

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: P676107

Luminaire Tested: **CCW-SA-2E-727-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676107  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-727-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T1 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

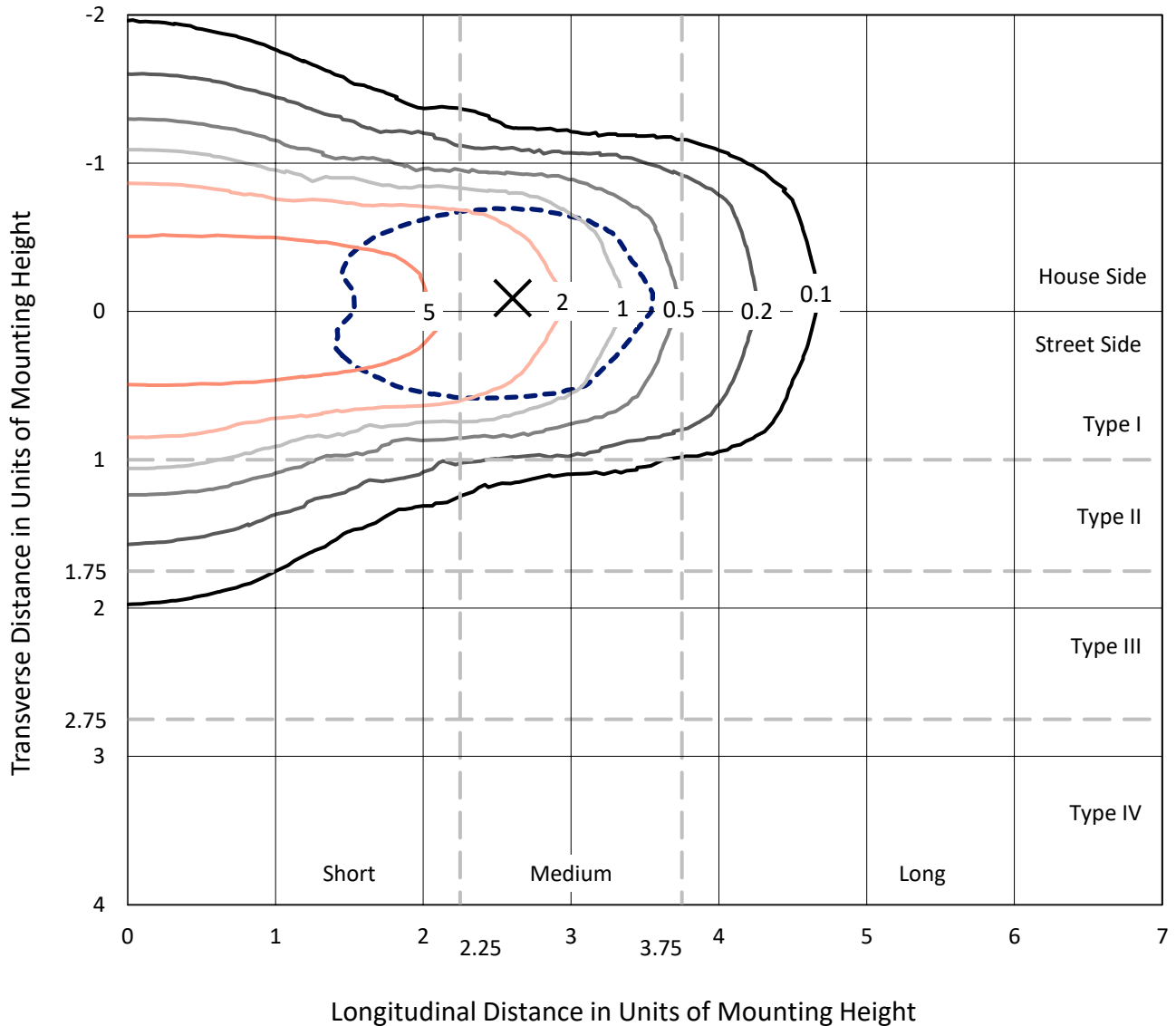
Lumens per Lamp: N/A  
Luminaire Lumens: 11135 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 106.6  
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: P676107  
 CATALOG NUMBER: CCW-SA-2E-727-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

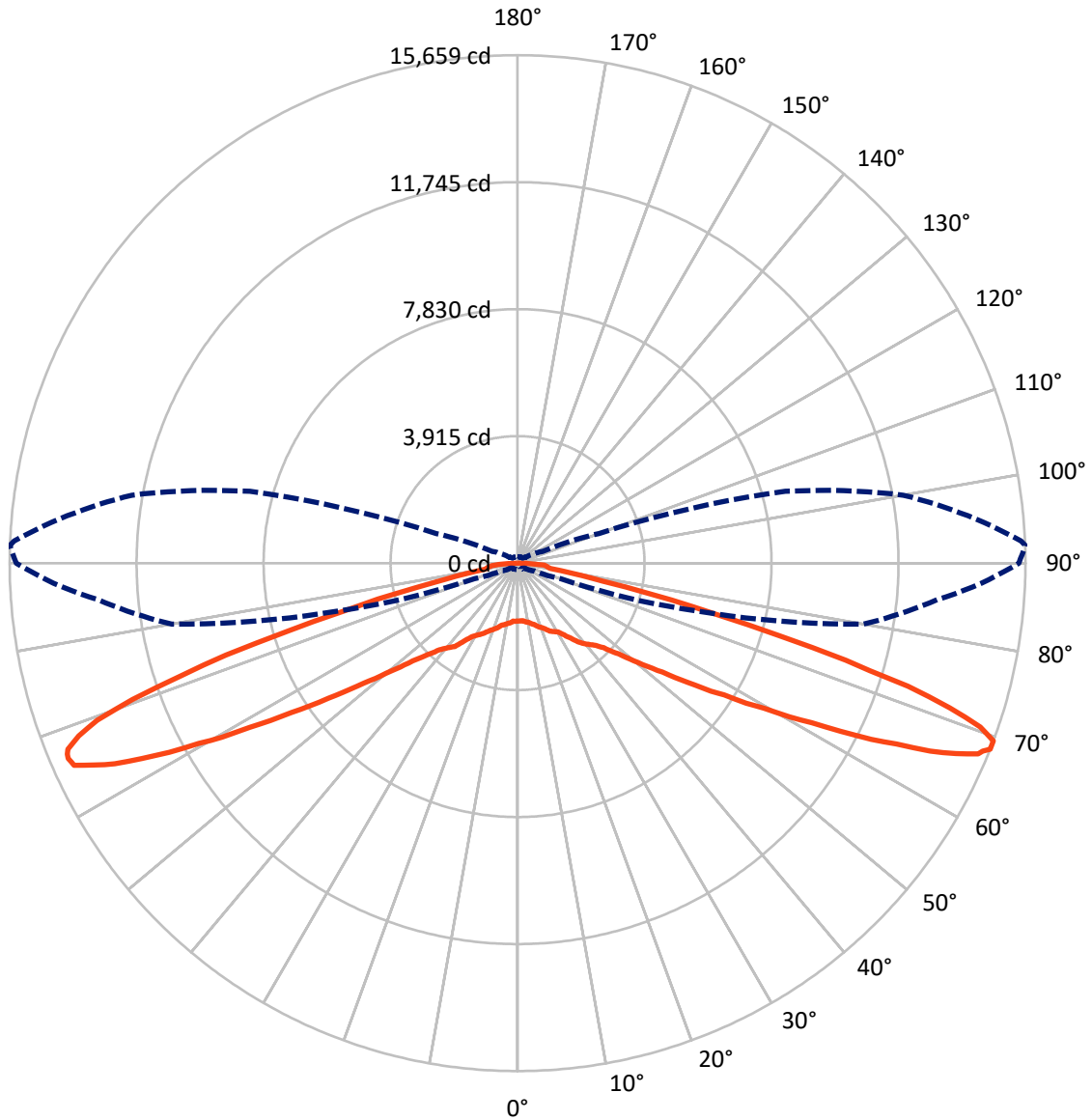
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 fc  
 Type I - Short - N/A

REPORT NUMBER: P676107  
CATALOG NUMBER: CCW-SA-2E-727-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P676107  
 CATALOG NUMBER: CCW-SA-2E-727-U-T1

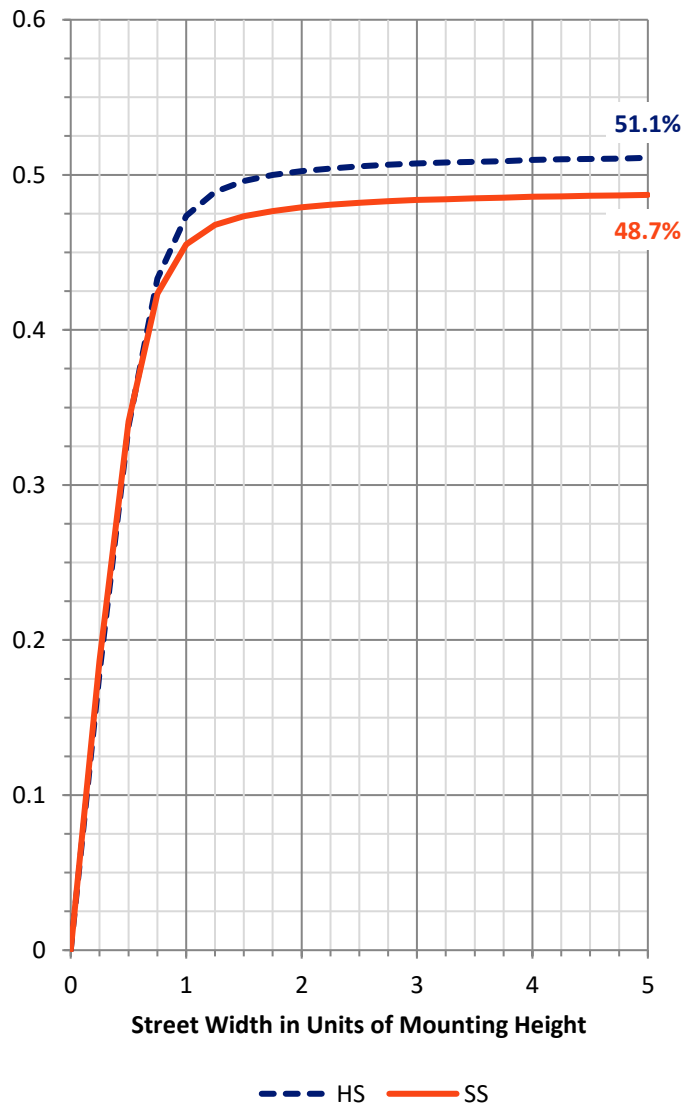
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5734.3	0.0	5734.3
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	5400.6	0.0	5400.6
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	11135.0	0.0	11135.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	1.6
10°-20°	577.6	5.2
20°-30°	985.8	8.9
30°-40°	1376.4	12.4
40°-50°	1750.8	15.7
50°-60°	2213.8	19.9
60°-70°	2730.2	24.5
70°-80°	1192.6	10.7
80°-90°	129.4	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°	11135.0	100.0
0°-180°	11135.0	100.0



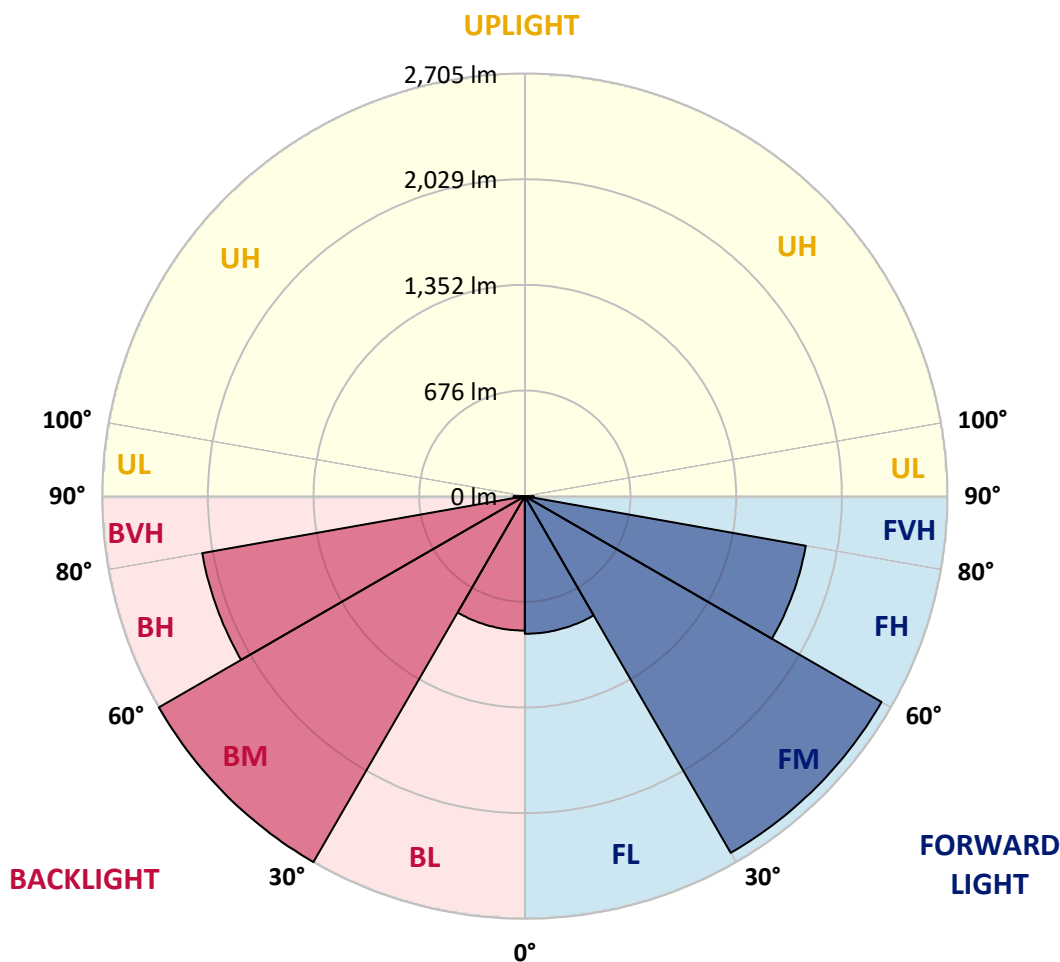
REPORT NUMBER: P676107  
 CATALOG NUMBER: CCW-SA-2E-727-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.2	7.9			
FM (30°-60°)	2636.1	23.7			
FH (60°-80°)	1825.9	16.4			G2/5000
FVH (80°-90°)	57.4	0.5			G1/100
BL (0°-30°)	860.5	7.7	B2/1000		
BM (30°-60°)	2704.9	24.3	B3/5000		
BH (60°-80°)	2096.9	18.8	B3/2500		G3/2500
BVH (80°-90°)	72.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





REPORT NUMBER: P676107

CATALOG NUMBER: CCW-SA-2E-727-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6
2.5°	1818.2	1816.1	1822.4	1826.5	1807.7	1814.0	1809.8	1805.6	1791.0	1784.7	1772.2
5°	1868.3	1874.6	1895.5	1876.7	1885.1	1874.6	1841.2	1851.6	1832.8	1828.6	1816.1
7.5°	1956.1	1943.6	1972.8	1951.9	1958.2	1937.3	1922.7	1903.9	1899.7	1870.4	1872.5
10°	1974.9	2000.0	2012.5	2008.4	2012.5	2023.0	1995.8	1966.6	1926.9	1918.5	1889.2
12.5°	1962.4	1985.4	2018.8	2046.0	2064.8	2069.0	2058.5	2052.3	2035.5	1987.5	1985.4
15°	1949.8	1933.1	1954.0	2048.1	2110.8	2152.6	2167.2	2131.7	2135.8	2073.2	2048.1
17.5°	1866.3	1841.2	1922.7	2014.6	2092.0	2183.9	2255.0	2244.5	2244.5	2194.4	2158.8
20°	1755.5	1797.3	1839.1	1956.1	2098.2	2236.2	2372.0	2365.7	2340.7	2326.0	2248.7
22.5°	1661.4	1680.3	1757.6	1880.9	2058.5	2250.8	2411.7	2526.7	2468.1	2409.6	2363.6
25°	1596.7	1579.9	1678.2	1805.6	2020.9	2225.7	2486.9	2606.1	2637.4	2593.5	2505.8
27.5°	1504.7	1504.7	1582.0	1703.2	1899.7	2213.2	2560.1	2741.9	2787.9	2723.1	2595.6
30°	1400.2	1412.8	1479.6	1617.6	1809.8	2121.2	2589.3	2898.6	2936.3	2879.8	2748.2
32.5°	1318.7	1318.7	1393.9	1540.2	1747.1	2079.4	2570.5	3053.3	3124.4	3082.6	2946.7
35°	1230.9	1224.7	1279.0	1439.9	1646.8	1997.9	2564.3	3176.6	3335.4	3337.5	3195.4
37.5°	1105.5	1130.6	1199.6	1327.1	1567.4	1918.5	2545.5	3325.0	3609.2	3657.3	3559.0
40°	1021.9	1032.4	1095.1	1235.1	1444.1	1824.5	2518.3	3446.2	3791.0	3956.1	3820.3
42.5°	900.7	915.4	963.4	1136.9	1325.0	1690.7	2399.2	3531.9	4050.2	4238.3	4123.3
45°	773.3	781.6	852.7	994.8	1197.5	1531.9	2271.7	3669.8	4301.0	4685.5	4618.6
47.5°	620.7	624.9	685.5	833.9	1044.9	1373.0	2075.2	3663.5	4503.7	5132.7	5320.8
50°	484.8	495.3	541.3	662.5	861.0	1178.7	1847.4	3613.4	4758.6	5642.6	6012.6
52.5°	386.6	388.7	418.0	514.1	664.6	984.3	1602.9	3454.6	4999.0	6142.1	6861.0
55°	319.8	319.8	336.5	395.0	509.9	748.2	1316.6	3191.2	5028.2	6693.9	7786.9
56°	307.2	303.0	317.7	367.8	459.8	675.0	1182.9	3013.6	5070.0	6948.8	8250.8
57°	290.5	292.6	300.9	336.5	413.8	597.7	1034.5	2840.1	5040.8	7157.8	8593.5
58°	282.1	278.0	294.7	317.7	365.7	530.8	932.1	2635.3	4994.8	7329.2	9093.0
59°	269.6	267.5	278.0	298.9	340.6	472.3	806.7	2413.8	4904.9	7550.7	9465.0
60°	265.4	263.3	267.5	284.2	313.5	413.8	710.6	2154.7	4664.6	7778.5	9926.9
61°	252.9	255.0	263.3	273.8	296.8	372.0	639.5	1889.2	4507.8	7970.8	10436.8
62°	255.0	250.8	255.0	263.3	280.0	342.7	560.1	1628.0	4227.8	8188.1	10819.3
63°	242.4	240.3	246.6	257.1	265.4	309.3	489.0	1406.5	3910.1	8238.3	11143.2
64°	238.2	236.2	238.2	252.9	255.0	290.5	432.6	1201.7	3450.4	8324.0	11559.1
65°	227.8	227.8	232.0	238.2	246.6	273.8	386.6	1042.8	2992.7	8098.2	11686.6
66°	219.4	221.5	221.5	232.0	238.2	255.0	355.3	886.1	2553.8	7738.8	11809.9
67°	213.2	213.2	215.3	223.6	229.9	240.3	319.8	767.0	2154.7	7310.4	11619.7
67.5°	209.0	211.1	211.1	219.4	225.7	240.3	305.1	727.3	1926.9	6840.1	11477.6
68°	202.7	204.8	204.8	213.2	219.4	232.0	294.7	664.6	1776.4	6535.0	11214.2
69°	198.5	196.4	196.4	204.8	213.2	221.5	273.8	581.0	1412.8	5682.4	10829.7
70°	186.0	186.0	190.2	196.4	202.7	211.1	252.9	512.0	1195.4	4704.3	9839.1
71°	179.7	177.6	179.7	186.0	192.3	202.7	232.0	453.5	978.1	3906.0	8865.2
72°	167.2	171.4	171.4	177.6	183.9	190.2	217.3	395.0	821.3	3122.3	7793.1
72.5°	165.1	165.1	167.2	173.5	177.6	188.1	209.0	378.3	750.3	2752.4	7343.8
73°	158.8	158.8	160.9	167.2	171.4	181.8	202.7	340.6	683.4	2449.3	6503.7
74°	152.6	150.5	150.5	158.8	160.9	171.4	190.2	300.9	572.6	1845.4	5220.5
75°	142.1	142.1	144.2	148.4	150.5	158.8	175.5	267.5	482.8	1431.6	4083.6



REPORT NUMBER: P676107  
 CATALOG NUMBER: CCW-SA-2E-727-U-T1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	117.0	119.1	121.2	125.4	125.4	131.7	144.2	186.0	294.7	725.2	1874.6
80°	85.7	89.9	96.1	102.4	100.3	100.3	112.9	133.8	175.5	326.0	718.9
82.5°	69.0	73.1	66.9	75.2	75.2	71.1	81.5	98.2	119.1	160.9	257.1
85°	46.0	48.1	39.7	46.0	43.9	43.9	54.3	58.5	73.1	89.9	127.5
87.5°	20.9	20.9	16.7	18.8	18.8	18.8	27.2	20.9	31.3	43.9	75.2
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: P676107

CATALOG NUMBER: CCW-SA-2E-727-U-T1

**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6
2.5°	1784.7	1793.1	1793.1	1784.7	1778.5	1784.7	1780.6	1770.1	1780.6	1784.7	1786.8
5°	1809.8	1793.1	1801.5	1782.7	1795.2	1793.1	1788.9	1799.4	1801.5	1801.5	1816.1
7.5°	1837.0	1857.9	1830.7	1832.8	1839.1	1814.0	1822.4	1826.5	1818.2	1834.9	1847.4
10°	1885.1	1893.4	1885.1	1853.7	1874.6	1857.9	1851.6	1870.4	1866.3	1870.4	1889.2
12.5°	1928.9	1943.6	1920.6	1918.5	1908.1	1893.4	1901.8	1899.7	1928.9	1933.1	1956.1
15°	2018.8	1981.2	1972.8	1970.7	1966.6	1960.3	1964.5	1966.6	2004.2	2010.5	2064.8
17.5°	2096.1	2089.9	2043.9	2060.6	2060.6	2035.5	2025.1	2060.6	2089.9	2121.2	2158.8
20°	2175.6	2169.3	2119.1	2121.2	2102.4	2125.4	2112.9	2146.3	2196.5	2206.9	2240.3
22.5°	2269.6	2242.4	2206.9	2211.1	2217.4	2200.6	2192.3	2238.3	2288.4	2317.7	2319.8
25°	2418.0	2349.0	2319.8	2323.9	2315.6	2303.0	2309.3	2367.8	2392.9	2455.6	2443.1
27.5°	2497.4	2457.7	2436.8	2388.7	2390.8	2372.0	2397.1	2484.9	2535.0	2583.1	2486.9
30°	2593.5	2568.4	2476.5	2459.8	2457.7	2449.3	2495.3	2608.2	2683.4	2710.6	2572.6
32.5°	2781.6	2681.3	2658.3	2643.7	2610.2	2620.7	2643.7	2792.1	2911.2	2904.9	2652.0
35°	2996.9	2927.9	2863.1	2850.6	2846.4	2817.1	2856.9	3030.3	3122.3	3095.1	2681.3
37.5°	3341.7	3237.2	3149.4	3101.4	3093.0	3072.1	3166.2	3304.1	3423.2	3316.6	2704.3
40°	3511.0	3393.9	3312.4	3283.2	3289.5	3318.7	3410.7	3621.7	3674.0	3477.5	2723.1
42.5°	3753.4	3625.9	3465.0	3450.4	3431.6	3446.2	3623.8	3908.1	3951.9	3694.9	2652.0
45°	4183.9	3991.7	3805.7	3722.1	3726.2	3765.9	4041.8	4353.2	4271.7	3845.4	2539.2
47.5°	4727.3	4445.2	4294.7	4181.8	4236.2	4192.3	4631.2	4879.8	4601.9	4035.5	2401.3
50°	5544.4	5149.4	4944.6	4808.8	4831.8	4869.4	5314.5	5525.6	4967.6	4127.5	2190.2
52.5°	6574.7	6066.9	5766.0	5584.1	5600.9	5682.4	6257.1	6192.3	5385.6	4204.8	1908.1
55°	7807.8	7285.3	6702.2	6627.0	6608.2	6802.5	7435.8	6890.3	5761.8	4081.5	1615.5
56°	8459.8	7903.9	7297.8	7143.2	7097.2	7233.0	7977.0	7239.3	5891.3	3943.6	1475.4
57°	9013.6	8482.8	7818.2	7554.9	7613.4	7868.4	8514.1	7567.4	6010.5	3801.5	1343.8
58°	9774.3	9168.3	8466.1	8265.4	8213.2	8415.9	9093.0	7897.6	6050.2	3655.2	1222.6
59°	10532.9	9805.7	9172.4	8806.7	8821.3	9191.2	9663.6	8290.5	6110.8	3469.2	1067.9
60°	11109.7	10744.0	9897.6	9623.9	9586.2	10121.2	10232.0	8553.8	6175.6	3218.4	959.3
61°	11926.9	11450.4	10662.5	10309.3	10411.7	10840.2	10846.4	8884.0	6079.4	2900.7	825.5
62°	12514.1	12388.7	11561.2	11224.7	11193.3	11761.8	11485.9	9174.5	5995.8	2599.8	729.4
63°	13201.7	13201.7	12447.3	12183.9	12198.6	12647.9	11763.9	9465.0	5899.7	2267.5	641.6
64°	13559.1	14008.4	13312.5	12942.6	13038.7	13427.4	12259.2	9655.2	5602.9	1931.0	564.3
65°	13868.4	14543.4	14156.8	13985.4	13839.1	14069.0	12687.6	9832.8	5149.4	1642.6	501.6
66°	14129.6	15047.1	14919.6	14735.7	14721.0	14668.8	12771.2	9826.6	4681.3	1387.7	438.9
67°	13997.9	15057.5	15289.5	15366.8	15343.8	14792.1	12624.9	9603.0	4081.5	1172.4	390.8
67.5°	13878.8	14971.8	15511.0	15467.1	15563.3	14896.6	12650.0	9329.2	3655.2	1061.7	367.8
68°	13774.3	14856.9	15600.9	15657.3	15609.2	14909.1	12512.1	9111.8	3364.7	996.9	346.9
69°	12982.3	14311.4	15456.7	15659.4	15536.1	14430.6	12073.2	8545.5	2672.9	850.6	319.8
70°	12188.1	13605.1	14756.6	15128.6	14976.0	13504.7	11519.4	7644.7	2204.8	727.3	288.4
71°	11088.8	12292.6	13824.5	14048.1	13864.2	12451.4	10374.1	6693.9	1715.8	616.5	257.1
72°	9596.7	10618.6	12081.5	12622.8	12351.1	10936.3	9216.3	5531.9	1389.8	518.3	234.1
72.5°	8856.9	9903.9	11314.6	11358.4	11410.7	10278.0	8725.2	4858.9	1212.1	480.7	227.8
73°	8154.7	9180.8	10401.3	10555.9	10334.4	9168.3	7991.7	4344.8	1107.6	438.9	219.4
74°	6608.2	7193.3	8204.8	8355.3	8160.9	7475.5	6530.8	3331.3	881.9	378.3	200.6
75°	5199.6	5521.4	6436.8	6344.8	6054.4	5814.0	5063.8	2545.5	714.7	332.3	186.0



REPORT NUMBER: P676107  
 CATALOG NUMBER: CCW-SA-2E-727-U-T1

**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2336.5	2530.8	2683.4	2683.4	2700.1	2576.8	2334.4	1168.2	441.0	240.3	152.6
80°	890.3	996.9	1030.3	1032.4	1047.0	1084.6	1009.4	574.7	261.2	171.4	123.3
82.5°	645.8	902.8	971.8	921.6	925.8	835.9	386.6	255.0	165.1	119.1	89.9
85°	585.2	785.8	831.8	825.5	827.6	773.3	227.8	125.4	96.1	75.2	62.7
87.5°	284.2	278.0	294.7	332.3	323.9	420.1	192.3	62.7	41.8	31.3	31.3
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: P676107

CATALOG NUMBER: CCW-SA-2E-727-U-T1

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	1780.6	1780.6	1780.6	1780.6	1780.6	1780.6
2.5°	1770.1	1768.0	1797.3	1768.0	1784.7	1772.2
5°	1791.0	1799.4	1805.6	1818.2	1788.9	1818.2
7.5°	1853.7	1862.1	1864.2	1874.6	1862.1	1860.0
10°	1901.8	1922.7	1935.2	1893.4	1918.5	1916.4
12.5°	1995.8	1974.9	1972.8	1964.5	1941.5	1933.1
15°	2062.7	2031.4	2012.5	1979.1	1951.9	1941.5
17.5°	2156.7	2096.1	2018.8	1949.8	1901.8	1864.2
20°	2215.3	2106.6	1951.9	1870.4	1797.3	1814.0
22.5°	2252.9	2096.1	1891.3	1786.8	1713.7	1734.6
25°	2265.4	2043.9	1849.5	1720.0	1648.9	1634.3
27.5°	2229.9	1983.3	1768.0	1621.7	1559.0	1571.6
30°	2213.2	1895.5	1692.8	1548.6	1465.0	1477.5
32.5°	2169.3	1805.6	1592.5	1446.2	1385.6	1364.7
35°	2106.6	1730.4	1496.3	1358.4	1285.3	1268.6
37.5°	2029.3	1636.4	1412.8	1245.6	1180.8	1168.2
40°	1914.3	1523.5	1291.5	1147.3	1072.1	1070.0
42.5°	1814.0	1414.8	1178.7	1030.3	955.1	959.3
45°	1686.5	1268.6	1049.1	921.6	846.4	850.6
47.5°	1523.5	1132.7	925.8	783.7	721.0	716.8
50°	1331.2	978.1	775.3	654.1	601.9	591.4
52.5°	1147.3	821.3	635.3	526.6	482.8	478.6
55°	915.4	639.5	495.3	413.8	380.4	382.4
56°	831.8	589.3	451.4	378.3	353.2	353.2
57°	752.4	522.5	409.6	349.0	326.0	326.0
58°	664.6	459.8	372.0	315.6	305.1	296.8
59°	604.0	418.0	336.5	298.9	282.1	280.0
60°	532.9	376.2	313.5	280.0	267.5	265.4
61°	472.3	338.6	288.4	261.2	257.1	257.1
62°	422.2	313.5	267.5	252.9	250.8	244.5
63°	378.3	288.4	257.1	240.3	234.1	240.3
64°	338.6	265.4	248.7	236.2	227.8	232.0
65°	307.2	255.0	238.2	229.9	221.5	223.6
66°	286.3	238.2	229.9	219.4	215.3	217.3
67°	259.1	229.9	221.5	211.1	209.0	211.1
67.5°	250.8	223.6	217.3	206.9	204.8	206.9
68°	244.5	219.4	215.3	204.8	202.7	200.6
69°	227.8	211.1	204.8	200.6	196.4	194.4
70°	213.2	202.7	198.5	192.3	188.1	186.0
71°	204.8	192.3	190.2	183.9	179.7	177.6
72°	194.4	186.0	181.8	173.5	171.4	173.5
72.5°	192.3	181.8	179.7	171.4	169.3	169.3
73°	186.0	173.5	175.5	167.2	163.0	167.2
74°	173.5	169.3	165.1	158.8	156.7	156.7
75°	163.0	158.8	154.7	150.5	150.5	150.5



REPORT NUMBER: P676107  
CATALOG NUMBER: CCW-SA-2E-727-U-T1

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	137.9	135.8	137.9	129.6	127.5	125.4
80°	110.8	110.8	112.9	106.6	102.4	100.3
82.5°	83.6	85.7	89.9	83.6	79.4	75.2
85°	54.3	56.4	56.4	50.2	58.5	54.3
87.5°	27.2	29.3	27.2	25.1	29.3	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)