

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: P676166

Luminaire Tested: **CCW-SA-1D-827-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676166
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

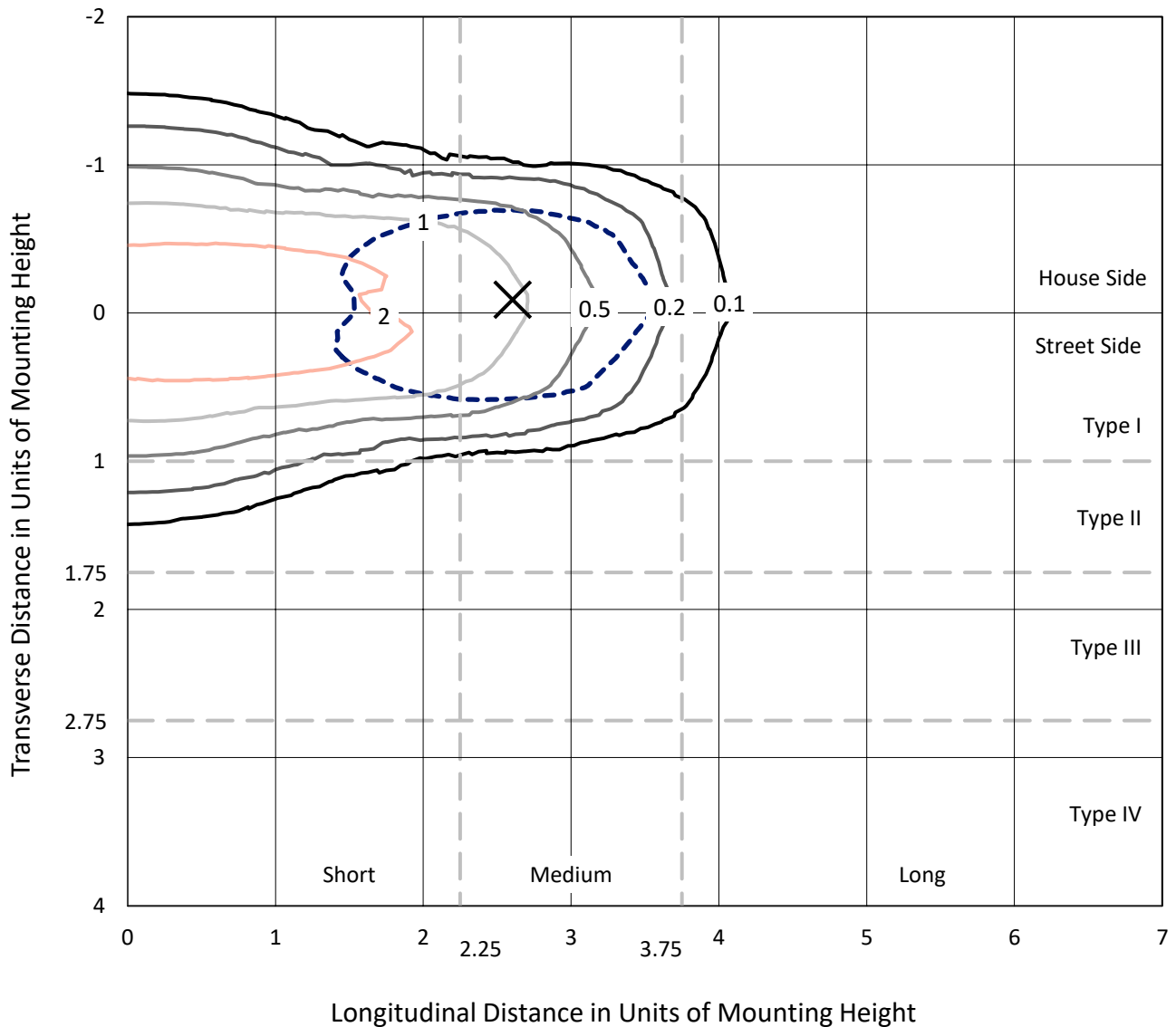
Lumens per Lamp: N/A
Luminaire Lumens: 3992.1 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 44
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: P676166
 CATALOG NUMBER: CCW-SA-1D-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

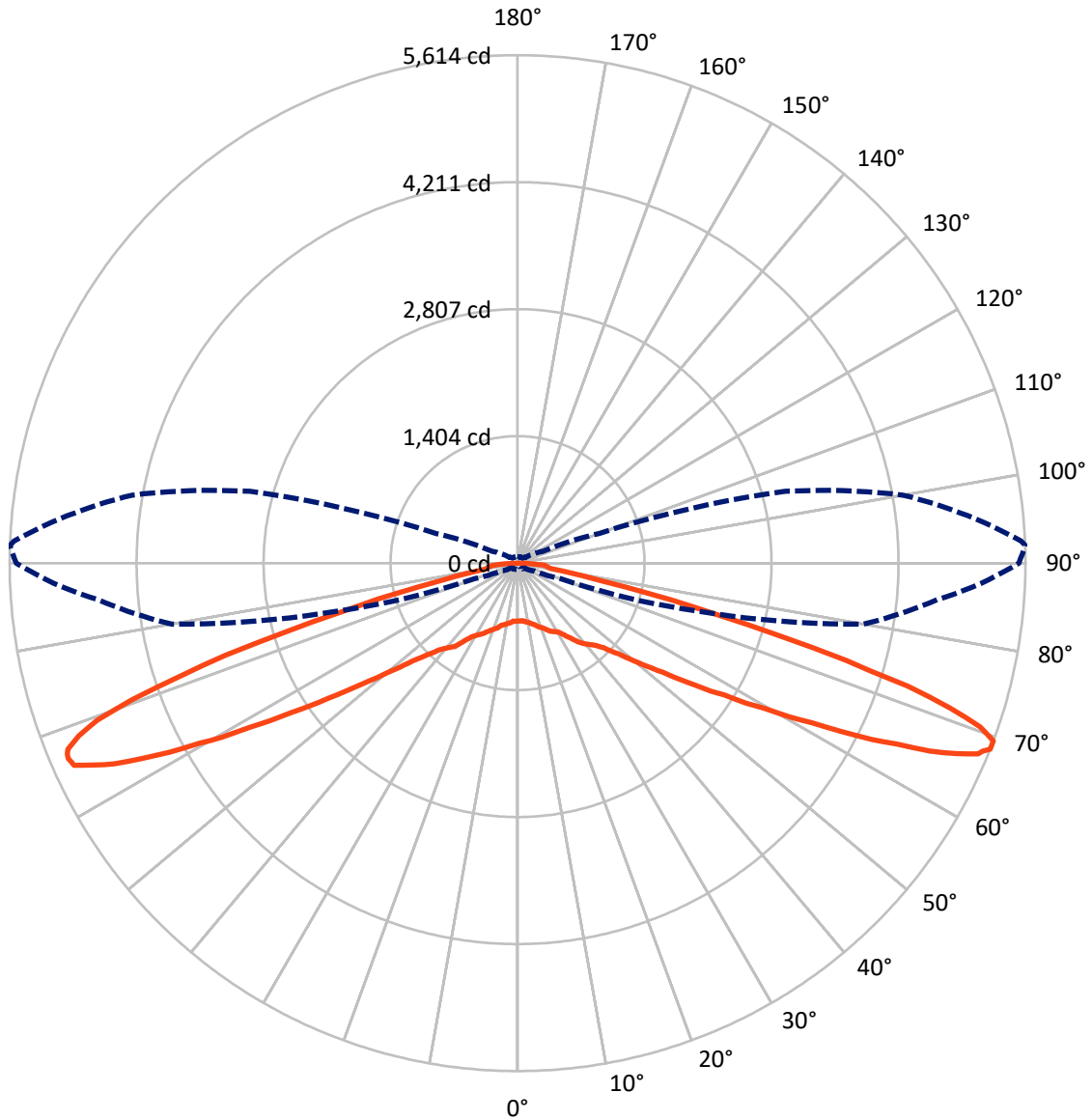
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type I - Short - N/A

REPORT NUMBER: P676166
CATALOG NUMBER: CCW-SA-1D-827-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676166
 CATALOG NUMBER: CCW-SA-1D-827-U-T1

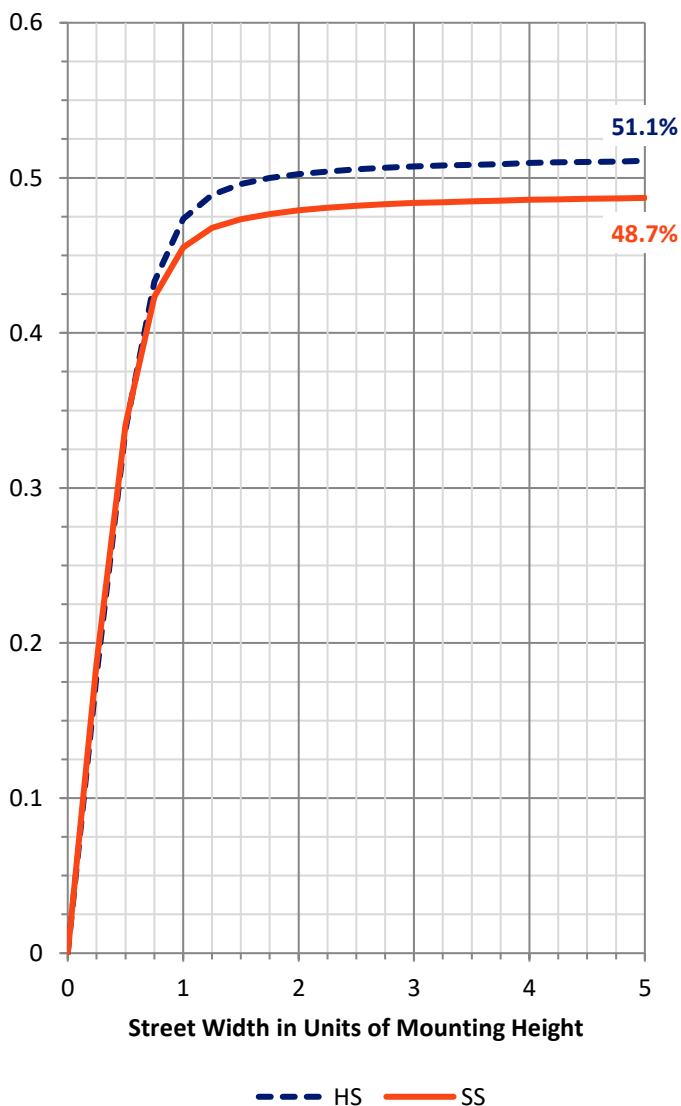
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2055.9	0.0	2055.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1936.2	0.0	1936.2
	% Fixture	48.5	0.0	48.5
Total	Lumens	3992.1	0.0	3992.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.6
10°-20°	207.1	5.2
20°-30°	353.4	8.9
30°-40°	493.5	12.4
40°-50°	627.7	15.7
50°-60°	793.7	19.9
60°-70°	978.8	24.5
70°-80°	427.6	10.7
80°-90°	46.4	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°	3992.1	100.0
0°-180°	3992.1	100.0

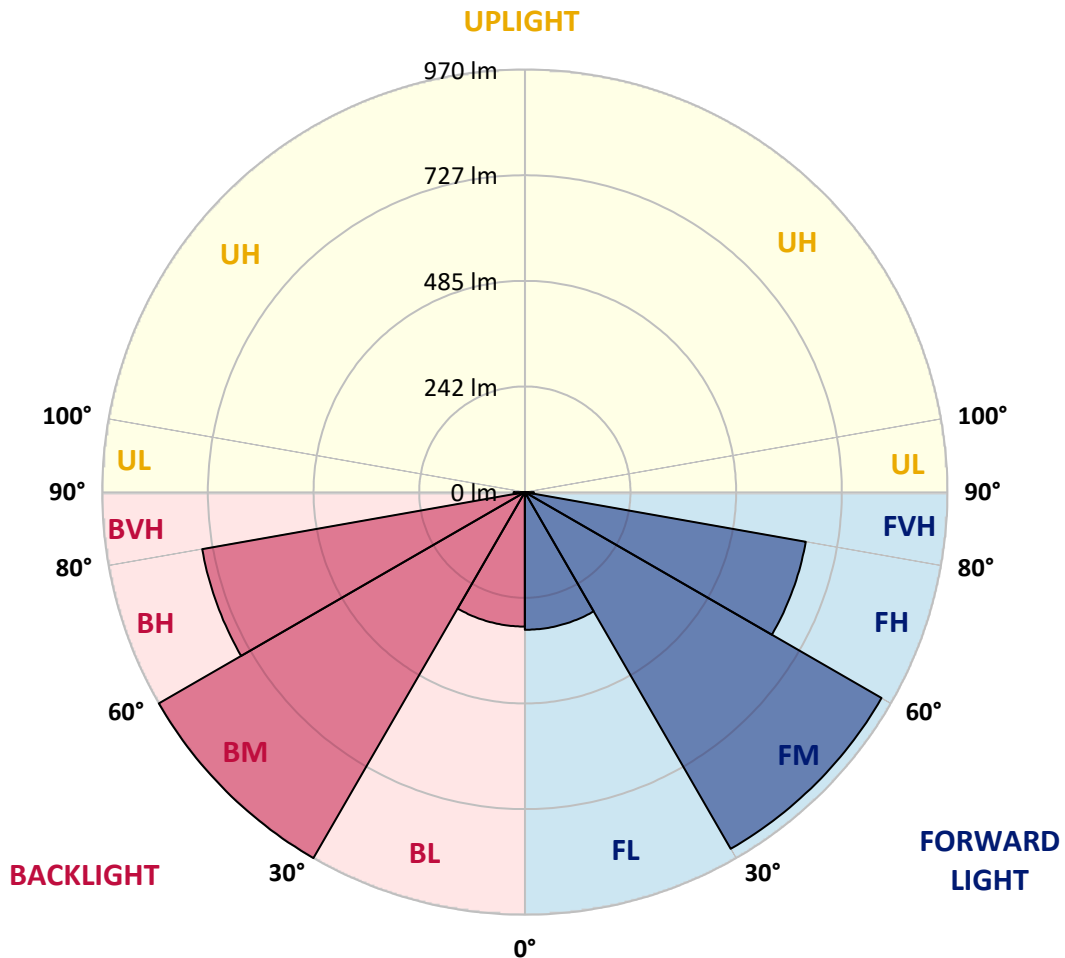


REPORT NUMBER: P676166
 CATALOG NUMBER: CCW-SA-1D-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.9	7.9			
FM (30°-60°)	945.1	23.7			
FH (60°-80°)	654.6	16.4			G0/660
FVH (80°-90°)	20.6	0.5			G1/100
BL (0°-30°)	308.5	7.7	B1/500		
BM (30°-60°)	969.8	24.3	B1/1000		
BH (60°-80°)	751.8	18.8	B2/1000		G2/1000
BVH (80°-90°)	25.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type I Short





REPORT NUMBER: P676166
 CATALOG NUMBER: CCW-SA-1D-827-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4
2.5°	651.9	651.1	653.4	654.8	648.1	650.4	648.9	647.4	642.1	639.9	635.4
5°	669.8	672.1	679.6	672.8	675.8	672.1	660.1	663.8	657.1	655.6	651.1
7.5°	701.3	696.8	707.3	699.8	702.1	694.6	689.3	682.6	681.1	670.6	671.3
10°	708.0	717.0	721.5	720.0	721.5	725.3	715.5	705.0	690.8	687.8	677.3
12.5°	703.6	711.8	723.8	733.5	740.3	741.8	738.0	735.8	729.8	712.5	711.8
15°	699.1	693.1	700.6	734.3	756.7	771.7	777.0	764.2	765.7	743.3	734.3
17.5°	669.1	660.1	689.3	722.3	750.0	783.0	808.4	804.7	804.7	786.7	774.0
20°	629.4	644.4	659.3	701.3	752.3	801.7	850.4	848.2	839.2	833.9	806.2
22.5°	595.7	602.4	630.1	674.3	738.0	806.9	864.6	905.9	884.9	863.9	847.4
25°	572.4	566.4	601.7	647.4	724.5	798.0	891.6	934.3	945.6	929.8	898.4
27.5°	539.5	539.5	567.2	610.6	681.1	793.5	917.8	983.0	999.5	976.3	930.6
30°	502.0	506.5	530.5	579.9	648.9	760.5	928.3	1039.2	1052.7	1032.5	985.3
32.5°	472.8	472.8	499.8	552.2	626.4	745.5	921.6	1094.7	1120.1	1105.2	1056.5
35°	441.3	439.1	458.5	516.2	590.4	716.3	919.3	1138.9	1195.8	1196.6	1145.6
37.5°	396.4	405.3	430.1	475.8	561.9	687.8	912.6	1192.1	1294.0	1311.2	1276.0
40°	366.4	370.1	392.6	442.8	517.7	654.1	902.9	1235.5	1359.1	1418.3	1369.6
42.5°	322.9	328.2	345.4	407.6	475.0	606.1	860.1	1266.2	1452.1	1519.5	1478.3
45°	277.2	280.2	305.7	356.6	429.3	549.2	814.4	1315.7	1542.0	1679.8	1655.9
47.5°	222.5	224.0	245.8	299.0	374.6	492.3	744.0	1313.4	1614.6	1840.2	1907.6
50°	173.8	177.6	194.1	237.5	308.7	422.6	662.3	1295.5	1706.1	2023.0	2155.6
52.5°	138.6	139.4	149.9	184.3	238.3	352.9	574.7	1238.5	1792.2	2202.1	2459.8
55°	114.6	114.6	120.6	141.6	182.8	268.2	472.0	1144.1	1802.7	2399.9	2791.7
56°	110.1	108.6	113.9	131.9	164.8	242.0	424.1	1080.4	1817.7	2491.3	2958.1
57°	104.1	104.9	107.9	120.6	148.4	214.3	370.9	1018.2	1807.2	2566.2	3080.9
58°	101.1	99.7	105.6	113.9	131.1	190.3	334.2	944.8	1790.7	2627.6	3260.0
59°	96.7	95.9	99.7	107.1	122.1	169.3	289.2	865.4	1758.5	2707.1	3393.4
60°	95.2	94.4	95.9	101.9	112.4	148.4	254.7	772.5	1672.3	2788.7	3559.0
61°	90.7	91.4	94.4	98.2	106.4	133.4	229.3	677.3	1616.1	2857.7	3741.8
62°	91.4	89.9	91.4	94.4	100.4	122.9	200.8	583.7	1515.7	2935.6	3878.9
63°	86.9	86.2	88.4	92.2	95.2	110.9	175.3	504.2	1401.9	2953.6	3995.0
64°	85.4	84.7	85.4	90.7	91.4	104.1	155.1	430.8	1237.0	2984.3	4144.1
65°	81.7	81.7	83.2	85.4	88.4	98.2	138.6	373.9	1072.9	2903.4	4189.8
66°	78.7	79.4	79.4	83.2	85.4	91.4	127.4	317.7	915.6	2774.5	4234.0
67°	76.4	76.4	77.2	80.2	82.4	86.2	114.6	275.0	772.5	2620.9	4165.9
67.5°	74.9	75.7	75.7	78.7	80.9	86.2	109.4	260.7	690.8	2452.3	4114.9
68°	72.7	73.4	73.4	76.4	78.7	83.2	105.6	238.3	636.9	2342.9	4020.5
69°	71.2	70.4	70.4	73.4	76.4	79.4	98.2	208.3	506.5	2037.2	3882.6
70°	66.7	66.7	68.2	70.4	72.7	75.7	90.7	183.6	428.6	1686.6	3527.5
71°	64.4	63.7	64.4	66.7	68.9	72.7	83.2	162.6	350.7	1400.4	3178.3
72°	59.9	61.4	61.4	63.7	65.9	68.2	77.9	141.6	294.5	1119.4	2794.0
72.5°	59.2	59.2	59.9	62.2	63.7	67.4	74.9	135.6	269.0	986.8	2632.9
73°	56.9	56.9	57.7	59.9	61.4	65.2	72.7	122.1	245.0	878.1	2331.7
74°	54.7	53.9	53.9	56.9	57.7	61.4	68.2	107.9	205.3	661.6	1871.6
75°	50.9	50.9	51.7	53.2	53.9	56.9	62.9	95.9	173.1	513.2	1464.0



REPORT NUMBER: P676166
 CATALOG NUMBER: CCW-SA-1D-827-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	42.0	42.7	43.5	45.0	45.0	47.2	51.7	66.7	105.6	260.0	672.1
80°	30.7	32.2	34.5	36.7	36.0	36.0	40.5	48.0	62.9	116.9	257.7
82.5°	24.7	26.2	24.0	27.0	27.0	25.5	29.2	35.2	42.7	57.7	92.2
85°	16.5	17.2	14.2	16.5	15.7	15.7	19.5	21.0	26.2	32.2	45.7
87.5°	7.5	7.5	6.0	6.7	6.7	6.7	9.7	7.5	11.2	15.7	27.0
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: P676166

CATALOG NUMBER: CCW-SA-1D-827-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4	638.4
2.5°	639.9	642.9	642.9	639.9	637.6	639.9	638.4	634.6	638.4	639.9	640.6
5°	648.9	642.9	645.9	639.1	643.6	642.9	641.4	645.1	645.9	645.9	651.1
7.5°	658.6	666.1	656.3	657.1	659.3	650.4	653.4	654.8	651.9	657.8	662.3
10°	675.8	678.8	675.8	664.6	672.1	666.1	663.8	670.6	669.1	670.6	677.3
12.5°	691.6	696.8	688.6	687.8	684.1	678.8	681.8	681.1	691.6	693.1	701.3
15°	723.8	710.3	707.3	706.5	705.0	702.8	704.3	705.0	718.5	720.8	740.3
17.5°	751.5	749.3	732.8	738.8	738.8	729.8	726.0	738.8	749.3	760.5	774.0
20°	780.0	777.7	759.7	760.5	753.8	762.0	757.5	769.5	787.5	791.2	803.2
22.5°	813.7	804.0	791.2	792.7	795.0	789.0	786.0	802.5	820.4	830.9	831.7
25°	866.9	842.2	831.7	833.2	830.2	825.7	827.9	848.9	857.9	880.4	875.9
27.5°	895.4	881.1	873.6	856.4	857.1	850.4	859.4	890.9	908.8	926.1	891.6
30°	929.8	920.8	887.9	881.9	881.1	878.1	894.6	935.1	962.0	971.8	922.3
32.5°	997.3	961.3	953.1	947.8	935.8	939.6	947.8	1001.0	1043.7	1041.5	950.8
35°	1074.4	1049.7	1026.5	1022.0	1020.5	1010.0	1024.2	1086.4	1119.4	1109.6	961.3
37.5°	1198.1	1160.6	1129.1	1111.9	1108.9	1101.4	1135.1	1184.6	1227.3	1189.1	969.5
40°	1258.7	1216.8	1187.6	1177.1	1179.3	1189.8	1222.8	1298.5	1317.2	1246.8	976.3
42.5°	1345.7	1300.0	1242.3	1237.0	1230.3	1235.5	1299.2	1401.1	1416.8	1324.7	950.8
45°	1500.0	1431.1	1364.4	1334.4	1335.9	1350.2	1449.1	1560.7	1531.5	1378.6	910.3
47.5°	1694.8	1593.7	1539.7	1499.3	1518.7	1503.0	1660.4	1749.5	1649.9	1446.8	860.9
50°	1987.8	1846.2	1772.7	1724.0	1732.3	1745.8	1905.4	1981.0	1781.0	1479.8	785.2
52.5°	2357.2	2175.1	2067.2	2002.0	2008.0	2037.2	2243.3	2220.0	1930.8	1507.5	684.1
55°	2799.2	2611.9	2402.9	2375.9	2369.1	2438.8	2665.9	2470.3	2065.7	1463.3	579.2
56°	3033.0	2833.7	2616.4	2561.0	2544.5	2593.2	2859.9	2595.4	2112.2	1413.8	529.0
57°	3231.5	3041.2	2803.0	2708.6	2729.5	2820.9	3052.5	2713.1	2154.9	1362.9	481.8
58°	3504.3	3287.0	3035.2	2963.3	2944.6	3017.3	3260.0	2831.4	2169.1	1310.4	438.3
59°	3776.2	3515.5	3288.5	3157.4	3162.6	3295.2	3464.6	2972.3	2190.8	1243.8	382.9
60°	3983.0	3851.9	3548.5	3450.3	3436.8	3628.6	3668.4	3066.7	2214.1	1153.9	343.9
61°	4276.0	4105.2	3822.7	3696.1	3732.8	3886.4	3888.6	3185.1	2179.6	1040.0	296.0
62°	4486.5	4441.6	4144.9	4024.3	4013.0	4216.8	4117.9	3289.2	2149.6	932.1	261.5
63°	4733.0	4733.0	4462.6	4368.2	4373.4	4534.5	4217.6	3393.4	2115.1	812.9	230.0
64°	4861.2	5022.3	4772.8	4640.1	4674.6	4814.0	4395.1	3461.6	2008.8	692.3	202.3
65°	4972.1	5214.1	5075.5	5014.0	4961.6	5044.0	4548.7	3525.2	1846.2	588.9	179.8
66°	5065.7	5394.6	5348.9	5283.0	5277.8	5259.0	4578.7	3523.0	1678.3	497.5	157.3
67°	5018.5	5398.4	5481.6	5509.3	5501.0	5303.2	4526.3	3442.8	1463.3	420.3	140.1
67.5°	4975.8	5367.7	5561.0	5545.2	5579.7	5340.7	4535.2	3344.7	1310.4	380.6	131.9
68°	4938.3	5326.5	5593.2	5613.4	5596.2	5345.2	4485.8	3266.8	1206.3	357.4	124.4
69°	4654.4	5130.9	5541.5	5614.2	5570.0	5173.6	4328.5	3063.7	958.3	304.9	114.6
70°	4369.7	4877.7	5290.5	5423.9	5369.2	4841.7	4129.9	2740.8	790.5	260.7	103.4
71°	3975.6	4407.1	4956.3	5036.5	4970.6	4464.1	3719.3	2399.9	615.1	221.0	92.2
72°	3440.6	3807.0	4331.4	4525.5	4428.1	3920.9	3304.2	1983.3	498.3	185.8	83.9
72.5°	3175.3	3550.7	4056.5	4072.2	4090.9	3684.8	3128.1	1742.0	434.6	172.3	81.7
73°	2923.6	3291.5	3729.0	3784.5	3705.1	3287.0	2865.2	1557.7	397.1	157.3	78.7
74°	2369.1	2578.9	2941.6	2995.5	2925.8	2680.1	2341.4	1194.3	316.2	135.6	71.9
75°	1864.1	1979.5	2307.7	2274.7	2170.6	2084.4	1815.4	912.6	256.2	119.1	66.7



REPORT NUMBER: P676166
 CATALOG NUMBER: CCW-SA-1D-827-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	837.7	907.3	962.0	962.0	968.0	923.8	836.9	418.8	158.1	86.2	54.7
80°	319.2	357.4	369.4	370.1	375.4	388.9	361.9	206.0	93.7	61.4	44.2
82.5°	231.5	323.7	348.4	330.4	331.9	299.7	138.6	91.4	59.2	42.7	32.2
85°	209.8	281.7	298.2	296.0	296.7	277.2	81.7	45.0	34.5	27.0	22.5
87.5°	101.9	99.7	105.6	119.1	116.1	150.6	68.9	22.5	15.0	11.2	11.2
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: P676166

CATALOG NUMBER: CCW-SA-1D-827-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	638.4	638.4	638.4	638.4	638.4	638.4
2.5°	634.6	633.9	644.4	633.9	639.9	635.4
5°	642.1	645.1	647.4	651.9	641.4	651.9
7.5°	664.6	667.6	668.3	672.1	667.6	666.8
10°	681.8	689.3	693.8	678.8	687.8	687.1
12.5°	715.5	708.0	707.3	704.3	696.1	693.1
15°	739.5	728.3	721.5	709.5	699.8	696.1
17.5°	773.2	751.5	723.8	699.1	681.8	668.3
20°	794.2	755.2	699.8	670.6	644.4	650.4
22.5°	807.7	751.5	678.1	640.6	614.4	621.9
25°	812.2	732.8	663.1	616.6	591.2	585.9
27.5°	799.5	711.0	633.9	581.4	558.9	563.4
30°	793.5	679.6	606.9	555.2	525.2	529.7
32.5°	777.7	647.4	570.9	518.5	496.8	489.3
35°	755.2	620.4	536.5	487.0	460.8	454.8
37.5°	727.5	586.7	506.5	446.6	423.3	418.8
40°	686.3	546.2	463.0	411.3	384.4	383.6
42.5°	650.4	507.2	422.6	369.4	342.4	343.9
45°	604.6	454.8	376.1	330.4	303.4	304.9
47.5°	546.2	406.1	331.9	281.0	258.5	257.0
50°	477.3	350.7	278.0	234.5	215.8	212.0
52.5°	411.3	294.5	227.8	188.8	173.1	171.6
55°	328.2	229.3	177.6	148.4	136.4	137.1
56°	298.2	211.3	161.8	135.6	126.6	126.6
57°	269.7	187.3	146.9	125.1	116.9	116.9
58°	238.3	164.8	133.4	113.1	109.4	106.4
59°	216.5	149.9	120.6	107.1	101.1	100.4
60°	191.1	134.9	112.4	100.4	95.9	95.2
61°	169.3	121.4	103.4	93.7	92.2	92.2
62°	151.3	112.4	95.9	90.7	89.9	87.7
63°	135.6	103.4	92.2	86.2	83.9	86.2
64°	121.4	95.2	89.2	84.7	81.7	83.2
65°	110.1	91.4	85.4	82.4	79.4	80.2
66°	102.6	85.4	82.4	78.7	77.2	77.9
67°	92.9	82.4	79.4	75.7	74.9	75.7
67.5°	89.9	80.2	77.9	74.2	73.4	74.2
68°	87.7	78.7	77.2	73.4	72.7	71.9
69°	81.7	75.7	73.4	71.9	70.4	69.7
70°	76.4	72.7	71.2	68.9	67.4	66.7
71°	73.4	68.9	68.2	65.9	64.4	63.7
72°	69.7	66.7	65.2	62.2	61.4	62.2
72.5°	68.9	65.2	64.4	61.4	60.7	60.7
73°	66.7	62.2	62.9	59.9	58.4	59.9
74°	62.2	60.7	59.2	56.9	56.2	56.2
75°	58.4	56.9	55.4	53.9	53.9	53.9



REPORT NUMBER: P676166
CATALOG NUMBER: CCW-SA-1D-827-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	49.5	48.7	49.5	46.5	45.7	45.0
80°	39.7	39.7	40.5	38.2	36.7	36.0
82.5°	30.0	30.7	32.2	30.0	28.5	27.0
85°	19.5	20.2	20.2	18.0	21.0	19.5
87.5°	9.7	10.5	9.7	9.0	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)