

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: P676106

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676106
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

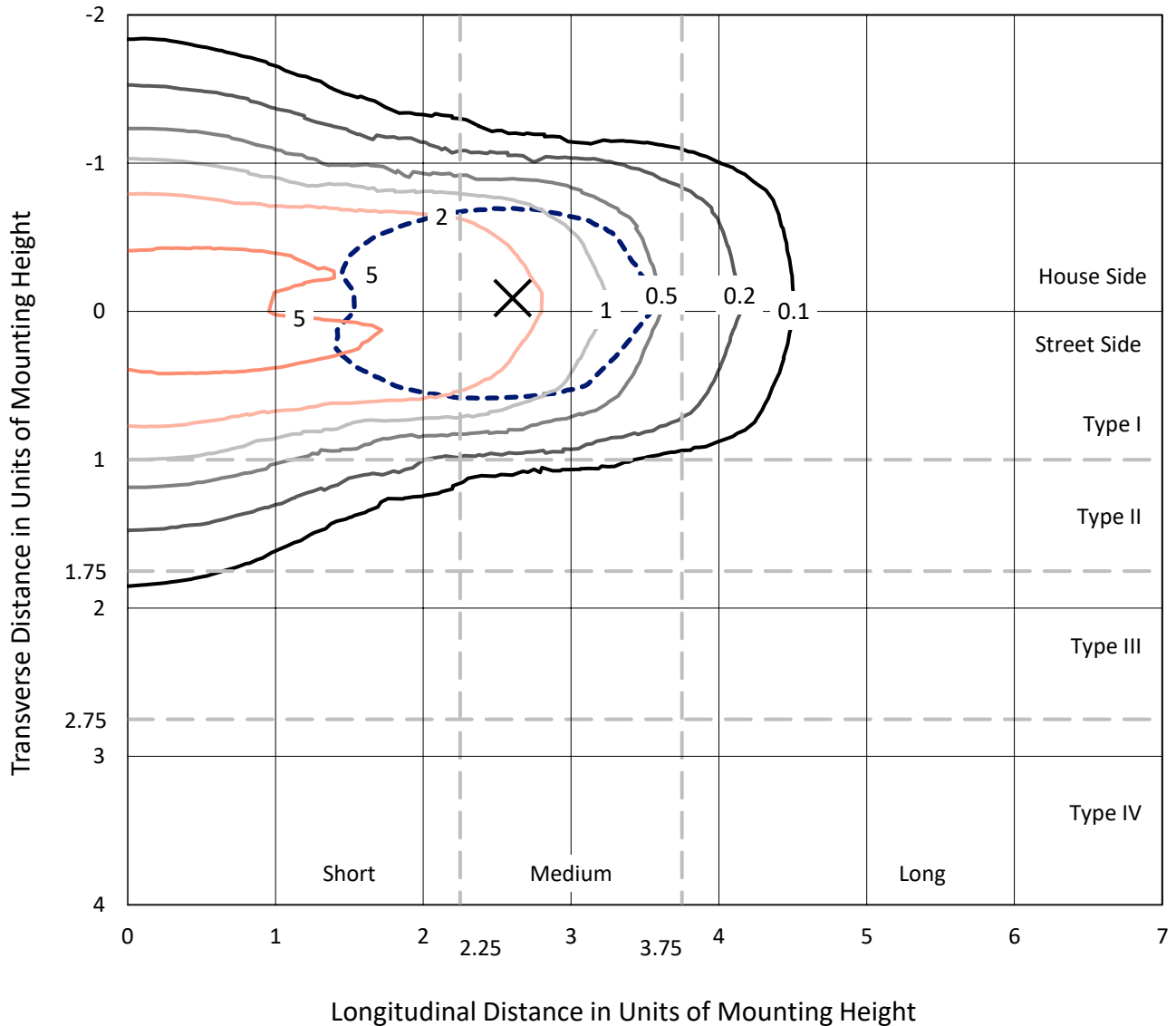
Lumens per Lamp: N/A
Luminaire Lumens: 9082.5 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

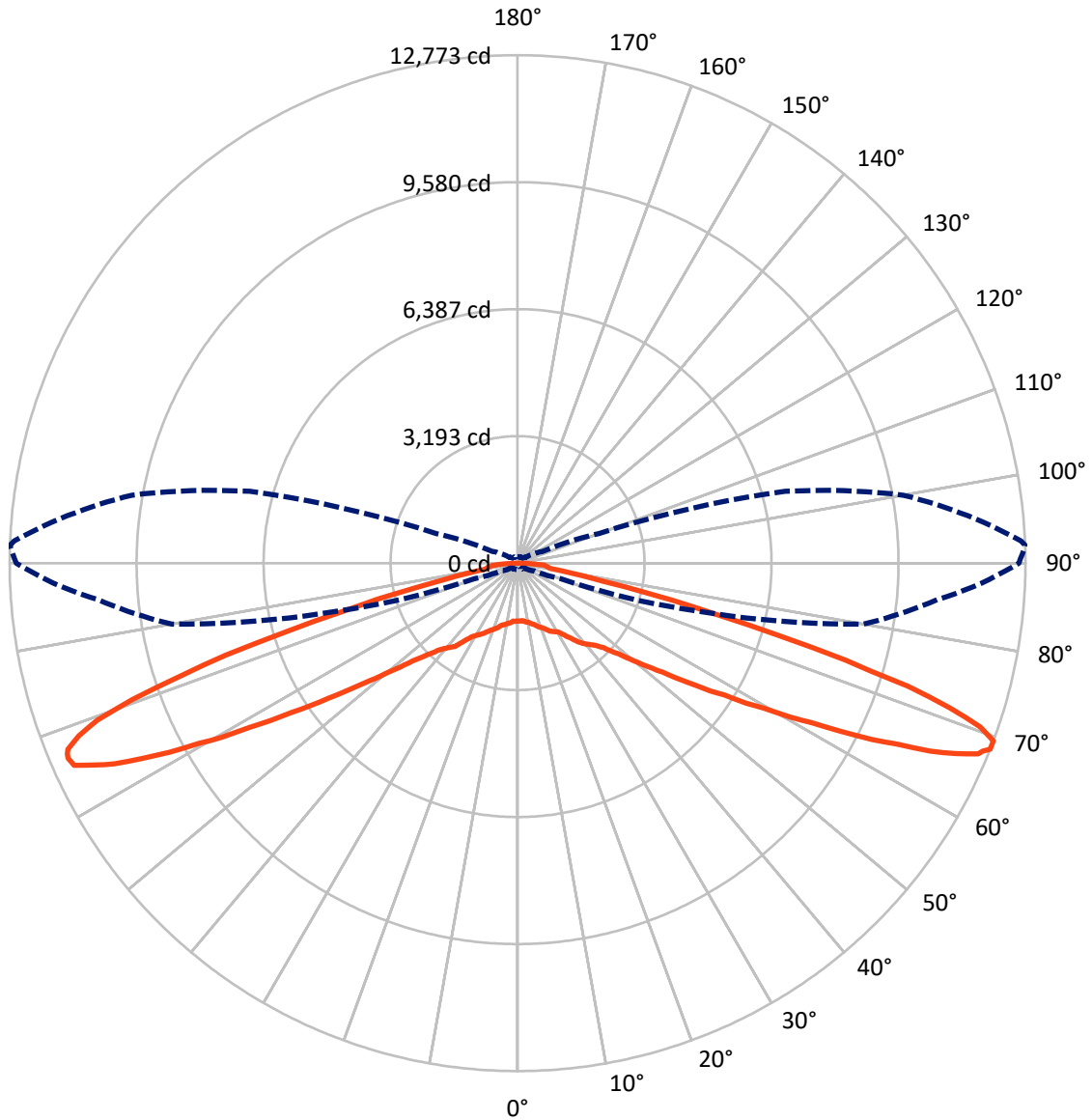
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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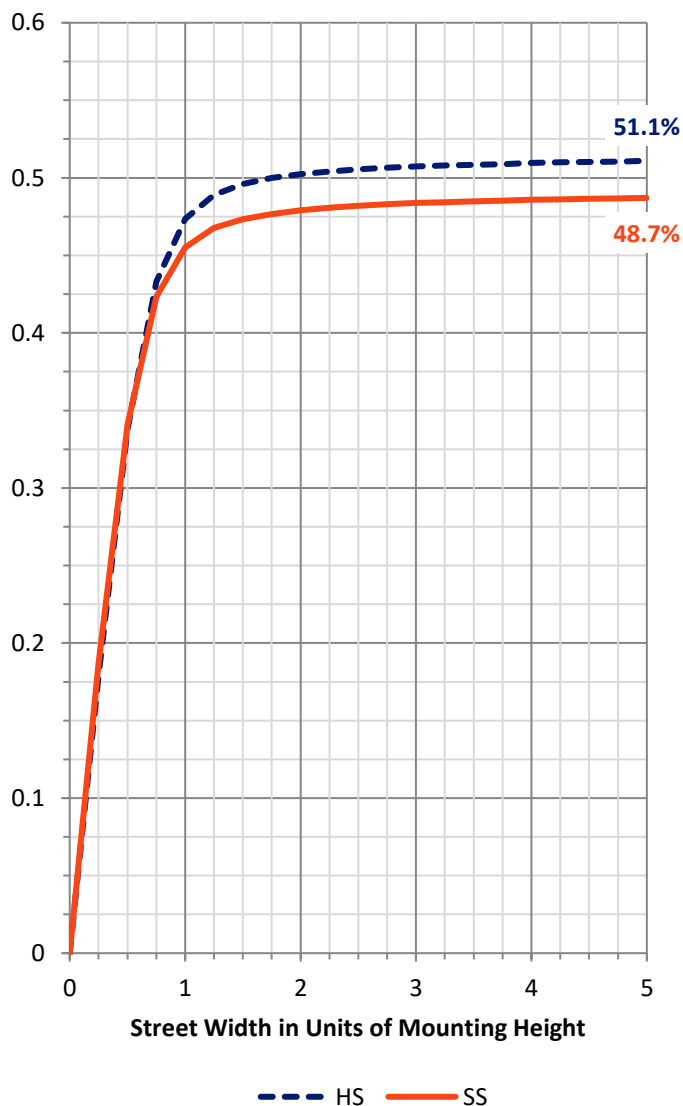
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4677.3	0.0	4677.3
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	4405.2	0.0	4405.2
	% Fixture	48.5	0.0	48.5
Total	Lumens	9082.5	0.0	9082.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	1.6
10°-20°	471.2	5.2
20°-30°	804.1	8.9
30°-40°	1122.7	12.4
40°-50°	1428.1	15.7
50°-60°	1805.7	19.9
60°-70°	2226.9	24.5
70°-80°	972.8	10.7
80°-90°	105.5	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°	9082.5	100.0
0°-180°	9082.5	100.0



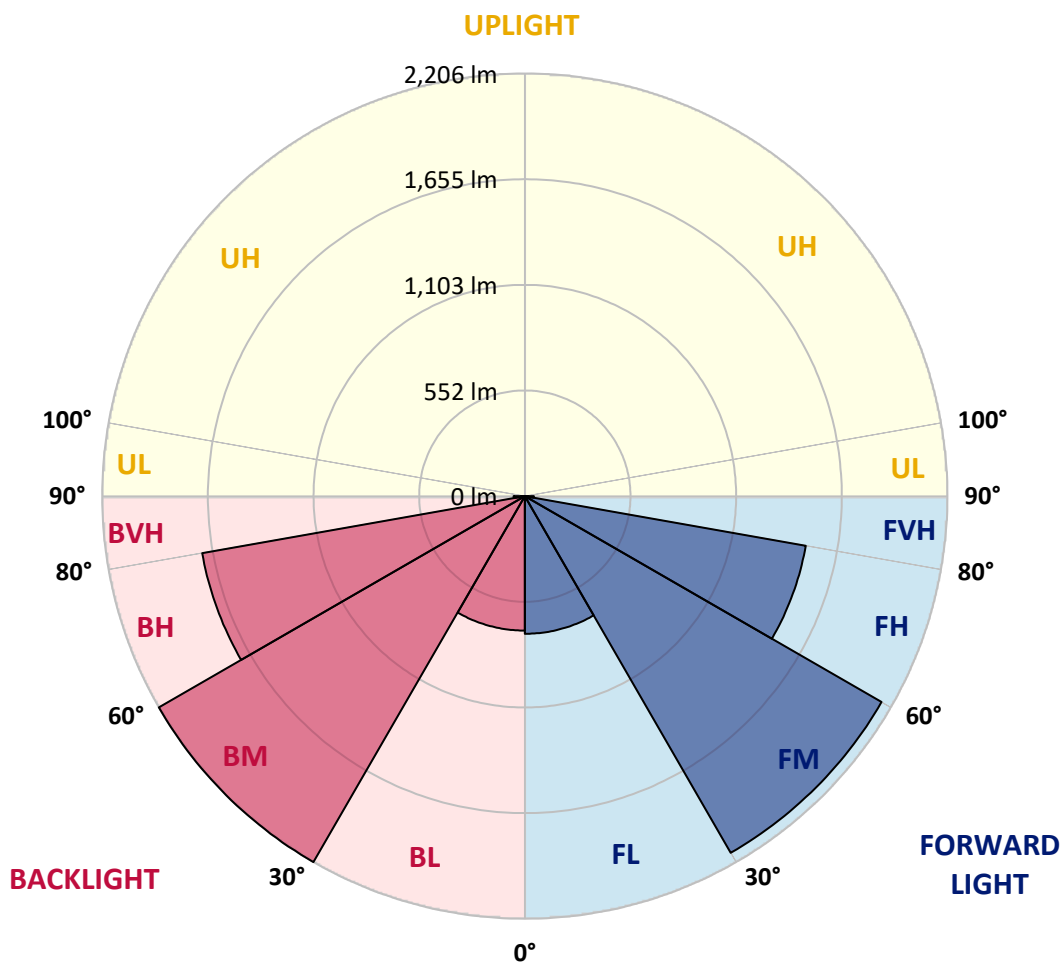
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	718.8	7.9			
FM (30°-60°)	2150.2	23.7			
FH (60°-80°)	1489.4	16.4			G1/1800
FVH (80°-90°)	46.8	0.5			G1/100
BL (0°-30°)	701.9	7.7	B2/1000		
BM (30°-60°)	2206.3	24.3	B2/2500		
BH (60°-80°)	1710.4	18.8	B3/2500		G3/2500
BVH (80°-90°)	58.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1483.1	1481.3	1486.5	1489.9	1474.5	1479.6	1476.2	1472.8	1460.9	1455.8	1445.5
5°	1524.0	1529.1	1546.1	1530.8	1537.6	1529.1	1501.8	1510.3	1495.0	1491.6	1481.3
7.5°	1595.6	1585.3	1609.2	1592.1	1597.3	1580.2	1568.3	1552.9	1549.5	1525.7	1527.4
10°	1610.9	1631.4	1641.6	1638.2	1641.6	1650.1	1627.9	1604.1	1571.7	1564.9	1541.0
12.5°	1600.7	1619.4	1646.7	1668.9	1684.2	1687.6	1679.1	1674.0	1660.3	1621.1	1619.4
15°	1590.4	1576.8	1593.9	1670.6	1721.7	1755.8	1767.7	1738.7	1742.2	1691.0	1670.6
17.5°	1522.3	1501.8	1568.3	1643.3	1706.4	1781.4	1839.3	1830.8	1830.8	1789.9	1760.9
20°	1431.9	1466.0	1500.1	1595.6	1711.5	1824.0	1934.8	1929.7	1909.2	1897.3	1834.2
22.5°	1355.2	1370.5	1433.6	1534.2	1679.1	1835.9	1967.2	2060.9	2013.2	1965.5	1928.0
25°	1302.4	1288.7	1368.8	1472.8	1648.4	1815.5	2028.5	2125.7	2151.3	2115.5	2043.9
27.5°	1227.4	1227.4	1290.4	1389.3	1549.5	1805.2	2088.2	2236.5	2274.0	2221.2	2117.2
30°	1142.1	1152.3	1206.9	1319.4	1476.2	1730.2	2112.1	2364.4	2395.0	2349.0	2241.6
32.5°	1075.6	1075.6	1137.0	1256.3	1425.1	1696.1	2096.7	2490.5	2548.5	2514.4	2403.6
35°	1004.0	998.9	1043.2	1174.5	1343.3	1629.7	2091.6	2591.1	2720.6	2722.3	2606.4
37.5°	901.8	922.2	978.5	1082.5	1278.5	1564.9	2076.3	2712.1	2943.9	2983.1	2903.0
40°	833.6	842.1	893.2	1007.5	1177.9	1488.2	2054.1	2811.0	3092.2	3226.9	3116.1
42.5°	734.7	746.6	785.8	927.3	1080.8	1379.1	1956.9	2880.9	3303.6	3457.0	3363.3
45°	630.7	637.5	695.5	811.4	976.8	1249.5	1853.0	2993.4	3508.2	3821.8	3767.3
47.5°	506.3	509.7	559.1	680.2	852.3	1120.0	1692.7	2988.3	3673.5	4186.6	4340.1
50°	395.5	404.0	441.5	540.4	702.3	961.4	1506.9	2947.3	3881.5	4602.6	4904.3
52.5°	315.4	317.1	340.9	419.3	542.1	802.9	1307.5	2817.8	4077.5	5010.0	5596.4
55°	260.8	260.8	274.4	322.2	415.9	610.3	1073.9	2603.0	4101.4	5460.0	6351.5
56°	250.6	247.2	259.1	300.0	375.0	550.6	964.8	2458.1	4135.5	5668.0	6730.0
57°	236.9	238.7	245.5	274.4	337.5	487.5	843.8	2316.6	4111.6	5838.4	7009.5
58°	230.1	226.7	240.4	259.1	298.3	433.0	760.3	2149.6	4074.1	5978.2	7417.0
59°	219.9	218.2	226.7	243.8	277.9	385.3	658.0	1968.9	4000.8	6158.9	7720.4
60°	216.5	214.8	218.2	231.8	255.7	337.5	579.6	1757.5	3804.8	6344.7	8097.1
61°	206.3	208.0	214.8	223.3	242.1	303.4	521.6	1541.0	3676.9	6501.6	8513.1
62°	208.0	204.6	208.0	214.8	228.4	279.6	456.8	1327.9	3448.5	6678.8	8825.0
63°	197.7	196.0	201.1	209.7	216.5	252.3	398.9	1147.2	3189.4	6719.8	9089.2
64°	194.3	192.6	194.3	206.3	208.0	236.9	352.9	980.2	2814.4	6789.6	9428.5
65°	185.8	185.8	189.2	194.3	201.1	223.3	315.4	850.6	2441.1	6605.5	9532.4
66°	179.0	180.7	180.7	189.2	194.3	208.0	289.8	722.8	2083.1	6312.3	9633.0
67°	173.9	173.9	175.6	182.4	187.5	196.0	260.8	625.6	1757.5	5962.9	9477.9
67.5°	170.5	172.2	172.2	179.0	184.1	196.0	248.9	593.2	1571.7	5579.3	9362.0
68°	165.4	167.1	167.1	173.9	179.0	189.2	240.4	542.1	1449.0	5330.5	9147.2
69°	161.9	160.2	160.2	167.1	173.9	180.7	223.3	473.9	1152.3	4635.0	8833.5
70°	151.7	151.7	155.1	160.2	165.4	172.2	206.3	417.6	975.1	3837.2	8025.5
71°	146.6	144.9	146.6	151.7	156.8	165.4	189.2	369.9	797.8	3186.0	7231.1
72°	136.4	139.8	139.8	144.9	150.0	155.1	177.3	322.2	669.9	2546.8	6356.7
72.5°	134.7	134.7	136.4	141.5	144.9	153.4	170.5	308.5	612.0	2245.0	5990.2
73°	129.6	129.6	131.3	136.4	139.8	148.3	165.4	277.9	557.4	1997.9	5304.9
74°	124.4	122.7	122.7	129.6	131.3	139.8	155.1	245.5	467.1	1505.2	4258.2
75°	115.9	115.9	117.6	121.0	122.7	129.6	143.2	218.2	393.8	1167.7	3330.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	95.5	97.2	98.9	102.3	102.3	107.4	117.6	151.7	240.4	591.5	1529.1
80°	69.9	73.3	78.4	83.5	81.8	81.8	92.1	109.1	143.2	265.9	586.4
82.5°	56.3	59.7	54.5	61.4	61.4	58.0	66.5	80.1	97.2	131.3	209.7
85°	37.5	39.2	32.4	37.5	35.8	35.8	44.3	47.7	59.7	73.3	104.0
87.5°	17.0	17.0	13.6	15.3	15.3	15.3	22.2	17.0	25.6	35.8	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1455.8	1462.6	1462.6	1455.8	1450.7	1455.8	1452.4	1443.8	1452.4	1455.8	1457.5
5°	1476.2	1462.6	1469.4	1454.1	1464.3	1462.6	1459.2	1467.7	1469.4	1469.4	1481.3
7.5°	1498.4	1515.4	1493.3	1495.0	1500.1	1479.6	1486.5	1489.9	1483.1	1496.7	1506.9
10°	1537.6	1544.4	1537.6	1512.0	1529.1	1515.4	1510.3	1525.7	1522.3	1525.7	1541.0
12.5°	1573.4	1585.3	1566.6	1564.9	1556.4	1544.4	1551.2	1549.5	1573.4	1576.8	1595.6
15°	1646.7	1616.0	1609.2	1607.5	1604.1	1599.0	1602.4	1604.1	1634.8	1639.9	1684.2
17.5°	1709.8	1704.7	1667.2	1680.8	1680.8	1660.3	1651.8	1680.8	1704.7	1730.2	1760.9
20°	1774.5	1769.4	1728.5	1730.2	1714.9	1733.6	1723.4	1750.7	1791.6	1800.1	1827.4
22.5°	1851.3	1829.1	1800.1	1803.5	1808.6	1795.0	1788.2	1825.7	1866.6	1890.5	1892.2
25°	1972.3	1916.0	1892.2	1895.6	1888.8	1878.5	1883.6	1931.4	1951.8	2003.0	1992.7
27.5°	2037.1	2004.7	1987.6	1948.4	1950.1	1934.8	1955.2	2026.8	2067.7	2107.0	2028.5
30°	2115.5	2095.0	2020.0	2006.4	2004.7	1997.9	2035.4	2127.4	2188.8	2210.9	2098.4
32.5°	2268.9	2187.1	2168.3	2156.4	2129.1	2137.6	2156.4	2277.4	2374.6	2369.5	2163.2
35°	2444.5	2388.2	2335.4	2325.2	2321.7	2297.9	2330.3	2471.8	2546.8	2524.6	2187.1
37.5°	2725.7	2640.5	2568.9	2529.7	2522.9	2505.8	2582.6	2695.1	2792.2	2705.3	2205.8
40°	2863.8	2768.4	2701.9	2678.0	2683.1	2707.0	2782.0	2954.2	2996.8	2836.5	2221.2
42.5°	3061.6	2957.6	2826.3	2814.4	2799.0	2811.0	2955.9	3187.7	3223.5	3013.8	2163.2
45°	3412.7	3255.9	3104.2	3036.0	3039.4	3071.8	3296.8	3550.8	3484.3	3136.6	2071.2
47.5°	3855.9	3625.8	3503.1	3411.0	3455.3	3419.5	3777.5	3980.4	3753.7	3291.7	1958.6
50°	4522.5	4200.3	4033.2	3922.4	3941.2	3971.8	4334.9	4507.1	4052.0	3366.7	1786.5
52.5°	5362.8	4948.6	4703.1	4554.8	4568.5	4635.0	5103.7	5050.9	4392.9	3429.8	1556.4
55°	6368.6	5942.4	5466.8	5405.5	5390.1	5548.7	6065.2	5620.3	4699.7	3329.2	1317.7
56°	6900.4	6447.0	5952.7	5826.5	5789.0	5899.8	6506.7	5904.9	4805.4	3216.7	1203.5
57°	7352.2	6919.2	6377.1	6162.3	6210.1	6418.0	6944.8	6172.6	4902.6	3100.8	1096.1
58°	7972.7	7478.3	6905.6	6741.9	6699.3	6864.6	7417.0	6441.9	4935.0	2981.4	997.2
59°	8591.5	7998.2	7481.7	7183.4	7195.4	7497.1	7882.3	6762.4	4984.4	2829.7	871.1
60°	9062.0	8763.6	8073.2	7849.9	7819.3	8255.6	8346.0	6977.2	5037.3	2625.2	782.4
61°	9728.5	9339.8	8697.2	8409.1	8492.6	8842.0	8847.2	7246.5	4958.8	2366.1	673.3
62°	10207.5	10105.2	9430.2	9155.7	9130.1	9593.8	9368.8	7483.4	4890.7	2120.6	594.9
63°	10768.3	10768.3	10152.9	9938.1	9950.1	10316.6	9595.5	7720.4	4812.2	1849.6	523.3
64°	11059.8	11426.3	10858.7	10556.9	10635.3	10952.4	9999.5	7875.5	4570.2	1575.1	460.3
65°	11312.1	11862.7	11547.3	11407.6	11288.2	11475.7	10349.0	8020.4	4200.3	1339.9	409.1
66°	11525.2	12273.5	12169.5	12019.5	12007.6	11965.0	10417.2	8015.3	3818.4	1131.9	358.0
67°	11417.8	12282.0	12471.3	12534.3	12515.6	12065.6	10297.8	7832.9	3329.2	956.3	318.8
67.5°	11320.6	12212.2	12652.0	12616.2	12694.6	12150.8	10318.3	7609.6	2981.4	866.0	300.0
68°	11235.4	12118.4	12725.3	12771.3	12732.1	12161.0	10205.8	7432.3	2744.5	813.1	283.0
69°	10589.3	11673.5	12607.6	12773.0	12672.4	11770.6	9847.8	6970.3	2180.3	693.8	260.8
70°	9941.6	11097.3	12036.6	12340.0	12215.6	11015.5	9396.1	6235.6	1798.4	593.2	235.2
71°	9044.9	10026.8	11276.3	11458.7	11308.7	10156.3	8461.9	5460.0	1399.5	502.9	209.7
72°	7827.8	8661.4	9854.6	10296.1	10074.5	8920.5	7517.5	4512.2	1133.6	422.8	190.9
72.5°	7224.3	8078.4	9229.0	9264.8	9307.4	8383.5	7116.9	3963.3	988.7	392.1	185.8
73°	6651.6	7488.6	8484.1	8610.2	8429.5	7478.3	6518.6	3544.0	903.5	358.0	179.0
74°	5390.1	5867.4	6692.5	6815.2	6656.7	6097.6	5327.0	2717.2	719.4	308.5	163.6
75°	4241.2	4503.7	5250.3	5175.3	4938.4	4742.4	4130.4	2076.3	583.0	271.0	151.7



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1905.8	2064.3	2188.8	2188.8	2202.4	2101.8	1904.1	952.9	359.7	196.0	124.4
80°	726.2	813.1	840.4	842.1	854.0	884.7	823.3	468.8	213.1	139.8	100.6
82.5°	526.7	736.4	792.7	751.8	755.2	681.9	315.4	208.0	134.7	97.2	73.3
85°	477.3	641.0	678.5	673.3	675.0	630.7	185.8	102.3	78.4	61.4	51.1
87.5°	231.8	226.7	240.4	271.0	264.2	342.6	156.8	51.1	34.1	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1452.4	1452.4	1452.4	1452.4	1452.4	1452.4
2.5°	1443.8	1442.1	1466.0	1442.1	1455.8	1445.5
5°	1460.9	1467.7	1472.8	1483.1	1459.2	1483.1
7.5°	1512.0	1518.8	1520.6	1529.1	1518.8	1517.1
10°	1551.2	1568.3	1578.5	1544.4	1564.9	1563.2
12.5°	1627.9	1610.9	1609.2	1602.4	1583.6	1576.8
15°	1682.5	1656.9	1641.6	1614.3	1592.1	1583.6
17.5°	1759.2	1709.8	1646.7	1590.4	1551.2	1520.6
20°	1806.9	1718.3	1592.1	1525.7	1466.0	1479.6
22.5°	1837.6	1709.8	1542.7	1457.5	1397.8	1414.9
25°	1847.8	1667.2	1508.6	1402.9	1345.0	1333.0
27.5°	1818.9	1617.7	1442.1	1322.8	1271.7	1281.9
30°	1805.2	1546.1	1380.8	1263.1	1195.0	1205.2
32.5°	1769.4	1472.8	1298.9	1179.6	1130.2	1113.1
35°	1718.3	1411.5	1220.5	1108.0	1048.4	1034.7
37.5°	1655.2	1334.7	1152.3	1016.0	963.1	952.9
40°	1561.5	1242.7	1053.5	935.9	874.5	872.8
42.5°	1479.6	1154.1	961.4	840.4	779.0	782.4
45°	1375.7	1034.7	855.7	751.8	690.4	693.8
47.5°	1242.7	923.9	755.2	639.2	588.1	584.7
50°	1085.9	797.8	632.4	533.6	490.9	482.4
52.5°	935.9	669.9	518.2	429.6	393.8	390.4
55°	746.6	521.6	404.0	337.5	310.2	312.0
56°	678.5	480.7	368.2	308.5	288.1	288.1
57°	613.7	426.2	334.1	284.7	265.9	265.9
58°	542.1	375.0	303.4	257.4	248.9	242.1
59°	492.6	340.9	274.4	243.8	230.1	228.4
60°	434.7	306.8	255.7	228.4	218.2	216.5
61°	385.3	276.2	235.2	213.1	209.7	209.7
62°	344.3	255.7	218.2	206.3	204.6	199.4
63°	308.5	235.2	209.7	196.0	190.9	196.0
64°	276.2	216.5	202.9	192.6	185.8	189.2
65°	250.6	208.0	194.3	187.5	180.7	182.4
66°	233.5	194.3	187.5	179.0	175.6	177.3
67°	211.4	187.5	180.7	172.2	170.5	172.2
67.5°	204.6	182.4	177.3	168.8	167.1	168.8
68°	199.4	179.0	175.6	167.1	165.4	163.6
69°	185.8	172.2	167.1	163.6	160.2	158.5
70°	173.9	165.4	161.9	156.8	153.4	151.7
71°	167.1	156.8	155.1	150.0	146.6	144.9
72°	158.5	151.7	148.3	141.5	139.8	141.5
72.5°	156.8	148.3	146.6	139.8	138.1	138.1
73°	151.7	141.5	143.2	136.4	133.0	136.4
74°	141.5	138.1	134.7	129.6	127.8	127.8
75°	133.0	129.6	126.1	122.7	122.7	122.7



REPORT NUMBER: P676106
CATALOG NUMBER: CCW-SA-2D-727-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	112.5	110.8	112.5	105.7	104.0	102.3
80°	90.3	90.3	92.1	86.9	83.5	81.8
82.5°	68.2	69.9	73.3	68.2	64.8	61.4
85°	44.3	46.0	46.0	40.9	47.7	44.3
87.5°	22.2	23.9	22.2	20.5	23.9	23.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)