

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: P674203

Luminaire Tested: **CCP-SA-1A-850-U-SLL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674203  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-850-U-SLL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SLL distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

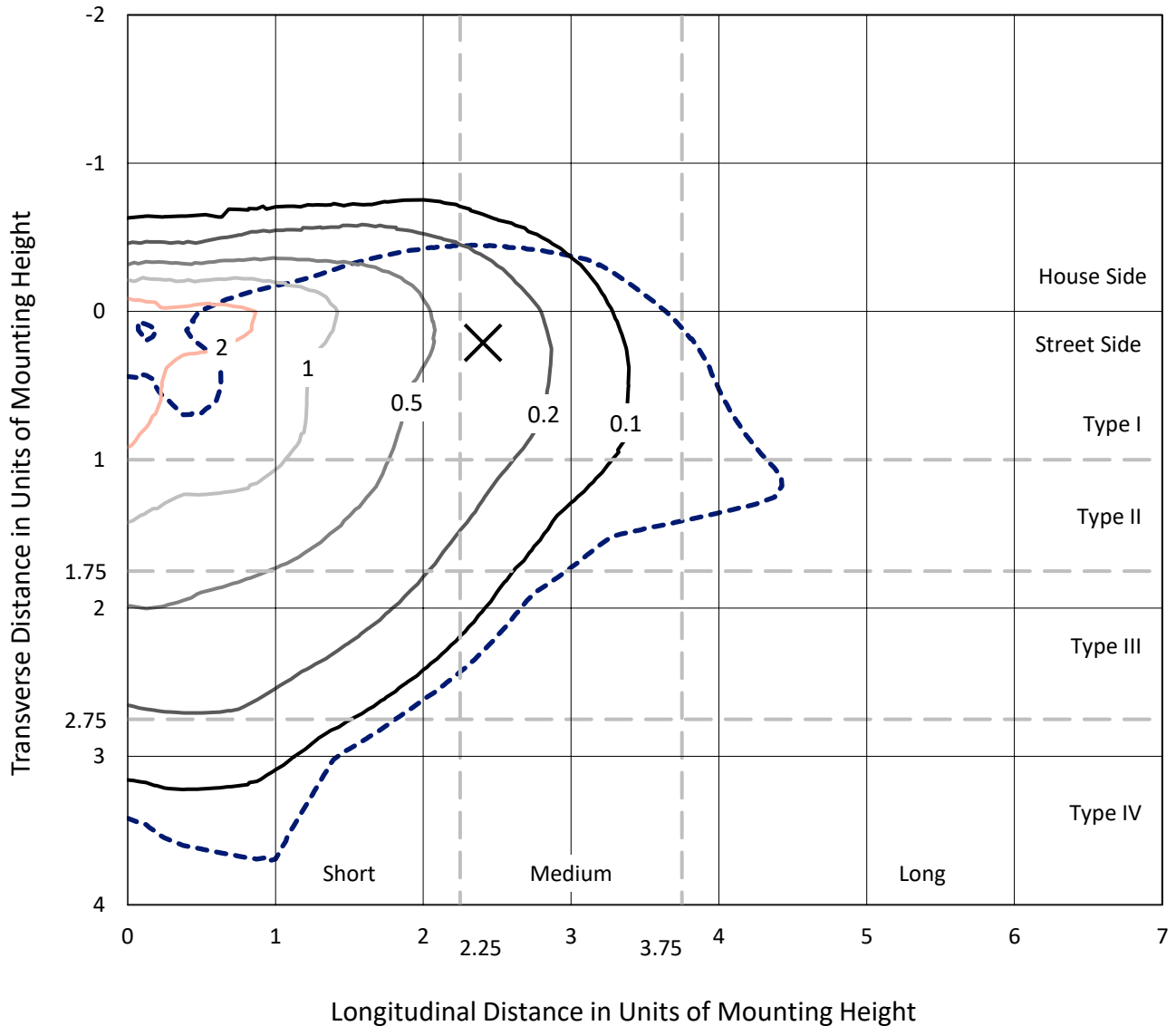
Lumens per Lamp: N/A  
Luminaire Lumens: 1732.1 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 18  
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: P674203  
 CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

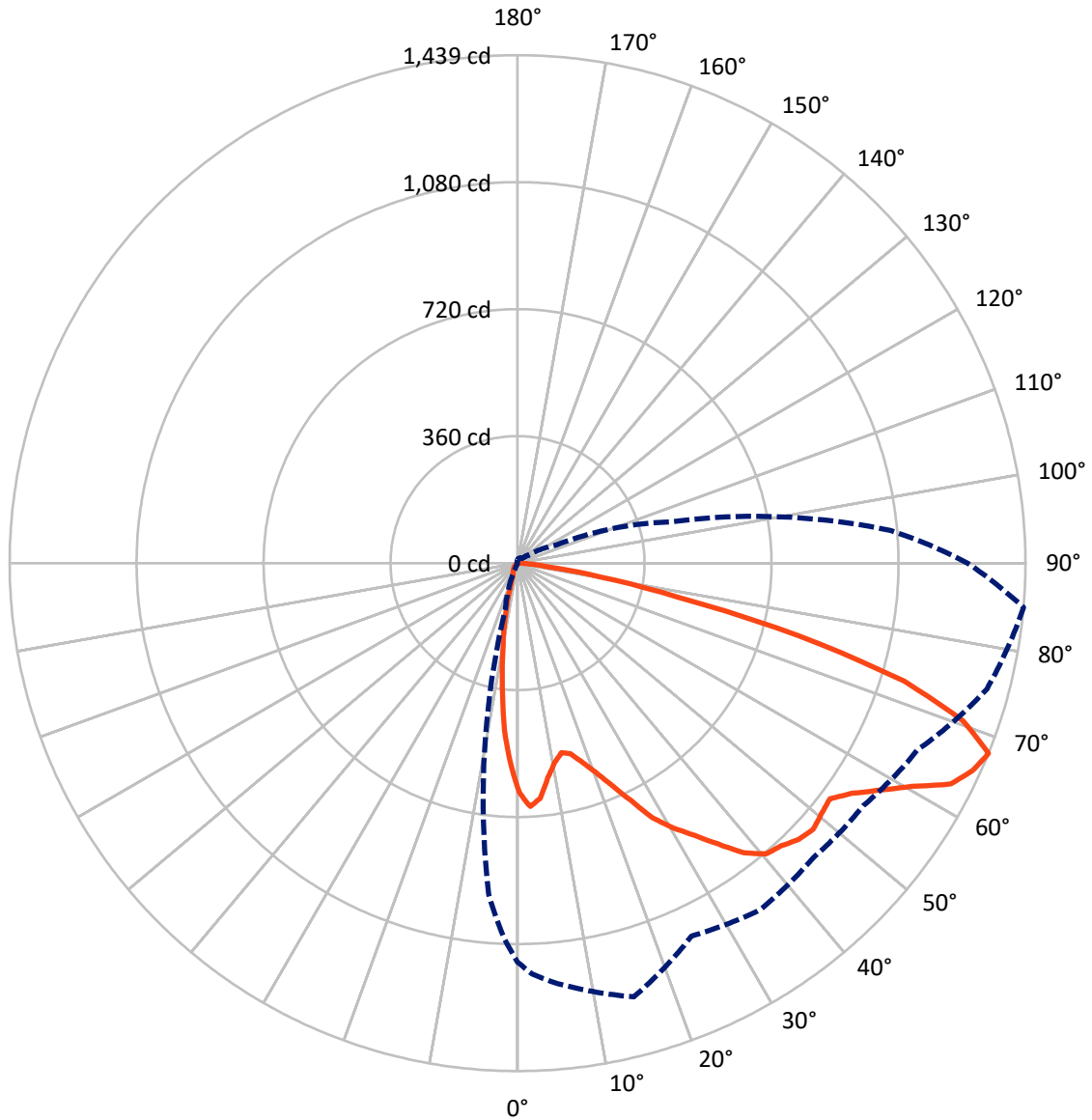
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P674203  
CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P674203  
 CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	300.8	0.0	300.8
	% Fixture	17.4	0.0	17.4
<b>Street Side</b>	Lumens	1431.3	0.0	1431.3
	% Fixture	82.6	0.0	82.6
<b>Total</b>	Lumens	1732.1	0.0	1732.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	2.9
10°-20°	97.0	5.6
20°-30°	134.3	7.8
30°-40°	189.7	11.0
40°-50°	258.3	14.9
50°-60°	342.1	19.8
60°-70°	397.3	22.9
70°-80°	225.0	13.0
80°-90°	38.9	2.2
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°	1732.1	100.0
0°-180°	1732.1	100.0



REPORT NUMBER: P674203

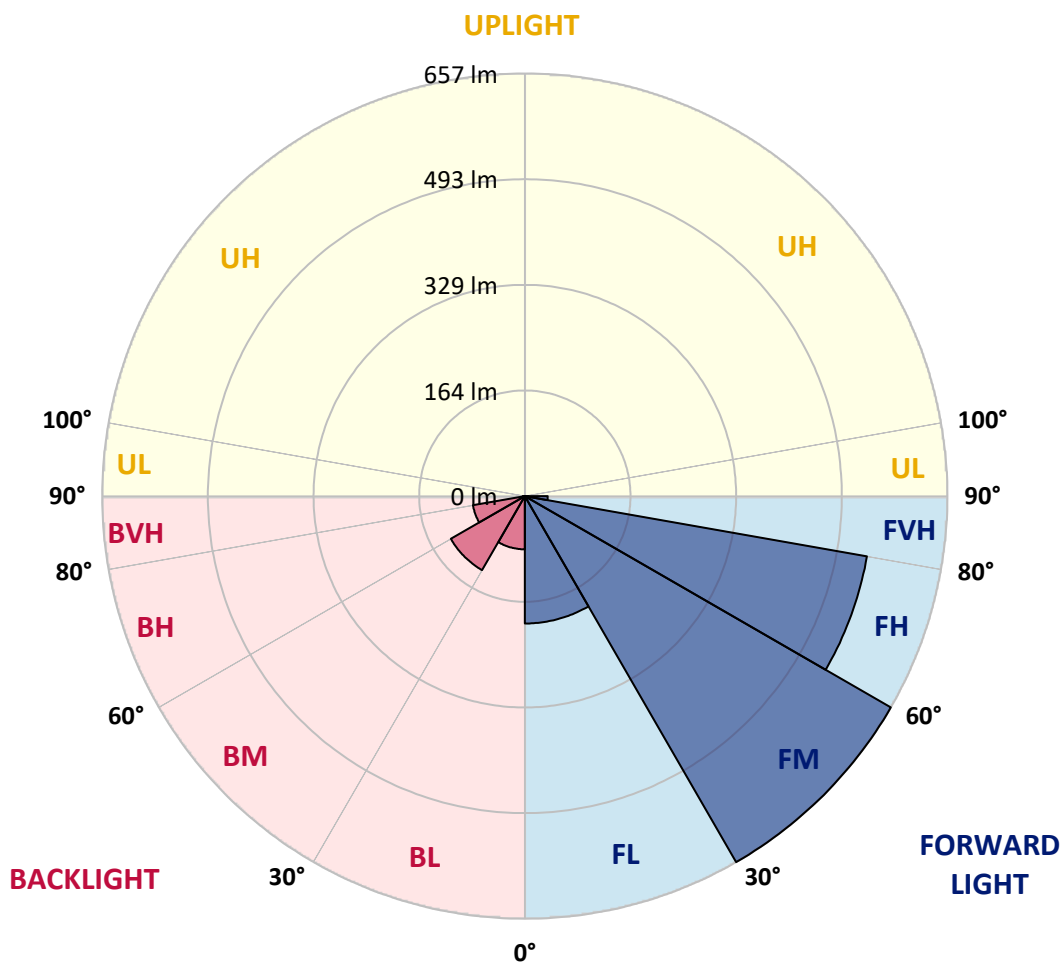
CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.1	11.4			
FM (30°-60°)	657.3	38.0			
FH (60°-80°)	540.3	31.2			G0/660
FVH (80°-90°)	35.6	2.1			G1/100
BL (0°-30°)	82.7	4.8	B0/110		
BM (30°-60°)	132.9	7.7	B0/220		
BH (60°-80°)	81.9	4.7	B0/110		G0/110
BVH (80°-90°)	3.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Medium





REPORT NUMBER: P674203

CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2
2.5°	676.7	691.0	691.5	698.0	704.4	704.4	719.7	716.0	702.6	700.3	690.6
5°	681.8	686.9	690.6	723.4	751.1	748.4	756.7	751.1	725.2	691.9	669.3
7.5°	637.8	643.4	658.2	714.1	751.6	764.1	779.8	745.1	717.8	657.7	614.2
10°	579.6	590.2	617.5	681.3	727.6	767.3	767.3	739.6	686.9	628.1	574.9
12.5°	547.2	568.4	583.3	648.0	708.1	735.4	734.5	719.7	685.5	611.5	551.3
15°	552.7	558.7	590.2	640.6	680.4	679.0	695.6	691.0	667.0	626.3	560.1
17.5°	578.2	587.4	614.7	640.6	659.6	654.0	653.6	675.8	677.1	651.2	593.0
20°	619.8	647.1	660.0	667.9	644.8	621.2	618.4	649.4	673.4	683.2	632.3
22.5°	686.4	704.4	730.8	690.6	630.4	600.8	595.3	629.5	678.1	721.1	683.2
25°	751.6	765.5	790.9	739.1	646.6	596.7	587.0	616.6	695.6	773.8	744.7
27.5°	820.5	832.6	835.3	774.7	655.4	588.3	576.8	616.6	710.4	801.6	818.2
30°	862.6	877.0	879.7	806.2	669.7	595.3	589.7	619.3	720.6	825.2	870.9
32.5°	909.8	913.5	911.2	811.7	685.5	615.6	592.5	637.8	732.2	853.4	919.0
35°	966.2	972.7	949.1	837.2	720.6	628.6	620.3	660.5	752.1	866.3	977.3
37.5°	1009.2	1029.6	976.4	846.9	727.6	655.9	657.3	707.7	766.0	882.0	1041.6
40°	1090.2	1056.0	1022.7	880.2	753.9	702.1	694.7	756.2	812.7	892.2	1083.7
42.5°	1134.6	1116.5	1040.7	883.4	794.6	766.0	767.8	811.3	837.2	920.9	1095.3
45°	1145.7	1126.7	1065.2	885.7	834.9	841.3	873.3	881.6	873.3	939.9	1117.0
47.5°	1173.9	1132.7	1062.4	916.7	900.1	925.1	965.8	983.8	922.3	932.9	1127.2
50°	1168.4	1144.8	1056.4	929.7	979.6	1045.8	1073.1	1065.7	976.9	918.6	1116.1
52.5°	1145.2	1119.8	1074.9	964.8	1054.1	1134.1	1172.1	1153.6	1025.4	951.0	1108.7
55°	1179.0	1159.6	1099.0	1012.5	1110.1	1211.8	1238.7	1224.8	1085.1	981.0	1150.8
57.5°	1215.5	1211.4	1164.2	1068.4	1176.2	1291.8	1291.8	1274.7	1136.9	1024.5	1213.2
60°	1268.3	1277.5	1212.3	1105.4	1198.9	1287.2	1354.3	1334.4	1189.2	1100.8	1284.0
62.5°	1251.1	1280.7	1274.3	1185.0	1224.8	1309.9	1346.4	1361.2	1253.9	1193.8	1378.3
65°	1196.1	1227.6	1273.8	1237.3	1205.4	1254.8	1273.3	1318.2	1286.3	1281.2	1417.2
67.5°	1130.4	1164.7	1193.3	1272.4	1166.0	1198.9	1182.7	1197.0	1251.1	1377.0	1439.4
70°	987.0	1019.9	1065.2	1194.3	1062.0	1032.4	1028.2	1021.3	1105.4	1342.7	1338.6
72.5°	811.7	827.0	901.9	970.9	785.8	780.3	786.8	778.9	876.5	1215.5	1146.6
75°	607.8	623.0	665.6	745.6	535.1	503.2	540.2	576.8	669.3	943.6	823.8
77.5°	457.0	476.4	503.2	557.8	392.7	342.7	347.8	382.5	483.8	755.8	461.6
80°	296.5	294.2	346.0	383.9	295.6	304.8	291.9	317.3	350.6	404.3	235.9
82.5°	171.1	173.4	195.2	220.2	205.8	235.4	169.7	283.5	250.2	164.7	87.9
85°	96.2	100.4	120.3	152.6	129.0	86.5	70.8	140.6	157.3	67.5	42.6
87.5°	9.7	8.3	16.2	57.8	35.2	14.3	21.3	33.8	37.9	25.4	12.5
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: P674203  
 CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2
2.5°	676.7	676.7	665.1	645.7	637.8	624.0	605.0	611.0	604.5	580.9	574.9
5°	648.9	626.7	602.7	573.1	556.0	520.8	509.7	489.8	493.1	473.2	474.1
7.5°	591.1	573.5	532.8	494.0	460.2	429.7	386.7	370.5	354.8	346.9	356.1
10°	557.3	524.5	469.0	418.1	373.3	346.0	317.3	295.1	274.7	259.5	256.2
12.5°	532.8	503.7	436.6	374.6	339.5	317.3	290.9	260.4	240.5	214.2	206.3
15°	525.4	489.8	419.1	357.5	323.3	286.8	256.7	226.6	200.7	173.0	163.3
17.5°	550.9	509.7	418.6	343.7	295.6	256.2	214.6	180.8	154.5	129.0	123.0
20°	593.9	531.0	432.0	335.3	269.2	216.5	169.3	135.5	105.9	89.3	85.1
22.5°	642.9	567.1	433.4	313.1	242.8	176.7	123.5	89.3	72.6	64.8	62.4
25°	703.0	624.9	450.0	295.1	211.8	134.1	87.9	68.5	58.7	54.1	53.2
27.5°	752.5	665.1	468.1	276.1	181.3	99.4	68.9	56.0	50.9	46.3	45.8
30°	803.9	711.4	473.2	264.6	154.9	81.9	59.2	49.5	43.9	41.6	41.2
32.5°	848.7	761.8	489.4	245.6	130.0	72.2	53.7	44.4	40.7	37.0	36.5
35°	906.6	790.9	497.2	235.4	120.7	65.2	49.0	40.7	35.2	32.8	31.9
37.5°	968.5	819.1	502.3	227.6	112.9	61.1	46.3	38.4	33.3	30.1	29.1
40°	1026.4	858.9	494.9	217.9	106.8	56.0	44.4	35.6	31.0	27.8	26.4
42.5°	1070.8	897.8	492.6	208.6	100.4	54.1	42.1	34.2	29.1	25.4	25.0
45°	1095.7	924.1	476.4	201.2	95.3	55.0	41.2	32.4	27.8	24.5	22.7
47.5°	1089.7	944.5	480.6	198.9	88.3	51.3	40.7	31.0	25.4	22.7	21.3
50°	1123.0	985.7	473.6	191.5	83.3	46.3	44.4	31.0	25.0	21.7	20.4
52.5°	1128.6	1023.1	488.4	178.1	75.4	42.6	43.9	30.5	24.1	20.8	19.0
55°	1174.8	1066.6	517.1	170.7	68.9	37.0	40.2	29.6	21.7	19.0	18.0
57.5°	1237.7	1156.8	535.6	163.7	60.1	32.4	33.8	29.1	19.9	17.6	16.2
60°	1298.3	1192.9	537.0	151.2	51.8	29.1	26.4	29.1	18.5	15.7	14.3
62.5°	1343.7	1192.9	527.7	140.6	45.3	25.9	23.1	27.8	16.7	13.9	13.0
65°	1319.1	1161.0	503.7	131.8	41.2	22.7	19.9	21.3	14.8	12.0	11.1
67.5°	1275.2	1061.5	450.5	121.2	40.7	19.9	17.1	15.7	13.0	10.6	9.7
70°	1204.9	927.4	375.1	109.2	39.8	18.0	15.3	13.4	11.6	9.3	8.3
72.5°	970.9	766.0	308.0	102.2	38.9	15.7	13.0	11.6	9.7	7.9	6.9
75°	672.5	489.4	237.3	87.4	37.9	14.3	12.0	10.2	8.3	6.5	6.0
77.5°	403.3	327.0	153.1	65.7	25.0	11.6	10.2	7.9	6.9	5.6	5.1
80°	188.7	154.5	62.0	25.4	12.0	8.3	6.9	6.0	5.6	4.6	4.2
82.5°	74.0	65.2	30.1	14.8	9.7	6.5	5.6	5.1	4.6	3.7	3.2
85°	39.8	35.2	14.3	10.2	6.9	4.6	4.6	4.2	3.7	3.2	2.8
87.5°	8.8	6.5	6.0	6.0	5.1	3.7	3.7	3.2	2.8	2.3	1.9
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: P674203  
 CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2
2.5°	571.7	578.6	567.5	574.5	564.7	572.2	573.1	566.1	568.0	577.2	581.4
5°	487.0	482.4	472.2	469.0	469.5	463.5	465.8	469.0	474.1	476.9	485.2
7.5°	351.1	361.7	361.2	369.1	369.6	368.6	362.2	348.3	352.9	349.2	353.8
10°	251.2	255.8	264.6	269.7	278.9	273.8	259.0	253.5	250.7	250.2	254.9
12.5°	200.7	189.6	188.7	190.6	195.2	189.2	181.8	175.3	178.5	185.0	190.1
15°	155.4	146.2	134.1	132.3	133.2	130.4	122.6	114.2	116.6	123.0	126.7
17.5°	119.3	108.7	100.4	94.8	93.0	83.3	71.7	64.8	62.9	62.4	65.7
20°	80.5	78.6	77.2	70.3	70.3	56.4	46.7	41.6	41.6	42.6	43.0
22.5°	60.1	57.8	58.3	56.9	53.2	42.1	37.0	35.6	35.6	36.5	36.5
25°	52.3	49.0	48.1	47.6	43.9	36.1	32.4	31.0	31.0	31.9	31.9
27.5°	44.4	43.5	42.1	40.2	37.0	31.0	28.7	27.3	27.8	28.2	27.8
30°	40.7	38.4	36.5	36.5	32.8	27.8	25.9	25.0	24.1	25.0	25.4
32.5°	36.1	34.7	33.8	32.4	28.2	24.5	22.7	21.7	21.3	21.3	21.7
35°	31.0	31.0	30.1	28.2	24.5	22.2	19.9	19.0	18.5	19.0	19.0
37.5°	27.8	26.4	26.8	25.0	21.7	19.4	17.1	16.2	16.2	15.7	16.2
40°	25.9	23.6	22.2	21.3	19.4	16.7	14.8	13.9	13.4	13.4	13.4
42.5°	23.1	21.3	18.5	18.0	17.6	14.3	12.0	11.6	11.1	10.6	10.6
45°	21.7	19.0	16.7	14.3	14.3	12.0	10.2	9.3	8.8	8.3	8.8
47.5°	19.9	17.1	14.3	12.0	11.6	9.7	7.9	6.9	6.5	6.5	6.5
50°	19.0	15.3	12.5	10.2	8.8	7.9	6.0	5.1	4.6	4.6	4.6
52.5°	17.6	14.3	11.1	8.8	6.9	6.0	4.6	3.7	3.2	3.2	3.2
55°	15.7	13.0	9.7	7.4	6.0	4.6	3.2	2.3	1.9	1.9	1.9
57.5°	14.8	11.6	8.3	6.5	4.6	3.2	1.9	1.4	1.4	0.9	1.4
60°	13.4	10.2	6.9	5.1	3.7	2.3	1.4	0.5	0.5	0.5	0.5
62.5°	11.6	8.8	6.0	4.2	2.8	1.4	0.5	0.0	0.0	0.0	0.0
65°	9.7	6.9	4.6	3.2	1.9	0.5	0.0	0.0	0.0	0.0	0.0
67.5°	8.3	6.0	3.7	2.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.4	5.1	2.8	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.0	4.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.1	3.2	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.2	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P674203  
 CATALOG NUMBER: CCP-SA-1A-850-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2	651.2
2.5°	587.4	584.6	598.5	621.2	632.7	655.4	661.0	675.3	671.6	676.7
5°	486.1	491.7	512.0	545.3	557.3	590.2	621.2	652.2	672.1	681.8
7.5°	360.8	379.3	404.3	434.8	465.8	508.8	561.5	597.6	617.0	637.8
10°	268.7	288.6	317.3	347.4	397.8	445.9	498.6	543.5	560.1	579.6
12.5°	211.4	242.4	275.7	308.0	338.1	383.9	449.1	514.3	532.4	547.2
15°	147.1	185.0	232.7	274.7	316.8	356.6	424.1	503.2	527.7	552.7
17.5°	81.4	111.5	166.0	225.3	287.2	348.3	432.5	523.6	560.6	578.2
20°	47.2	59.2	98.1	168.4	250.2	330.2	436.6	562.0	611.0	619.8
22.5°	38.9	43.0	55.5	105.5	204.9	318.7	457.9	615.6	665.6	686.4
25°	33.3	36.5	43.0	63.4	154.9	294.2	471.3	682.7	728.9	751.6
27.5°	29.6	32.8	37.9	46.7	105.5	260.4	493.5	743.3	789.5	820.5
30°	25.9	28.7	33.8	39.8	73.1	222.5	512.5	787.7	852.9	862.6
32.5°	23.1	25.4	29.1	34.2	54.1	168.8	527.7	833.5	888.5	909.8
35°	19.9	22.7	25.0	29.1	41.2	127.2	518.5	869.1	940.8	966.2
37.5°	17.6	19.4	21.7	24.5	34.7	99.4	499.5	911.6	985.7	1009.2
40°	14.8	16.2	19.0	21.7	31.5	76.8	477.8	963.0	1048.6	1090.2
42.5°	12.5	13.9	15.7	20.4	25.9	56.9	433.9	1002.8	1099.4	1134.6
45°	9.7	11.6	14.3	20.4	20.8	42.1	388.5	1032.4	1128.1	1145.7
47.5°	7.4	9.3	13.9	17.6	16.7	29.1	334.9	1066.1	1157.7	1173.9
50°	5.6	7.4	15.7	15.3	13.9	22.2	301.1	1089.7	1159.6	1168.4
52.5°	3.7	5.6	13.0	11.6	11.6	19.4	291.9	1088.8	1164.2	1145.2
55°	2.8	4.2	7.4	8.3	10.2	17.1	283.5	1123.5	1165.6	1179.0
57.5°	1.9	3.2	5.1	6.5	8.8	14.8	266.4	1165.1	1208.6	1215.5
60°	0.9	2.3	3.7	5.1	7.4	13.0	242.4	1195.6	1260.9	1268.3
62.5°	0.5	1.4	2.8	4.2	6.0	10.2	217.4	1147.1	1238.2	1251.1
65°	0.0	0.9	1.9	2.8	3.7	7.4	176.7	1035.6	1148.5	1196.1
67.5°	0.0	0.0	0.9	1.9	2.3	5.6	133.2	942.2	1065.7	1130.4
70°	0.0	0.0	0.5	0.5	1.4	4.2	85.1	780.3	951.4	987.0
72.5°	0.0	0.0	0.0	0.0	0.5	2.8	49.5	579.6	745.6	811.7
75°	0.0	0.0	0.0	0.0	0.0	2.3	25.0	372.8	519.0	607.8
77.5°	0.0	0.0	0.0	0.0	0.0	1.9	13.4	240.5	382.5	457.0
80°	0.0	0.0	0.0	0.0	0.0	0.5	7.9	139.7	244.7	296.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	68.5	146.2	171.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	36.5	73.1	96.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.1	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)