

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: P676117

Luminaire Tested: **CCW-SA-2D-730-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676117
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

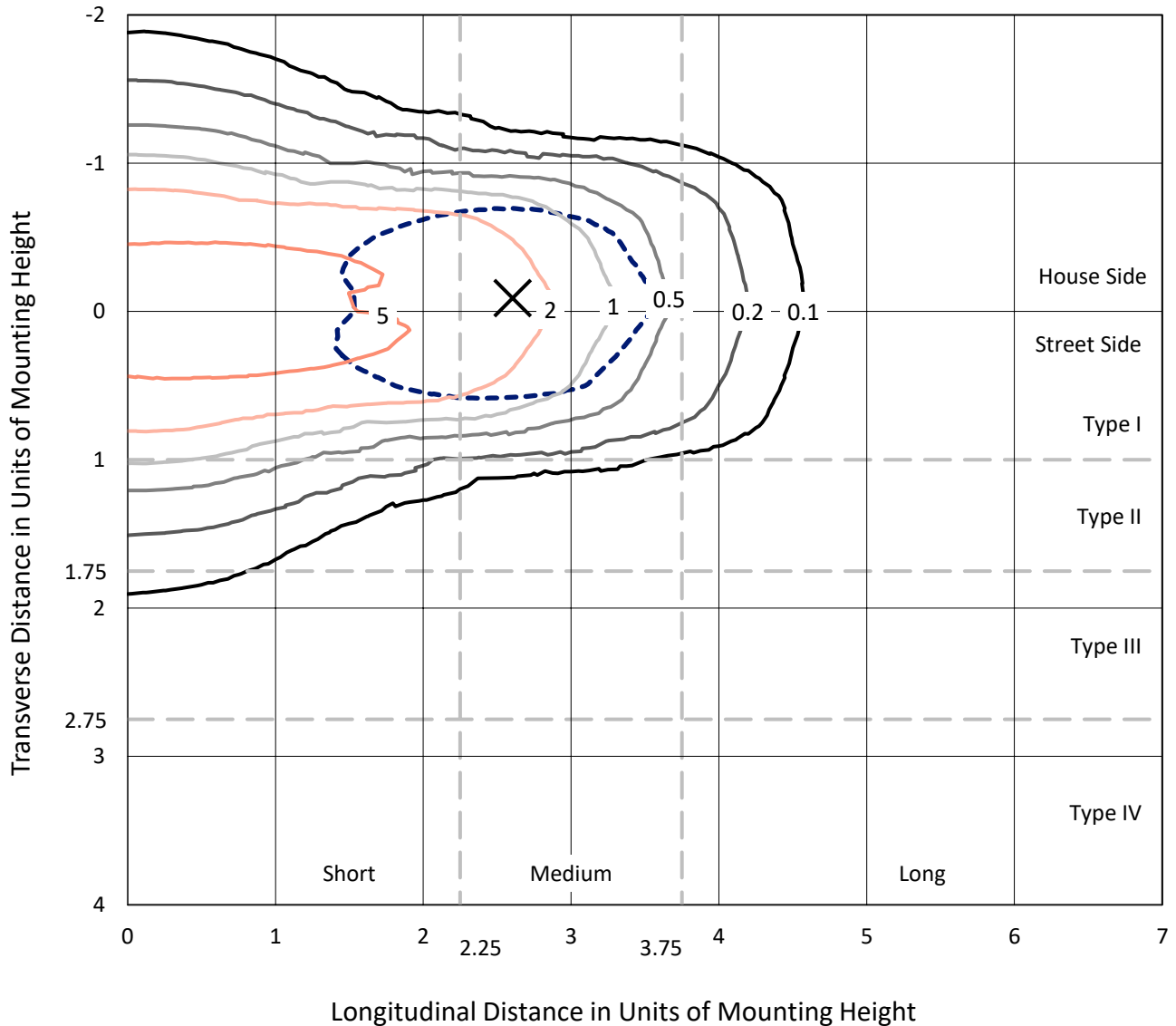
Lumens per Lamp: N/A
Luminaire Lumens: 9889.4 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P676117
 CATALOG NUMBER: CCW-SA-2D-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

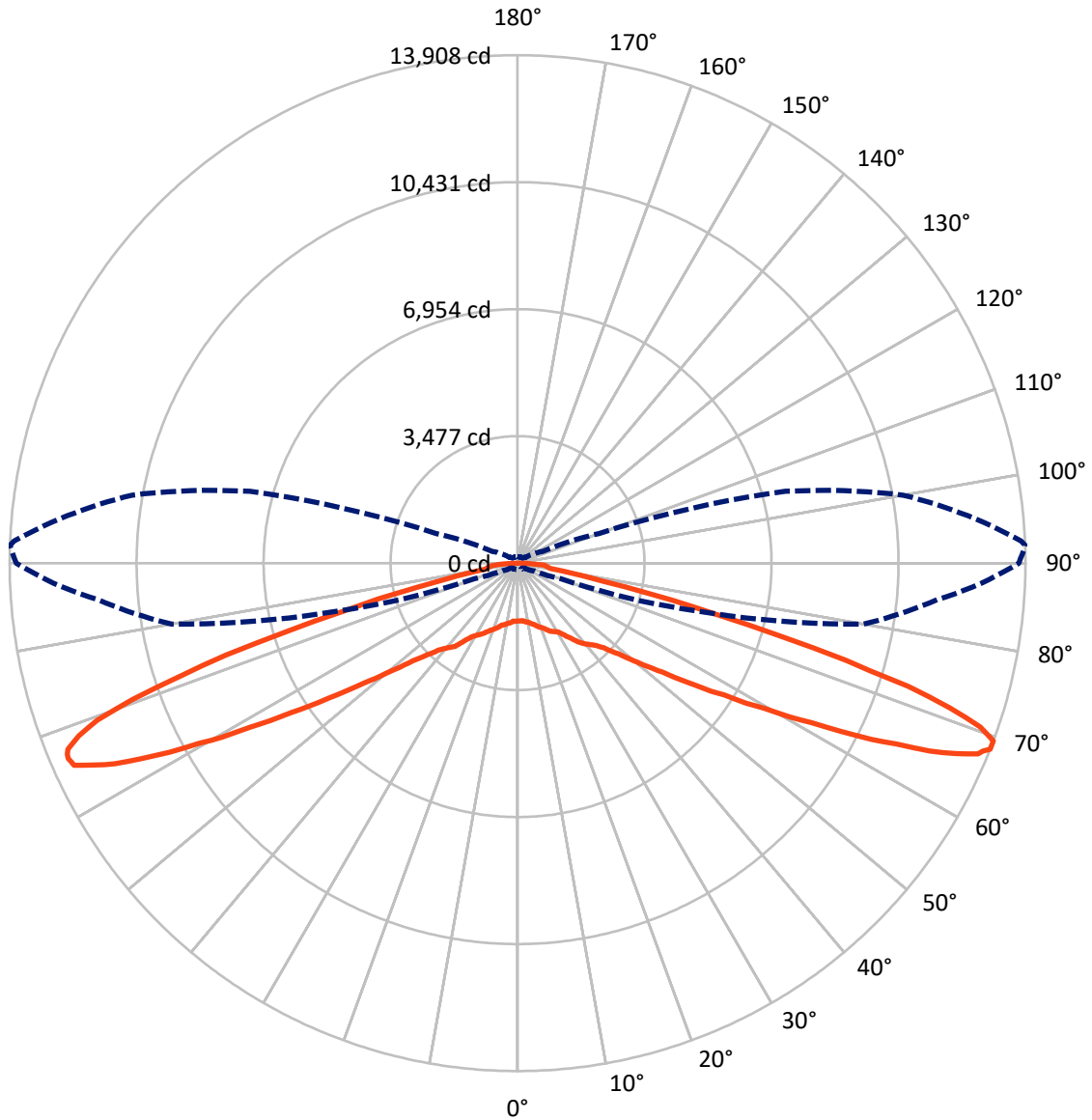
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Short - N/A

REPORT NUMBER: P676117
CATALOG NUMBER: CCW-SA-2D-730-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676117
 CATALOG NUMBER: CCW-SA-2D-730-U-T1

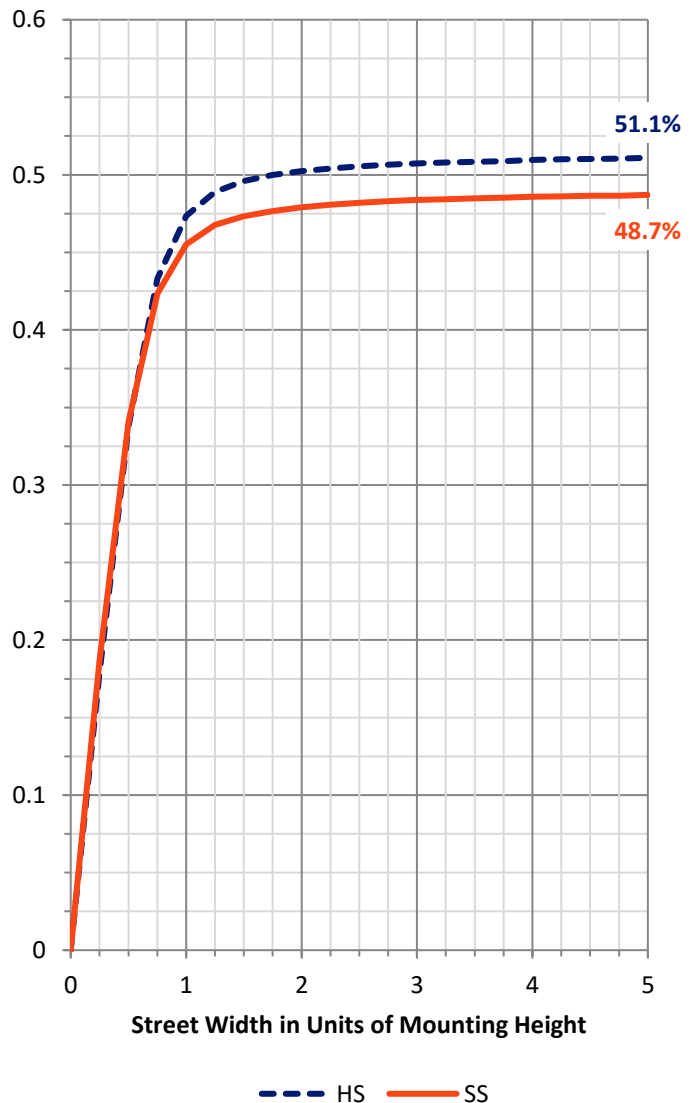
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5092.9	0.0	5092.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	4796.5	0.0	4796.5
	% Fixture	48.5	0.0	48.5
Total	Lumens	9889.4	0.0	9889.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.6
10°-20°	513.0	5.2
20°-30°	875.5	8.9
30°-40°	1222.5	12.4
40°-50°	1555.0	15.7
50°-60°	1966.1	19.9
60°-70°	2424.8	24.5
70°-80°	1059.2	10.7
80°-90°	114.9	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°	9889.4	100.0
0°-180°	9889.4	100.0



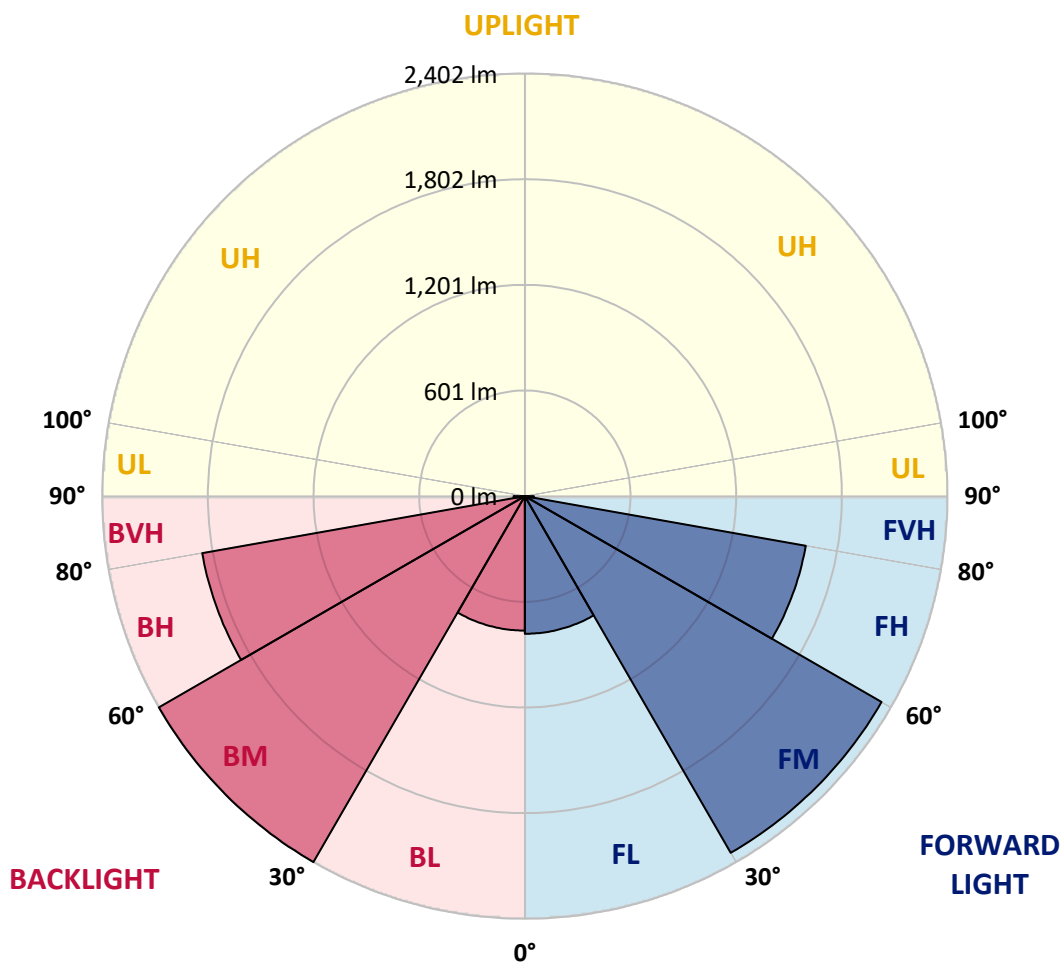
REPORT NUMBER: P676117
 CATALOG NUMBER: CCW-SA-2D-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.7	7.9			
FM (30°-60°)	2341.3	23.7			
FH (60°-80°)	1621.7	16.4			G1/1800
FVH (80°-90°)	50.9	0.5			G1/100
BL (0°-30°)	764.3	7.7	B2/1000		
BM (30°-60°)	2402.3	24.3	B2/2500		
BH (60°-80°)	1862.3	18.8	B3/2500		G3/2500
BVH (80°-90°)	63.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P676117

CATALOG NUMBER: CCW-SA-2D-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1614.8	1613.0	1618.5	1622.2	1605.5	1611.1	1607.4	1603.7	1590.7	1585.1	1574.0
5°	1659.4	1664.9	1683.5	1666.8	1674.2	1664.9	1635.2	1644.5	1627.8	1624.1	1613.0
7.5°	1737.3	1726.2	1752.2	1733.6	1739.2	1720.6	1707.6	1690.9	1687.2	1661.2	1663.1
10°	1754.0	1776.3	1787.4	1783.7	1787.4	1796.7	1772.6	1746.6	1711.3	1703.9	1677.9
12.5°	1742.9	1763.3	1793.0	1817.1	1833.8	1837.5	1828.3	1822.7	1807.8	1765.2	1763.3
15°	1731.7	1716.9	1735.5	1819.0	1874.7	1911.8	1924.8	1893.2	1896.9	1841.3	1819.0
17.5°	1657.5	1635.2	1707.6	1789.3	1858.0	1939.6	2002.7	1993.5	1993.5	1948.9	1917.4
20°	1559.1	1596.2	1633.4	1737.3	1863.5	1986.0	2106.7	2101.1	2078.8	2065.8	1997.2
22.5°	1475.6	1492.3	1561.0	1670.5	1828.3	1999.0	2141.9	2244.0	2192.1	2140.1	2099.3
25°	1418.1	1403.2	1490.5	1603.7	1794.9	1976.8	2208.8	2314.6	2342.4	2303.4	2225.5
27.5°	1336.4	1336.4	1405.1	1512.7	1687.2	1965.6	2273.7	2435.2	2476.0	2418.5	2305.3
30°	1243.6	1254.7	1314.1	1436.6	1607.4	1883.9	2299.7	2574.4	2607.8	2557.7	2440.8
32.5°	1171.2	1171.2	1238.0	1367.9	1551.7	1846.8	2283.0	2711.8	2774.9	2737.8	2617.1
35°	1093.2	1087.7	1135.9	1278.9	1462.6	1774.4	2277.4	2821.3	2962.3	2964.2	2838.0
37.5°	981.9	1004.2	1065.4	1178.6	1392.1	1703.9	2260.7	2953.1	3205.5	3248.2	3160.9
40°	907.6	916.9	972.6	1097.0	1282.6	1620.4	2236.6	3060.7	3367.0	3513.6	3393.0
42.5°	800.0	813.0	855.7	1009.7	1176.8	1501.6	2130.8	3136.8	3597.1	3764.2	3662.1
45°	686.8	694.2	757.3	883.5	1063.5	1360.5	2017.6	3259.3	3819.9	4161.4	4102.0
47.5°	551.3	555.0	608.8	740.6	928.1	1219.5	1843.1	3253.7	3999.9	4558.6	4725.6
50°	430.6	439.9	480.7	588.4	764.7	1046.8	1640.8	3209.2	4226.3	5011.5	5340.0
52.5°	343.4	345.2	371.2	456.6	590.2	874.2	1423.6	3068.1	4439.8	5455.1	6093.6
55°	284.0	284.0	298.8	350.8	452.9	664.5	1169.3	2834.3	4465.8	5945.1	6915.8
56°	272.8	269.1	282.1	326.7	408.3	599.5	1050.6	2676.5	4502.9	6171.5	7327.9
57°	258.0	259.9	267.3	298.8	367.5	530.8	918.8	2522.4	4476.9	6357.2	7632.3
58°	250.6	246.9	261.7	282.1	324.8	471.5	827.8	2340.5	4436.1	6509.4	8075.9
59°	239.4	237.6	246.9	265.4	302.5	419.5	716.5	2143.8	4356.3	6706.1	8406.3
60°	235.7	233.9	237.6	252.4	278.4	367.5	631.1	1913.6	4142.8	6908.4	8816.5
61°	224.6	226.4	233.9	243.1	263.6	330.4	568.0	1677.9	4003.6	7079.2	9269.4
62°	226.4	222.7	226.4	233.9	248.7	304.4	497.4	1445.9	3754.9	7272.2	9609.0
63°	215.3	213.5	219.0	228.3	235.7	274.7	434.3	1249.2	3472.8	7316.8	9896.7
64°	211.6	209.7	211.6	224.6	226.4	258.0	384.2	1067.3	3064.4	7392.9	10266.1
65°	202.3	202.3	206.0	211.6	219.0	243.1	343.4	926.2	2657.9	7192.4	10379.3
66°	194.9	196.7	196.7	206.0	211.6	226.4	315.5	787.0	2268.2	6873.2	10488.8
67°	189.3	189.3	191.2	198.6	204.2	213.5	284.0	681.2	1913.6	6492.7	10319.9
67.5°	185.6	187.5	187.5	194.9	200.5	213.5	271.0	645.9	1711.3	6075.0	10193.7
68°	180.0	181.9	181.9	189.3	194.9	206.0	261.7	590.2	1577.7	5804.0	9959.9
69°	176.3	174.5	174.5	181.9	189.3	196.7	243.1	516.0	1254.7	5046.7	9618.3
70°	165.2	165.2	168.9	174.5	180.0	187.5	224.6	454.7	1061.7	4178.1	8738.5
71°	159.6	157.8	159.6	165.2	170.8	180.0	206.0	402.8	868.7	3469.1	7873.6
72°	148.5	152.2	152.2	157.8	163.3	168.9	193.0	350.8	729.4	2773.0	6921.4
72.5°	146.6	146.6	148.5	154.1	157.8	167.0	185.6	336.0	666.3	2444.5	6522.3
73°	141.1	141.1	142.9	148.5	152.2	161.5	180.0	302.5	606.9	2175.4	5776.2
74°	135.5	133.6	133.6	141.1	142.9	152.2	168.9	267.3	508.6	1638.9	4636.5
75°	126.2	126.2	128.1	131.8	133.6	141.1	155.9	237.6	428.8	1271.4	3626.8



REPORT NUMBER: P676117
CATALOG NUMBER: CCW-SA-2D-730-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	103.9	105.8	107.7	111.4	111.4	116.9	128.1	165.2	261.7	644.1	1664.9
80°	76.1	79.8	85.4	90.9	89.1	89.1	100.2	118.8	155.9	289.6	638.5
82.5°	61.3	65.0	59.4	66.8	66.8	63.1	72.4	87.2	105.8	142.9	228.3
85°	40.8	42.7	35.3	40.8	39.0	39.0	48.3	52.0	65.0	79.8	113.2
87.5°	18.6	18.6	14.8	16.7	16.7	16.7	24.1	18.6	27.8	39.0	66.8
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: P676117

CATALOG NUMBER: CCW-SA-2D-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1585.1	1592.5	1592.5	1585.1	1579.5	1585.1	1581.4	1572.1	1581.4	1585.1	1587.0
5°	1607.4	1592.5	1600.0	1583.3	1594.4	1592.5	1588.8	1598.1	1600.0	1600.0	1613.0
7.5°	1631.5	1650.1	1625.9	1627.8	1633.4	1611.1	1618.5	1622.2	1614.8	1629.7	1640.8
10°	1674.2	1681.6	1674.2	1646.4	1664.9	1650.1	1644.5	1661.2	1657.5	1661.2	1677.9
12.5°	1713.2	1726.2	1705.8	1703.9	1694.6	1681.6	1689.1	1687.2	1713.2	1716.9	1737.3
15°	1793.0	1759.6	1752.2	1750.3	1746.6	1741.0	1744.7	1746.6	1780.0	1785.6	1833.8
17.5°	1861.7	1856.1	1815.3	1830.1	1830.1	1807.8	1798.6	1830.1	1856.1	1883.9	1917.4
20°	1932.2	1926.6	1882.1	1883.9	1867.2	1887.7	1876.5	1906.2	1950.8	1960.0	1989.7
22.5°	2015.7	1991.6	1960.0	1963.8	1969.3	1954.5	1947.1	1987.9	2032.4	2058.4	2060.3
25°	2147.5	2086.3	2060.3	2064.0	2056.6	2045.4	2051.0	2103.0	2125.2	2180.9	2169.8
27.5°	2218.0	2182.8	2164.2	2121.5	2123.4	2106.7	2129.0	2206.9	2251.5	2294.1	2208.8
30°	2303.4	2281.2	2199.5	2184.6	2182.8	2175.4	2216.2	2316.4	2383.2	2407.4	2284.9
32.5°	2470.5	2381.4	2361.0	2348.0	2318.3	2327.6	2348.0	2479.8	2585.6	2580.0	2355.4
35°	2661.7	2600.4	2542.9	2531.7	2528.0	2502.0	2537.3	2691.4	2773.0	2748.9	2381.4
37.5°	2967.9	2875.1	2797.1	2754.5	2747.0	2728.5	2812.0	2934.5	3040.3	2945.6	2401.8
40°	3118.3	3014.3	2941.9	2915.9	2921.5	2947.5	3029.2	3216.6	3263.0	3088.6	2418.5
42.5°	3333.6	3220.3	3077.4	3064.4	3047.7	3060.7	3218.5	3470.9	3509.9	3281.6	2355.4
45°	3715.9	3545.2	3380.0	3305.7	3309.4	3344.7	3589.7	3866.3	3793.9	3415.2	2255.2
47.5°	4198.5	3947.9	3814.3	3714.1	3762.3	3723.3	4113.1	4334.0	4087.1	3584.1	2132.7
50°	4924.2	4573.4	4391.5	4270.9	4291.3	4324.7	4720.1	4907.5	4412.0	3665.8	1945.2
52.5°	5839.3	5388.3	5121.0	4959.5	4974.4	5046.7	5557.2	5499.6	4783.2	3734.5	1694.6
55°	6934.4	6470.4	5952.5	5885.7	5869.0	6041.6	6604.0	6119.6	5117.3	3625.0	1434.8
56°	7513.5	7019.8	6481.5	6344.2	6303.3	6424.0	7084.7	6429.5	5232.4	3502.5	1310.4
57°	8005.4	7533.9	6943.7	6709.8	6761.8	6988.2	7561.8	6721.0	5338.2	3376.3	1193.5
58°	8681.0	8142.7	7519.1	7340.9	7294.5	7474.5	8075.9	7014.2	5373.4	3246.3	1085.8
59°	9354.8	8708.8	8146.4	7821.6	7834.6	8163.1	8582.6	7363.2	5427.2	3081.1	948.5
60°	9867.0	9542.2	8790.5	8547.4	8513.9	8989.1	9087.5	7597.0	5484.8	2858.4	852.0
61°	10592.8	10169.6	9469.8	9156.2	9247.1	9627.6	9633.2	7890.3	5399.4	2576.3	733.2
62°	11114.3	11003.0	10268.0	9969.1	9941.3	10446.2	10201.1	8148.3	5325.2	2309.0	647.8
63°	11725.0	11725.0	11055.0	10821.1	10834.1	11233.1	10448.0	8406.3	5239.8	2013.9	569.8
64°	12042.4	12441.5	11823.4	11494.9	11580.2	11925.5	10887.9	8575.2	4976.2	1715.0	501.1
65°	12317.1	12916.6	12573.2	12421.0	12291.1	12495.3	11268.4	8733.0	4573.4	1458.9	445.5
66°	12549.1	13363.9	13250.7	13087.4	13074.4	13028.0	11342.7	8727.4	4157.7	1232.5	389.8
67°	12432.2	13373.2	13579.3	13647.9	13627.5	13137.5	11212.7	8528.8	3625.0	1041.3	347.1
67.5°	12326.4	13297.1	13776.0	13737.0	13822.4	13230.3	11235.0	8285.6	3246.3	942.9	326.7
68°	12233.6	13195.0	13855.8	13905.9	13863.2	13241.4	11112.5	8092.6	2988.3	885.4	308.1
69°	11530.1	12710.6	13727.7	13907.8	13798.3	12816.4	10722.7	7589.6	2374.0	755.4	284.0
70°	10824.8	12083.2	13105.9	13436.3	13300.8	11994.1	10230.8	6789.6	1958.2	645.9	256.1
71°	9848.5	10917.6	12278.1	12476.7	12313.4	11058.7	9213.7	5945.1	1523.9	547.6	228.3
72°	8523.2	9430.9	10730.1	11210.9	10969.6	9713.0	8185.4	4913.1	1234.3	460.3	207.9
72.5°	7866.2	8796.1	10048.9	10087.9	10134.3	9128.3	7749.2	4315.4	1076.5	426.9	202.3
73°	7242.5	8153.9	9237.8	9375.2	9178.4	8142.7	7097.7	3858.8	983.7	389.8	194.9
74°	5869.0	6388.7	7287.1	7420.7	7248.1	6639.3	5800.3	2958.6	783.3	336.0	178.2
75°	4618.0	4903.8	5716.8	5635.1	5377.1	5163.7	4497.3	2260.7	634.8	295.1	165.2



REPORT NUMBER: P676117
 CATALOG NUMBER: CCW-SA-2D-730-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2075.1	2247.7	2383.2	2383.2	2398.1	2288.6	2073.3	1037.6	391.6	213.5	135.5
80°	790.7	885.4	915.1	916.9	929.9	963.3	896.5	510.4	232.0	152.2	109.5
82.5°	573.5	801.8	863.1	818.5	822.3	742.4	343.4	226.4	146.6	105.8	79.8
85°	519.7	697.9	738.7	733.2	735.0	686.8	202.3	111.4	85.4	66.8	55.7
87.5°	252.4	246.9	261.7	295.1	287.7	373.1	170.8	55.7	37.1	27.8	27.8
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: P676117

CATALOG NUMBER: CCW-SA-2D-730-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1581.4	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1572.1	1570.3	1596.2	1570.3	1585.1	1574.0
5°	1590.7	1598.1	1603.7	1614.8	1588.8	1614.8
7.5°	1646.4	1653.8	1655.6	1664.9	1653.8	1651.9
10°	1689.1	1707.6	1718.8	1681.6	1703.9	1702.0
12.5°	1772.6	1754.0	1752.2	1744.7	1724.3	1716.9
15°	1832.0	1804.1	1787.4	1757.7	1733.6	1724.3
17.5°	1915.5	1861.7	1793.0	1731.7	1689.1	1655.6
20°	1967.5	1871.0	1733.6	1661.2	1596.2	1611.1
22.5°	2000.9	1861.7	1679.8	1587.0	1522.0	1540.6
25°	2012.0	1815.3	1642.7	1527.6	1464.5	1451.5
27.5°	1980.5	1761.4	1570.3	1440.3	1384.7	1395.8
30°	1965.6	1683.5	1503.4	1375.4	1301.1	1312.3
32.5°	1926.6	1603.7	1414.4	1284.4	1230.6	1212.0
35°	1871.0	1536.9	1329.0	1206.5	1141.5	1126.7
37.5°	1802.3	1453.3	1254.7	1106.2	1048.7	1037.6
40°	1700.2	1353.1	1147.1	1019.0	952.2	950.3
42.5°	1611.1	1256.6	1046.8	915.1	848.2	852.0
45°	1497.9	1126.7	931.8	818.5	751.7	755.4
47.5°	1353.1	1006.0	822.3	696.0	640.4	636.6
50°	1182.3	868.7	688.6	581.0	534.6	525.3
52.5°	1019.0	729.4	564.3	467.7	428.8	425.0
55°	813.0	568.0	439.9	367.5	337.8	339.7
56°	738.7	523.4	400.9	336.0	313.7	313.7
57°	668.2	464.0	363.8	310.0	289.6	289.6
58°	590.2	408.3	330.4	280.3	271.0	263.6
59°	536.4	371.2	298.8	265.4	250.6	248.7
60°	473.3	334.1	278.4	248.7	237.6	235.7
61°	419.5	300.7	256.1	232.0	228.3	228.3
62°	374.9	278.4	237.6	224.6	222.7	217.2
63°	336.0	256.1	228.3	213.5	207.9	213.5
64°	300.7	235.7	220.9	209.7	202.3	206.0
65°	272.8	226.4	211.6	204.2	196.7	198.6
66°	254.3	211.6	204.2	194.9	191.2	193.0
67°	230.2	204.2	196.7	187.5	185.6	187.5
67.5°	222.7	198.6	193.0	183.8	181.9	183.8
68°	217.2	194.9	191.2	181.9	180.0	178.2
69°	202.3	187.5	181.9	178.2	174.5	172.6
70°	189.3	180.0	176.3	170.8	167.0	165.2
71°	181.9	170.8	168.9	163.3	159.6	157.8
72°	172.6	165.2	161.5	154.1	152.2	154.1
72.5°	170.8	161.5	159.6	152.2	150.3	150.3
73°	165.2	154.1	155.9	148.5	144.8	148.5
74°	154.1	150.3	146.6	141.1	139.2	139.2
75°	144.8	141.1	137.4	133.6	133.6	133.6



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	135°	145°	155°	165°	175°	180°
77.5°	122.5	120.6	122.5	115.1	113.2	111.4
80°	98.4	98.4	100.2	94.7	90.9	89.1
82.5°	74.2	76.1	79.8	74.2	70.5	66.8
85°	48.3	50.1	50.1	44.5	52.0	48.3
87.5°	24.1	26.0	24.1	22.3	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)