

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: P676195

Luminaire Tested: **CCW-SA-2E-835-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676195
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

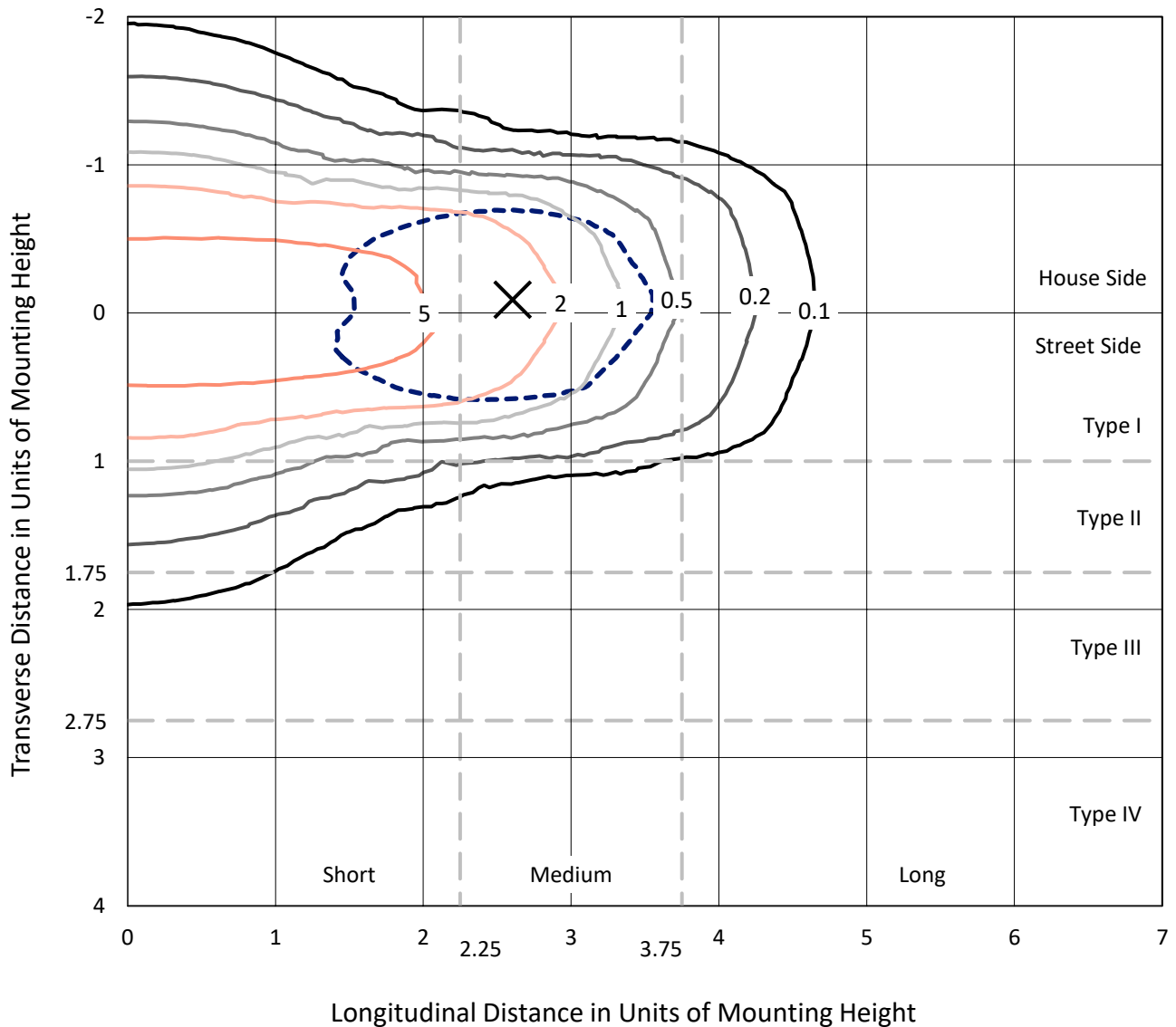
Lumens per Lamp: N/A
Luminaire Lumens: 10971.2 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{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

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Iso-Footcandle Lines of Horizontal Illumination

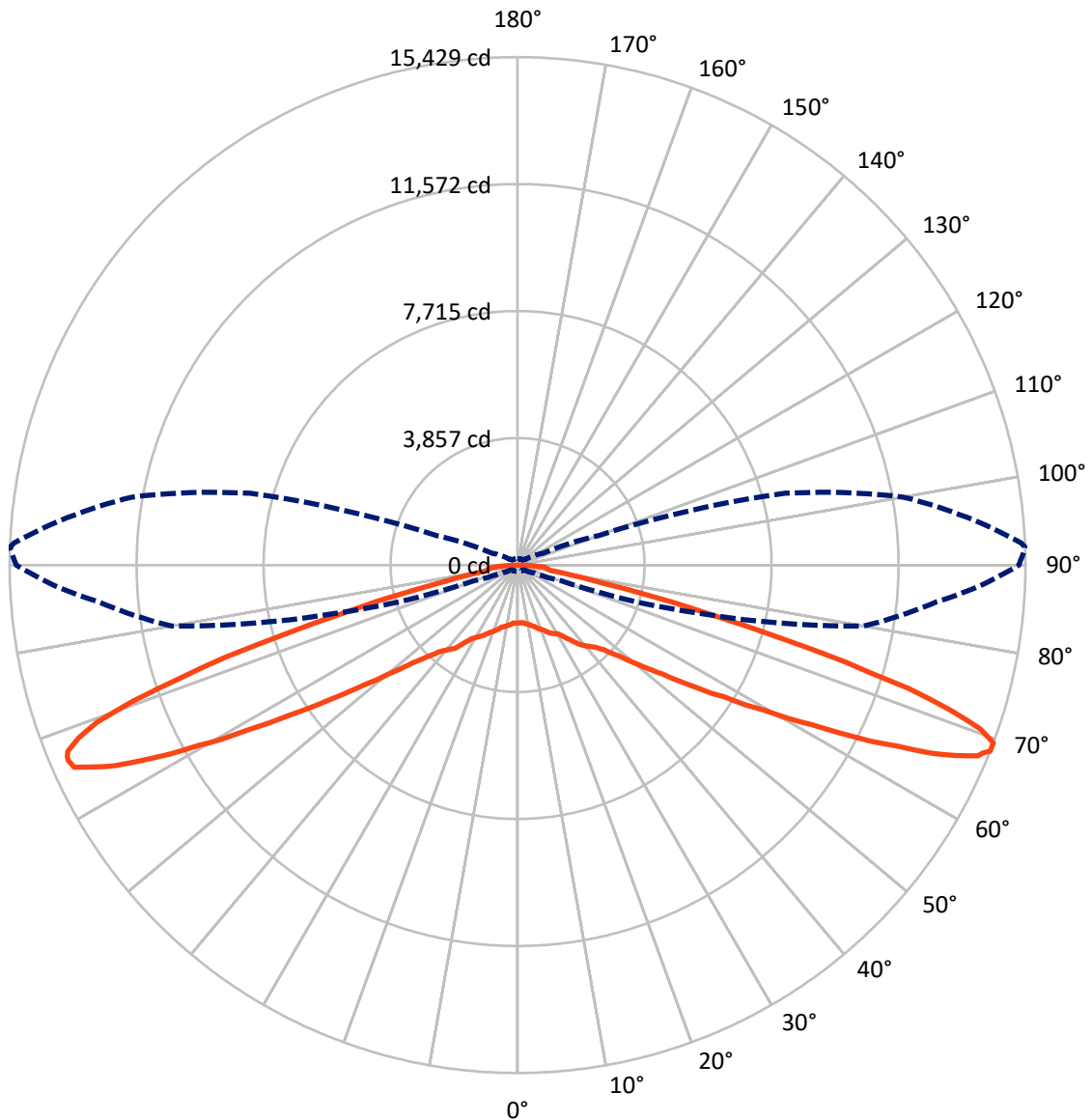
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.5 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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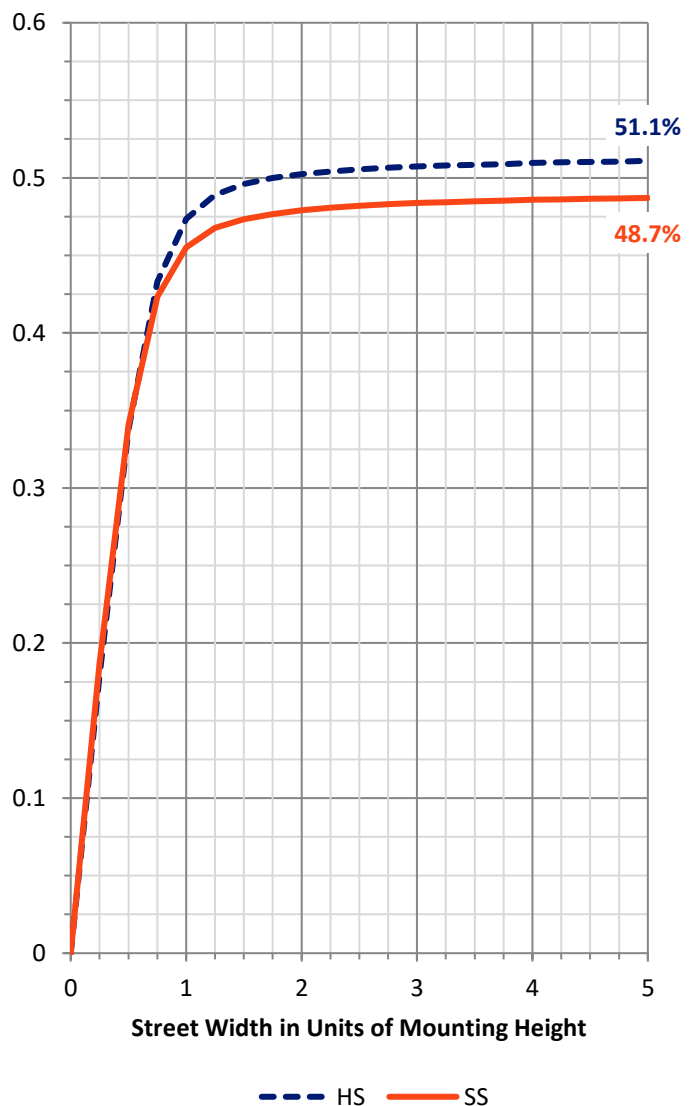
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5650.0	0.0	5650.0
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	5321.2	0.0	5321.2
	% Fixture	48.5	0.0	48.5
Total	Lumens	10971.2	0.0	10971.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	1.6
10°-20°	569.1	5.2
20°-30°	971.3	8.9
30°-40°	1356.2	12.4
40°-50°	1725.1	15.7
50°-60°	2181.2	19.9
60°-70°	2690.0	24.5
70°-80°	1175.1	10.7
80°-90°	127.4	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°	10971.2	100.0
0°-180°	10971.2	100.0



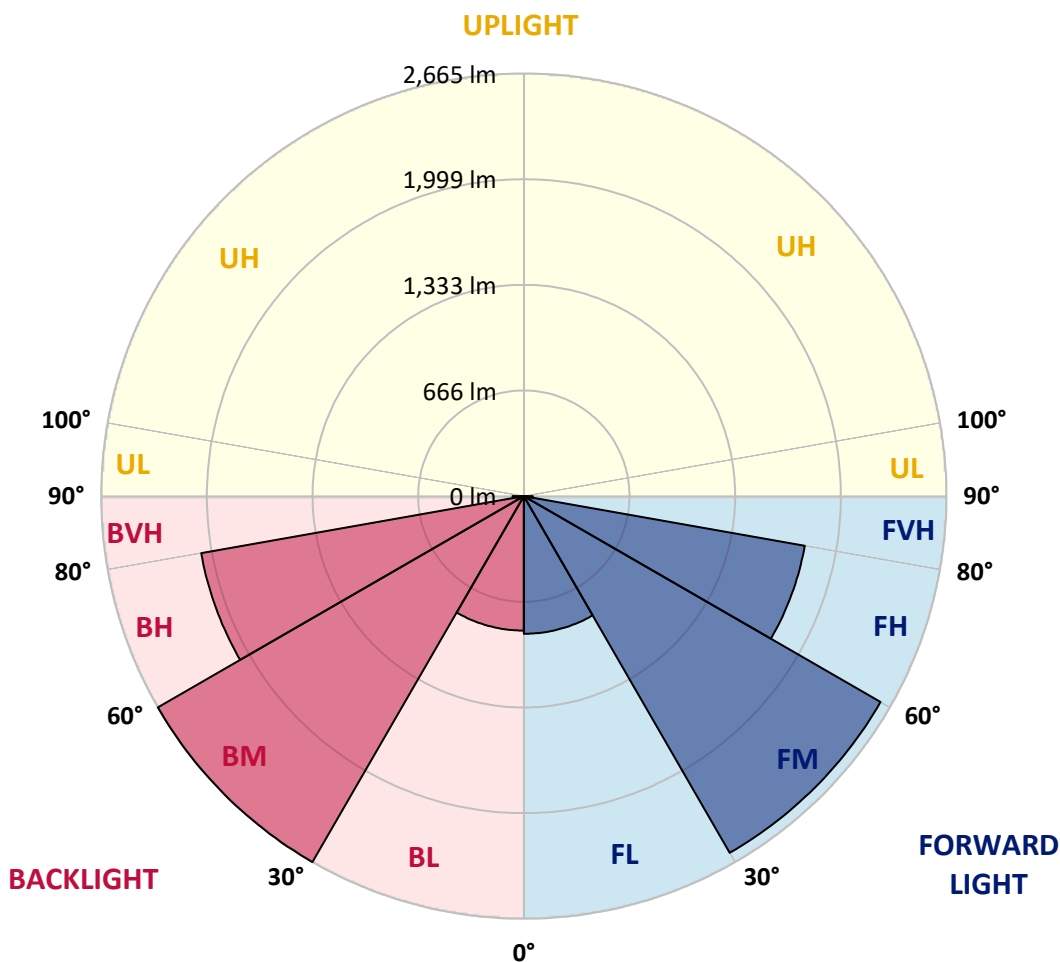
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.3	7.9			
FM (30°-60°)	2597.4	23.7			
FH (60°-80°)	1799.1	16.4			G1/1800
FVH (80°-90°)	56.5	0.5			G1/100
BL (0°-30°)	847.9	7.7	B2/1000		
BM (30°-60°)	2665.1	24.3	B3/5000		
BH (60°-80°)	2066.1	18.8	B3/2500		G3/2500
BVH (80°-90°)	70.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4
2.5°	1791.4	1789.4	1795.6	1799.7	1781.1	1787.3	1783.2	1779.1	1764.7	1758.5	1746.1
5°	1840.9	1847.0	1867.6	1849.1	1857.3	1847.0	1814.1	1824.4	1805.9	1801.7	1789.4
7.5°	1927.3	1915.0	1943.8	1923.2	1929.4	1908.8	1894.4	1875.9	1871.8	1842.9	1845.0
10°	1945.9	1970.6	1982.9	1978.8	1982.9	1993.2	1966.5	1937.6	1898.5	1890.3	1861.5
12.5°	1933.5	1956.2	1989.1	2015.9	2034.4	2038.5	2028.2	2022.1	2005.6	1958.2	1956.2
15°	1921.2	1904.7	1925.3	2018.0	2079.7	2120.9	2135.3	2100.3	2104.4	2042.7	2018.0
17.5°	1838.8	1814.1	1894.4	1985.0	2061.2	2151.8	2221.8	2211.5	2211.5	2162.1	2127.1
20°	1729.7	1770.9	1812.0	1927.3	2067.4	2203.3	2337.1	2330.9	2306.2	2291.8	2215.6
22.5°	1637.0	1655.5	1731.7	1853.2	2028.2	2217.7	2376.2	2489.5	2431.8	2374.2	2328.9
25°	1573.2	1556.7	1653.5	1779.1	1991.2	2193.0	2450.4	2567.7	2598.6	2555.4	2468.9
27.5°	1482.6	1482.6	1558.8	1678.2	1871.8	2180.6	2522.4	2701.6	2746.9	2683.0	2557.4
30°	1379.6	1392.0	1457.9	1593.8	1783.2	2090.0	2551.3	2856.0	2893.1	2837.5	2707.8
32.5°	1299.3	1299.3	1373.4	1517.6	1721.4	2048.8	2532.7	3008.4	3078.4	3037.2	2903.4
35°	1212.8	1206.7	1260.2	1418.7	1622.6	1968.5	2526.6	3129.9	3286.4	3288.4	3148.4
37.5°	1089.3	1114.0	1181.9	1307.5	1544.3	1890.3	2508.0	3276.1	3556.1	3603.5	3506.7
40°	1006.9	1017.2	1079.0	1216.9	1422.9	1797.6	2481.3	3395.5	3735.3	3897.9	3764.1
42.5°	887.5	901.9	949.3	1120.2	1305.5	1665.8	2363.9	3479.9	3990.6	4175.9	4062.7
45°	761.9	770.1	840.1	980.1	1179.9	1509.3	2238.3	3615.8	4237.7	4616.6	4550.7
47.5°	611.6	615.7	675.4	821.6	1029.6	1352.9	2044.7	3609.7	4437.4	5057.2	5242.6
50°	477.7	488.0	533.3	652.7	848.4	1161.4	1820.3	3560.2	4688.6	5559.7	5924.1
52.5°	380.9	383.0	411.8	506.5	654.8	969.9	1579.4	3403.7	4925.4	6051.8	6760.1
55°	315.0	315.0	331.5	389.2	502.4	737.2	1297.3	3144.3	4954.3	6595.4	7672.3
56°	302.7	298.6	313.0	362.4	453.0	665.1	1165.5	2969.3	4995.5	6846.6	8129.5
57°	286.2	288.3	296.5	331.5	407.7	588.9	1019.3	2798.4	4966.6	7052.5	8467.2
58°	278.0	273.9	290.3	313.0	360.3	523.0	918.4	2596.6	4921.3	7221.4	8959.3
59°	265.6	263.6	273.9	294.5	335.6	465.4	794.8	2378.3	4832.8	7439.6	9325.8
60°	261.5	259.5	263.6	280.0	308.9	407.7	700.1	2123.0	4596.0	7664.1	9780.9
61°	249.2	251.2	259.5	269.7	292.4	366.5	630.1	1861.5	4441.5	7853.5	10283.3
62°	251.2	247.1	251.2	259.5	275.9	337.7	551.8	1604.1	4165.6	8067.7	10660.1
63°	238.9	236.8	243.0	253.3	261.5	304.8	481.8	1385.8	3852.6	8117.1	10979.3
64°	234.7	232.7	234.7	249.2	251.2	286.2	426.2	1184.0	3399.6	8201.5	11389.1
65°	224.4	224.4	228.6	234.7	243.0	269.7	380.9	1027.5	2948.7	7979.1	11514.7
66°	216.2	218.3	218.3	228.6	234.7	251.2	350.1	873.1	2516.3	7625.0	11636.2
67°	210.0	210.0	212.1	220.3	226.5	236.8	315.0	755.7	2123.0	7202.8	11448.8
67.5°	205.9	208.0	208.0	216.2	222.4	236.8	300.6	716.6	1898.5	6739.5	11308.8
68°	199.7	201.8	201.8	210.0	216.2	228.6	290.3	654.8	1750.3	6438.9	11049.3
69°	195.6	193.6	193.6	201.8	210.0	218.3	269.7	572.4	1392.0	5598.8	10670.4
70°	183.3	183.3	187.4	193.6	199.7	208.0	249.2	504.5	1177.8	4635.1	9694.4
71°	177.1	175.0	177.1	183.3	189.4	199.7	228.6	446.8	963.7	3848.5	8734.8
72°	164.7	168.8	168.8	175.0	181.2	187.4	214.1	389.2	809.2	3076.3	7678.5
72.5°	162.7	162.7	164.7	170.9	175.0	185.3	205.9	372.7	739.2	2711.9	7235.8
73°	156.5	156.5	158.6	164.7	168.8	179.1	199.7	335.6	673.3	2413.3	6408.0
74°	150.3	148.3	148.3	156.5	158.6	168.8	187.4	296.5	564.2	1818.2	5143.7
75°	140.0	140.0	142.1	146.2	148.3	156.5	173.0	263.6	475.7	1410.5	4023.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	115.3	117.4	119.4	123.5	123.5	129.7	142.1	183.3	290.3	714.5	1847.0
80°	84.4	88.5	94.7	100.9	98.8	98.8	111.2	131.8	173.0	321.2	708.3
82.5°	68.0	72.1	65.9	74.1	74.1	70.0	80.3	96.8	117.4	158.6	253.3
85°	45.3	47.4	39.1	45.3	43.2	43.2	53.5	57.7	72.1	88.5	125.6
87.5°	20.6	20.6	16.5	18.5	18.5	18.5	26.8	20.6	30.9	43.2	74.1
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°	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4
2.5°	1758.5	1766.7	1766.7	1758.5	1752.3	1758.5	1754.4	1744.1	1754.4	1758.5	1760.6
5°	1783.2	1766.7	1775.0	1756.4	1768.8	1766.7	1762.6	1772.9	1775.0	1775.0	1789.4
7.5°	1810.0	1830.6	1803.8	1805.9	1812.0	1787.3	1795.6	1799.7	1791.4	1807.9	1820.3
10°	1857.3	1865.6	1857.3	1826.5	1847.0	1830.6	1824.4	1842.9	1838.8	1842.9	1861.5
12.5°	1900.6	1915.0	1892.3	1890.3	1880.0	1865.6	1873.8	1871.8	1900.6	1904.7	1927.3
15°	1989.1	1952.1	1943.8	1941.8	1937.6	1931.5	1935.6	1937.6	1974.7	1980.9	2034.4
17.5°	2065.3	2059.1	2013.8	2030.3	2030.3	2005.6	1995.3	2030.3	2059.1	2090.0	2127.1
20°	2143.6	2137.4	2088.0	2090.0	2071.5	2094.1	2081.8	2114.7	2164.1	2174.4	2207.4
22.5°	2236.2	2209.4	2174.4	2178.6	2184.7	2168.3	2160.0	2205.3	2254.8	2283.6	2285.6
25°	2382.4	2314.5	2285.6	2289.8	2281.5	2269.2	2275.3	2333.0	2357.7	2419.5	2407.1
27.5°	2460.7	2421.5	2400.9	2353.6	2355.6	2337.1	2361.8	2448.3	2497.7	2545.1	2450.4
30°	2555.4	2530.7	2440.1	2423.6	2421.5	2413.3	2458.6	2569.8	2643.9	2670.7	2534.8
32.5°	2740.7	2641.9	2619.2	2604.8	2571.9	2582.2	2604.8	2751.0	2868.4	2862.2	2613.0
35°	2952.8	2884.8	2821.0	2808.7	2804.5	2775.7	2814.8	2985.7	3076.3	3049.6	2641.9
37.5°	3292.6	3189.6	3103.1	3055.8	3047.5	3026.9	3119.6	3255.5	3372.9	3267.8	2664.5
40°	3459.3	3344.0	3263.7	3234.9	3241.1	3269.9	3360.5	3568.5	3620.0	3426.4	2683.0
42.5°	3698.2	3572.6	3414.0	3399.6	3381.1	3395.5	3570.5	3850.6	3893.8	3640.5	2613.0
45°	4122.4	3932.9	3749.7	3667.3	3671.4	3710.6	3982.4	4289.2	4208.9	3788.8	2501.8
47.5°	4657.8	4379.8	4231.5	4120.3	4173.9	4130.6	4563.0	4808.1	4534.2	3976.2	2365.9
50°	5462.9	5073.7	4871.9	4738.1	4760.7	4797.8	5236.4	5444.3	4894.6	4066.8	2158.0
52.5°	6478.0	5977.7	5681.1	5502.0	5518.5	5598.8	6165.0	6101.2	5306.4	4143.0	1880.0
55°	7692.9	7178.1	6603.6	6529.5	6511.0	6702.5	7326.4	6789.0	5677.0	4021.5	1591.7
56°	8335.4	7787.6	7190.5	7038.1	6992.8	7126.7	7859.7	7132.8	5804.7	3885.6	1453.7
57°	8881.0	8358.0	7703.2	7443.8	7501.4	7752.6	8388.9	7456.1	5922.1	3745.6	1324.0
58°	9630.6	9033.4	8341.5	8143.9	8092.4	8292.1	8959.3	7781.5	5961.2	3601.4	1204.6
59°	10378.0	9661.5	9037.5	8677.2	8691.6	9056.1	9521.4	8168.6	6020.9	3418.2	1052.2
60°	10946.3	10586.0	9752.1	9482.3	9445.2	9972.4	10081.5	8428.0	6084.7	3171.1	945.1
61°	11751.5	11282.0	10505.7	10157.7	10258.6	10680.7	10686.9	8753.4	5990.0	2858.1	813.4
62°	12330.1	12206.5	11391.1	11059.6	11028.7	11588.8	11317.0	9039.6	5907.7	2561.6	718.6
63°	13007.5	13007.5	12264.2	12004.7	12019.2	12461.9	11590.9	9325.8	5812.9	2234.2	632.2
64°	13359.7	13802.4	13116.7	12752.2	12846.9	13229.9	12078.9	9513.2	5520.5	1902.6	556.0
65°	13664.4	14329.5	13948.6	13779.7	13635.6	13862.1	12501.0	9688.2	5073.7	1618.5	494.2
66°	13921.8	14825.8	14700.1	14518.9	14504.5	14453.1	12583.4	9682.0	4612.5	1367.3	432.4
67°	13792.1	14836.1	15064.6	15140.8	15118.2	14574.5	12439.2	9461.7	4021.5	1155.2	385.1
67.5°	13674.7	14751.6	15282.9	15239.6	15334.4	14677.5	12463.9	9192.0	3601.4	1046.0	362.4
68°	13571.7	14638.4	15371.4	15427.0	15379.7	14689.9	12328.0	8977.8	3315.2	982.2	341.8
69°	12791.3	14100.9	15229.3	15429.1	15307.6	14218.3	11895.6	8419.8	2633.6	838.1	315.0
70°	12008.9	13405.0	14539.5	14906.1	14755.7	13306.1	11349.9	7532.3	2172.4	716.6	284.2
71°	10925.8	12111.8	13621.2	13841.5	13660.3	12268.3	10221.5	6595.4	1690.5	607.4	253.3
72°	9455.5	10462.5	11903.8	12437.2	12169.5	10775.4	9080.8	5450.5	1369.3	510.7	230.6
72.5°	8726.6	9758.2	11148.1	11191.4	11242.9	10126.8	8596.9	4787.5	1194.3	473.6	224.4
73°	8034.7	9045.8	10248.3	10400.7	10182.4	9033.4	7874.1	4280.9	1091.3	432.4	216.2
74°	6511.0	7087.5	8084.2	8232.4	8040.9	7365.5	6434.8	3282.3	869.0	372.7	197.7
75°	5123.1	5440.2	6342.1	6251.5	5965.3	5728.5	4989.3	2508.0	704.2	327.4	183.3



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	2302.1	2493.6	2643.9	2643.9	2660.4	2538.9	2300.1	1151.1	434.5	236.8	150.3
80°	877.2	982.2	1015.2	1017.2	1031.6	1068.7	994.6	566.3	257.4	168.8	121.5
82.5°	636.3	889.5	957.5	908.1	912.2	823.7	380.9	251.2	162.7	117.4	88.5
85°	576.6	774.2	819.5	813.4	815.4	761.9	224.4	123.5	94.7	74.1	61.8
87.5°	280.0	273.9	290.3	327.4	319.2	413.9	189.4	61.8	41.2	30.9	30.9
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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CATALOG NUMBER: CCW-SA-2E-835-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4
2.5°	1744.1	1742.0	1770.9	1742.0	1758.5	1746.1
5°	1764.7	1772.9	1779.1	1791.4	1762.6	1791.4
7.5°	1826.5	1834.7	1836.7	1847.0	1834.7	1832.6
10°	1873.8	1894.4	1906.8	1865.6	1890.3	1888.2
12.5°	1966.5	1945.9	1943.8	1935.6	1912.9	1904.7
15°	2032.4	2001.5	1982.9	1950.0	1923.2	1912.9
17.5°	2125.0	2065.3	1989.1	1921.2	1873.8	1836.7
20°	2182.7	2075.6	1923.2	1842.9	1770.9	1787.3
22.5°	2219.7	2065.3	1863.5	1760.6	1688.5	1709.1
25°	2232.1	2013.8	1822.3	1694.7	1624.7	1610.2
27.5°	2197.1	1954.1	1742.0	1597.9	1536.1	1548.5
30°	2180.6	1867.6	1667.9	1525.8	1443.5	1455.8
32.5°	2137.4	1779.1	1569.1	1424.9	1365.2	1344.6
35°	2075.6	1705.0	1474.3	1338.4	1266.4	1249.9
37.5°	1999.4	1612.3	1392.0	1227.2	1163.4	1151.1
40°	1886.2	1501.1	1272.5	1130.5	1056.3	1054.3
42.5°	1787.3	1394.0	1161.4	1015.2	941.0	945.1
45°	1661.7	1249.9	1033.7	908.1	833.9	838.1
47.5°	1501.1	1116.0	912.2	772.2	710.4	706.3
50°	1311.7	963.7	763.9	644.5	593.0	582.7
52.5°	1130.5	809.2	626.0	518.9	475.7	471.5
55°	901.9	630.1	488.0	407.7	374.8	376.8
56°	819.5	580.7	444.8	372.7	348.0	348.0
57°	741.3	514.8	403.6	343.9	321.2	321.2
58°	654.8	453.0	366.5	310.9	300.6	292.4
59°	595.1	411.8	331.5	294.5	278.0	275.9
60°	525.1	370.6	308.9	275.9	263.6	261.5
61°	465.4	333.6	284.2	257.4	253.3	253.3
62°	415.9	308.9	263.6	249.2	247.1	240.9
63°	372.7	284.2	253.3	236.8	230.6	236.8
64°	333.6	261.5	245.0	232.7	224.4	228.6
65°	302.7	251.2	234.7	226.5	218.3	220.3
66°	282.1	234.7	226.5	216.2	212.1	214.1
67°	255.3	226.5	218.3	208.0	205.9	208.0
67.5°	247.1	220.3	214.1	203.9	201.8	203.9
68°	240.9	216.2	212.1	201.8	199.7	197.7
69°	224.4	208.0	201.8	197.7	193.6	191.5
70°	210.0	199.7	195.6	189.4	185.3	183.3
71°	201.8	189.4	187.4	181.2	177.1	175.0
72°	191.5	183.3	179.1	170.9	168.8	170.9
72.5°	189.4	179.1	177.1	168.8	166.8	166.8
73°	183.3	170.9	173.0	164.7	160.6	164.7
74°	170.9	166.8	162.7	156.5	154.4	154.4
75°	160.6	156.5	152.4	148.3	148.3	148.3



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	135°	145°	155°	165°	175°	180°
77.5°	135.9	133.8	135.9	127.7	125.6	123.5
80°	109.1	109.1	111.2	105.0	100.9	98.8
82.5°	82.4	84.4	88.5	82.4	78.2	74.1
85°	53.5	55.6	55.6	49.4	57.7	53.5
87.5°	26.8	28.8	26.8	24.7	28.8	28.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)