

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: P676167

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676167
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T1 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

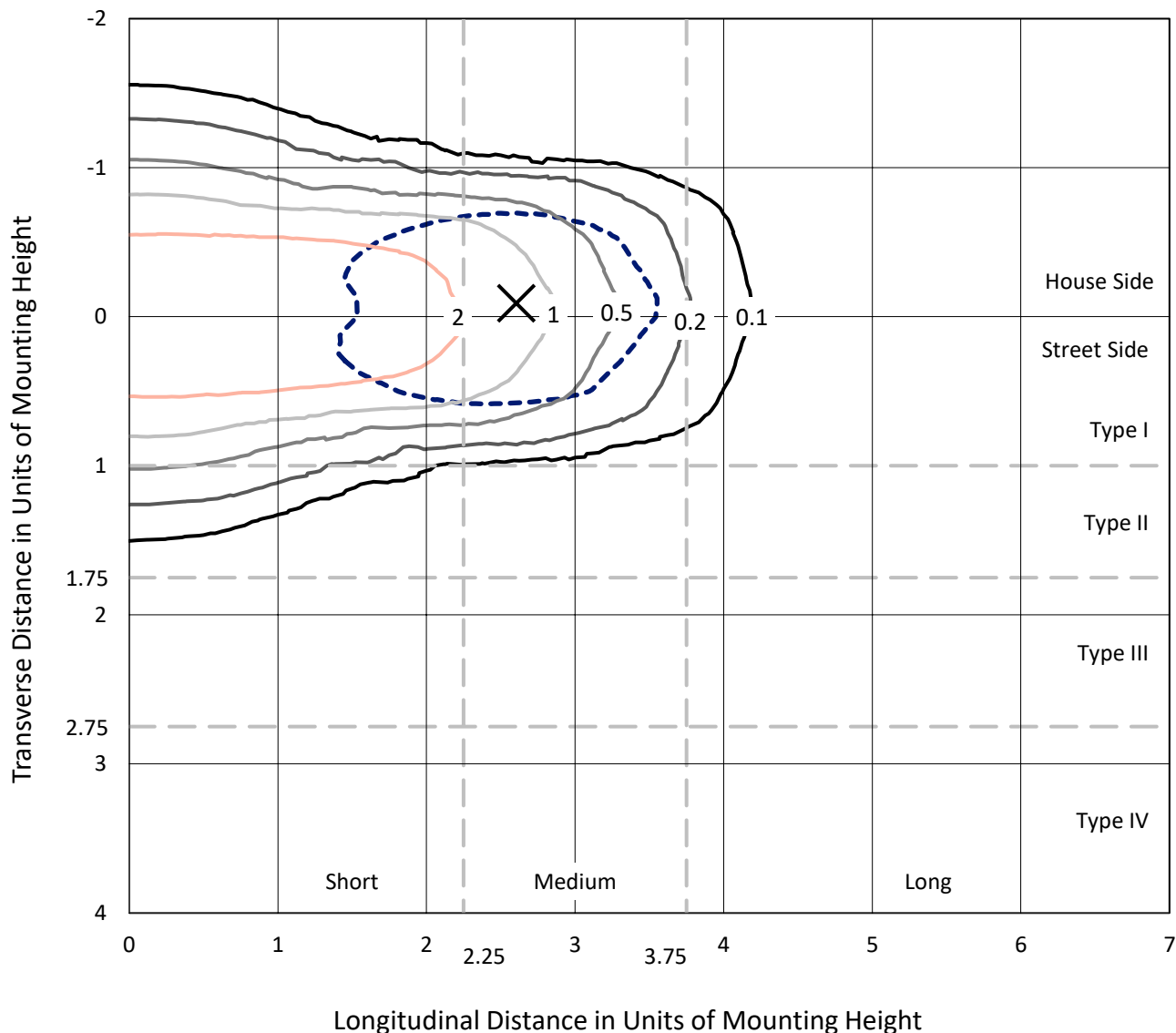
Lumens per Lamp: N/A
Luminaire Lumens: 4894.1 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 56.1
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: P676167
 CATALOG NUMBER: CCW-SA-1E-827-U-T1

Iso-Footcandle Lines of Horizontal Illumination

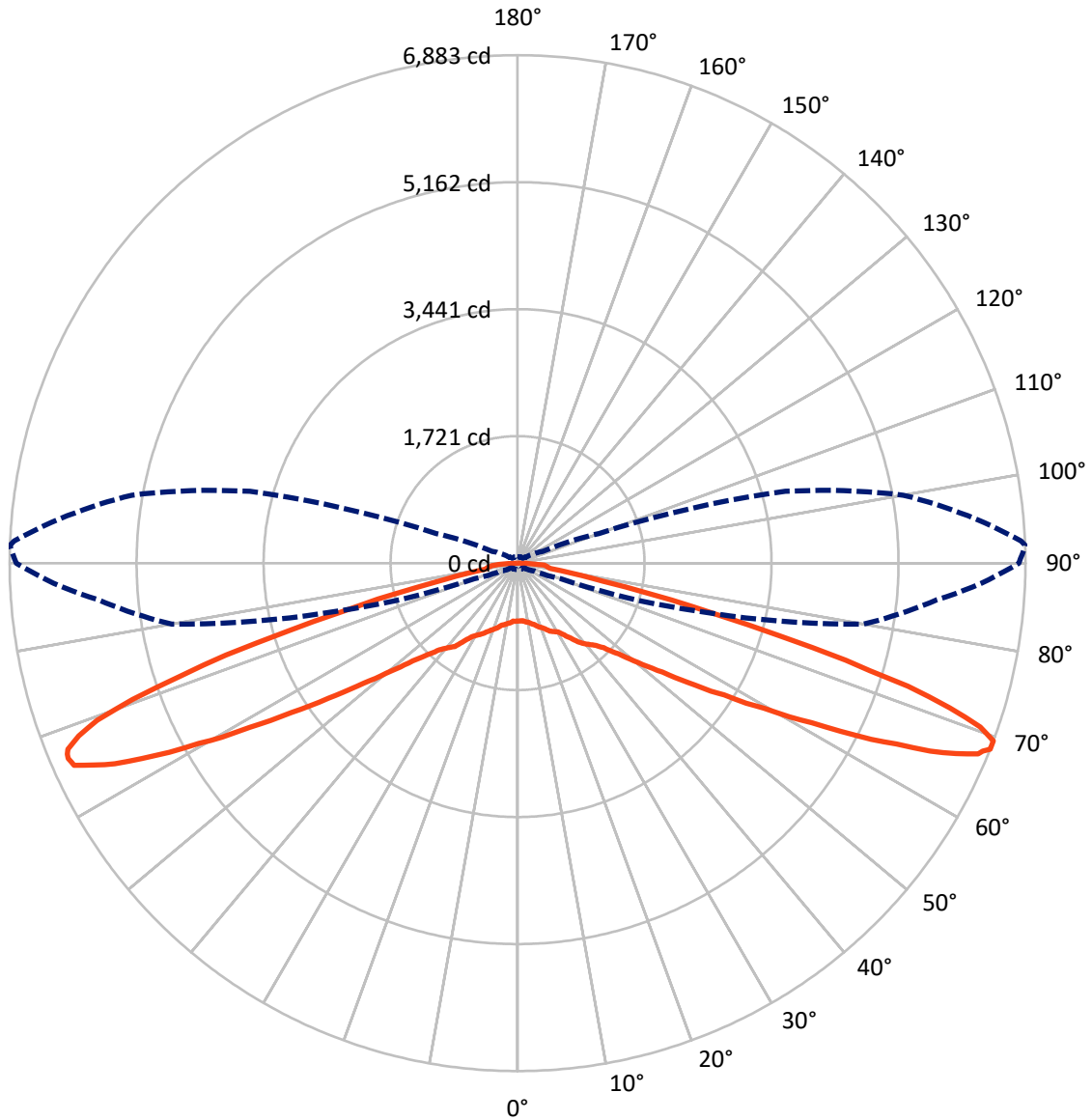
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
 Type I - Short - N/A

REPORT NUMBER: P676167
CATALOG NUMBER: CCW-SA-1E-827-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676167
 CATALOG NUMBER: CCW-SA-1E-827-U-T1

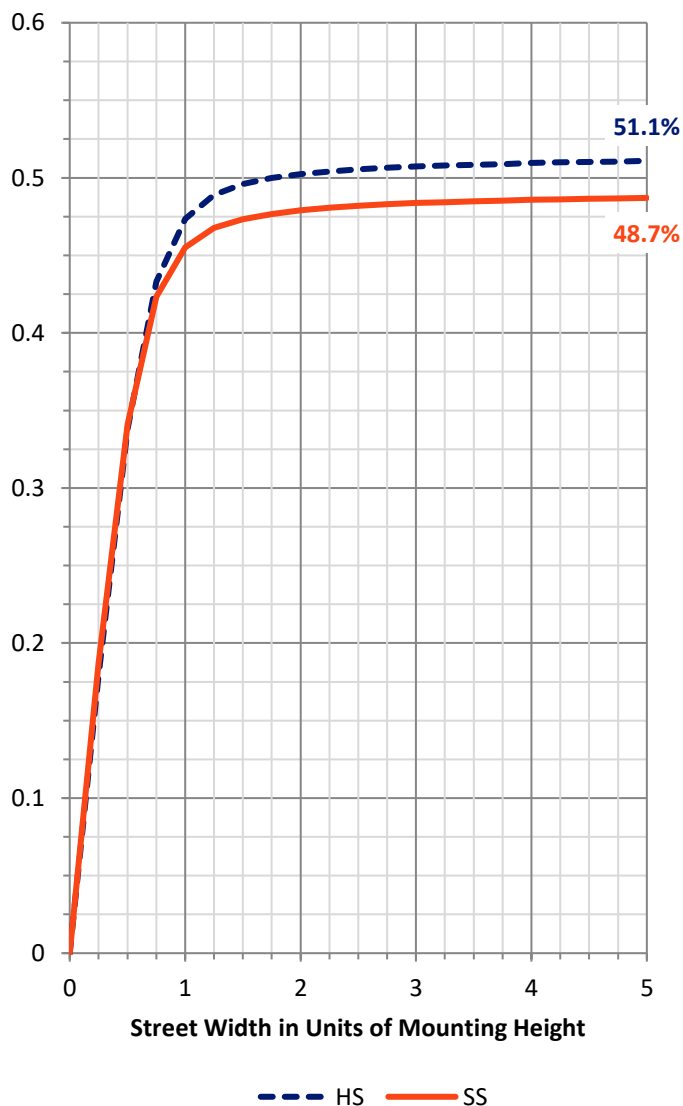
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2520.4	0.0	2520.4
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2373.7	0.0	2373.7
	% Fixture	48.5	0.0	48.5
Total	Lumens	4894.1	0.0	4894.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	1.6
10°-20°	253.9	5.2
20°-30°	433.3	8.9
30°-40°	605.0	12.4
40°-50°	769.5	15.7
50°-60°	973.0	19.9
60°-70°	1200.0	24.5
70°-80°	524.2	10.7
80°-90°	56.9	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°	4894.1	100.0
0°-180°	4894.1	100.0



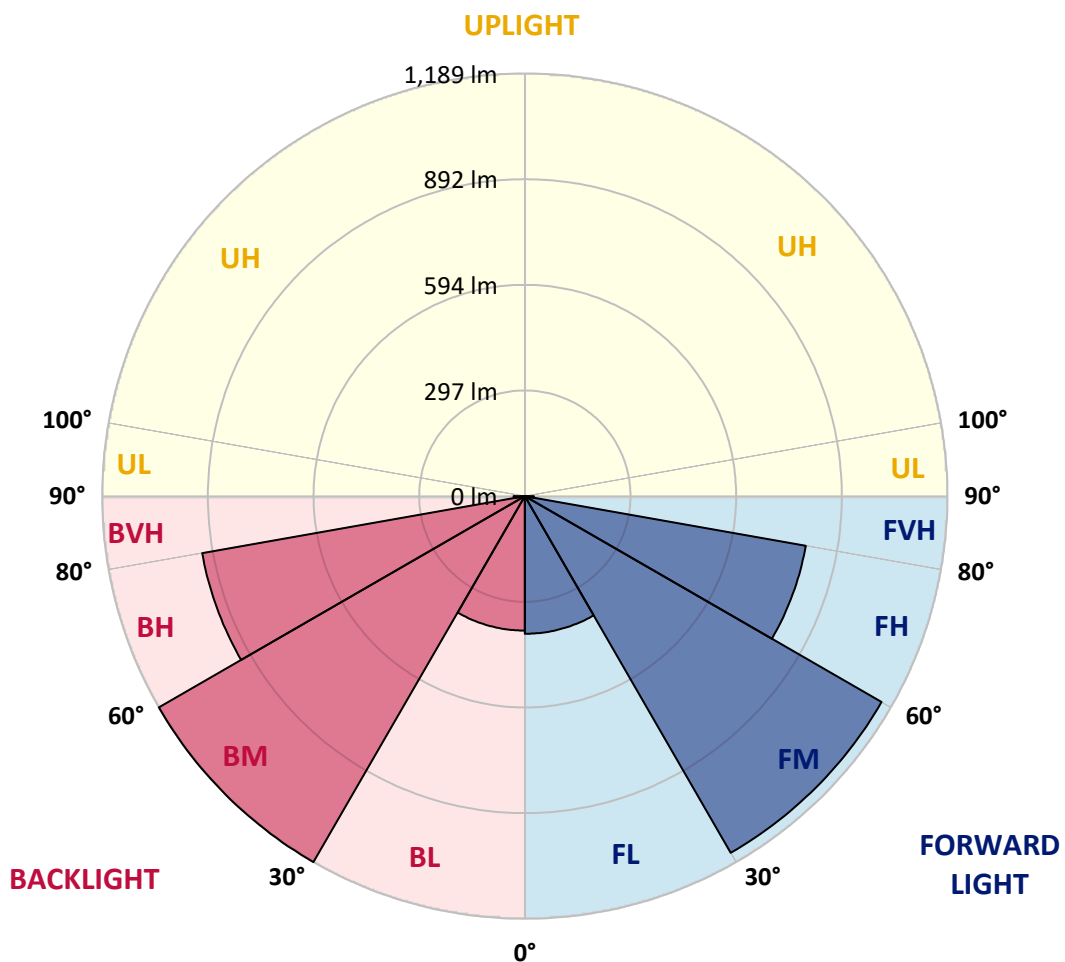
REPORT NUMBER: P676167
 CATALOG NUMBER: CCW-SA-1E-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.3	7.9			
FM (30°-60°)	1158.6	23.7			
FH (60°-80°)	802.5	16.4			G1/1800
FVH (80°-90°)	25.2	0.5			G1/100
BL (0°-30°)	378.2	7.7	B1/500		
BM (30°-60°)	1188.9	24.3	B2/2500		
BH (60°-80°)	921.6	18.8	B2/1000		G2/1000
BVH (80°-90°)	31.6	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: P676167

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6
2.5°	799.1	798.2	801.0	802.8	794.6	797.3	795.5	793.6	787.2	784.4	778.9
5°	821.2	823.9	833.1	824.9	828.5	823.9	809.2	813.8	805.6	803.7	798.2
7.5°	859.8	854.3	867.1	857.9	860.7	851.5	845.1	836.8	835.0	822.1	823.0
10°	868.0	879.1	884.6	882.7	884.6	889.2	877.2	864.4	846.9	843.2	830.4
12.5°	862.5	872.6	887.3	899.3	907.5	909.4	904.8	902.0	894.7	873.5	872.6
15°	857.0	849.7	858.8	900.2	927.7	946.1	952.5	936.9	938.8	911.2	900.2
17.5°	820.3	809.2	845.1	885.5	919.5	959.9	991.1	986.5	986.5	964.5	948.9
20°	771.6	790.0	808.3	859.8	922.2	982.9	1042.6	1039.8	1028.8	1022.4	988.4
22.5°	730.3	738.5	772.5	826.7	904.8	989.3	1060.0	1110.5	1084.8	1059.1	1038.9
25°	701.8	694.4	737.6	793.6	888.2	978.3	1093.1	1145.4	1159.2	1139.9	1101.3
27.5°	661.4	661.4	695.3	748.6	835.0	972.8	1125.2	1205.1	1225.4	1196.9	1140.8
30°	615.4	620.9	650.3	711.0	795.5	932.3	1138.1	1274.0	1290.6	1265.8	1207.9
32.5°	579.6	579.6	612.7	677.0	767.9	914.0	1129.8	1342.0	1373.2	1354.9	1295.2
35°	541.0	538.3	562.2	632.9	723.8	878.1	1127.1	1396.2	1466.0	1466.9	1404.5
37.5°	485.9	496.9	527.3	583.3	688.9	843.2	1118.8	1461.4	1586.3	1607.5	1564.3
40°	449.2	453.8	481.3	542.9	634.7	801.9	1106.9	1514.7	1666.3	1738.8	1679.1
42.5°	395.9	402.3	423.5	499.7	582.4	743.1	1054.5	1552.4	1780.2	1862.8	1812.3
45°	339.9	343.5	374.8	437.2	526.3	673.3	998.5	1613.0	1890.4	2059.4	2030.0
47.5°	272.8	274.6	301.3	366.5	459.3	603.5	912.1	1610.2	1979.5	2256.0	2338.6
50°	213.1	217.7	237.9	291.2	378.4	518.1	812.0	1588.2	2091.6	2480.1	2642.7
52.5°	169.9	170.9	183.7	226.0	292.1	432.6	704.5	1518.4	2197.2	2699.6	3015.6
55°	140.5	140.5	147.9	173.6	224.1	328.8	578.7	1402.6	2210.0	2942.1	3422.5
56°	135.0	133.2	139.6	161.7	202.1	296.7	519.9	1324.6	2228.4	3054.2	3626.5
57°	127.7	128.6	132.3	147.9	181.9	262.7	454.7	1248.3	2215.6	3146.1	3777.1
58°	124.0	122.2	129.5	139.6	160.7	233.3	409.7	1158.3	2195.3	3221.4	3996.6
59°	118.5	117.6	122.2	131.4	149.7	207.6	354.6	1060.9	2155.8	3318.7	4160.1
60°	116.7	115.7	117.6	124.9	137.8	181.9	312.3	947.0	2050.2	3418.9	4363.1
61°	111.1	112.1	115.7	120.3	130.4	163.5	281.1	830.4	1981.3	3503.4	4587.3
62°	112.1	110.2	112.1	115.7	123.1	150.6	246.2	715.6	1858.2	3598.9	4755.4
63°	106.6	105.6	108.4	113.0	116.7	135.9	214.9	618.2	1718.6	3620.9	4897.7
64°	104.7	103.8	104.7	111.1	112.1	127.7	190.1	528.2	1516.5	3658.6	5080.5
65°	100.1	100.1	102.0	104.7	108.4	120.3	169.9	458.4	1315.4	3559.4	5136.6
66°	96.4	97.4	97.4	102.0	104.7	112.1	156.2	389.5	1122.5	3401.4	5190.8
67°	93.7	93.7	94.6	98.3	101.0	105.6	140.5	337.1	947.0	3213.1	5107.2
67.5°	91.9	92.8	92.8	96.4	99.2	105.6	134.1	319.7	846.9	3006.4	5044.7
68°	89.1	90.0	90.0	93.7	96.4	102.0	129.5	292.1	780.8	2872.3	4929.0
69°	87.3	86.3	86.3	90.0	93.7	97.4	120.3	255.4	620.9	2497.6	4760.0
70°	81.8	81.8	83.6	86.3	89.1	92.8	111.1	225.0	525.4	2067.7	4324.6
71°	79.0	78.1	79.0	81.8	84.5	89.1	102.0	199.3	429.9	1716.8	3896.5
72°	73.5	75.3	75.3	78.1	80.8	83.6	95.5	173.6	361.0	1372.3	3425.3
72.5°	72.6	72.6	73.5	76.2	78.1	82.7	91.9	166.3	329.8	1209.7	3227.8
73°	69.8	69.8	70.7	73.5	75.3	79.9	89.1	149.7	300.4	1076.5	2858.5
74°	67.1	66.1	66.1	69.8	70.7	75.3	83.6	132.3	251.7	811.1	2294.6
75°	62.5	62.5	63.4	65.2	66.1	69.8	77.2	117.6	212.2	629.2	1794.9



REPORT NUMBER: P676167
 CATALOG NUMBER: CCW-SA-1E-827-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	51.4	52.4	53.3	55.1	55.1	57.9	63.4	81.8	129.5	318.7	823.9
80°	37.7	39.5	42.3	45.0	44.1	44.1	49.6	58.8	77.2	143.3	316.0
82.5°	30.3	32.1	29.4	33.1	33.1	31.2	35.8	43.2	52.4	70.7	113.0
85°	20.2	21.1	17.5	20.2	19.3	19.3	23.9	25.7	32.1	39.5	56.0
87.5°	9.2	9.2	7.3	8.3	8.3	8.3	11.9	9.2	13.8	19.3	33.1
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: P676167

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

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6
2.5°	784.4	788.1	788.1	784.4	781.7	784.4	782.6	778.0	782.6	784.4	785.4
5°	795.5	788.1	791.8	783.5	789.0	788.1	786.3	790.9	791.8	791.8	798.2
7.5°	807.4	816.6	804.7	805.6	808.3	797.3	801.0	802.8	799.1	806.5	812.0
10°	828.5	832.2	828.5	814.8	823.9	816.6	813.8	822.1	820.3	822.1	830.4
12.5°	847.8	854.3	844.2	843.2	838.6	832.2	835.9	835.0	847.8	849.7	859.8
15°	887.3	870.8	867.1	866.2	864.4	861.6	863.4	864.4	880.9	883.7	907.5
17.5°	921.3	918.6	898.3	905.7	905.7	894.7	890.1	905.7	918.6	932.3	948.9
20°	956.2	953.5	931.4	932.3	924.1	934.2	928.7	943.4	965.4	970.0	984.7
22.5°	997.6	985.6	970.0	971.8	974.6	967.2	963.6	983.8	1005.8	1018.7	1019.6
25°	1062.8	1032.5	1019.6	1021.4	1017.8	1012.2	1015.0	1040.7	1051.7	1079.3	1073.8
27.5°	1097.7	1080.2	1071.0	1049.9	1050.8	1042.6	1053.6	1092.2	1114.2	1135.3	1093.1
30°	1139.9	1128.9	1088.5	1081.1	1080.2	1076.5	1096.8	1146.4	1179.4	1191.4	1130.7
32.5°	1222.6	1178.5	1168.4	1162.0	1147.3	1151.9	1162.0	1227.2	1279.5	1276.8	1165.6
35°	1317.2	1286.9	1258.4	1252.9	1251.1	1238.2	1255.7	1331.9	1372.3	1360.4	1178.5
37.5°	1468.8	1422.8	1384.3	1363.1	1359.5	1350.3	1391.6	1452.2	1504.6	1457.7	1188.6
40°	1543.2	1491.7	1455.9	1443.1	1445.8	1458.7	1499.1	1591.9	1614.8	1528.5	1196.9
42.5°	1649.7	1593.7	1523.0	1516.5	1508.3	1514.7	1592.8	1717.7	1737.0	1624.0	1165.6
45°	1838.9	1754.4	1672.7	1635.9	1637.8	1655.2	1776.5	1913.4	1877.5	1690.1	1116.0
47.5°	2077.8	1953.8	1887.6	1838.0	1861.9	1842.6	2035.5	2144.8	2022.7	1773.7	1055.4
50°	2436.9	2263.3	2173.3	2113.6	2123.7	2140.2	2335.9	2428.7	2183.4	1814.1	962.6
52.5°	2889.8	2666.6	2534.3	2454.4	2461.7	2497.6	2750.2	2721.7	2367.1	1848.1	838.6
55°	3431.7	3202.1	2945.8	2912.7	2904.5	2989.9	3268.2	3028.5	2532.5	1793.9	710.0
56°	3718.3	3474.0	3207.6	3139.6	3119.4	3179.1	3506.1	3181.9	2589.4	1733.3	648.5
57°	3961.7	3728.4	3436.3	3320.6	3346.3	3458.4	3742.2	3326.1	2641.8	1670.9	590.6
58°	4296.1	4029.7	3721.1	3632.9	3609.9	3699.0	3996.6	3471.2	2659.2	1606.6	537.4
59°	4629.5	4309.9	4031.5	3870.8	3877.2	4039.8	4247.4	3643.9	2685.9	1524.8	469.4
60°	4883.0	4722.3	4350.3	4229.9	4213.4	4448.6	4497.2	3759.6	2714.3	1414.6	421.6
61°	5242.2	5032.8	4686.5	4531.2	4576.2	4764.5	4767.3	3904.8	2672.1	1275.0	362.8
62°	5500.3	5445.2	5081.4	4933.6	4919.8	5169.6	5048.4	4032.5	2635.3	1142.7	320.6
63°	5802.5	5802.5	5470.9	5355.2	5361.6	5559.1	5170.5	4160.1	2593.1	996.6	282.0
64°	5959.6	6157.1	5851.2	5688.6	5730.9	5901.7	5388.2	4243.7	2462.6	848.7	248.0
65°	6095.5	6392.2	6222.3	6147.0	6082.7	6183.7	5576.6	4321.8	2263.3	722.0	220.5
66°	6210.4	6613.6	6557.6	6476.7	6470.3	6447.3	5613.3	4319.0	2057.6	609.9	192.9
67°	6152.5	6618.2	6720.2	6754.1	6744.0	6501.5	5549.0	4220.8	1793.9	515.3	171.8
67.5°	6100.1	6580.5	6817.5	6798.2	6840.5	6547.5	5560.0	4100.4	1606.6	466.6	161.7
68°	6054.2	6530.0	6857.0	6881.8	6860.7	6553.0	5499.4	4004.9	1478.9	438.2	152.5
69°	5706.1	6290.3	6793.6	6882.7	6828.5	6342.6	5306.5	3756.0	1174.8	373.9	140.5
70°	5357.0	5979.8	6485.9	6649.4	6582.4	5935.7	5063.1	3360.1	969.1	319.7	126.8
71°	4873.9	5402.9	6076.2	6174.5	6093.7	5472.8	4559.7	2942.1	754.1	271.0	113.0
72°	4218.0	4667.2	5310.2	5548.1	5428.7	4806.8	4050.8	2431.4	610.8	227.8	102.9
72.5°	3892.8	4353.0	4973.1	4992.3	5015.3	4517.5	3835.0	2135.6	532.8	211.3	100.1
73°	3584.2	4035.2	4571.7	4639.6	4542.3	4029.7	3512.6	1909.7	486.8	192.9	96.4
74°	2904.5	3161.7	3606.2	3672.4	3587.0	3285.7	2870.5	1464.2	387.6	166.3	88.2
75°	2285.4	2426.8	2829.2	2788.7	2661.1	2555.4	2225.7	1118.8	314.1	146.1	81.8



REPORT NUMBER: P676167
 CATALOG NUMBER: CCW-SA-1E-827-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1026.9	1112.4	1179.4	1179.4	1186.8	1132.6	1026.0	513.5	193.8	105.6	67.1
80°	391.3	438.2	452.8	453.8	460.2	476.7	443.7	252.6	114.8	75.3	54.2
82.5°	283.8	396.8	427.1	405.1	406.9	367.4	169.9	112.1	72.6	52.4	39.5
85°	257.2	345.4	365.6	362.8	363.7	339.9	100.1	55.1	42.3	33.1	27.6
87.5°	124.9	122.2	129.5	146.1	142.4	184.6	84.5	27.6	18.4	13.8	13.8
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°	782.6	782.6	782.6	782.6	782.6	782.6
2.5°	778.0	777.1	790.0	777.1	784.4	778.9
5°	787.2	790.9	793.6	799.1	786.3	799.1
7.5°	814.8	818.4	819.4	823.9	818.4	817.5
10°	835.9	845.1	850.6	832.2	843.2	842.3
12.5°	877.2	868.0	867.1	863.4	853.3	849.7
15°	906.6	892.8	884.6	869.9	857.9	853.3
17.5°	947.9	921.3	887.3	857.0	835.9	819.4
20°	973.7	925.9	857.9	822.1	790.0	797.3
22.5°	990.2	921.3	831.3	785.4	753.2	762.4
25°	995.7	898.3	812.9	756.0	724.7	718.3
27.5°	980.1	871.7	777.1	712.8	685.2	690.8
30°	972.8	833.1	744.0	680.6	643.9	649.4
32.5°	953.5	793.6	699.9	635.6	609.0	599.8
35°	925.9	760.6	657.7	597.1	564.9	557.6
37.5°	891.9	719.2	620.9	547.5	519.0	513.5
40°	841.4	669.6	567.7	504.3	471.2	470.3
42.5°	797.3	621.9	518.1	452.8	419.8	421.6
45°	741.3	557.6	461.1	405.1	372.0	373.9
47.5°	669.6	497.9	406.9	344.5	316.9	315.1
50°	585.1	429.9	340.8	287.5	264.5	260.0
52.5°	504.3	361.0	279.2	231.5	212.2	210.3
55°	402.3	281.1	217.7	181.9	167.2	168.1
56°	365.6	259.0	198.4	166.3	155.2	155.2
57°	330.7	229.6	180.0	153.4	143.3	143.3
58°	292.1	202.1	163.5	138.7	134.1	130.4
59°	265.5	183.7	147.9	131.4	124.0	123.1
60°	234.2	165.3	137.8	123.1	117.6	116.7
61°	207.6	148.8	126.8	114.8	113.0	113.0
62°	185.5	137.8	117.6	111.1	110.2	107.5
63°	166.3	126.8	113.0	105.6	102.9	105.6
64°	148.8	116.7	109.3	103.8	100.1	102.0
65°	135.0	112.1	104.7	101.0	97.4	98.3
66°	125.8	104.7	101.0	96.4	94.6	95.5
67°	113.9	101.0	97.4	92.8	91.9	92.8
67.5°	110.2	98.3	95.5	90.9	90.0	90.9
68°	107.5	96.4	94.6	90.0	89.1	88.2
69°	100.1	92.8	90.0	88.2	86.3	85.4
70°	93.7	89.1	87.3	84.5	82.7	81.8
71°	90.0	84.5	83.6	80.8	79.0	78.1
72°	85.4	81.8	79.9	76.2	75.3	76.2
72.5°	84.5	79.9	79.0	75.3	74.4	74.4
73°	81.8	76.2	77.2	73.5	71.6	73.5
74°	76.2	74.4	72.6	69.8	68.9	68.9
75°	71.6	69.8	68.0	66.1	66.1	66.1



REPORT NUMBER: P676167
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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	60.6	59.7	60.6	57.0	56.0	55.1
80°	48.7	48.7	49.6	46.8	45.0	44.1
82.5°	36.7	37.7	39.5	36.7	34.9	33.1
85°	23.9	24.8	24.8	22.0	25.7	23.9
87.5°	11.9	12.9	11.9	11.0	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)