

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: P676095

Luminaire Tested: **CCW-SA-2D-722-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676095
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-722-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

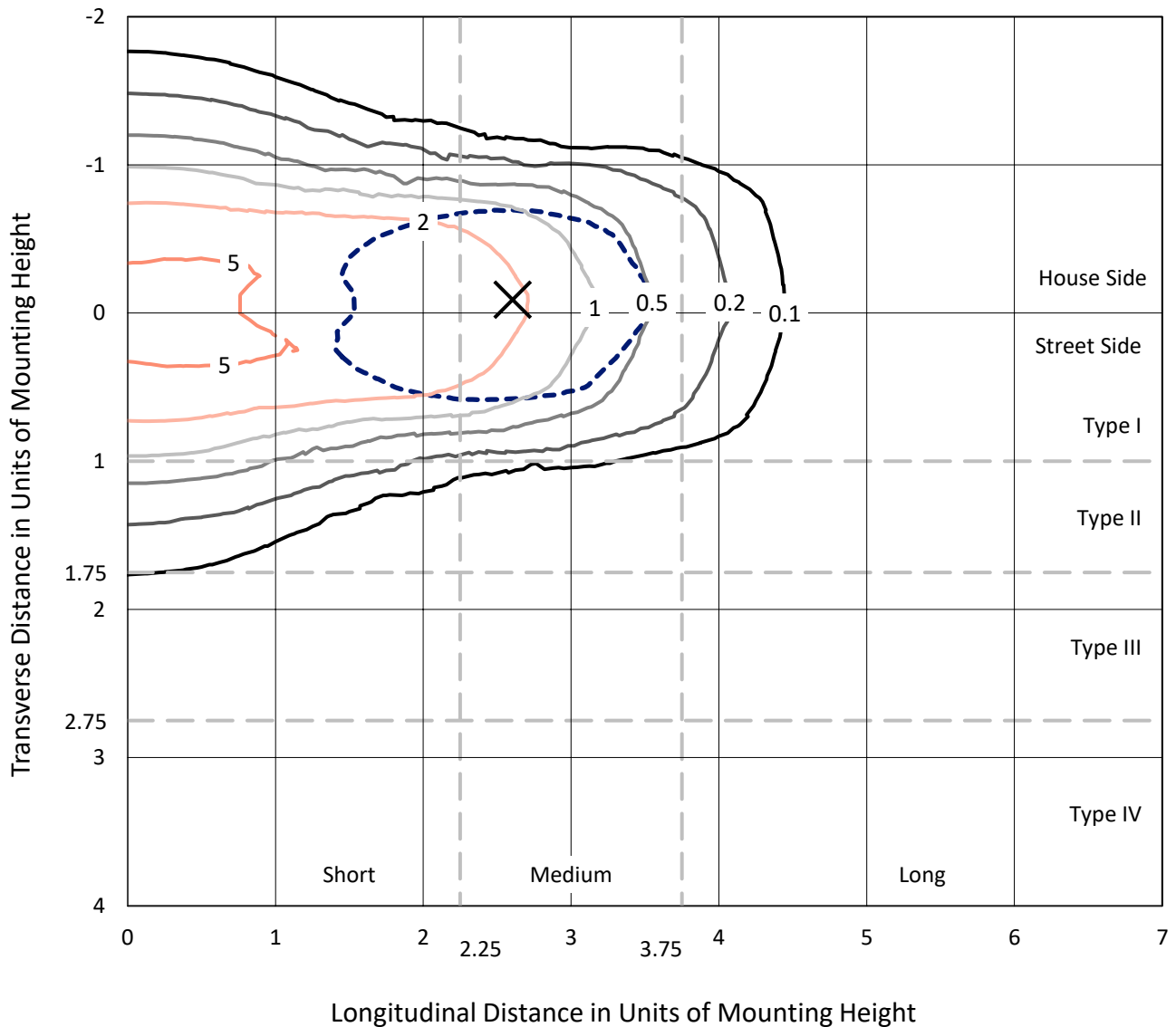
Lumens per Lamp: N/A
Luminaire Lumens: 7999.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

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: P676095
 CATALOG NUMBER: CCW-SA-2D-722-U-T1

Iso-Footcandle Lines of Horizontal Illumination

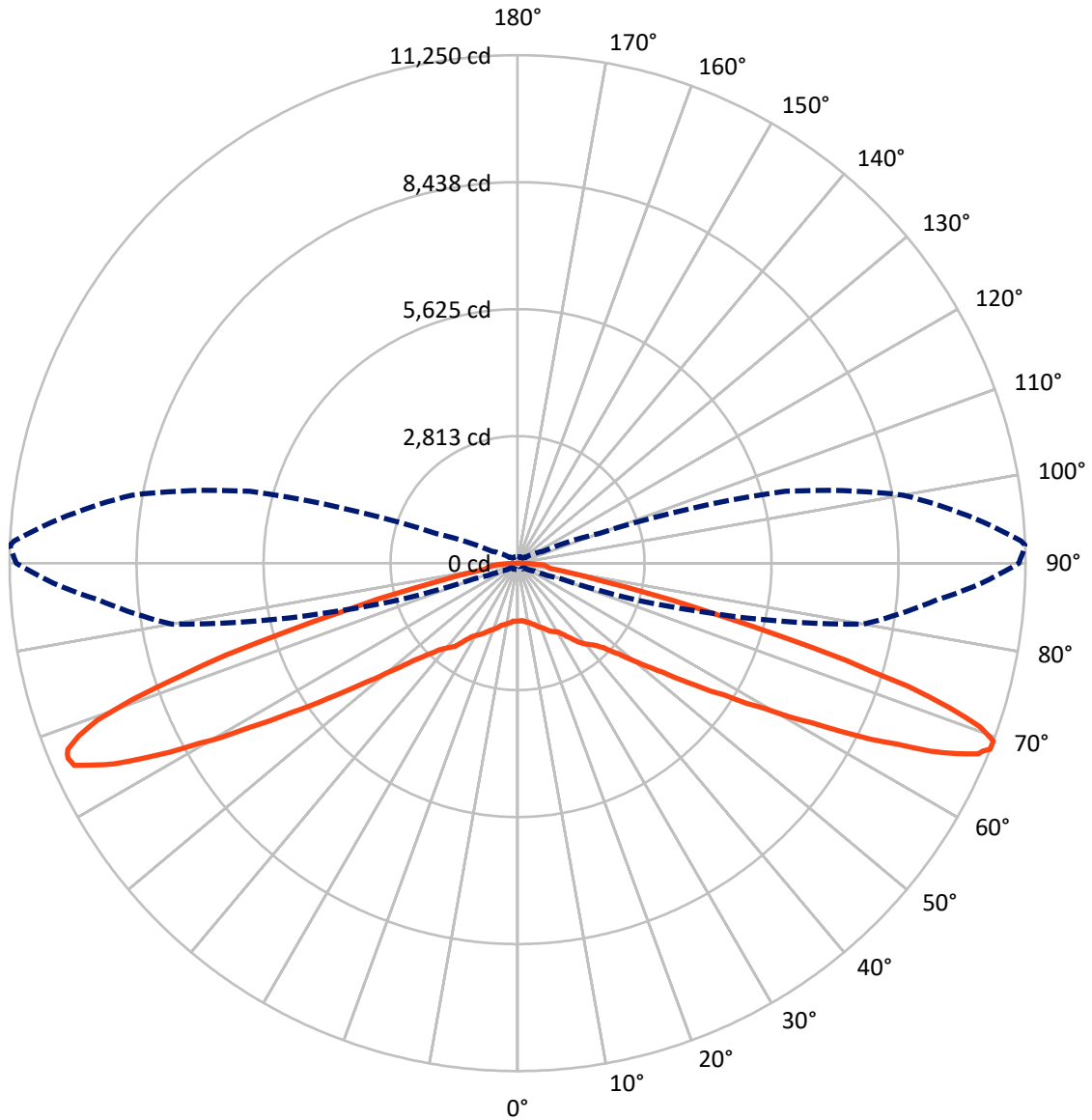
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - N/A

REPORT NUMBER: P676095
CATALOG NUMBER: CCW-SA-2D-722-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676095
 CATALOG NUMBER: CCW-SA-2D-722-U-T1

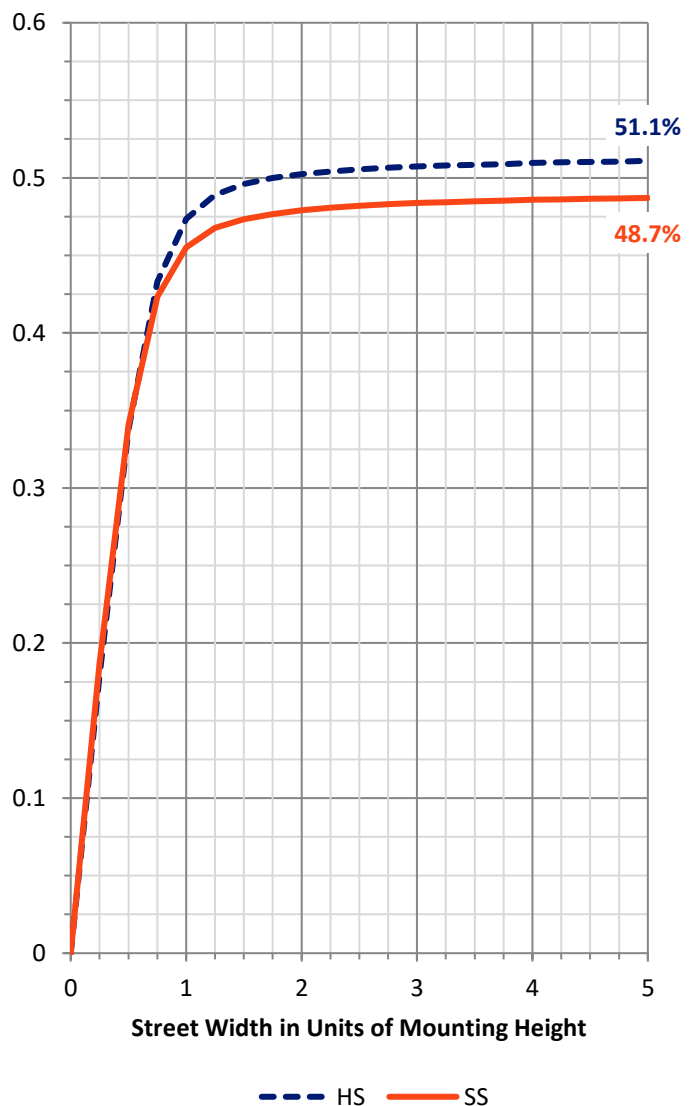
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4119.7	0.0	4119.7
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3880.0	0.0	3880.0
	% Fixture	48.5	0.0	48.5
Total	Lumens	7999.7	0.0	7999.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.6
10°-20°	415.0	5.2
20°-30°	708.2	8.9
30°-40°	988.9	12.4
40°-50°	1257.9	15.7
50°-60°	1590.4	19.9
60°-70°	1961.5	24.5
70°-80°	856.8	10.7
80°-90°	92.9	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°	7999.7	100.0
0°-180°	7999.7	100.0



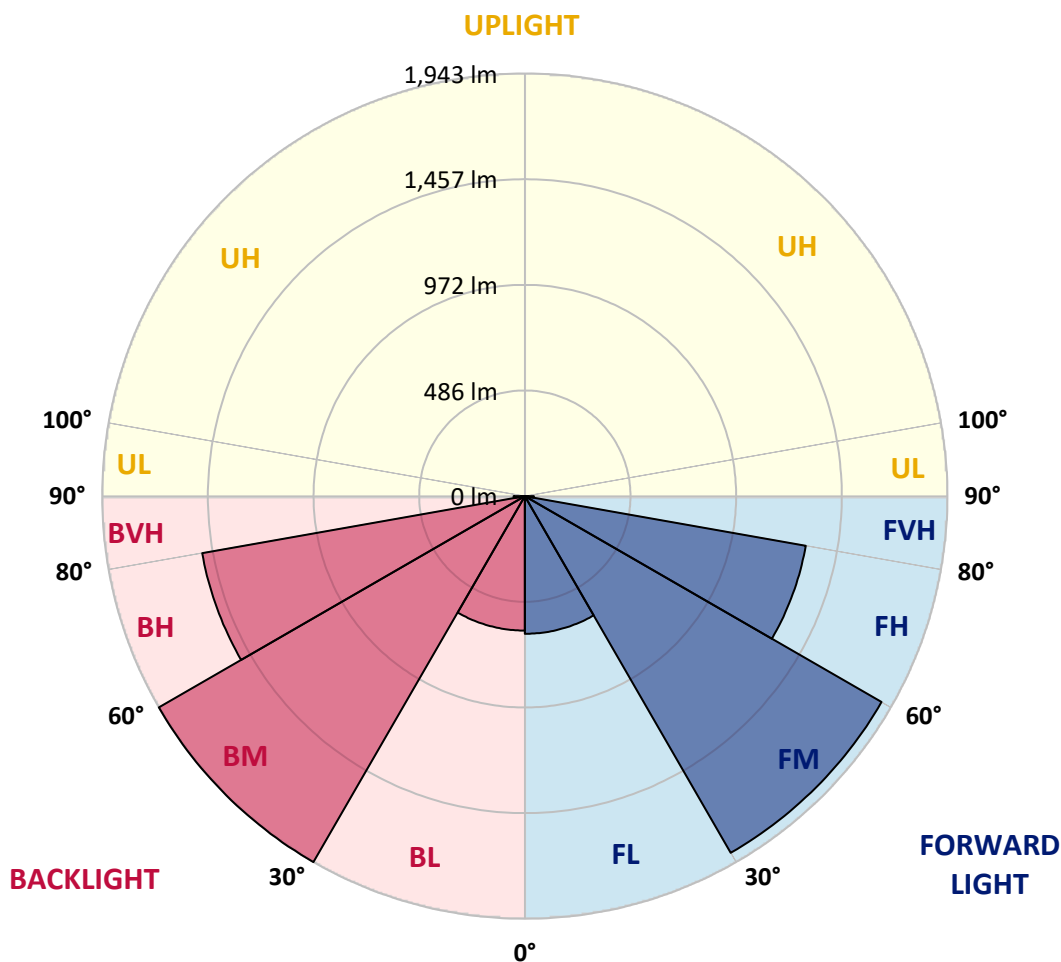
REPORT NUMBER: P676095
 CATALOG NUMBER: CCW-SA-2D-722-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.1	7.9			
FM (30°-60°)	1893.9	23.7			
FH (60°-80°)	1311.8	16.4			G1/1800
FVH (80°-90°)	41.2	0.5			G1/100
BL (0°-30°)	618.2	7.7	B2/1000		
BM (30°-60°)	1943.3	24.3	B2/2500		
BH (60°-80°)	1506.5	18.8	B3/2500		G3/2500
BVH (80°-90°)	51.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P676095
 CATALOG NUMBER: CCW-SA-2D-722-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2
2.5°	1306.2	1304.7	1309.3	1312.3	1298.7	1303.2	1300.2	1297.2	1286.7	1282.2	1273.2
5°	1342.3	1346.8	1361.8	1348.3	1354.3	1346.8	1322.8	1330.3	1316.8	1313.8	1304.7
7.5°	1405.3	1396.3	1417.4	1402.3	1406.8	1391.8	1381.3	1367.8	1364.8	1343.8	1345.3
10°	1418.9	1436.9	1445.9	1442.9	1445.9	1453.4	1433.9	1412.8	1384.3	1378.3	1357.3
12.5°	1409.8	1426.4	1450.4	1469.9	1483.4	1486.4	1478.9	1474.4	1462.4	1427.9	1426.4
15°	1400.8	1388.8	1403.8	1471.4	1516.4	1546.5	1557.0	1531.5	1534.5	1489.4	1471.4
17.5°	1340.8	1322.8	1381.3	1447.4	1502.9	1569.0	1620.0	1612.5	1612.5	1576.5	1551.0
20°	1261.2	1291.2	1321.3	1405.3	1507.4	1606.5	1704.1	1699.6	1681.6	1671.1	1615.5
22.5°	1193.6	1207.2	1262.7	1351.3	1478.9	1617.0	1732.7	1815.2	1773.2	1731.2	1698.1
25°	1147.1	1135.1	1205.7	1297.2	1451.9	1599.0	1786.7	1872.3	1894.8	1863.3	1800.2
27.5°	1081.0	1081.0	1136.6	1223.7	1364.8	1590.0	1839.3	1969.9	2002.9	1956.4	1864.8
30°	1006.0	1015.0	1063.0	1162.1	1300.2	1524.0	1860.3	2082.5	2109.5	2069.0	1974.4
32.5°	947.4	947.4	1001.5	1106.6	1255.2	1493.9	1846.8	2193.6	2244.6	2214.6	2117.0
35°	884.3	879.8	918.9	1034.5	1183.1	1435.4	1842.3	2282.2	2396.3	2397.8	2295.7
37.5°	794.3	812.3	861.8	953.4	1126.1	1378.3	1828.7	2388.8	2593.0	2627.5	2556.9
40°	734.2	741.7	786.8	887.3	1037.5	1310.8	1809.2	2475.9	2723.6	2842.2	2744.6
42.5°	647.1	657.6	692.2	816.8	951.9	1214.7	1723.6	2537.4	2909.8	3044.9	2962.3
45°	555.5	561.5	612.6	714.7	860.3	1100.6	1632.1	2636.5	3090.0	3366.2	3318.2
47.5°	445.9	448.9	492.5	599.1	750.7	986.4	1490.9	2632.0	3235.6	3687.5	3822.7
50°	348.3	355.8	388.9	476.0	618.6	846.8	1327.3	2596.0	3418.8	4053.9	4319.6
52.5°	277.8	279.3	300.3	369.4	477.5	707.2	1151.6	2481.9	3591.4	4412.7	4929.2
55°	229.7	229.7	241.7	283.8	366.3	537.5	945.9	2292.7	3612.5	4809.1	5594.3
56°	220.7	217.7	228.2	264.3	330.3	485.0	849.8	2165.1	3642.5	4992.3	5927.7
57°	208.7	210.2	216.2	241.7	297.3	429.4	743.2	2040.4	3621.5	5142.4	6173.9
58°	202.7	199.7	211.7	228.2	262.8	381.4	669.6	1893.3	3588.4	5265.5	6532.7
59°	193.7	192.2	199.7	214.7	244.7	339.3	579.6	1734.2	3523.9	5424.7	6800.0
60°	190.7	189.2	192.2	204.2	225.2	297.3	510.5	1548.0	3351.2	5588.3	7131.8
61°	181.7	183.2	189.2	196.7	213.2	267.3	459.4	1357.3	3238.6	5726.5	7498.2
62°	183.2	180.2	183.2	189.2	201.2	246.2	402.4	1169.6	3037.4	5882.6	7772.9
63°	174.2	172.7	177.2	184.7	190.7	222.2	351.3	1010.5	2809.2	5918.7	8005.6
64°	171.2	169.7	171.2	181.7	183.2	208.7	310.8	863.3	2478.9	5980.2	8304.4
65°	163.7	163.7	166.7	171.2	177.2	196.7	277.8	749.2	2150.1	5818.1	8396.0
66°	157.7	159.2	159.2	166.7	171.2	183.2	255.2	636.6	1834.8	5559.8	8484.6
67°	153.1	153.1	154.6	160.7	165.2	172.7	229.7	551.0	1548.0	5252.0	8348.0
67.5°	150.1	151.6	151.6	157.7	162.2	172.7	219.2	522.5	1384.3	4914.2	8245.9
68°	145.6	147.1	147.1	153.1	157.7	166.7	211.7	477.5	1276.2	4695.0	8056.7
69°	142.6	141.1	141.1	147.1	153.1	159.2	196.7	417.4	1015.0	4082.4	7780.4
70°	133.6	133.6	136.6	141.1	145.6	151.6	181.7	367.9	858.8	3379.7	7068.8
71°	129.1	127.6	129.1	133.6	138.1	145.6	166.7	325.8	702.7	2806.2	6369.1
72°	120.1	123.1	123.1	127.6	132.1	136.6	156.1	283.8	590.1	2243.1	5598.8
72.5°	118.6	118.6	120.1	124.6	127.6	135.1	150.1	271.8	539.0	1977.4	5276.0
73°	114.1	114.1	115.6	120.1	123.1	130.6	145.6	244.7	491.0	1759.7	4672.5
74°	109.6	108.1	108.1	114.1	115.6	123.1	136.6	216.2	411.4	1325.8	3750.6
75°	102.1	102.1	103.6	106.6	108.1	114.1	126.1	192.2	346.8	1028.5	2933.8



REPORT NUMBER: P676095
 CATALOG NUMBER: CCW-SA-2D-722-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	84.1	85.6	87.1	90.1	90.1	94.6	103.6	133.6	211.7	521.0	1346.8
80°	61.6	64.6	69.1	73.6	72.1	72.1	81.1	96.1	126.1	234.2	516.5
82.5°	49.5	52.6	48.0	54.1	54.1	51.0	58.6	70.6	85.6	115.6	184.7
85°	33.0	34.5	28.5	33.0	31.5	31.5	39.0	42.0	52.6	64.6	91.6
87.5°	15.0	15.0	12.0	13.5	13.5	13.5	19.5	15.0	22.5	31.5	54.1
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: P676095

CATALOG NUMBER: CCW-SA-2D-722-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2
2.5°	1282.2	1288.2	1288.2	1282.2	1277.7	1282.2	1279.2	1271.7	1279.2	1282.2	1283.7
5°	1300.2	1288.2	1294.2	1280.7	1289.7	1288.2	1285.2	1292.7	1294.2	1294.2	1304.7
7.5°	1319.8	1334.8	1315.3	1316.8	1321.3	1303.2	1309.3	1312.3	1306.2	1318.3	1327.3
10°	1354.3	1360.3	1354.3	1331.8	1346.8	1334.8	1330.3	1343.8	1340.8	1343.8	1357.3
12.5°	1385.8	1396.3	1379.8	1378.3	1370.8	1360.3	1366.3	1364.8	1385.8	1388.8	1405.3
15°	1450.4	1423.4	1417.4	1415.9	1412.8	1408.3	1411.3	1412.8	1439.9	1444.4	1483.4
17.5°	1505.9	1501.4	1468.4	1480.4	1480.4	1462.4	1454.9	1480.4	1501.4	1524.0	1551.0
20°	1563.0	1558.5	1522.5	1524.0	1510.4	1527.0	1518.0	1542.0	1578.0	1585.5	1609.5
22.5°	1630.6	1611.0	1585.5	1588.5	1593.0	1581.0	1575.0	1608.0	1644.1	1665.1	1666.6
25°	1737.2	1687.6	1666.6	1669.6	1663.6	1654.6	1659.1	1701.1	1719.1	1764.2	1755.2
27.5°	1794.2	1765.7	1750.7	1716.1	1717.6	1704.1	1722.1	1785.2	1821.2	1855.8	1786.7
30°	1863.3	1845.3	1779.2	1767.2	1765.7	1759.7	1792.7	1873.8	1927.8	1947.4	1848.3
32.5°	1998.4	1926.3	1909.8	1899.3	1875.3	1882.8	1899.3	2005.9	2091.5	2087.0	1905.3
35°	2153.1	2103.5	2057.0	2048.0	2045.0	2023.9	2052.5	2177.1	2243.1	2223.6	1926.3
37.5°	2400.8	2325.7	2262.7	2228.1	2222.1	2207.1	2274.7	2373.8	2459.3	2382.8	1942.9
40°	2522.4	2438.3	2379.8	2358.8	2363.3	2384.3	2450.3	2602.0	2639.5	2498.4	1956.4
42.5°	2696.6	2605.0	2489.4	2478.9	2465.4	2475.9	2603.5	2807.7	2839.2	2654.5	1905.3
45°	3005.9	2867.7	2734.1	2674.1	2677.1	2705.6	2903.8	3127.5	3068.9	2762.6	1824.2
47.5°	3396.2	3193.6	3085.4	3004.4	3043.4	3011.9	3327.2	3505.8	3306.2	2899.3	1725.1
50°	3983.3	3699.5	3552.4	3454.8	3471.3	3498.3	3818.1	3969.8	3568.9	2965.3	1573.5
52.5°	4723.5	4358.7	4142.5	4011.8	4023.8	4082.4	4495.3	4448.7	3869.2	3020.9	1370.8
55°	5609.4	5234.0	4815.1	4761.0	4747.5	4887.2	5342.1	4950.2	4139.5	2932.3	1160.6
56°	6077.8	5678.4	5243.0	5131.9	5098.9	5196.5	5731.0	5201.0	4232.5	2833.2	1060.0
57°	6475.7	6094.3	5616.9	5427.7	5469.7	5652.9	6116.8	5436.7	4318.1	2731.1	965.4
58°	7022.2	6586.8	6082.3	5938.2	5900.6	6046.3	6532.7	5673.9	4346.7	2626.0	878.3
59°	7567.2	7044.7	6589.8	6327.0	6337.6	6603.3	6942.6	5956.2	4390.2	2492.4	767.2
60°	7981.6	7718.9	7110.8	6914.1	6887.1	7271.4	7351.0	6145.4	4436.7	2312.2	689.2
61°	8568.7	8226.4	7660.3	7406.6	7480.1	7787.9	7792.4	6382.6	4367.7	2084.0	593.1
62°	8990.6	8900.5	8305.9	8064.2	8041.7	8450.1	8251.9	6591.3	4307.6	1867.8	524.0
63°	9484.6	9484.6	8942.5	8753.4	8763.9	9086.7	8451.6	6800.0	4238.5	1629.1	460.9
64°	9741.3	10064.1	9564.1	9298.4	9367.4	9646.7	8807.4	6936.6	4025.3	1387.3	405.4
65°	9963.5	10448.5	10170.7	10047.6	9942.5	10107.7	9115.2	7064.2	3699.5	1180.1	360.3
66°	10151.2	10810.3	10718.7	10586.6	10576.1	10538.6	9175.3	7059.7	3363.2	997.0	315.3
67°	10056.6	10817.8	10984.5	11040.0	11023.5	10627.2	9070.2	6899.1	2932.3	842.3	280.8
67.5°	9971.0	10756.3	11143.6	11112.1	11181.2	10702.2	9088.2	6702.4	2626.0	762.7	264.3
68°	9896.0	10673.7	11208.2	11248.7	11214.2	10711.2	8989.1	6546.3	2417.3	716.2	249.2
69°	9326.9	10281.8	11104.6	11250.2	11161.7	10367.4	8673.8	6139.4	1920.3	611.1	229.7
70°	8756.4	9774.3	10601.6	10868.9	10759.3	9702.3	8275.9	5492.2	1584.0	522.5	207.2
71°	7966.6	8831.4	9932.0	10092.6	9960.5	8945.5	7453.1	4809.1	1232.7	442.9	184.7
72°	6894.6	7628.8	8679.8	9068.7	8873.5	7857.0	6621.3	3974.3	998.5	372.4	168.2
72.5°	6363.1	7115.3	8128.8	8160.3	8197.8	7384.1	6268.5	3490.8	870.8	345.3	163.7
73°	5858.6	6595.8	7472.6	7583.7	7424.6	6586.8	5741.5	3121.5	795.8	315.3	157.7
74°	4747.5	5167.9	5894.6	6002.7	5863.1	5370.6	4692.0	2393.3	633.6	271.8	144.1
75°	3735.6	3966.8	4624.4	4558.4	4349.7	4177.0	3638.0	1828.7	513.5	238.7	133.6



REPORT NUMBER: P676095
 CATALOG NUMBER: CCW-SA-2D-722-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1678.6	1818.2	1927.8	1927.8	1939.9	1851.3	1677.1	839.3	316.8	172.7	109.6
80°	639.6	716.2	740.2	741.7	752.2	779.2	725.2	412.9	187.7	123.1	88.6
82.5°	463.9	648.6	698.2	662.1	665.1	600.6	277.8	183.2	118.6	85.6	64.6
85°	420.4	564.5	597.6	593.1	594.6	555.5	163.7	90.1	69.1	54.1	45.0
87.5°	204.2	199.7	211.7	238.7	232.7	301.8	138.1	45.0	30.0	22.5	22.5
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: P676095

CATALOG NUMBER: CCW-SA-2D-722-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1279.2	1279.2	1279.2	1279.2	1279.2	1279.2
2.5°	1271.7	1270.2	1291.2	1270.2	1282.2	1273.2
5°	1286.7	1292.7	1297.2	1306.2	1285.2	1306.2
7.5°	1331.8	1337.8	1339.3	1346.8	1337.8	1336.3
10°	1366.3	1381.3	1390.3	1360.3	1378.3	1376.8
12.5°	1433.9	1418.9	1417.4	1411.3	1394.8	1388.8
15°	1481.9	1459.4	1445.9	1421.9	1402.3	1394.8
17.5°	1549.5	1505.9	1450.4	1400.8	1366.3	1339.3
20°	1591.5	1513.4	1402.3	1343.8	1291.2	1303.2
22.5°	1618.5	1505.9	1358.8	1283.7	1231.2	1246.2
25°	1627.6	1468.4	1328.8	1235.7	1184.6	1174.1
27.5°	1602.0	1424.9	1270.2	1165.1	1120.1	1129.1
30°	1590.0	1361.8	1216.2	1112.6	1052.5	1061.5
32.5°	1558.5	1297.2	1144.1	1039.0	995.5	980.4
35°	1513.4	1243.2	1075.0	975.9	923.4	911.4
37.5°	1457.9	1175.6	1015.0	894.9	848.3	839.3
40°	1375.3	1094.5	927.9	824.3	770.2	768.7
42.5°	1303.2	1016.5	846.8	740.2	686.2	689.2
45°	1211.7	911.4	753.7	662.1	608.1	611.1
47.5°	1094.5	813.8	665.1	563.0	518.0	515.0
50°	956.4	702.7	557.0	469.9	432.4	424.9
52.5°	824.3	590.1	456.4	378.4	346.8	343.8
55°	657.6	459.4	355.8	297.3	273.3	274.8
56°	597.6	423.4	324.3	271.8	253.7	253.7
57°	540.5	375.4	294.3	250.7	234.2	234.2
58°	477.5	330.3	267.3	226.7	219.2	213.2
59°	433.9	300.3	241.7	214.7	202.7	201.2
60°	382.9	270.3	225.2	201.2	192.2	190.7
61°	339.3	243.2	207.2	187.7	184.7	184.7
62°	303.3	225.2	192.2	181.7	180.2	175.7
63°	271.8	207.2	184.7	172.7	168.2	172.7
64°	243.2	190.7	178.7	169.7	163.7	166.7
65°	220.7	183.2	171.2	165.2	159.2	160.7
66°	205.7	171.2	165.2	157.7	154.6	156.1
67°	186.2	165.2	159.2	151.6	150.1	151.6
67.5°	180.2	160.7	156.1	148.6	147.1	148.6
68°	175.7	157.7	154.6	147.1	145.6	144.1
69°	163.7	151.6	147.1	144.1	141.1	139.6
70°	153.1	145.6	142.6	138.1	135.1	133.6
71°	147.1	138.1	136.6	132.1	129.1	127.6
72°	139.6	133.6	130.6	124.6	123.1	124.6
72.5°	138.1	130.6	129.1	123.1	121.6	121.6
73°	133.6	124.6	126.1	120.1	117.1	120.1
74°	124.6	121.6	118.6	114.1	112.6	112.6
75°	117.1	114.1	111.1	108.1	108.1	108.1



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	135°	145°	155°	165°	175°	180°
77.5°	99.1	97.6	99.1	93.1	91.6	90.1
80°	79.6	79.6	81.1	76.6	73.6	72.1
82.5°	60.1	61.6	64.6	60.1	57.1	54.1
85°	39.0	40.5	40.5	36.0	42.0	39.0
87.5°	19.5	21.0	19.5	18.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)