

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: P676139

Luminaire Tested: **CCW-SA-2D-740-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676139
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

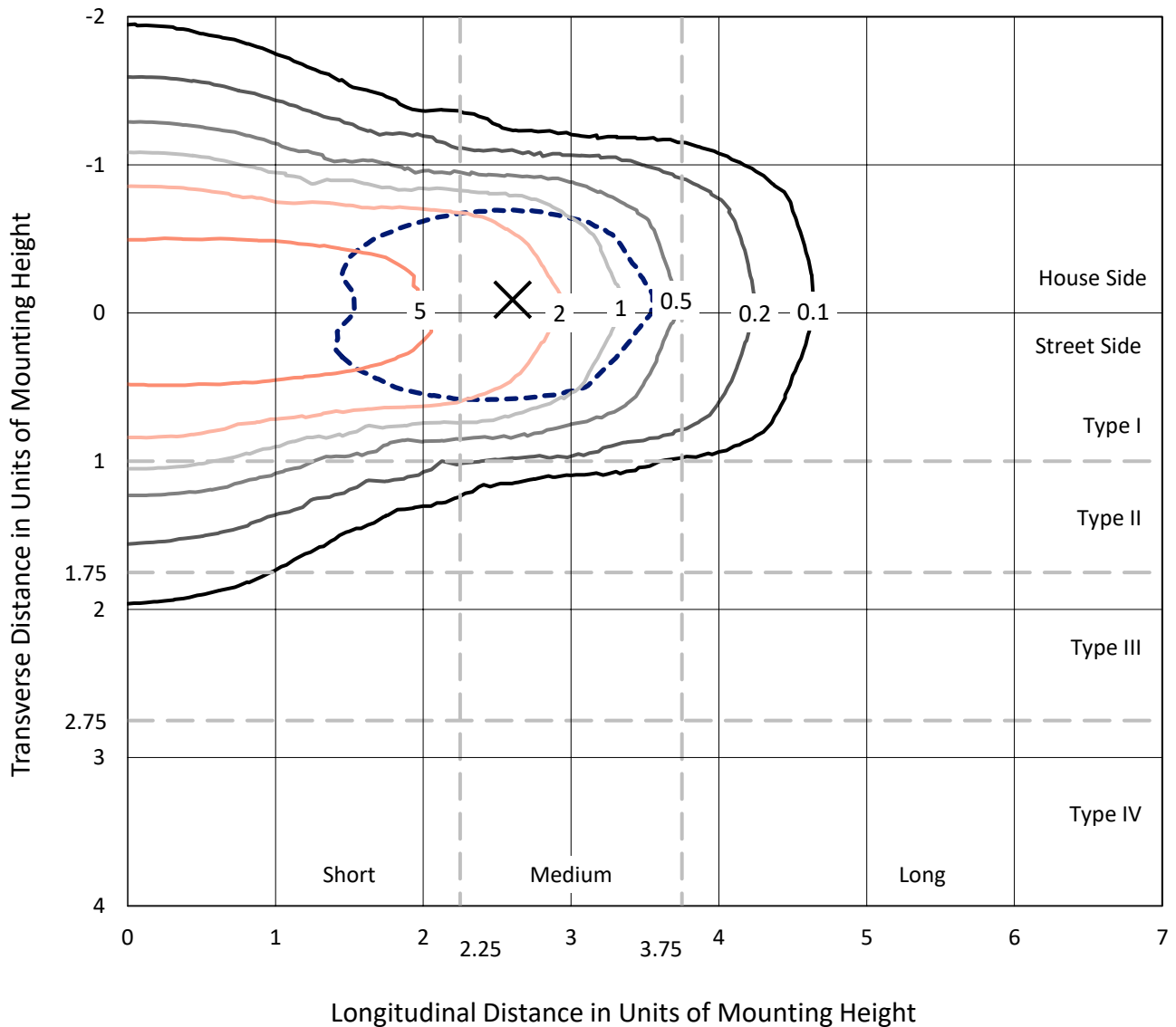
Lumens per Lamp: N/A
Luminaire Lumens: 10860.3 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 80.8
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

REPORT NUMBER: P676139
 CATALOG NUMBER: CCW-SA-2D-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

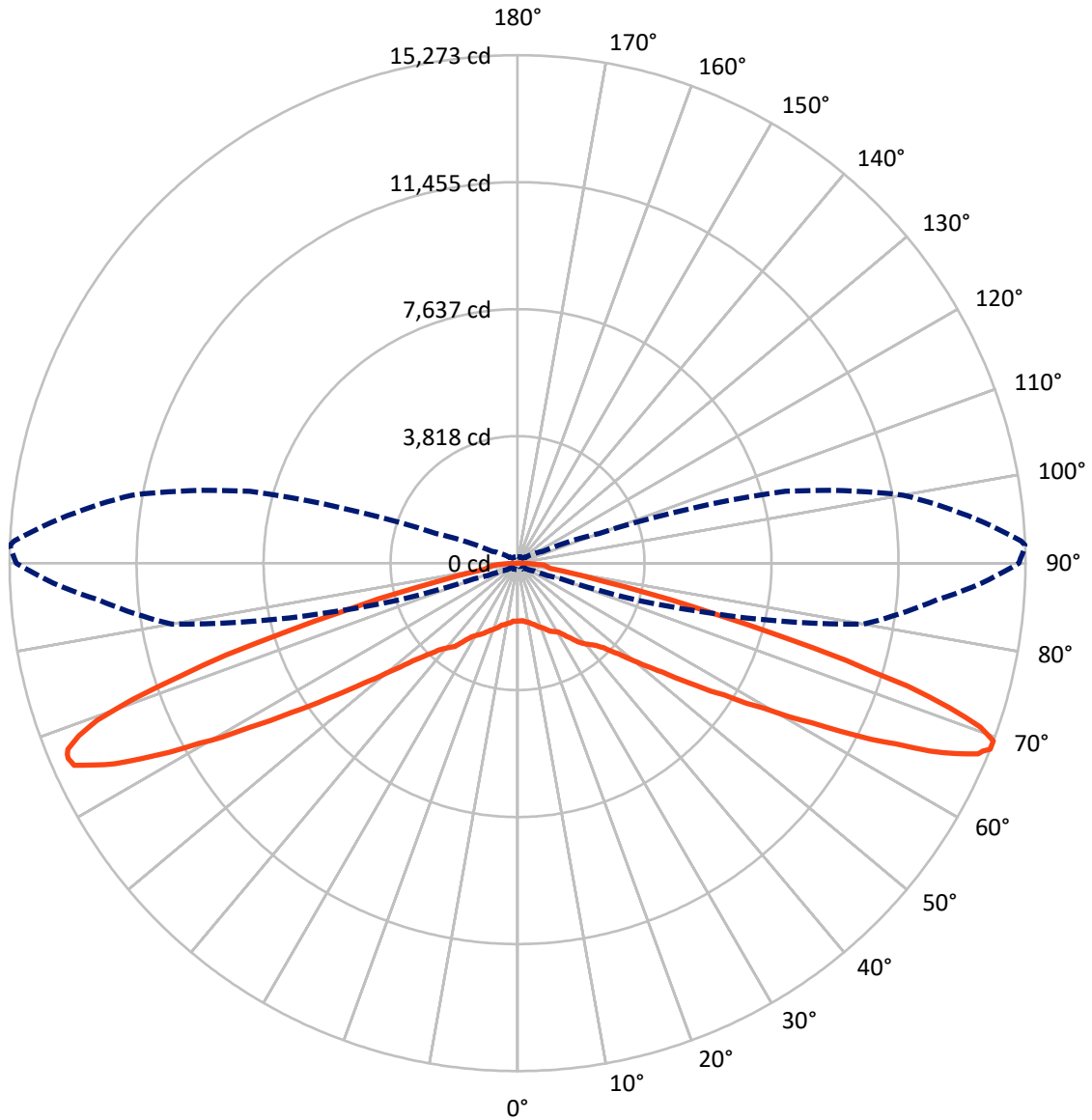
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.4 fc
 Type I - Short - N/A

REPORT NUMBER: P676139
CATALOG NUMBER: CCW-SA-2D-740-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676139
 CATALOG NUMBER: CCW-SA-2D-740-U-T1

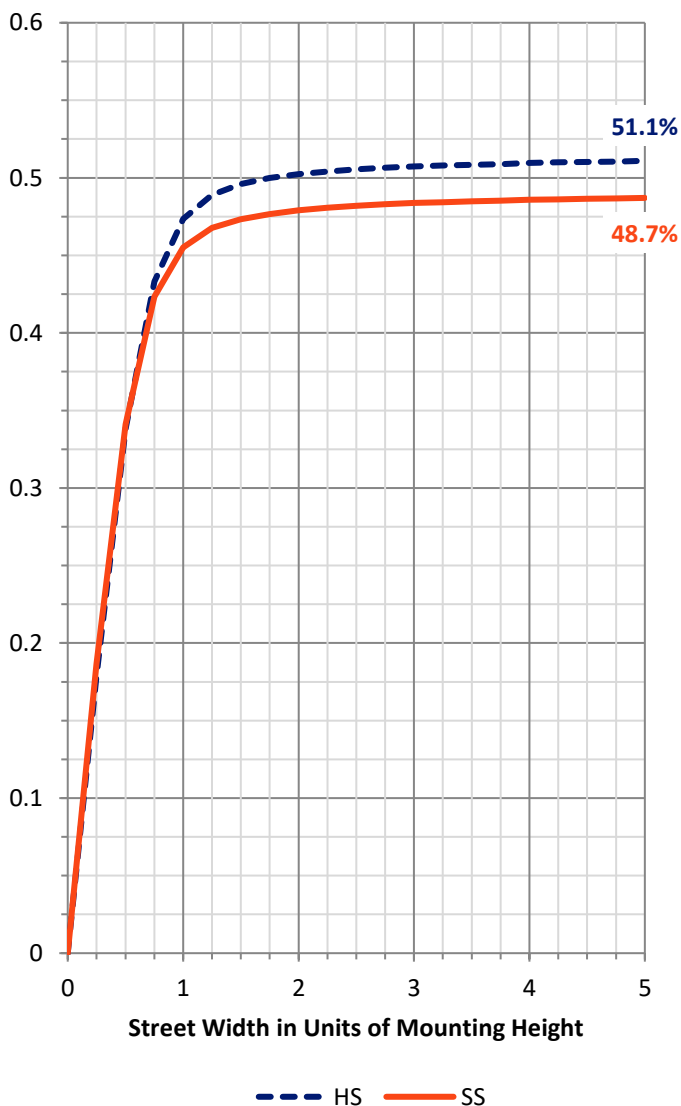
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5592.9	0.0	5592.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	5267.4	0.0	5267.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	10860.3	0.0	10860.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	1.6
10°-20°	563.4	5.2
20°-30°	961.5	8.9
30°-40°	1342.5	12.4
40°-50°	1707.7	15.7
50°-60°	2159.2	19.9
60°-70°	2662.8	24.5
70°-80°	1163.2	10.7
80°-90°	126.2	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°	10860.3	100.0
0°-180°	10860.3	100.0



REPORT NUMBER: P676139

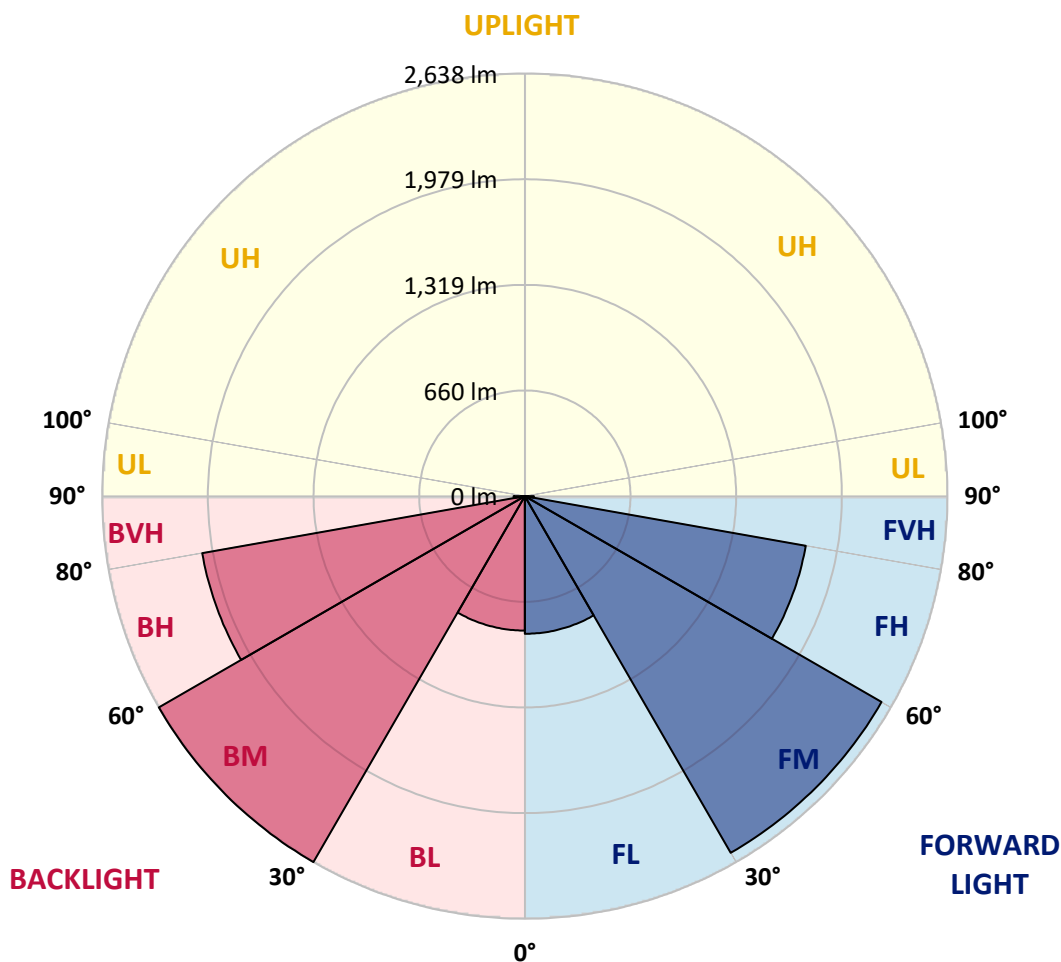
CATALOG NUMBER: CCW-SA-2D-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	859.5	7.9			
FM	(30°-60°)	2571.1	23.7			
FH	(60°-80°)	1780.9	16.4			G1/1800
FVH	(80°-90°)	55.9	0.5			G1/100
BL	(0°-30°)	839.3	7.7	B2/1000		
BM	(30°-60°)	2638.2	24.3	B3/5000		
BH	(60°-80°)	2045.2	18.8	B3/2500		G3/2500
BVH	(80°-90°)	70.2	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: P676139

CATALOG NUMBER: CCW-SA-2D-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7
2.5°	1773.3	1771.3	1777.4	1781.5	1763.2	1769.3	1765.2	1761.1	1746.8	1740.7	1728.5
5°	1822.3	1828.4	1848.8	1830.4	1838.6	1828.4	1795.8	1806.0	1787.6	1783.5	1771.3
7.5°	1907.9	1895.6	1924.2	1903.8	1909.9	1889.5	1875.3	1856.9	1852.8	1824.3	1826.3
10°	1926.2	1950.7	1962.9	1958.8	1962.9	1973.1	1946.6	1918.1	1879.3	1871.2	1842.7
12.5°	1914.0	1936.4	1969.0	1995.5	2013.9	2017.9	2007.8	2001.6	1985.3	1938.5	1936.4
15°	1901.8	1885.5	1905.8	1997.6	2058.7	2099.5	2113.7	2079.1	2083.2	2022.0	1997.6
17.5°	1820.2	1795.8	1875.3	1965.0	2040.4	2130.1	2199.4	2189.2	2189.2	2140.2	2105.6
20°	1712.2	1753.0	1793.7	1907.9	2046.5	2181.0	2313.5	2307.4	2282.9	2268.7	2193.2
22.5°	1620.5	1638.8	1714.2	1834.5	2007.8	2195.3	2352.2	2464.3	2407.3	2350.2	2305.4
25°	1557.3	1541.0	1636.8	1761.1	1971.1	2170.8	2425.6	2541.8	2572.4	2529.6	2444.0
27.5°	1467.6	1467.6	1543.0	1661.2	1852.8	2158.6	2497.0	2674.3	2719.1	2655.9	2531.6
30°	1365.7	1377.9	1443.1	1577.7	1765.2	2068.9	2525.5	2827.2	2863.9	2808.8	2680.4
32.5°	1286.2	1286.2	1359.6	1502.2	1704.0	2028.1	2507.1	2978.0	3047.3	3006.5	2874.0
35°	1200.6	1194.5	1247.5	1404.4	1606.2	1948.6	2501.0	3098.3	3253.2	3255.2	3116.6
37.5°	1078.3	1102.7	1170.0	1294.3	1528.7	1871.2	2482.7	3243.0	3520.2	3567.1	3471.3
40°	996.7	1006.9	1068.1	1204.7	1408.5	1779.5	2456.2	3361.2	3697.5	3858.6	3726.1
42.5°	878.5	892.8	939.7	1108.9	1292.3	1649.0	2340.0	3444.8	3950.3	4133.7	4021.6
45°	754.2	762.3	831.6	970.2	1168.0	1494.1	2215.7	3579.3	4194.9	4569.9	4504.7
47.5°	605.4	609.5	668.6	813.3	1019.2	1339.2	2024.1	3573.2	4392.6	5006.1	5189.6
50°	472.9	483.1	527.9	646.2	839.8	1149.6	1801.9	3524.3	4641.3	5503.5	5864.3
52.5°	377.1	379.1	407.7	501.4	648.2	960.1	1563.4	3369.4	4875.7	5990.7	6691.8
55°	311.9	311.9	328.2	385.2	497.4	729.7	1284.1	3112.5	4904.2	6528.8	7594.8
56°	299.6	295.6	309.8	358.7	448.4	658.4	1153.7	2939.3	4945.0	6777.4	8047.3
57°	283.3	285.4	293.5	328.2	403.6	583.0	1009.0	2770.1	4916.5	6981.3	8381.6
58°	275.2	271.1	287.4	309.8	356.7	517.7	909.1	2570.3	4871.6	7148.4	8868.8
59°	262.9	260.9	271.1	291.5	332.2	460.7	786.8	2354.3	4784.0	7364.5	9231.6
60°	258.9	256.8	260.9	277.2	305.7	403.6	693.0	2101.5	4549.6	7586.7	9682.1
61°	246.6	248.7	256.8	267.0	289.4	362.8	623.7	1842.7	4396.7	7774.2	10179.4
62°	248.7	244.6	248.7	256.8	273.1	334.3	546.3	1587.9	4123.5	7986.2	10552.4
63°	236.4	234.4	240.5	250.7	258.9	301.7	477.0	1371.8	3813.7	8035.1	10868.4
64°	232.4	230.3	232.4	246.6	248.7	283.3	421.9	1172.0	3365.3	8118.7	11274.0
65°	222.2	222.2	226.3	232.4	240.5	267.0	377.1	1017.1	2918.9	7898.5	11398.3
66°	214.0	216.1	216.1	226.3	232.4	248.7	346.5	864.3	2490.8	7547.9	11518.6
67°	207.9	207.9	209.9	218.1	224.2	234.4	311.9	748.1	2101.5	7130.1	11333.1
67.5°	203.8	205.9	205.9	214.0	220.1	234.4	297.6	709.3	1879.3	6671.5	11194.5
68°	197.7	199.8	199.8	207.9	214.0	226.3	287.4	648.2	1732.6	6373.9	10937.7
69°	193.6	191.6	191.6	199.8	207.9	216.1	267.0	566.7	1377.9	5542.2	10562.6
70°	181.4	181.4	185.5	191.6	197.7	205.9	246.6	499.4	1165.9	4588.3	9596.5
71°	175.3	173.3	175.3	181.4	187.5	197.7	226.3	442.3	953.9	3809.6	8646.6
72°	163.1	167.1	167.1	173.3	179.4	185.5	212.0	385.2	801.1	3045.3	7600.9
72.5°	161.0	161.0	163.1	169.2	173.3	183.4	203.8	368.9	731.8	2684.5	7162.7
73°	154.9	154.9	157.0	163.1	167.1	177.3	197.7	332.2	666.5	2388.9	6343.3
74°	148.8	146.8	146.8	154.9	157.0	167.1	185.5	293.5	558.5	1799.8	5091.7
75°	138.6	138.6	140.6	144.7	146.8	154.9	171.2	260.9	470.9	1396.3	3982.9



REPORT NUMBER: P676139
 CATALOG NUMBER: CCW-SA-2D-740-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	114.1	116.2	118.2	122.3	122.3	128.4	140.6	181.4	287.4	707.3	1828.4
80°	83.6	87.6	93.8	99.9	97.8	97.8	110.1	130.5	171.2	318.0	701.2
82.5°	67.3	71.3	65.2	73.4	73.4	69.3	79.5	95.8	116.2	157.0	250.7
85°	44.8	46.9	38.7	44.8	42.8	42.8	53.0	57.1	71.3	87.6	124.3
87.5°	20.4	20.4	16.3	18.3	18.3	18.3	26.5	20.4	30.6	42.8	73.4
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: P676139

CATALOG NUMBER: CCW-SA-2D-740-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7
2.5°	1740.7	1748.9	1748.9	1740.7	1734.6	1740.7	1736.7	1726.5	1736.7	1740.7	1742.8
5°	1765.2	1748.9	1757.0	1738.7	1750.9	1748.9	1744.8	1755.0	1757.0	1757.0	1771.3
7.5°	1791.7	1812.1	1785.6	1787.6	1793.7	1769.3	1777.4	1781.5	1773.3	1789.7	1801.9
10°	1838.6	1846.7	1838.6	1808.0	1828.4	1812.1	1806.0	1824.3	1820.2	1824.3	1842.7
12.5°	1881.4	1895.6	1873.2	1871.2	1861.0	1846.7	1854.9	1852.8	1881.4	1885.5	1907.9
15°	1969.0	1932.3	1924.2	1922.1	1918.1	1912.0	1916.0	1918.1	1954.8	1960.9	2013.9
17.5°	2044.4	2038.3	1993.5	2009.8	2009.8	1985.3	1975.1	2009.8	2038.3	2068.9	2105.6
20°	2121.9	2115.8	2066.9	2068.9	2050.6	2073.0	2060.8	2093.4	2142.3	2152.5	2185.1
22.5°	2213.6	2187.1	2152.5	2156.6	2162.7	2146.4	2138.2	2183.1	2232.0	2260.5	2262.5
25°	2358.3	2291.1	2262.5	2266.6	2258.5	2246.2	2252.4	2309.4	2333.9	2395.0	2382.8
27.5°	2435.8	2397.1	2376.7	2329.8	2331.9	2313.5	2338.0	2423.6	2472.5	2519.4	2425.6
30°	2529.6	2505.1	2415.4	2399.1	2397.1	2388.9	2433.8	2543.8	2617.2	2643.7	2509.2
32.5°	2713.0	2615.2	2592.8	2578.5	2545.9	2556.1	2578.5	2723.2	2839.4	2833.3	2586.6
35°	2923.0	2855.7	2792.5	2780.3	2776.2	2747.7	2786.4	2955.6	3045.3	3018.8	2615.2
37.5°	3259.3	3157.4	3071.8	3024.9	3016.7	2996.3	3088.1	3222.6	3338.8	3234.8	2637.6
40°	3424.4	3310.2	3230.8	3202.2	3208.3	3236.9	3326.6	3532.4	3583.4	3391.8	2655.9
42.5°	3660.8	3536.5	3379.6	3365.3	3346.9	3361.2	3534.5	3811.7	3854.5	3603.8	2586.6
45°	4080.7	3893.2	3711.8	3630.3	3634.3	3673.1	3942.1	4245.8	4166.3	3750.5	2476.6
47.5°	4610.7	4335.5	4188.8	4078.7	4131.7	4088.9	4516.9	4759.5	4488.4	3936.0	2342.0
50°	5407.7	5022.4	4822.7	4690.2	4712.6	4749.3	5183.5	5389.3	4845.1	4025.7	2136.2
52.5°	6412.6	5917.3	5623.8	5446.4	5462.7	5542.2	6102.8	6039.6	5252.8	4101.1	1861.0
55°	7615.2	7105.6	6536.9	6463.5	6445.2	6634.8	7252.4	6720.4	5619.7	3980.9	1575.6
56°	8251.2	7709.0	7117.9	6967.0	6922.2	7054.7	7780.3	7060.8	5746.1	3846.3	1439.1
57°	8791.3	8273.6	7625.4	7368.6	7425.6	7674.3	8304.2	7380.8	5862.2	3707.7	1310.6
58°	9533.3	8942.2	8257.3	8061.6	8010.6	8208.4	8868.8	7702.9	5901.0	3565.0	1192.4
59°	10273.2	9563.8	8946.2	8589.5	8603.8	8964.6	9425.2	8086.1	5960.1	3383.6	1041.6
60°	10835.8	10479.1	9653.5	9386.5	9349.8	9871.6	9979.7	8342.9	6023.3	3139.0	935.6
61°	11632.8	11168.0	10399.6	10055.1	10155.0	10572.8	10578.9	8664.9	5929.5	2829.2	805.1
62°	12205.5	12083.2	11276.0	10947.9	10917.3	11471.7	11202.7	8948.3	5848.0	2535.7	711.4
63°	12876.1	12876.1	12140.3	11883.5	11897.7	12336.0	11473.8	9231.6	5754.2	2211.6	625.8
64°	13224.7	13662.9	12984.2	12623.4	12717.1	13096.3	11956.8	9417.1	5464.8	1883.4	550.3
65°	13526.4	14184.7	13807.7	13640.5	13497.8	13722.0	12374.7	9590.3	5022.4	1602.1	489.2
66°	13781.2	14676.0	14551.6	14372.3	14358.0	14307.0	12456.2	9584.2	4565.9	1353.5	428.0
67°	13652.7	14686.2	14912.4	14987.8	14965.4	14427.3	12313.6	9366.1	3980.9	1143.5	381.2
67.5°	13536.6	14602.6	15128.5	15085.7	15179.4	14529.2	12338.0	9099.1	3565.0	1035.5	358.7
68°	13434.6	14490.5	15216.1	15271.2	15224.3	14541.4	12203.5	8887.1	3281.7	972.3	338.4
69°	12662.1	13958.5	15075.5	15273.2	15152.9	14074.7	11775.4	8334.7	2607.0	829.6	311.9
70°	11887.5	13269.5	14392.7	14755.5	14606.7	13171.7	11235.3	7456.2	2150.4	709.3	281.3
71°	10815.4	11989.5	13483.6	13701.7	13522.3	12144.4	10118.3	6528.8	1673.5	601.3	250.7
72°	9360.0	10356.8	11783.6	12311.5	12046.5	10666.6	8989.0	5395.5	1355.5	505.5	228.3
72.5°	8638.4	9659.6	11035.5	11078.3	11129.3	10024.5	8510.0	4739.1	1182.2	468.8	222.2
73°	7953.6	8954.4	10144.8	10295.6	10079.5	8942.2	7794.6	4237.7	1080.3	428.0	214.0
74°	6445.2	7015.9	8002.5	8149.2	7959.7	7291.1	6369.8	3249.1	860.2	368.9	195.7
75°	5071.4	5385.3	6278.1	6188.4	5905.0	5670.6	4938.9	2482.7	697.1	324.1	181.4



REPORT NUMBER: P676139
 CATALOG NUMBER: CCW-SA-2D-740-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2278.9	2468.4	2617.2	2617.2	2633.5	2513.3	2276.8	1139.4	430.1	234.4	148.8
80°	868.3	972.3	1004.9	1006.9	1021.2	1057.9	984.5	560.5	254.8	167.1	120.3
82.5°	629.8	880.6	947.8	898.9	903.0	815.3	377.1	248.7	161.0	116.2	87.6
85°	570.7	766.4	811.3	805.1	807.2	754.2	222.2	122.3	93.8	73.4	61.1
87.5°	277.2	271.1	287.4	324.1	315.9	409.7	187.5	61.1	40.8	30.6	30.6
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: P676139

CATALOG NUMBER: CCW-SA-2D-740-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1736.7	1736.7	1736.7	1736.7	1736.7	1736.7
2.5°	1726.5	1724.4	1753.0	1724.4	1740.7	1728.5
5°	1746.8	1755.0	1761.1	1773.3	1744.8	1773.3
7.5°	1808.0	1816.2	1818.2	1828.4	1816.2	1814.1
10°	1854.9	1875.3	1887.5	1846.7	1871.2	1869.1
12.5°	1946.6	1926.2	1924.2	1916.0	1893.6	1885.5
15°	2011.8	1981.3	1962.9	1930.3	1903.8	1893.6
17.5°	2103.6	2044.4	1969.0	1901.8	1854.9	1818.2
20°	2160.6	2054.6	1903.8	1824.3	1753.0	1769.3
22.5°	2197.3	2044.4	1844.7	1742.8	1671.4	1691.8
25°	2209.6	1993.5	1803.9	1677.5	1608.2	1594.0
27.5°	2174.9	1934.4	1724.4	1581.7	1520.6	1532.8
30°	2158.6	1848.8	1651.0	1510.4	1428.9	1441.1
32.5°	2115.8	1761.1	1553.2	1410.5	1351.4	1331.0
35°	2054.6	1687.7	1459.4	1324.9	1253.6	1237.3
37.5°	1979.2	1596.0	1377.9	1214.8	1151.7	1139.4
40°	1867.1	1485.9	1259.7	1119.0	1045.7	1043.6
42.5°	1769.3	1379.9	1149.6	1004.9	931.5	935.6
45°	1644.9	1237.3	1023.2	898.9	825.5	829.6
47.5°	1485.9	1104.8	903.0	764.4	703.2	699.1
50°	1298.4	953.9	756.2	638.0	587.0	576.8
52.5°	1119.0	801.1	619.7	513.7	470.9	466.8
55°	892.8	623.7	483.1	403.6	371.0	373.0
56°	811.3	574.8	440.3	368.9	344.5	344.5
57°	733.8	509.6	399.5	340.4	318.0	318.0
58°	648.2	448.4	362.8	307.8	297.6	289.4
59°	589.1	407.7	328.2	291.5	275.2	273.1
60°	519.8	366.9	305.7	273.1	260.9	258.9
61°	460.7	330.2	281.3	254.8	250.7	250.7
62°	411.7	305.7	260.9	246.6	244.6	238.5
63°	368.9	281.3	250.7	234.4	228.3	234.4
64°	330.2	258.9	242.6	230.3	222.2	226.3
65°	299.6	248.7	232.4	224.2	216.1	218.1
66°	279.3	232.4	224.2	214.0	209.9	212.0
67°	252.8	224.2	216.1	205.9	203.8	205.9
67.5°	244.6	218.1	212.0	201.8	199.8	201.8
68°	238.5	214.0	209.9	199.8	197.7	195.7
69°	222.2	205.9	199.8	195.7	191.6	189.6
70°	207.9	197.7	193.6	187.5	183.4	181.4
71°	199.8	187.5	185.5	179.4	175.3	173.3
72°	189.6	181.4	177.3	169.2	167.1	169.2
72.5°	187.5	177.3	175.3	167.1	165.1	165.1
73°	181.4	169.2	171.2	163.1	159.0	163.1
74°	169.2	165.1	161.0	154.9	152.9	152.9
75°	159.0	154.9	150.8	146.8	146.8	146.8



REPORT NUMBER: P676139
CATALOG NUMBER: CCW-SA-2D-740-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	134.5	132.5	134.5	126.4	124.3	122.3
80°	108.0	108.0	110.1	104.0	99.9	97.8
82.5°	81.5	83.6	87.6	81.5	77.5	73.4
85°	53.0	55.0	55.0	48.9	57.1	53.0
87.5°	26.5	28.5	26.5	24.5	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)