

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: P676192

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676192  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-835-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T1 distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

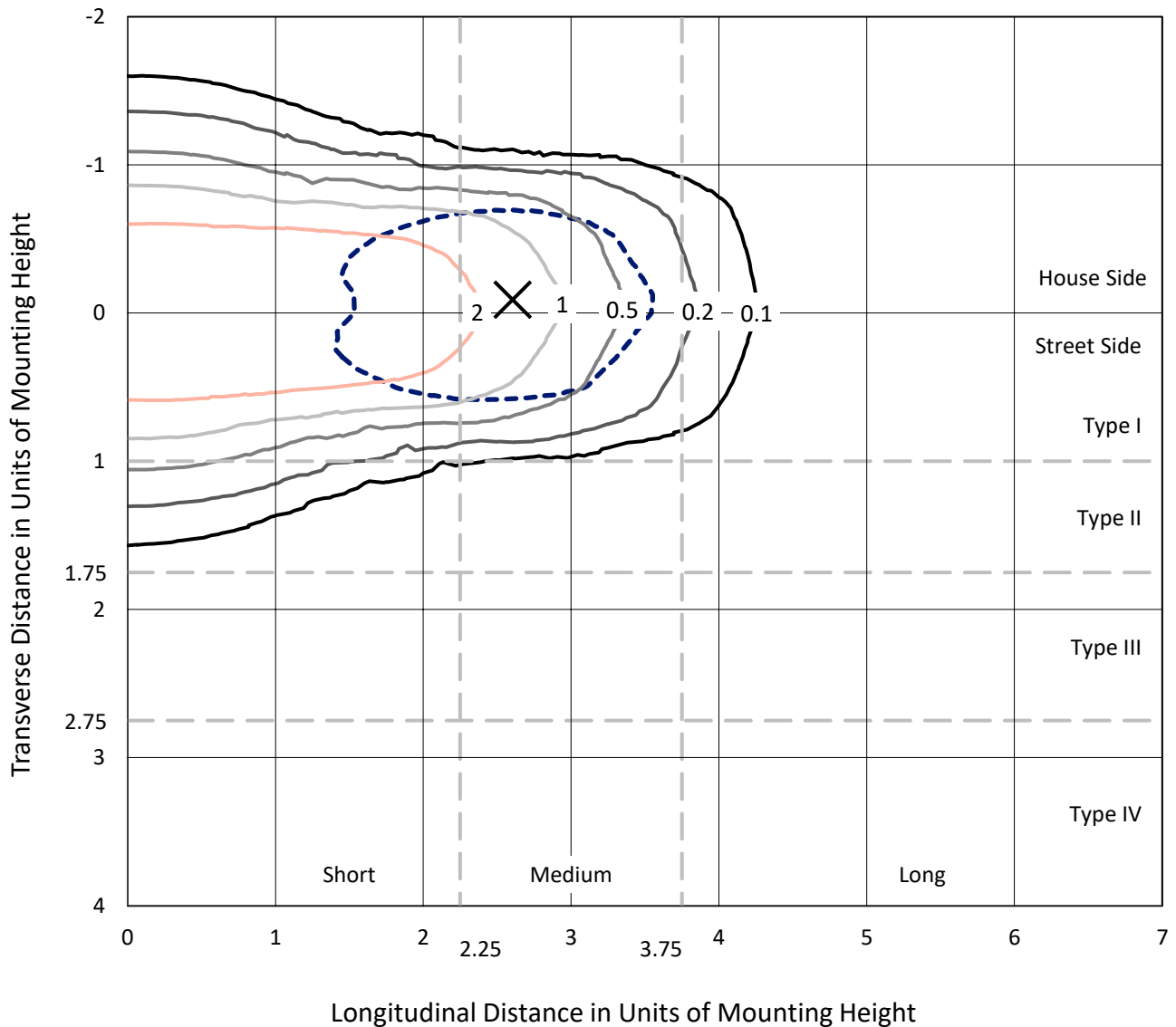
Lumens per Lamp: N/A  
Luminaire Lumens: 5541.5 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 46  
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

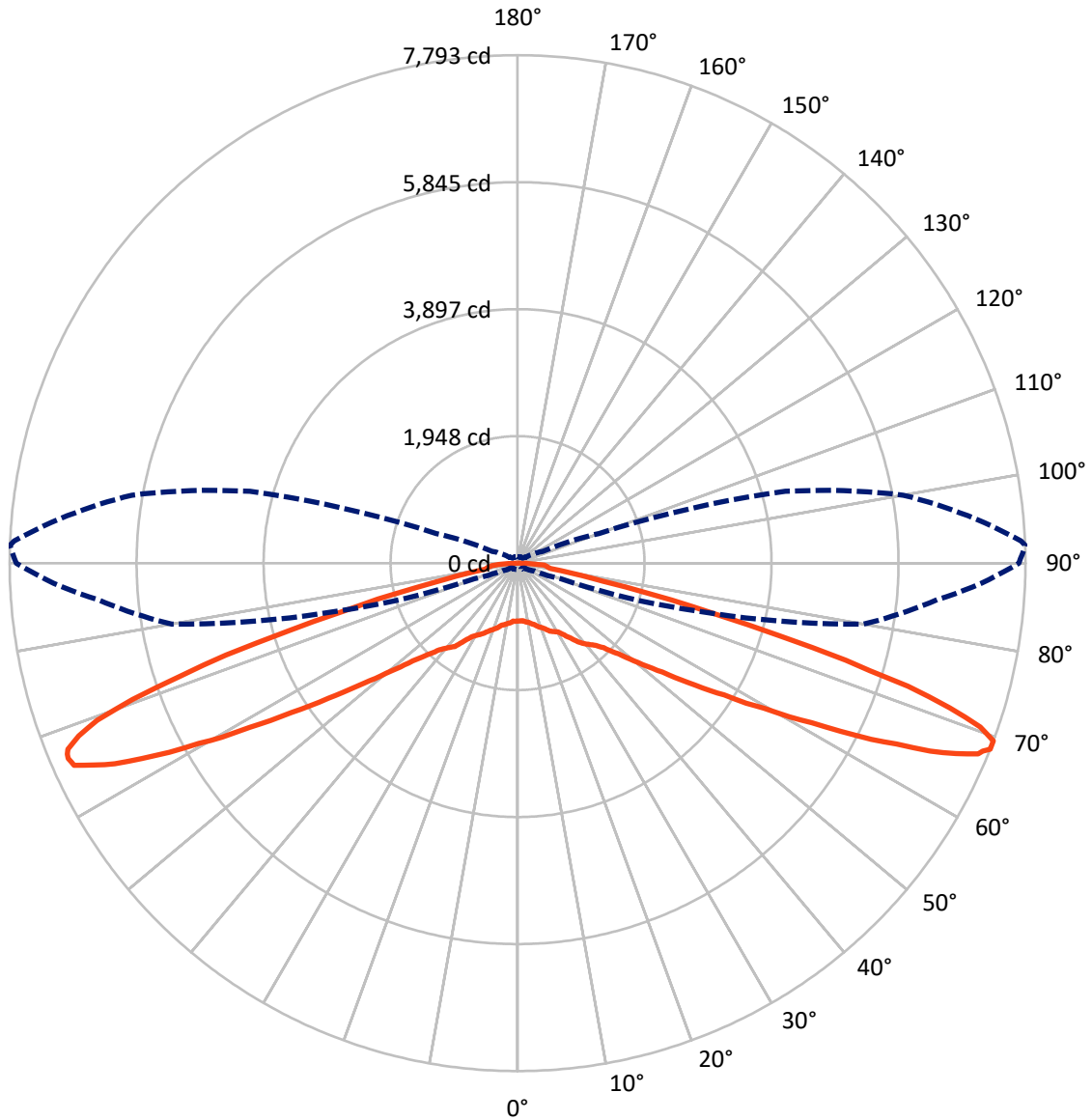
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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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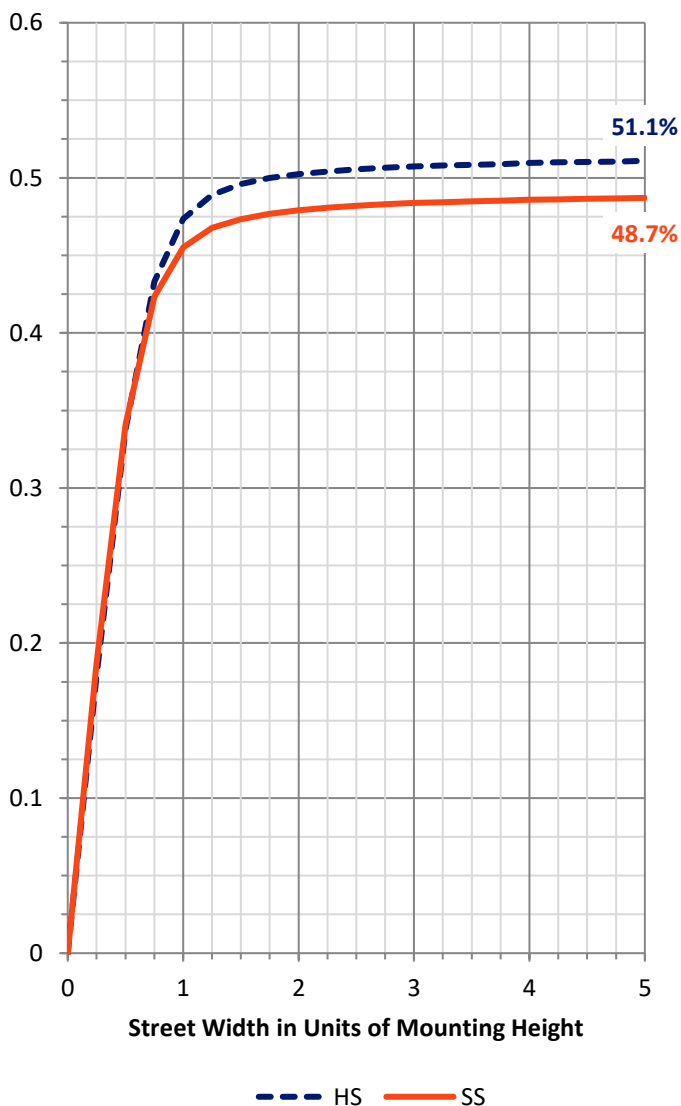
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2853.8	0.0	2853.8
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	2687.7	0.0	2687.7
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	5541.5	0.0	5541.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	1.6
10°-20°	287.5	5.2
20°-30°	490.6	8.9
30°-40°	685.0	12.4
40°-50°	871.3	15.7
50°-60°	1101.7	19.9
60°-70°	1358.7	24.5
70°-80°	593.5	10.7
80°-90°	64.4	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°	5541.5	100.0
0°-180°	5541.5	100.0



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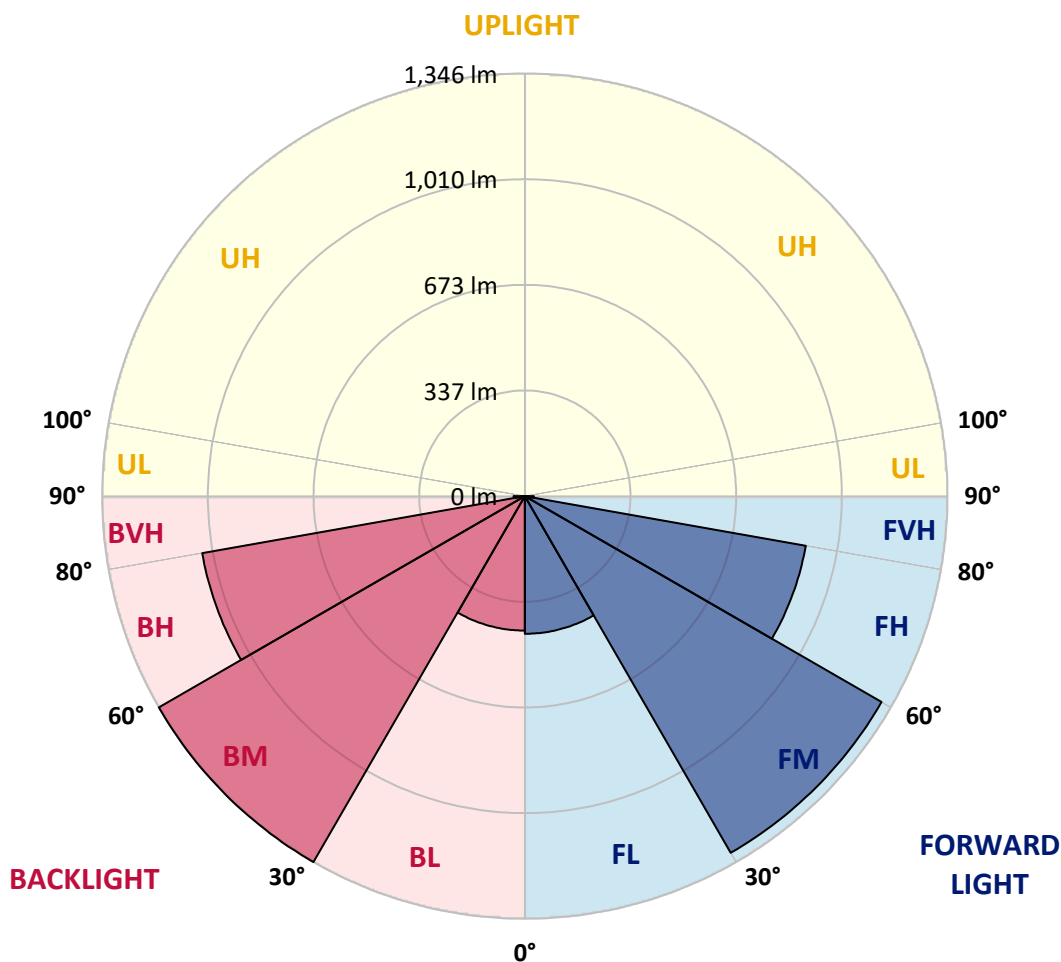
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.6	7.9			
FM (30°-60°)	1311.9	23.7			
FH (60°-80°)	908.7	16.4			G1/1800
FVH (80°-90°)	28.5	0.5			G1/100
BL (0°-30°)	428.3	7.7	B1/500		
BM (30°-60°)	1346.1	24.3	B2/2500		
BH (60°-80°)	1043.6	18.8	B3/2500		G3/2500
BVH (80°-90°)	35.8	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°	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1
2.5°	904.9	903.8	906.9	909.0	899.7	902.8	900.7	898.6	891.3	888.2	882.0
5°	929.8	932.9	943.3	934.0	938.1	932.9	916.3	921.5	912.1	910.1	903.8
7.5°	973.5	967.3	981.8	971.4	974.5	964.1	956.9	947.5	945.4	930.9	931.9
10°	982.9	995.3	1001.6	999.5	1001.6	1006.8	993.3	978.7	958.9	954.8	940.2
12.5°	976.6	988.1	1004.7	1018.2	1027.6	1029.7	1024.5	1021.3	1013.0	989.1	988.1
15°	970.4	962.1	972.5	1019.3	1050.5	1071.3	1078.5	1060.9	1062.9	1031.7	1019.3
17.5°	928.8	916.3	956.9	1002.6	1041.1	1086.9	1122.2	1117.0	1117.0	1092.1	1074.4
20°	873.6	894.5	915.3	973.5	1044.2	1112.9	1180.5	1177.3	1164.9	1157.6	1119.1
22.5°	826.8	836.2	874.7	936.1	1024.5	1120.1	1200.2	1257.4	1228.3	1199.2	1176.3
25°	794.6	786.3	835.2	898.6	1005.7	1107.7	1237.7	1297.0	1312.6	1290.7	1247.0
27.5°	748.8	748.8	787.3	847.6	945.4	1101.4	1274.1	1364.6	1387.4	1355.2	1291.8
30°	696.8	703.1	736.4	805.0	900.7	1055.7	1288.6	1442.6	1461.3	1433.2	1367.7
32.5°	656.3	656.3	693.7	766.5	869.5	1034.9	1279.3	1519.5	1554.9	1534.1	1466.5
35°	612.6	609.5	636.5	716.6	819.6	994.3	1276.2	1580.9	1659.9	1661.0	1590.3
37.5°	550.2	562.7	597.0	660.4	780.0	954.8	1266.8	1654.7	1796.2	1820.1	1771.2
40°	508.6	513.8	545.0	614.7	718.7	908.0	1253.3	1715.1	1886.7	1968.8	1901.2
42.5°	448.3	455.5	479.5	565.8	659.4	841.4	1194.0	1757.7	2015.6	2109.2	2052.0
45°	384.8	389.0	424.3	495.1	596.0	762.4	1130.5	1826.3	2140.4	2331.8	2298.5
47.5°	308.9	311.0	341.1	415.0	520.0	683.3	1032.8	1823.2	2241.3	2554.4	2648.0
50°	241.3	246.5	269.4	329.7	428.5	586.6	919.4	1798.3	2368.2	2808.2	2992.2
52.5°	192.4	193.5	208.0	255.9	330.7	489.9	797.7	1719.2	2487.8	3056.7	3414.5
55°	159.1	159.1	167.4	196.6	253.8	372.3	655.2	1588.2	2502.4	3331.3	3875.3
56°	152.9	150.8	158.1	183.1	228.8	335.9	588.7	1499.8	2523.2	3458.2	4106.2
57°	144.6	145.6	149.8	167.4	205.9	297.5	514.8	1413.4	2508.6	3562.2	4276.7
58°	140.4	138.3	146.6	158.1	182.0	264.2	463.9	1311.5	2485.7	3647.5	4525.3
59°	134.2	133.1	138.3	148.7	169.5	235.1	401.5	1201.3	2441.0	3757.7	4710.4
60°	132.1	131.0	133.1	141.4	156.0	205.9	353.6	1072.3	2321.4	3871.1	4940.3
61°	125.8	126.9	131.0	136.2	147.7	185.1	318.3	940.2	2243.4	3966.8	5194.1
62°	126.9	124.8	126.9	131.0	139.4	170.6	278.7	810.2	2104.0	4075.0	5384.4
63°	120.6	119.6	122.7	127.9	132.1	153.9	243.4	700.0	1946.0	4099.9	5545.6
64°	118.6	117.5	118.6	125.8	126.9	144.6	215.3	598.0	1717.1	4142.6	5752.6
65°	113.4	113.4	115.4	118.6	122.7	136.2	192.4	519.0	1489.4	4030.2	5816.0
66°	109.2	110.2	110.2	115.4	118.6	126.9	176.8	441.0	1271.0	3851.3	5877.4
67°	106.1	106.1	107.1	111.3	114.4	119.6	159.1	381.7	1072.3	3638.1	5782.7
67.5°	104.0	105.0	105.0	109.2	112.3	119.6	151.8	361.9	958.9	3404.1	5712.0
68°	100.9	101.9	101.9	106.1	109.2	115.4	146.6	330.7	884.1	3252.3	5581.0
69°	98.8	97.8	97.8	101.9	106.1	110.2	136.2	289.1	703.1	2827.9	5389.6
70°	92.6	92.6	94.6	97.8	100.9	105.0	125.8	254.8	594.9	2341.2	4896.6
71°	89.4	88.4	89.4	92.6	95.7	100.9	115.4	225.7	486.7	1943.9	4411.9
72°	83.2	85.3	85.3	88.4	91.5	94.6	108.2	196.6	408.7	1553.8	3878.4
72.5°	82.2	82.2	83.2	86.3	88.4	93.6	104.0	188.3	373.4	1369.8	3654.8
73°	79.0	79.0	80.1	83.2	85.3	90.5	100.9	169.5	340.1	1218.9	3236.7
74°	75.9	74.9	74.9	79.0	80.1	85.3	94.6	149.8	285.0	918.4	2598.1
75°	70.7	70.7	71.8	73.8	74.9	79.0	87.4	133.1	240.3	712.4	2032.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	58.2	59.3	60.3	62.4	62.4	65.5	71.8	92.6	146.6	360.9	932.9
80°	42.6	44.7	47.8	51.0	49.9	49.9	56.2	66.6	87.4	162.2	357.8
82.5°	34.3	36.4	33.3	37.4	37.4	35.4	40.6	48.9	59.3	80.1	127.9
85°	22.9	23.9	19.8	22.9	21.8	21.8	27.0	29.1	36.4	44.7	63.4
87.5°	10.4	10.4	8.3	9.4	9.4	9.4	13.5	10.4	15.6	21.8	37.4
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°	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1
2.5°	888.2	892.4	892.4	888.2	885.1	888.2	886.1	880.9	886.1	888.2	889.3
5°	900.7	892.4	896.5	887.2	893.4	892.4	890.3	895.5	896.5	896.5	903.8
7.5°	914.2	924.6	911.1	912.1	915.3	902.8	906.9	909.0	904.9	913.2	919.4
10°	938.1	942.3	938.1	922.5	932.9	924.6	921.5	930.9	928.8	930.9	940.2
12.5°	960.0	967.3	955.8	954.8	949.6	942.3	946.5	945.4	960.0	962.1	973.5
15°	1004.7	986.0	981.8	980.8	978.7	975.6	977.7	978.7	997.4	1000.5	1027.6
17.5°	1043.2	1040.1	1017.2	1025.5	1025.5	1013.0	1007.8	1025.5	1040.1	1055.7	1074.4
20°	1082.7	1079.6	1054.6	1055.7	1046.3	1057.7	1051.5	1068.1	1093.1	1098.3	1114.9
22.5°	1129.5	1116.0	1098.3	1100.4	1103.5	1095.2	1091.0	1113.9	1138.9	1153.4	1154.5
25°	1203.3	1169.0	1154.5	1156.5	1152.4	1146.1	1149.3	1178.4	1190.9	1222.1	1215.8
27.5°	1242.9	1223.1	1212.7	1188.8	1189.8	1180.5	1192.9	1236.6	1261.6	1285.5	1237.7
30°	1290.7	1278.2	1232.5	1224.1	1223.1	1218.9	1241.8	1298.0	1335.4	1349.0	1280.3
32.5°	1384.3	1334.4	1323.0	1315.7	1299.0	1304.2	1315.7	1389.5	1448.8	1445.7	1319.8
35°	1491.4	1457.1	1424.9	1418.6	1416.6	1402.0	1421.8	1508.1	1553.8	1540.3	1334.4
37.5°	1663.1	1611.1	1567.4	1543.4	1539.3	1528.9	1575.7	1644.3	1703.6	1650.6	1345.8
40°	1747.3	1689.1	1648.5	1633.9	1637.1	1651.6	1697.4	1802.4	1828.4	1730.7	1355.2
42.5°	1867.9	1804.5	1724.4	1717.1	1707.8	1715.1	1803.5	1944.9	1966.8	1838.8	1319.8
45°	2082.2	1986.5	1893.9	1852.3	1854.4	1874.2	2011.5	2166.4	2125.9	1913.7	1263.7
47.5°	2352.6	2212.2	2137.3	2081.2	2108.2	2086.4	2304.8	2428.5	2290.2	2008.4	1195.0
50°	2759.3	2562.7	2460.8	2393.2	2404.6	2423.3	2644.9	2749.9	2472.2	2054.1	1090.0
52.5°	3272.0	3019.3	2869.5	2779.0	2787.4	2827.9	3113.9	3081.7	2680.2	2092.6	949.6
55°	3885.7	3625.6	3335.5	3298.0	3288.7	3385.4	3700.5	3429.1	2867.4	2031.2	804.0
56°	4210.2	3933.5	3631.9	3554.9	3532.0	3599.6	3969.9	3602.8	2931.9	1962.6	734.3
57°	4485.8	4221.6	3890.9	3759.8	3788.9	3915.8	4237.2	3766.1	2991.2	1891.9	668.8
58°	4864.4	4562.7	4213.3	4113.4	4087.4	4188.3	4525.3	3930.4	3011.0	1819.1	608.4
59°	5241.9	4880.0	4564.8	4382.8	4390.1	4574.2	4809.2	4125.9	3041.1	1726.5	531.5
60°	5529.0	5346.9	4925.7	4789.5	4770.8	5037.0	5092.1	4257.0	3073.4	1601.7	477.4
61°	5935.6	5698.5	5306.4	5130.6	5181.6	5394.8	5397.9	4421.3	3025.5	1443.6	410.8
62°	6227.9	6165.5	5753.6	5586.2	5570.6	5853.5	5716.2	4565.9	2983.9	1293.8	363.0
63°	6570.1	6570.1	6194.6	6063.5	6070.8	6294.4	5854.5	4710.4	2936.1	1128.5	319.3
64°	6747.9	6971.5	6625.2	6441.1	6488.9	6682.4	6101.0	4805.1	2788.4	961.0	280.8
65°	6901.8	7237.8	7045.4	6960.1	6887.3	7001.7	6314.2	4893.5	2562.7	817.5	249.6
66°	7031.8	7488.4	7425.0	7333.5	7326.2	7300.2	6355.8	4890.4	2329.7	690.6	218.4
67°	6966.3	7493.6	7609.1	7647.6	7636.1	7361.5	6283.0	4779.1	2031.2	583.5	194.5
67.5°	6907.0	7451.0	7719.3	7697.5	7745.3	7413.5	6295.5	4642.8	1819.1	528.3	183.1
68°	6855.0	7393.8	7764.0	7792.1	7768.2	7419.8	6226.8	4534.7	1674.5	496.1	172.6
69°	6460.8	7122.3	7692.3	7793.2	7731.8	7181.6	6008.4	4252.8	1330.2	423.3	159.1
70°	6065.6	6770.8	7343.9	7529.0	7453.1	6720.9	5732.8	3804.5	1097.3	361.9	143.5
71°	5518.6	6117.6	6880.0	6991.3	6899.8	6196.7	5162.9	3331.3	853.9	306.8	127.9
72°	4776.0	5284.5	6012.6	6282.0	6146.7	5442.6	4586.7	2753.0	691.6	257.9	116.5
72.5°	4407.8	4928.8	5630.9	5652.7	5678.7	5115.0	4342.2	2418.1	603.2	239.2	113.4
73°	4058.3	4569.0	5176.4	5253.3	5143.1	4562.7	3977.2	2162.3	551.2	218.4	109.2
74°	3288.7	3579.9	4083.3	4158.2	4061.4	3720.3	3250.2	1657.9	438.9	188.3	99.8
75°	2587.7	2747.8	3203.4	3157.6	3013.1	2893.4	2520.1	1266.8	355.7	165.4	92.6



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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1162.8	1259.5	1335.4	1335.4	1343.8	1282.4	1161.7	581.4	219.5	119.6	75.9
80°	443.1	496.1	512.7	513.8	521.1	539.8	502.3	286.0	130.0	85.3	61.4
82.5°	321.4	449.3	483.6	458.7	460.7	416.0	192.4	126.9	82.2	59.3	44.7
85°	291.2	391.1	413.9	410.8	411.9	384.8	113.4	62.4	47.8	37.4	31.2
87.5°	141.4	138.3	146.6	165.4	161.2	209.1	95.7	31.2	20.8	15.6	15.6
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: P676192

CATALOG NUMBER: CCW-SA-2B-835-U-T1

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	886.1	886.1	886.1	886.1	886.1	886.1
2.5°	880.9	879.9	894.5	879.9	888.2	882.0
5°	891.3	895.5	898.6	904.9	890.3	904.9
7.5°	922.5	926.7	927.7	932.9	926.7	925.7
10°	946.5	956.9	963.1	942.3	954.8	953.7
12.5°	993.3	982.9	981.8	977.7	966.2	962.1
15°	1026.5	1010.9	1001.6	984.9	971.4	966.2
17.5°	1073.3	1043.2	1004.7	970.4	946.5	927.7
20°	1102.5	1048.4	971.4	930.9	894.5	902.8
22.5°	1121.2	1043.2	941.3	889.3	852.8	863.2
25°	1127.4	1017.2	920.5	856.0	820.6	813.3
27.5°	1109.7	987.0	879.9	807.1	775.9	782.1
30°	1101.4	943.3	842.4	770.7	729.1	735.3
32.5°	1079.6	898.6	792.5	719.7	689.6	679.2
35°	1048.4	861.2	744.7	676.0	639.6	631.3
37.5°	1009.9	814.4	703.1	619.9	587.6	581.4
40°	952.7	758.2	642.8	571.0	533.6	532.5
42.5°	902.8	704.1	586.6	512.7	475.3	477.4
45°	839.3	631.3	522.1	458.7	421.2	423.3
47.5°	758.2	563.7	460.7	390.0	358.8	356.7
50°	662.5	486.7	385.9	325.5	299.5	294.3
52.5°	571.0	408.7	316.2	262.1	240.3	238.2
55°	455.5	318.3	246.5	205.9	189.3	190.3
56°	413.9	293.3	224.7	188.3	175.8	175.8
57°	374.4	260.0	203.9	173.7	162.2	162.2
58°	330.7	228.8	185.1	157.0	151.8	147.7
59°	300.6	208.0	167.4	148.7	140.4	139.4
60°	265.2	187.2	156.0	139.4	133.1	132.1
61°	235.1	168.5	143.5	130.0	127.9	127.9
62°	210.1	156.0	133.1	125.8	124.8	121.7
63°	188.3	143.5	127.9	119.6	116.5	119.6
64°	168.5	132.1	123.8	117.5	113.4	115.4
65°	152.9	126.9	118.6	114.4	110.2	111.3
66°	142.5	118.6	114.4	109.2	107.1	108.2
67°	129.0	114.4	110.2	105.0	104.0	105.0
67.5°	124.8	111.3	108.2	103.0	101.9	103.0
68°	121.7	109.2	107.1	101.9	100.9	99.8
69°	113.4	105.0	101.9	99.8	97.8	96.7
70°	106.1	100.9	98.8	95.7	93.6	92.6
71°	101.9	95.7	94.6	91.5	89.4	88.4
72°	96.7	92.6	90.5	86.3	85.3	86.3
72.5°	95.7	90.5	89.4	85.3	84.2	84.2
73°	92.6	86.3	87.4	83.2	81.1	83.2
74°	86.3	84.2	82.2	79.0	78.0	78.0
75°	81.1	79.0	77.0	74.9	74.9	74.9



REPORT NUMBER: P676192  
CATALOG NUMBER: CCW-SA-2B-835-U-T1

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	135°	145°	155°	165°	175°	180°
77.5°	68.6	67.6	68.6	64.5	63.4	62.4
80°	55.1	55.1	56.2	53.0	51.0	49.9
82.5°	41.6	42.6	44.7	41.6	39.5	37.4
85°	27.0	28.1	28.1	25.0	29.1	27.0
87.5°	13.5	14.6	13.5	12.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)