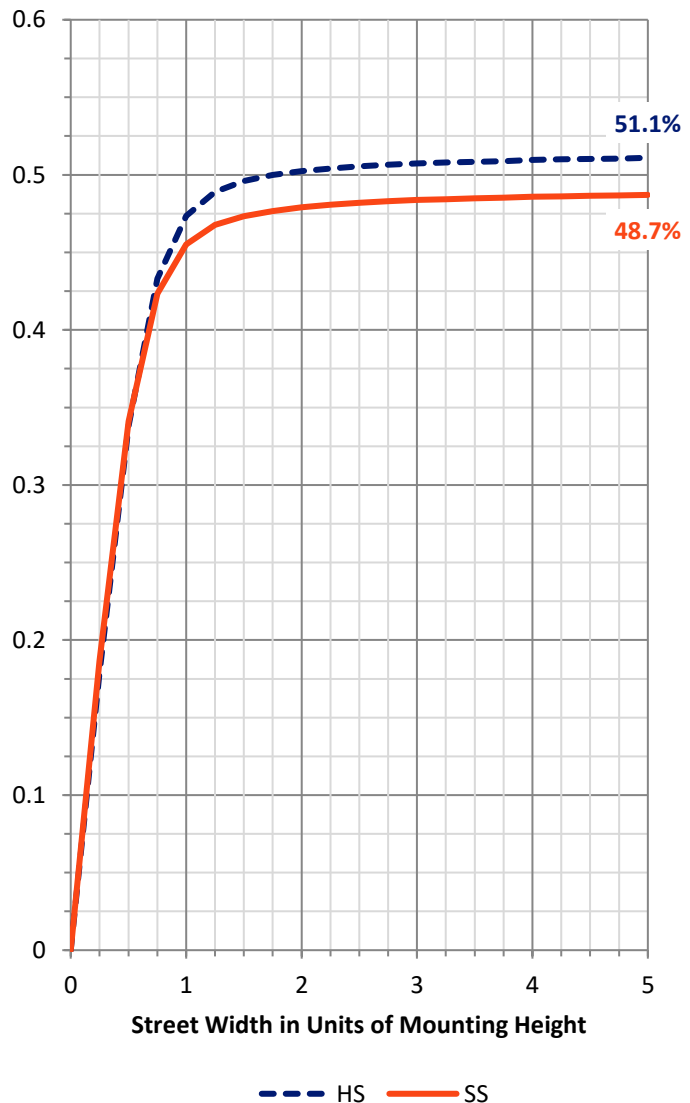
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2525.5	0.0	2525.5
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	2378.6	0.0	2378.6
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	4904.1	0.0	4904.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	1.6
10°-20°	254.4	5.2
20°-30°	434.2	8.9
30°-40°	606.2	12.4
40°-50°	771.1	15.7
50°-60°	975.0	19.9
60°-70°	1202.4	24.5
70°-80°	525.3	10.7
80°-90°	57.0	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°	4904.1	100.0
0°-180°	4904.1	100.0



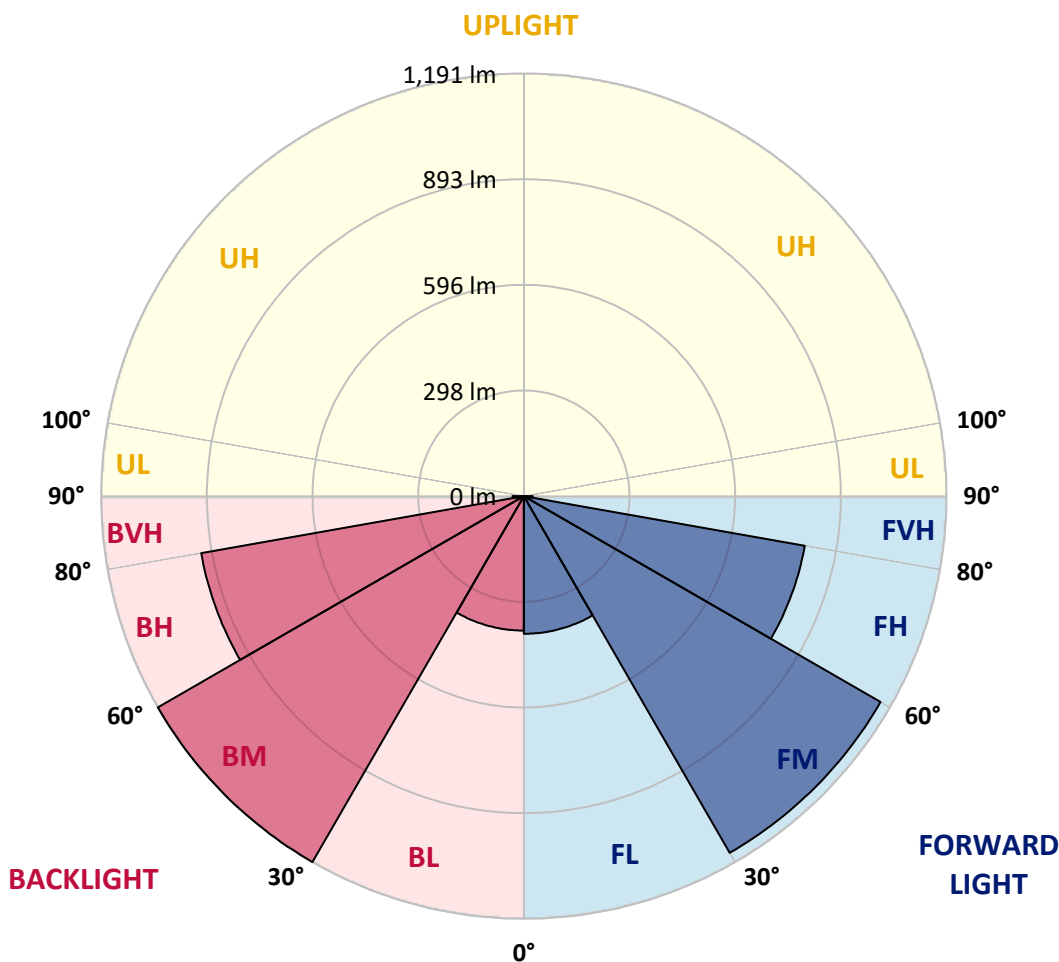
REPORT NUMBER: P676090  
 CATALOG NUMBER: CCW-SA-1E-722-U-T1

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	388.1	7.9			
FM	(30°-60°)	1161.0	23.7			
FH	(60°-80°)	804.2	16.4			G1/1800
FVH	(80°-90°)	25.3	0.5			G1/100
BL	(0°-30°)	379.0	7.7	B1/500		
BM	(30°-60°)	1191.3	24.3	B2/2500		
BH	(60°-80°)	923.5	18.8	B2/1000		G2/1000
BVH	(80°-90°)	31.7	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





REPORT NUMBER: P676090

CATALOG NUMBER: CCW-SA-1E-722-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2
2.5°	800.8	799.9	802.6	804.5	796.2	798.9	797.1	795.3	788.8	786.0	780.5
5°	822.9	825.6	834.8	826.5	830.2	825.6	810.9	815.5	807.2	805.4	799.9
7.5°	861.5	856.0	868.9	859.7	862.4	853.2	846.8	838.5	836.7	823.8	824.7
10°	869.8	880.9	886.4	884.5	886.4	891.0	879.0	866.1	848.6	845.0	832.1
12.5°	864.3	874.4	889.1	901.1	909.4	911.2	906.6	903.9	896.5	875.3	874.4
15°	858.8	851.4	860.6	902.0	929.6	948.0	954.5	938.8	940.7	913.1	902.0
17.5°	821.9	810.9	846.8	887.3	921.4	961.8	993.1	988.5	988.5	966.5	950.8
20°	773.2	791.6	810.0	861.5	924.1	984.9	1044.7	1041.9	1030.9	1024.4	990.4
22.5°	731.7	740.0	774.1	828.4	906.6	991.3	1062.2	1112.8	1087.0	1061.3	1041.0
25°	703.2	695.8	739.1	795.3	890.1	980.3	1095.3	1147.8	1161.6	1142.3	1103.6
27.5°	662.7	662.7	696.8	750.2	836.7	974.7	1127.5	1207.6	1227.9	1199.3	1143.2
30°	616.7	622.2	651.7	712.4	797.1	934.2	1140.4	1276.6	1293.2	1268.4	1210.4
32.5°	580.8	580.8	613.9	678.4	769.5	915.8	1132.1	1344.7	1376.0	1357.6	1297.8
35°	542.1	539.4	563.3	634.2	725.3	879.9	1129.4	1399.1	1469.0	1469.9	1407.3
37.5°	486.9	498.0	528.3	584.5	690.3	845.0	1121.1	1464.4	1589.6	1610.8	1567.5
40°	450.1	454.7	482.3	544.0	636.0	803.5	1109.1	1517.8	1669.7	1742.4	1682.5
42.5°	396.7	403.1	424.3	500.7	583.6	744.6	1056.7	1555.5	1783.8	1866.6	1816.0
45°	340.6	344.2	375.5	438.1	527.4	674.7	1000.5	1616.3	1894.2	2063.6	2034.1
47.5°	273.4	275.2	301.9	367.3	460.2	604.7	914.0	1613.5	1983.5	2260.6	2343.4
50°	213.5	218.1	238.4	291.8	379.2	519.1	813.7	1591.4	2095.8	2485.2	2648.1
52.5°	170.3	171.2	184.1	226.4	292.7	433.5	706.0	1521.5	2201.7	2705.1	3021.8
55°	140.8	140.8	148.2	174.0	224.6	329.5	579.9	1405.5	2214.6	2948.1	3429.5
56°	135.3	133.5	139.9	162.0	202.5	297.3	521.0	1327.3	2233.0	3060.4	3633.9
57°	127.9	128.9	132.5	148.2	182.2	263.2	455.6	1250.9	2220.1	3152.5	3784.8
58°	124.3	122.4	129.8	139.9	161.1	233.8	410.5	1160.7	2199.8	3227.9	4004.8
59°	118.7	117.8	122.4	131.6	150.0	208.0	355.3	1063.1	2160.2	3325.5	4168.6
60°	116.9	116.0	117.8	125.2	138.1	182.2	312.9	949.0	2054.4	3425.8	4372.0
61°	111.4	112.3	116.0	120.6	130.7	163.8	281.7	832.1	1985.4	3510.5	4596.6
62°	112.3	110.5	112.3	116.0	123.3	151.0	246.7	717.0	1862.0	3606.2	4765.1
63°	106.8	105.8	108.6	113.2	116.9	136.2	215.4	619.4	1722.1	3628.3	4907.7
64°	104.9	104.0	104.9	111.4	112.3	127.9	190.5	529.2	1519.6	3666.1	5090.9
65°	100.3	100.3	102.2	104.9	108.6	120.6	170.3	459.3	1318.1	3566.7	5147.0
66°	96.6	97.6	97.6	102.2	104.9	112.3	156.5	390.3	1124.8	3408.4	5201.3
67°	93.9	93.9	94.8	98.5	101.2	105.8	140.8	337.8	949.0	3219.7	5117.6
67.5°	92.0	93.0	93.0	96.6	99.4	105.8	134.4	320.3	848.6	3012.6	5055.0
68°	89.3	90.2	90.2	93.9	96.6	102.2	129.8	292.7	782.4	2878.2	4939.0
69°	87.4	86.5	86.5	90.2	93.9	97.6	120.6	255.9	622.2	2502.6	4769.7
70°	81.9	81.9	83.8	86.5	89.3	93.0	111.4	225.5	526.5	2071.9	4333.4
71°	79.2	78.2	79.2	81.9	84.7	89.3	102.2	199.7	430.8	1720.3	3904.5
72°	73.6	75.5	75.5	78.2	81.0	83.8	95.7	174.0	361.7	1375.1	3432.3
72.5°	72.7	72.7	73.6	76.4	78.2	82.8	92.0	166.6	330.4	1212.2	3234.4
73°	70.0	70.0	70.9	73.6	75.5	80.1	89.3	150.0	301.0	1078.7	2864.4
74°	67.2	66.3	66.3	70.0	70.9	75.5	83.8	132.5	252.2	812.7	2299.2
75°	62.6	62.6	63.5	65.4	66.3	70.0	77.3	117.8	212.6	630.5	1798.5



REPORT NUMBER: P676090  
CATALOG NUMBER: CCW-SA-1E-722-U-T1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	51.5	52.5	53.4	55.2	55.2	58.0	63.5	81.9	129.8	319.4	825.6
80°	37.7	39.6	42.3	45.1	44.2	44.2	49.7	58.9	77.3	143.6	316.6
82.5°	30.4	32.2	29.5	33.1	33.1	31.3	35.9	43.3	52.5	70.9	113.2
85°	20.2	21.2	17.5	20.2	19.3	19.3	23.9	25.8	32.2	39.6	56.1
87.5°	9.2	9.2	7.4	8.3	8.3	8.3	12.0	9.2	13.8	19.3	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P676090

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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2
2.5°	786.0	789.7	789.7	786.0	783.3	786.0	784.2	779.6	784.2	786.0	787.0
5°	797.1	789.7	793.4	785.1	790.6	789.7	787.9	792.5	793.4	793.4	799.9
7.5°	809.1	818.3	806.3	807.2	810.0	798.9	802.6	804.5	800.8	808.1	813.7
10°	830.2	833.9	830.2	816.4	825.6	818.3	815.5	823.8	821.9	823.8	832.1
12.5°	849.6	856.0	845.9	845.0	840.4	833.9	837.6	836.7	849.6	851.4	861.5
15°	889.1	872.6	868.9	868.0	866.1	863.4	865.2	866.1	882.7	885.5	909.4
17.5°	923.2	920.4	900.2	907.5	907.5	896.5	891.9	907.5	920.4	934.2	950.8
20°	958.2	955.4	933.3	934.2	926.0	936.1	930.6	945.3	967.4	972.0	986.7
22.5°	999.6	987.6	972.0	973.8	976.6	969.2	965.5	985.8	1007.9	1020.8	1021.7
25°	1064.9	1034.6	1021.7	1023.5	1019.8	1014.3	1017.1	1042.8	1053.9	1081.5	1076.0
27.5°	1099.9	1082.4	1073.2	1052.1	1053.0	1044.7	1055.7	1094.4	1116.5	1137.7	1095.3
30°	1142.3	1131.2	1090.7	1083.3	1082.4	1078.7	1099.0	1148.7	1181.8	1193.8	1133.0
32.5°	1225.1	1180.9	1170.8	1164.3	1149.6	1154.2	1164.3	1229.7	1282.2	1279.4	1168.0
35°	1319.9	1289.5	1261.0	1255.5	1253.6	1240.7	1258.2	1334.6	1375.1	1363.2	1180.9
37.5°	1471.8	1425.7	1387.1	1365.9	1362.2	1353.0	1394.5	1455.2	1507.7	1460.7	1191.0
40°	1546.3	1494.8	1458.9	1446.0	1448.8	1461.6	1502.1	1595.1	1618.1	1531.6	1199.3
42.5°	1653.1	1596.9	1526.1	1519.6	1511.3	1517.8	1596.0	1721.2	1740.5	1627.3	1168.0
45°	1842.7	1758.0	1676.1	1639.3	1641.1	1658.6	1780.1	1917.3	1881.4	1693.6	1118.3
47.5°	2082.0	1957.8	1891.5	1841.8	1865.7	1846.4	2039.7	2149.2	2026.8	1777.3	1057.6
50°	2441.9	2267.9	2177.7	2117.9	2128.0	2144.6	2340.7	2433.6	2187.9	1817.8	964.6
52.5°	2895.7	2672.0	2539.5	2459.4	2466.8	2502.6	2755.8	2727.2	2371.9	1851.9	840.4
55°	3438.7	3208.6	2951.8	2918.7	2910.4	2996.0	3274.9	3034.7	2537.6	1797.6	711.5
56°	3725.9	3481.1	3214.1	3146.0	3125.8	3185.6	3513.3	3188.4	2594.7	1736.9	649.8
57°	3969.8	3736.0	3443.3	3327.4	3353.1	3465.4	3749.8	3332.9	2647.2	1674.3	591.8
58°	4304.9	4037.9	3728.7	3640.3	3617.3	3706.6	4004.8	3478.3	2664.6	1609.8	538.5
59°	4639.0	4318.7	4039.8	3878.7	3885.1	4048.1	4256.1	3651.3	2691.3	1527.9	470.3
60°	4893.0	4731.9	4359.2	4238.6	4222.0	4457.6	4506.4	3767.3	2719.9	1417.5	422.5
61°	5252.9	5043.0	4696.0	4540.5	4585.6	4774.3	4777.0	3912.7	2677.5	1277.6	363.6
62°	5511.5	5456.3	5091.8	4943.6	4929.8	5180.2	5058.7	4040.7	2640.7	1145.0	321.2
63°	5814.4	5814.4	5482.1	5366.1	5372.5	5570.4	5181.1	4168.6	2598.4	998.7	282.6
64°	5971.7	6169.6	5863.1	5700.2	5742.6	5913.8	5399.2	4252.4	2467.7	850.5	248.5
65°	6108.0	6405.3	6235.0	6159.5	6095.1	6196.3	5587.9	4330.6	2267.9	723.5	220.9
66°	6223.0	6627.1	6570.9	6490.0	6483.5	6460.5	5624.7	4327.9	2061.8	611.2	193.3
67°	6165.0	6631.7	6733.9	6767.9	6757.8	6514.8	5560.3	4229.4	1797.6	516.4	172.1
67.5°	6112.6	6594.0	6831.4	6812.1	6854.4	6560.8	5571.4	4108.8	1609.8	467.6	162.0
68°	6066.6	6543.3	6871.0	6895.9	6874.7	6566.3	5510.6	4013.1	1481.9	439.0	152.8
69°	5717.7	6303.1	6807.5	6896.8	6842.5	6355.6	5317.3	3763.6	1177.2	374.6	140.8
70°	5367.9	5992.0	6499.2	6663.0	6595.8	5947.8	5073.4	3366.9	971.1	320.3	127.0
71°	4883.8	5414.0	6088.6	6187.1	6106.1	5483.9	4569.0	2948.1	755.7	271.5	113.2
72°	4226.6	4676.7	5321.0	5559.4	5439.7	4816.6	4059.1	2436.4	612.1	228.3	103.1
72.5°	3900.8	4361.9	4983.2	5002.5	5025.5	4526.7	3842.8	2140.0	533.8	211.7	100.3
73°	3591.5	4043.4	4581.0	4649.1	4551.5	4037.9	3519.7	1913.6	487.8	193.3	96.6
74°	2910.4	3168.1	3613.6	3679.9	3594.3	3292.4	2876.3	1467.2	388.4	166.6	88.4
75°	2290.0	2431.8	2834.9	2794.4	2666.5	2560.6	2230.2	1121.1	314.8	146.3	81.9



REPORT NUMBER: P676090  
 CATALOG NUMBER: CCW-SA-1E-722-U-T1

**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1029.0	1114.6	1181.8	1181.8	1189.2	1134.9	1028.1	514.5	194.2	105.8	67.2
80°	392.1	439.0	453.8	454.7	461.1	477.7	444.6	253.1	115.1	75.5	54.3
82.5°	284.4	397.6	428.0	405.9	407.8	368.2	170.3	112.3	72.7	52.5	39.6
85°	257.7	346.1	366.3	363.6	364.5	340.6	100.3	55.2	42.3	33.1	27.6
87.5°	125.2	122.4	129.8	146.3	142.7	185.0	84.7	27.6	18.4	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676090

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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	784.2	784.2	784.2	784.2	784.2	784.2
2.5°	779.6	778.7	791.6	778.7	786.0	780.5
5°	788.8	792.5	795.3	800.8	787.9	800.8
7.5°	816.4	820.1	821.0	825.6	820.1	819.2
10°	837.6	846.8	852.3	833.9	845.0	844.0
12.5°	879.0	869.8	868.9	865.2	855.1	851.4
15°	908.5	894.7	886.4	871.6	859.7	855.1
17.5°	949.9	923.2	889.1	858.8	837.6	821.0
20°	975.7	927.8	859.7	823.8	791.6	798.9
22.5°	992.2	923.2	833.0	787.0	754.8	764.0
25°	997.7	900.2	814.6	757.5	726.2	719.8
27.5°	982.1	873.5	778.7	714.3	686.6	692.2
30°	974.7	834.8	745.5	682.0	645.2	650.7
32.5°	955.4	795.3	701.4	636.9	610.2	601.0
35°	927.8	762.1	659.0	598.3	566.1	558.7
37.5°	893.7	720.7	622.2	548.6	520.0	514.5
40°	843.1	671.0	568.8	505.3	472.2	471.3
42.5°	798.9	623.1	519.1	453.8	420.6	422.5
45°	742.8	558.7	462.1	405.9	372.8	374.6
47.5°	671.0	498.9	407.8	345.2	317.5	315.7
50°	586.3	430.8	341.5	288.1	265.1	260.5
52.5°	505.3	361.7	279.8	231.9	212.6	210.8
55°	403.1	281.7	218.1	182.2	167.5	168.4
56°	366.3	259.6	198.8	166.6	155.6	155.6
57°	331.4	230.1	180.4	153.7	143.6	143.6
58°	292.7	202.5	163.8	139.0	134.4	130.7
59°	266.0	184.1	148.2	131.6	124.3	123.3
60°	234.7	165.7	138.1	123.3	117.8	116.9
61°	208.0	149.1	127.0	115.1	113.2	113.2
62°	185.9	138.1	117.8	111.4	110.5	107.7
63°	166.6	127.0	113.2	105.8	103.1	105.8
64°	149.1	116.9	109.5	104.0	100.3	102.2
65°	135.3	112.3	104.9	101.2	97.6	98.5
66°	126.1	104.9	101.2	96.6	94.8	95.7
67°	114.1	101.2	97.6	93.0	92.0	93.0
67.5°	110.5	98.5	95.7	91.1	90.2	91.1
68°	107.7	96.6	94.8	90.2	89.3	88.4
69°	100.3	93.0	90.2	88.4	86.5	85.6
70°	93.9	89.3	87.4	84.7	82.8	81.9
71°	90.2	84.7	83.8	81.0	79.2	78.2
72°	85.6	81.9	80.1	76.4	75.5	76.4
72.5°	84.7	80.1	79.2	75.5	74.6	74.6
73°	81.9	76.4	77.3	73.6	71.8	73.6
74°	76.4	74.6	72.7	70.0	69.0	69.0
75°	71.8	70.0	68.1	66.3	66.3	66.3



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	135°	145°	155°	165°	175°	180°
77.5°	60.7	59.8	60.7	57.1	56.1	55.2
80°	48.8	48.8	49.7	46.9	45.1	44.2
82.5°	36.8	37.7	39.6	36.8	35.0	33.1
85°	23.9	24.9	24.9	22.1	25.8	23.9
87.5°	12.0	12.9	12.0	11.0	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)