

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: P676100

Luminaire Tested: **CCW-SA-1D-727-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676100
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-727-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T1 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

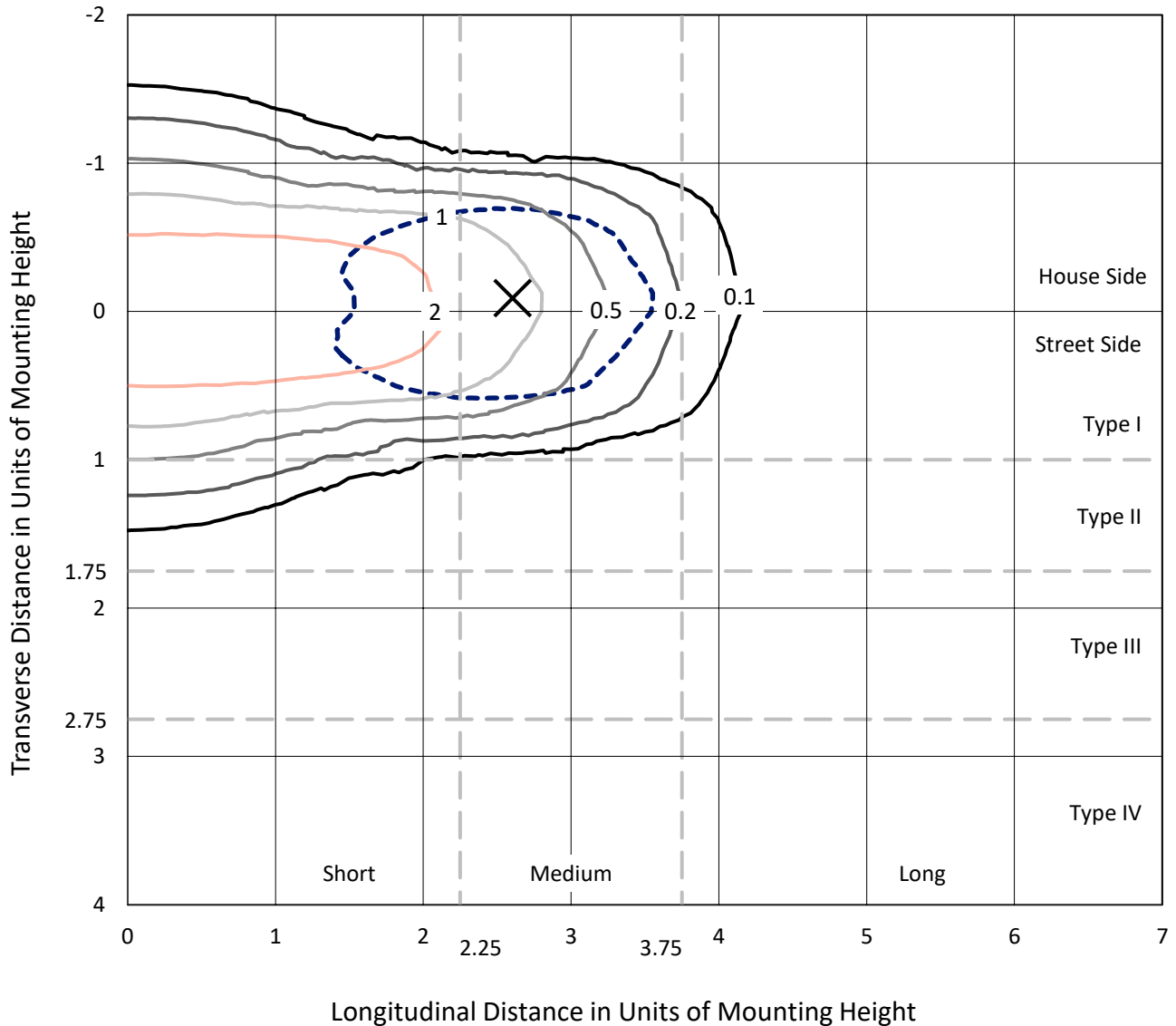
Lumens per Lamp: N/A
Luminaire Lumens: 4541.7 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 44
Input Voltage (V): 120
Input Current (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

REPORT NUMBER: P676100
 CATALOG NUMBER: CCW-SA-1D-727-U-T1

Iso-Footcandle Lines of Horizontal Illumination

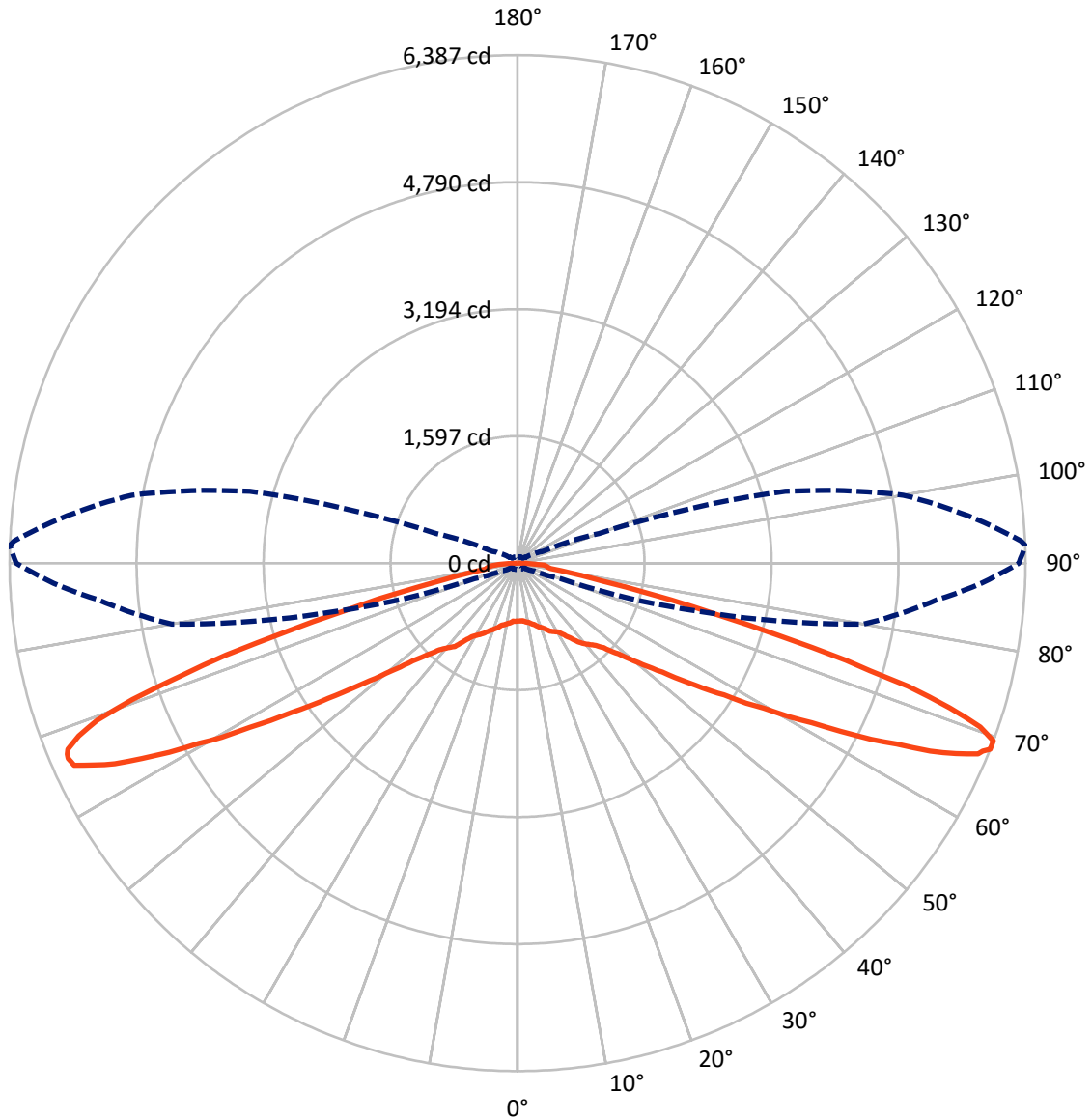
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type I - Short - N/A

REPORT NUMBER: P676100
CATALOG NUMBER: CCW-SA-1D-727-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676100
 CATALOG NUMBER: CCW-SA-1D-727-U-T1

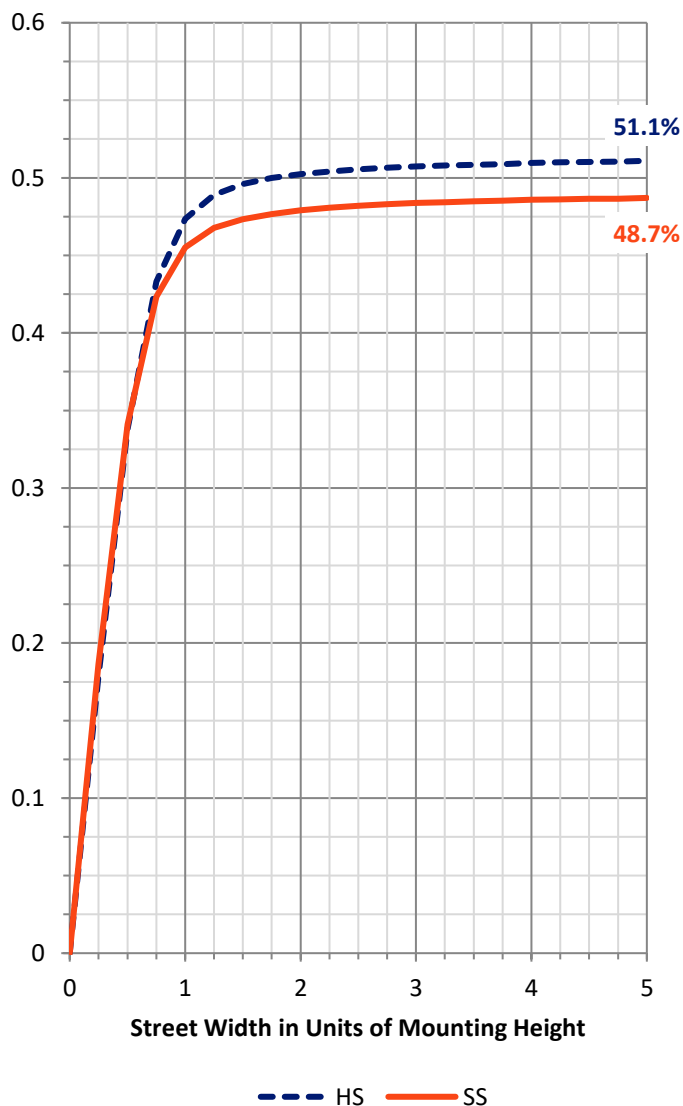
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2338.9	0.0	2338.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2202.8	0.0	2202.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	4541.7	0.0	4541.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	1.6
10°-20°	235.6	5.2
20°-30°	402.1	8.9
30°-40°	561.4	12.4
40°-50°	714.1	15.7
50°-60°	902.9	19.9
60°-70°	1113.6	24.5
70°-80°	486.4	10.7
80°-90°	52.8	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°	4541.7	100.0
0°-180°	4541.7	100.0



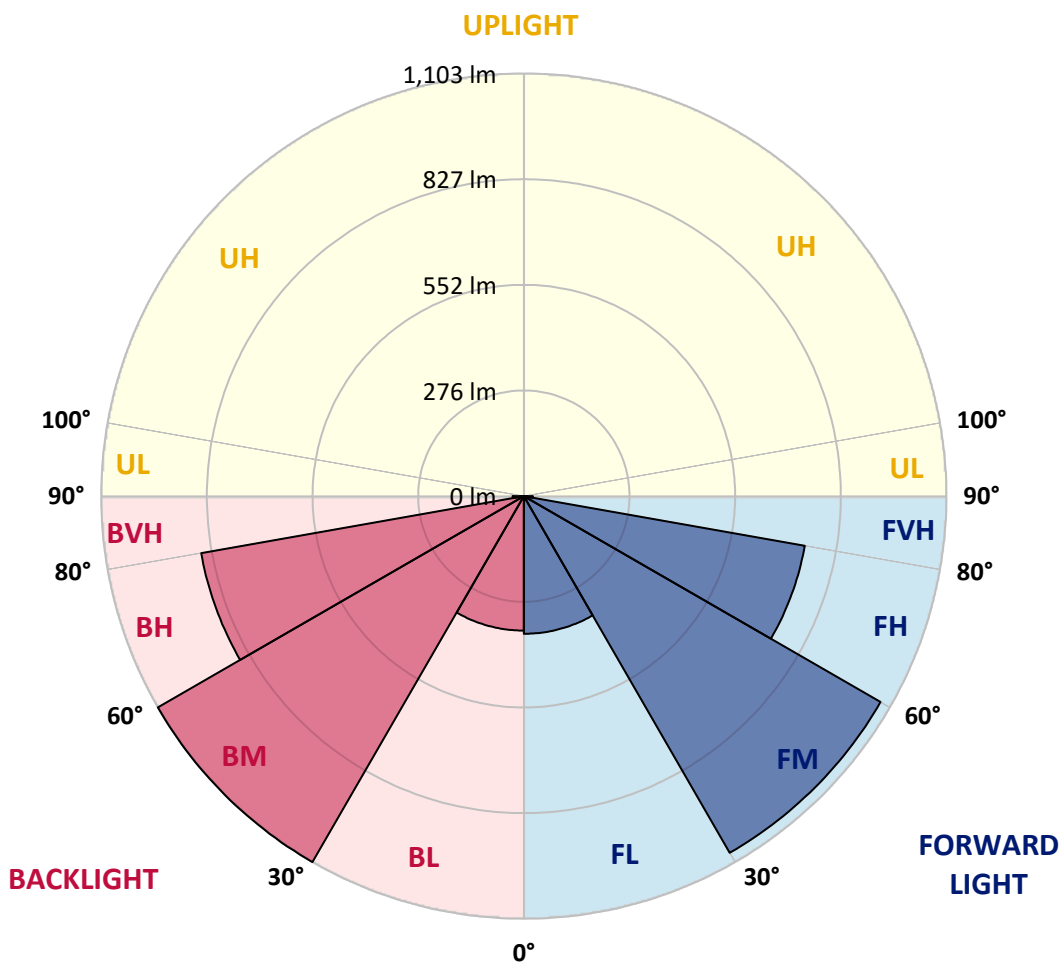
REPORT NUMBER: P676100
 CATALOG NUMBER: CCW-SA-1D-727-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.4	7.9			
FM (30°-60°)	1075.2	23.7			
FH (60°-80°)	744.7	16.4			G1/1800
FVH (80°-90°)	23.4	0.5			G1/100
BL (0°-30°)	351.0	7.7	B1/500		
BM (30°-60°)	1103.3	24.3	B2/2500		
BH (60°-80°)	855.3	18.8	B2/1000		G2/1000
BVH (80°-90°)	29.4	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: P676100

CATALOG NUMBER: CCW-SA-1D-727-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2
2.5°	741.6	740.7	743.3	745.0	737.3	739.9	738.2	736.5	730.5	728.0	722.8
5°	762.0	764.6	773.1	765.5	768.9	764.6	751.0	755.2	747.6	745.9	740.7
7.5°	797.9	792.7	804.7	796.1	798.7	790.2	784.2	776.5	774.8	762.9	763.8
10°	805.5	815.8	820.9	819.2	820.9	825.1	814.0	802.1	785.9	782.5	770.6
12.5°	800.4	809.8	823.4	834.5	842.2	843.9	839.6	837.1	830.2	810.6	809.8
15°	795.3	788.5	797.0	835.4	860.9	878.0	883.9	869.5	871.2	845.6	835.4
17.5°	761.2	751.0	784.2	821.7	853.3	890.8	919.7	915.5	915.5	895.0	880.5
20°	716.0	733.1	750.1	797.9	855.8	912.1	967.5	964.9	954.7	948.7	917.2
22.5°	677.7	685.3	716.9	767.2	839.6	918.0	983.7	1030.6	1006.7	982.8	964.1
25°	651.2	644.4	684.5	736.5	824.3	907.8	1014.4	1062.9	1075.7	1057.8	1022.0
27.5°	613.7	613.7	645.3	694.7	774.8	902.7	1044.2	1118.4	1137.1	1110.7	1058.7
30°	571.1	576.2	603.5	659.8	738.2	865.2	1056.1	1182.3	1197.6	1174.6	1120.9
32.5°	537.9	537.9	568.6	628.2	712.6	848.1	1048.5	1245.4	1274.3	1257.3	1201.9
35°	502.1	499.5	521.7	587.3	671.7	814.9	1045.9	1295.7	1360.4	1361.3	1303.3
37.5°	450.9	461.2	489.3	541.3	639.3	782.5	1038.2	1356.2	1472.1	1491.7	1451.6
40°	416.8	421.1	446.7	503.8	589.0	744.1	1027.1	1405.6	1546.3	1613.6	1558.2
42.5°	367.4	373.4	393.0	463.7	540.4	689.6	978.6	1440.6	1652.0	1728.7	1681.8
45°	315.4	318.8	347.8	405.7	488.4	624.8	926.6	1496.8	1754.2	1911.1	1883.8
47.5°	253.2	254.9	279.6	340.1	426.2	560.0	846.4	1494.3	1836.9	2093.5	2170.2
50°	197.8	202.0	220.8	270.2	351.2	480.8	753.5	1473.8	1940.9	2301.5	2452.4
52.5°	157.7	158.5	170.5	209.7	271.1	401.5	653.8	1409.0	2039.0	2505.2	2798.4
55°	130.4	130.4	137.2	161.1	208.0	305.2	537.0	1301.6	2050.9	2730.3	3176.1
56°	125.3	123.6	129.6	150.0	187.5	275.3	482.5	1229.2	2067.9	2834.2	3365.3
57°	118.5	119.3	122.7	137.2	168.8	243.8	421.9	1158.4	2056.0	2919.5	3505.1
58°	115.1	113.4	120.2	129.6	149.2	216.5	380.2	1074.9	2037.2	2989.4	3708.8
59°	110.0	109.1	113.4	121.9	138.9	192.6	329.0	984.5	2000.6	3079.7	3860.5
60°	108.3	107.4	109.1	115.9	127.9	168.8	289.8	878.8	1902.6	3172.6	4048.9
61°	103.1	104.0	107.4	111.7	121.0	151.7	260.8	770.6	1838.6	3251.1	4256.9
62°	104.0	102.3	104.0	107.4	114.2	139.8	228.4	664.0	1724.4	3339.7	4412.9
63°	98.9	98.0	100.6	104.8	108.3	126.2	199.5	573.7	1594.8	3360.2	4545.0
64°	97.2	96.3	97.2	103.1	104.0	118.5	176.4	490.1	1407.3	3395.1	4714.6
65°	92.9	92.9	94.6	97.2	100.6	111.7	157.7	425.3	1220.6	3303.1	4766.6
66°	89.5	90.4	90.4	94.6	97.2	104.0	144.9	361.4	1041.6	3156.5	4816.9
67°	86.9	86.9	87.8	91.2	93.8	98.0	130.4	312.8	878.8	2981.7	4739.4
67.5°	85.2	86.1	86.1	89.5	92.1	98.0	124.5	296.6	785.9	2789.9	4681.4
68°	82.7	83.5	83.5	86.9	89.5	94.6	120.2	271.1	724.5	2665.5	4574.0
69°	81.0	80.1	80.1	83.5	86.9	90.4	111.7	237.0	576.2	2317.7	4417.2
70°	75.9	75.9	77.6	80.1	82.7	86.1	103.1	208.8	487.6	1918.8	4013.1
71°	73.3	72.5	73.3	75.9	78.4	82.7	94.6	185.0	398.9	1593.1	3615.9
72°	68.2	69.9	69.9	72.5	75.0	77.6	88.7	161.1	335.0	1273.5	3178.6
72.5°	67.3	67.3	68.2	70.7	72.5	76.7	85.2	154.3	306.0	1122.6	2995.3
73°	64.8	64.8	65.6	68.2	69.9	74.2	82.7	138.9	278.7	999.0	2652.7
74°	62.2	61.4	61.4	64.8	65.6	69.9	77.6	122.7	233.6	752.7	2129.3
75°	58.0	58.0	58.8	60.5	61.4	64.8	71.6	109.1	196.9	583.9	1665.6



REPORT NUMBER: P676100
 CATALOG NUMBER: CCW-SA-1D-727-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	47.7	48.6	49.4	51.1	51.1	53.7	58.8	75.9	120.2	295.8	764.6
80°	34.9	36.7	39.2	41.8	40.9	40.9	46.0	54.6	71.6	133.0	293.2
82.5°	28.1	29.8	27.3	30.7	30.7	29.0	33.2	40.1	48.6	65.6	104.8
85°	18.8	19.6	16.2	18.8	17.9	17.9	22.2	23.9	29.8	36.7	52.0
87.5°	8.5	8.5	6.8	7.7	7.7	7.7	11.1	8.5	12.8	17.9	30.7
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: P676100

CATALOG NUMBER: CCW-SA-1D-727-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2	726.2
2.5°	728.0	731.4	731.4	728.0	725.4	728.0	726.2	722.0	726.2	728.0	728.8
5°	738.2	731.4	734.8	727.1	732.2	731.4	729.7	733.9	734.8	734.8	740.7
7.5°	749.3	757.8	746.7	747.6	750.1	739.9	743.3	745.0	741.6	748.4	753.5
10°	768.9	772.3	768.9	756.1	764.6	757.8	755.2	762.9	761.2	762.9	770.6
12.5°	786.8	792.7	783.4	782.5	778.2	772.3	775.7	774.8	786.8	788.5	797.9
15°	823.4	808.1	804.7	803.8	802.1	799.6	801.3	802.1	817.5	820.0	842.2
17.5°	855.0	852.4	833.7	840.5	840.5	830.2	826.0	840.5	852.4	865.2	880.5
20°	887.4	884.8	864.3	865.2	857.5	866.9	861.8	875.4	895.9	900.1	913.8
22.5°	925.7	914.6	900.1	901.8	904.4	897.6	894.2	912.9	933.4	945.3	946.2
25°	986.2	958.1	946.2	947.9	944.5	939.3	941.9	965.8	976.0	1001.6	996.5
27.5°	1018.6	1002.4	993.9	974.3	975.2	967.5	977.7	1013.5	1034.0	1053.6	1014.4
30°	1057.8	1047.6	1010.1	1003.3	1002.4	999.0	1017.8	1063.8	1094.5	1105.6	1049.3
32.5°	1134.6	1093.6	1084.3	1078.3	1064.7	1068.9	1078.3	1138.8	1187.4	1184.8	1081.7
35°	1222.3	1194.2	1167.8	1162.7	1161.0	1149.0	1165.2	1236.0	1273.5	1262.4	1093.6
37.5°	1363.0	1320.4	1284.6	1265.0	1261.6	1253.0	1291.4	1347.7	1396.2	1352.8	1103.0
40°	1432.0	1384.3	1351.1	1339.1	1341.7	1353.6	1391.1	1477.2	1498.5	1418.4	1110.7
42.5°	1530.9	1478.9	1413.3	1407.3	1399.6	1405.6	1478.1	1594.0	1611.9	1507.1	1081.7
45°	1706.5	1628.1	1552.2	1518.1	1519.8	1536.0	1648.6	1775.6	1742.3	1568.4	1035.7
47.5°	1928.1	1813.1	1751.7	1705.7	1727.8	1709.9	1888.9	1990.4	1877.0	1646.0	979.4
50°	2261.4	2100.3	2016.8	1961.4	1970.8	1986.1	2167.7	2253.8	2026.2	1683.5	893.3
52.5°	2681.7	2474.5	2351.8	2277.6	2284.4	2317.7	2552.1	2525.7	2196.6	1715.0	778.2
55°	3184.6	2971.5	2733.7	2703.0	2695.3	2774.6	3032.9	2810.4	2350.1	1664.7	658.9
56°	3450.5	3223.8	2976.6	2913.5	2894.8	2950.2	3253.6	2952.7	2402.9	1608.5	601.8
57°	3676.4	3459.9	3188.8	3081.4	3105.3	3209.3	3472.7	3086.6	2451.5	1550.5	548.1
58°	3986.7	3739.5	3453.1	3371.3	3349.9	3432.6	3708.8	3221.2	2467.7	1490.9	498.7
59°	4296.1	3999.5	3741.2	3592.0	3598.0	3748.9	3941.5	3381.5	2492.4	1415.0	435.6
60°	4531.4	4382.2	4037.0	3925.3	3910.0	4128.2	4173.4	3488.9	2518.9	1312.7	391.3
61°	4864.7	4670.3	4349.0	4204.9	4246.7	4421.4	4424.0	3623.6	2479.6	1183.1	336.7
62°	5104.2	5053.1	4715.5	4578.3	4565.5	4797.3	4684.8	3742.1	2445.5	1060.4	297.5
63°	5384.6	5384.6	5076.9	4969.5	4975.5	5158.8	4798.2	3860.5	2406.3	924.9	261.7
64°	5530.4	5713.7	5429.8	5278.9	5318.2	5476.7	5000.2	3938.1	2285.3	787.6	230.1
65°	5656.6	5931.9	5774.2	5704.3	5644.6	5738.4	5174.9	4010.6	2100.3	670.0	204.6
66°	5763.1	6137.3	6085.3	6010.3	6004.3	5983.0	5209.0	4008.0	1909.4	566.0	179.0
67°	5709.4	6141.6	6236.2	6267.7	6258.4	6033.3	5149.4	3916.8	1664.7	478.2	159.4
67.5°	5660.8	6106.6	6326.5	6308.6	6347.9	6075.9	5159.6	3805.1	1490.9	433.0	150.0
68°	5618.2	6059.7	6363.2	6386.2	6366.6	6081.1	5103.3	3716.5	1372.4	406.6	141.5
69°	5295.1	5837.3	6304.4	6387.1	6336.8	5885.9	4924.3	3485.5	1090.2	346.9	130.4
70°	4971.2	5549.2	6018.8	6170.6	6108.3	5508.2	4698.5	3118.1	899.3	296.6	117.6
71°	4522.9	5013.8	5638.7	5729.9	5654.9	5078.6	4231.3	2730.3	699.8	251.5	104.8
72°	3914.2	4331.1	4927.8	5148.5	5037.7	4460.6	3759.1	2256.3	566.8	211.4	95.5
72.5°	3612.5	4039.5	4614.9	4632.8	4654.1	4192.1	3558.8	1981.8	494.4	196.1	92.9
73°	3326.1	3744.6	4242.4	4305.5	4215.1	3739.5	3259.6	1772.1	451.8	179.0	89.5
74°	2695.3	2934.0	3346.5	3407.9	3328.6	3049.1	2663.8	1358.7	359.7	154.3	81.8
75°	2120.8	2252.1	2625.4	2587.9	2469.4	2371.4	2065.4	1038.2	291.5	135.5	75.9



REPORT NUMBER: P676100
 CATALOG NUMBER: CCW-SA-1D-727-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	953.0	1032.3	1094.5	1094.5	1101.3	1051.0	952.1	476.5	179.9	98.0	62.2
80°	363.1	406.6	420.2	421.1	427.1	442.4	411.7	234.4	106.6	69.9	50.3
82.5°	263.4	368.2	396.4	375.9	377.6	341.0	157.7	104.0	67.3	48.6	36.7
85°	238.7	320.5	339.3	336.7	337.6	315.4	92.9	51.1	39.2	30.7	25.6
87.5°	115.9	113.4	120.2	135.5	132.1	171.3	78.4	25.6	17.0	12.8	12.8
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: P676100

CATALOG NUMBER: CCW-SA-1D-727-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	726.2	726.2	726.2	726.2	726.2	726.2
2.5°	722.0	721.1	733.1	721.1	728.0	722.8
5°	730.5	733.9	736.5	741.6	729.7	741.6
7.5°	756.1	759.5	760.3	764.6	759.5	758.6
10°	775.7	784.2	789.3	772.3	782.5	781.7
12.5°	814.0	805.5	804.7	801.3	791.9	788.5
15°	841.3	828.5	820.9	807.2	796.1	791.9
17.5°	879.7	855.0	823.4	795.3	775.7	760.3
20°	903.5	859.2	796.1	762.9	733.1	739.9
22.5°	918.9	855.0	771.4	728.8	699.0	707.5
25°	924.0	833.7	754.4	701.5	672.5	666.6
27.5°	909.5	808.9	721.1	661.5	635.9	641.0
30°	902.7	773.1	690.4	631.6	597.5	602.6
32.5°	884.8	736.5	649.5	589.9	565.1	556.6
35°	859.2	705.8	610.3	554.1	524.2	517.4
37.5°	827.7	667.4	576.2	508.0	481.6	476.5
40°	780.8	621.4	526.8	468.0	437.3	436.4
42.5°	739.9	577.1	480.8	420.2	389.5	391.3
45°	687.9	517.4	427.9	375.9	345.2	346.9
47.5°	621.4	462.0	377.6	319.7	294.1	292.4
50°	543.0	398.9	316.2	266.8	245.5	241.2
52.5°	468.0	335.0	259.1	214.8	196.9	195.2
55°	373.4	260.8	202.0	168.8	155.1	156.0
56°	339.3	240.4	184.1	154.3	144.1	144.1
57°	306.9	213.1	167.1	142.4	133.0	133.0
58°	271.1	187.5	151.7	128.7	124.5	121.0
59°	246.3	170.5	137.2	121.9	115.1	114.2
60°	217.4	153.4	127.9	114.2	109.1	108.3
61°	192.6	138.1	117.6	106.6	104.8	104.8
62°	172.2	127.9	109.1	103.1	102.3	99.7
63°	154.3	117.6	104.8	98.0	95.5	98.0
64°	138.1	108.3	101.4	96.3	92.9	94.6
65°	125.3	104.0	97.2	93.8	90.4	91.2
66°	116.8	97.2	93.8	89.5	87.8	88.7
67°	105.7	93.8	90.4	86.1	85.2	86.1
67.5°	102.3	91.2	88.7	84.4	83.5	84.4
68°	99.7	89.5	87.8	83.5	82.7	81.8
69°	92.9	86.1	83.5	81.8	80.1	79.3
70°	86.9	82.7	81.0	78.4	76.7	75.9
71°	83.5	78.4	77.6	75.0	73.3	72.5
72°	79.3	75.9	74.2	70.7	69.9	70.7
72.5°	78.4	74.2	73.3	69.9	69.0	69.0
73°	75.9	70.7	71.6	68.2	66.5	68.2
74°	70.7	69.0	67.3	64.8	63.9	63.9
75°	66.5	64.8	63.1	61.4	61.4	61.4



REPORT NUMBER: P676100
CATALOG NUMBER: CCW-SA-1D-727-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	56.3	55.4	56.3	52.8	52.0	51.1
80°	45.2	45.2	46.0	43.5	41.8	40.9
82.5°	34.1	34.9	36.7	34.1	32.4	30.7
85°	22.2	23.0	23.0	20.5	23.9	22.2
87.5°	11.1	11.9	11.1	10.2	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)