

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: P677466

Luminaire Tested: **CCW-SA-2B-827-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677466  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-827-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3648.3 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

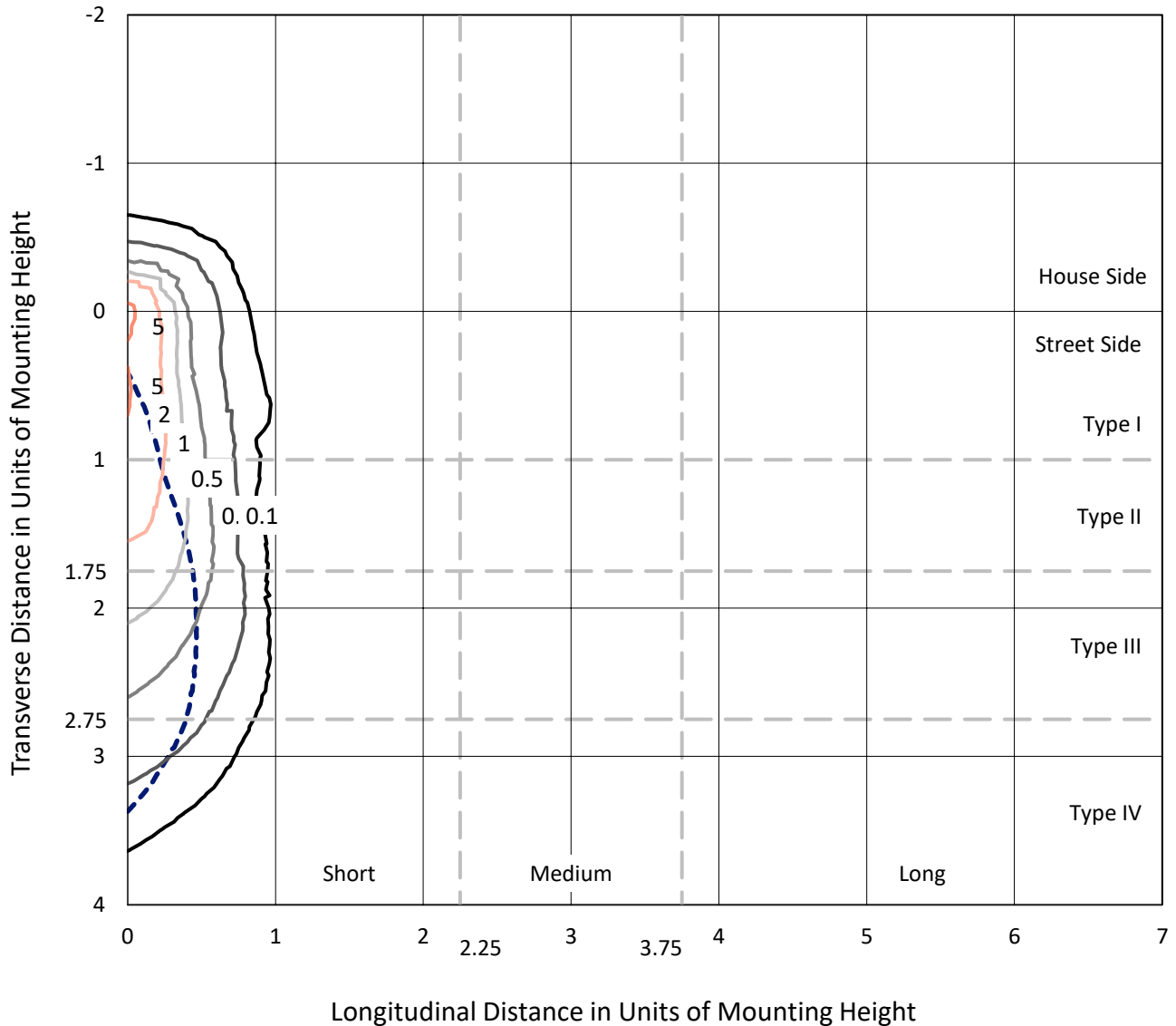
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P677466  
 CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

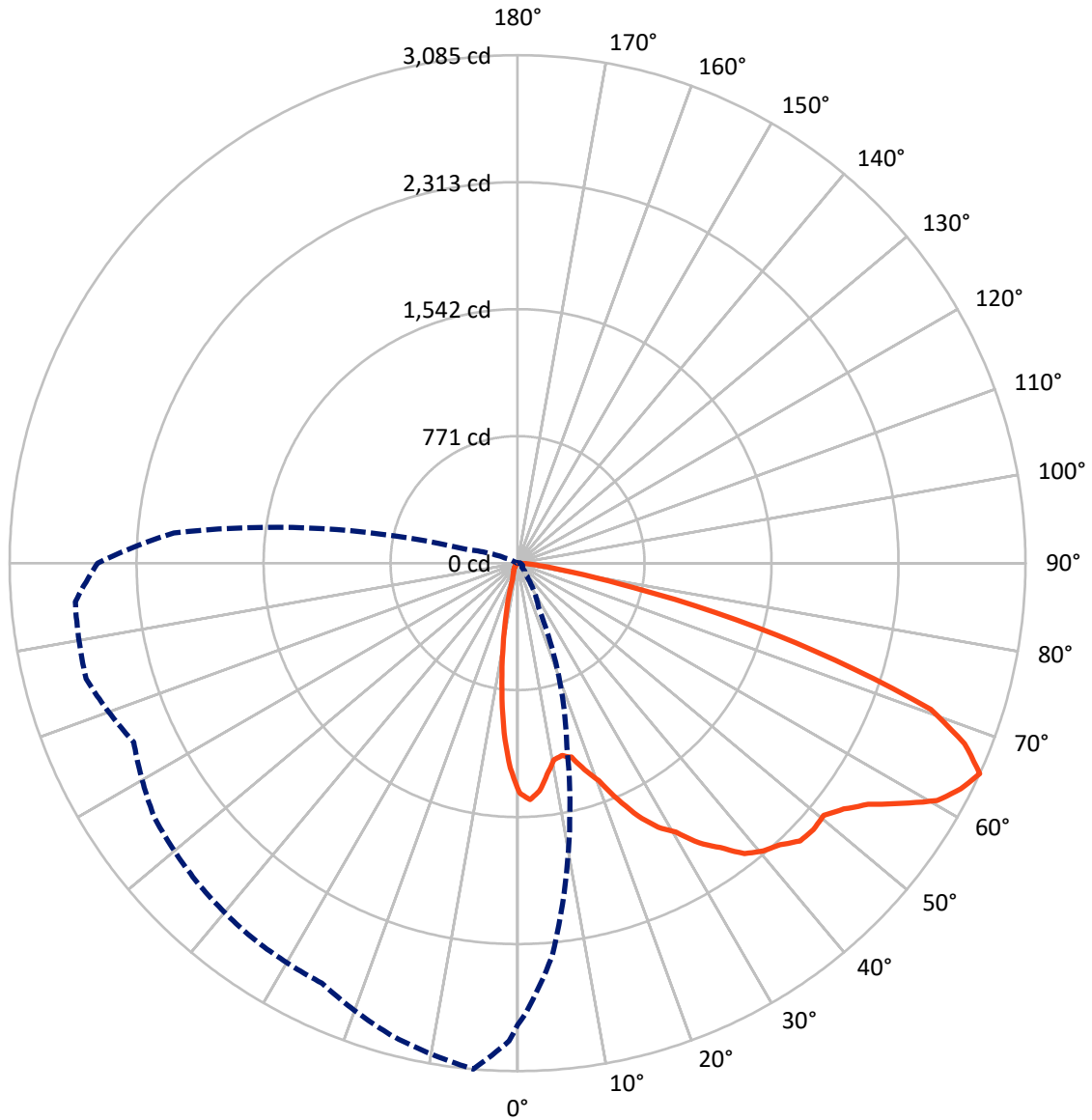
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677466  
CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P677466

CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

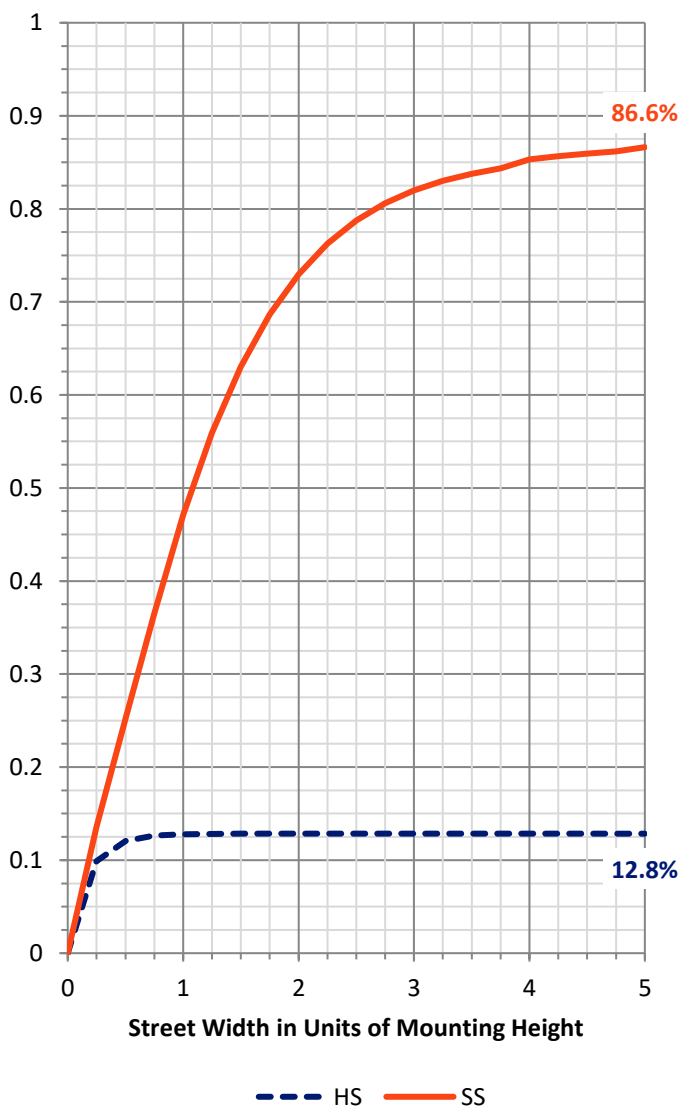
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	473.7	0.0	473.7
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	3174.6	0.0	3174.6
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	3648.3	0.0	3648.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	2.9
10°-20°	204.6	5.6
20°-30°	284.9	7.8
30°-40°	404.9	11.1
40°-50°	561.4	15.4
50°-60°	765.0	21.0
60°-70°	841.0	23.1
70°-80°	413.4	11.3
80°-90°	67.5	1.9
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°	3648.3	100.0
0°-180°	3648.3	100.0



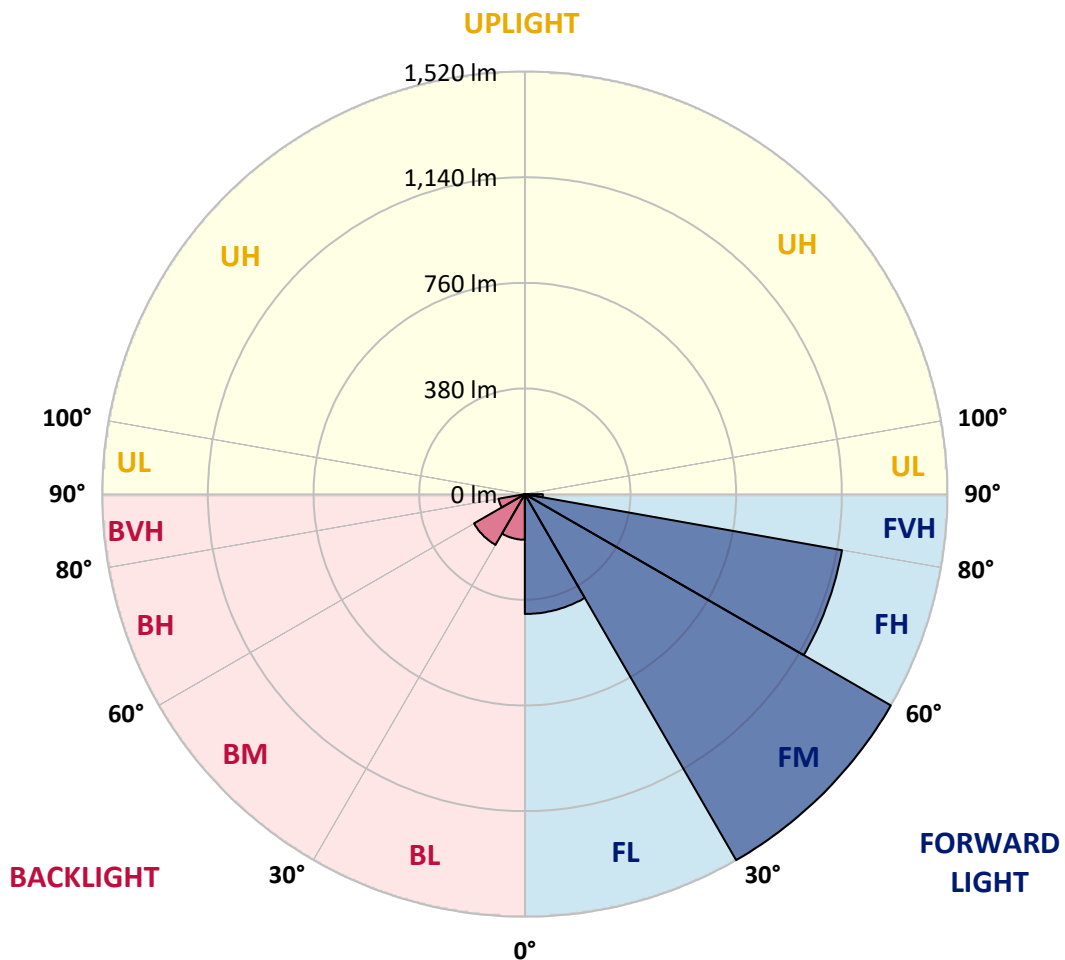
REPORT NUMBER: P677466  
 CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.2	11.8			
FM (30°-60°)	1520.4	41.7			
FH (60°-80°)	1158.7	31.8			G1/1800
FVH (80°-90°)	64.5	1.8			G1/100
BL (0°-30°)	164.0	4.5	B1/500		
BM (30°-60°)	210.9	5.8	B0/220		
BH (60°-80°)	95.7	2.6	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





REPORT NUMBER: P677466

CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7
2.5°	1423.3	1440.0	1424.3	1369.2	1359.3	1332.8	1292.5	1289.5	1247.2	1252.1	1229.5
5°	1337.7	1354.4	1321.0	1248.2	1180.3	1126.2	1093.8	1035.7	1022.9	994.4	994.4
7.5°	1250.2	1249.2	1192.1	1131.1	1029.8	930.5	885.2	801.6	752.5	725.9	700.3
10°	1177.4	1161.6	1126.2	1000.3	890.2	786.9	730.8	675.7	624.6	580.3	536.1
12.5°	1126.2	1136.1	1080.0	943.3	800.7	728.8	668.8	610.8	549.8	499.7	450.5
15°	1152.8	1137.0	1071.1	930.5	785.9	687.5	607.9	537.0	469.2	403.3	365.9
17.5°	1235.4	1195.1	1117.4	930.5	755.4	624.6	528.2	444.6	371.8	312.8	266.6
20°	1346.6	1300.3	1216.7	964.9	732.8	578.4	446.6	341.3	265.6	210.5	175.1
22.5°	1460.6	1424.3	1298.4	978.7	706.2	516.4	352.1	246.9	177.0	141.6	123.9
25°	1597.4	1546.2	1408.5	1033.8	666.9	456.4	277.4	172.1	131.8	113.1	102.3
27.5°	1706.5	1697.7	1511.8	1067.2	637.4	407.2	219.3	136.7	109.2	95.4	88.5
30°	1844.3	1796.1	1637.7	1134.1	603.9	351.1	183.0	123.0	100.3	85.6	80.7
32.5°	1926.9	1904.3	1703.6	1171.5	566.6	304.9	157.4	108.2	91.5	80.7	75.7
35°	2046.9	2001.6	1798.0	1195.1	546.9	278.4	141.6	98.4	76.7	65.9	60.0
37.5°	2180.6	2163.9	1911.1	1194.1	518.4	262.6	130.8	91.5	72.8	61.0	54.1
40°	2317.4	2249.5	1980.0	1221.6	503.6	250.8	123.0	87.5	68.9	58.0	49.2
42.5°	2419.7	2342.0	2059.7	1211.8	485.9	230.2	120.0	81.6	65.9	53.1	45.2
45°	2447.2	2419.7	2131.5	1208.8	473.1	213.4	115.1	80.7	63.9	50.2	42.3
47.5°	2500.3	2481.6	2220.0	1213.8	463.3	200.7	103.3	82.6	61.0	47.2	40.3
50°	2523.9	2490.5	2291.8	1225.6	440.7	184.9	92.5	86.6	60.0	46.2	38.4
52.5°	2621.3	2591.8	2390.2	1259.0	422.0	164.3	81.6	82.6	62.0	43.3	36.4
55°	2716.7	2683.3	2541.6	1335.7	395.4	147.5	69.8	72.8	59.0	39.3	32.5
57.5°	2847.5	2792.4	2642.9	1367.2	371.8	124.9	62.0	60.0	55.1	35.4	28.5
60°	2867.2	2889.8	2628.2	1347.5	347.2	110.2	54.1	46.2	59.0	31.5	24.6
62.5°	2933.1	2838.7	2559.3	1302.3	329.5	101.3	48.2	38.4	51.1	27.5	20.7
65°	2806.2	2736.4	2398.0	1156.7	306.9	102.3	42.3	31.5	32.5	22.6	16.7
67.5°	2620.3	2565.2	2130.5	998.4	284.3	100.3	37.4	27.5	24.6	19.7	14.8
70°	2299.7	2180.6	1809.8	810.5	250.8	93.4	31.5	24.6	20.7	15.7	10.8
72.5°	1673.1	1624.9	1298.4	626.6	225.2	84.6	29.5	20.7	17.7	11.8	8.9
75°	1126.2	1046.6	819.3	411.1	181.0	73.8	24.6	18.7	13.8	8.9	6.9
77.5°	595.1	562.6	464.3	195.7	100.3	34.4	13.8	10.8	7.9	6.9	3.9
80°	257.7	229.2	200.7	79.7	35.4	15.7	8.9	5.9	4.9	3.9	2.0
82.5°	131.8	125.9	104.3	34.4	20.7	11.8	4.9	3.9	3.0	2.0	1.0
85°	64.9	66.9	55.1	10.8	11.8	6.9	1.0	1.0	0.0	0.0	0.0
87.5°	4.9	4.9	3.9	2.0	3.0	1.0	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: P677466  
 CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7
2.5°	1220.7	1234.4	1210.8	1225.6	1218.7	1221.6	1224.6	1216.7	1218.7	1246.2	1247.2
5°	977.7	1004.3	994.4	1008.2	1031.8	1020.0	1030.8	1028.8	1030.8	1034.7	1052.5
7.5°	697.4	689.5	708.2	744.6	786.9	812.5	799.7	792.8	788.8	779.0	790.8
10°	526.2	522.3	517.4	528.2	555.7	584.3	600.0	573.4	558.7	540.0	533.1
12.5°	436.7	412.1	398.4	381.6	389.5	415.1	416.1	390.5	366.9	357.0	367.9
15°	344.3	327.5	302.9	279.3	267.5	287.2	270.5	245.9	215.4	211.5	210.5
17.5°	245.9	236.1	218.4	208.5	194.8	189.8	172.1	134.8	113.1	107.2	109.2
20°	167.2	159.3	158.4	149.5	143.6	139.7	111.1	86.6	79.7	80.7	81.6
22.5°	123.9	120.0	115.1	114.1	109.2	104.3	81.6	72.8	67.9	67.9	70.8
25°	101.3	99.3	94.4	92.5	90.5	83.6	68.9	62.0	60.0	58.0	61.0
27.5°	86.6	85.6	82.6	79.7	77.7	70.8	60.0	54.1	52.1	52.1	52.1
30°	77.7	77.7	73.8	67.9	67.9	60.0	51.1	47.2	45.2	45.2	44.3
32.5°	72.8	70.8	65.9	62.0	59.0	51.1	45.2	41.3	38.4	38.4	39.3
35°	59.0	59.0	58.0	55.1	51.1	43.3	38.4	34.4	32.5	31.5	32.5
37.5°	52.1	49.2	45.2	46.2	44.3	37.4	32.5	29.5	26.6	26.6	26.6
40°	47.2	44.3	40.3	37.4	36.4	33.4	28.5	23.6	20.7	19.7	19.7
42.5°	42.3	40.3	34.4	29.5	28.5	28.5	21.6	17.7	14.8	14.8	14.8
45°	39.3	36.4	31.5	25.6	20.7	21.6	17.7	12.8	10.8	9.8	9.8
47.5°	37.4	34.4	27.5	21.6	15.7	15.7	12.8	8.9	6.9	5.9	5.9
50°	34.4	31.5	24.6	17.7	11.8	9.8	7.9	4.9	3.0	2.0	2.0
52.5°	32.5	29.5	21.6	14.8	9.8	6.9	4.9	1.0	0.0	0.0	0.0
55°	29.5	25.6	18.7	11.8	7.9	3.9	1.0	0.0	0.0	0.0	0.0
57.5°	25.6	22.6	14.8	8.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0
60°	21.6	18.7	11.8	6.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17.7	15.7	8.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14.8	11.8	6.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.8	6.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P677466  
 CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7
2.5°	1251.1	1280.7	1308.2	1316.1	1337.7	1397.7	1397.7	1426.2	1477.4	1496.1	1500.0
5°	1055.4	1086.9	1092.8	1153.8	1182.3	1243.3	1283.6	1380.0	1438.0	1474.4	1497.0
7.5°	802.6	813.4	836.1	893.1	949.2	1022.9	1099.7	1222.6	1324.9	1366.2	1442.9
10°	551.8	584.3	633.4	684.6	772.1	853.8	953.1	1069.2	1195.1	1246.2	1312.1
12.5°	371.8	417.0	495.7	568.5	649.2	731.8	826.2	981.6	1124.3	1195.1	1261.0
15°	217.4	272.5	340.3	458.4	565.6	658.0	752.5	909.8	1082.9	1174.4	1255.1
17.5°	110.2	126.9	183.0	285.2	426.9	578.4	719.0	919.7	1114.4	1226.6	1293.4
20°	82.6	87.5	103.3	151.5	292.1	478.0	687.5	934.4	1202.0	1338.7	1375.1
22.5°	71.8	75.7	82.6	98.4	164.3	365.9	643.3	970.8	1321.0	1449.8	1526.6
25°	61.0	64.9	70.8	80.7	105.2	248.9	589.2	1009.2	1427.2	1589.5	1661.3
27.5°	53.1	56.1	62.0	69.8	85.6	158.4	495.7	1060.3	1589.5	1758.7	1777.4
30°	45.2	48.2	53.1	62.0	72.8	112.1	363.9	1067.2	1679.0	1832.5	1884.6
32.5°	39.3	40.3	46.2	54.1	61.0	88.5	255.7	1074.1	1744.9	1927.9	1938.7
35°	32.5	34.4	40.3	45.2	53.1	69.8	193.8	1039.7	1830.5	2026.2	2023.3
37.5°	26.6	29.5	33.4	37.4	43.3	59.0	154.4	975.7	1937.7	2178.7	2086.2
40°	20.7	23.6	27.5	32.5	36.4	53.1	116.1	879.3	2049.8	2253.4	2155.1
42.5°	14.8	16.7	20.7	25.6	32.5	44.3	83.6	765.2	2094.1	2341.0	2237.7
45°	10.8	12.8	15.7	21.6	33.4	35.4	58.0	661.0	2141.3	2379.3	2219.0
47.5°	5.9	7.9	11.8	18.7	29.5	26.6	41.3	567.5	2195.4	2413.8	2233.8
50°	2.0	3.0	6.9	19.7	23.6	20.7	32.5	517.4	2248.5	2420.6	2263.3
52.5°	0.0	0.0	3.9	20.7	17.7	15.7	28.5	497.7	2234.7	2442.3	2244.6
55°	0.0	0.0	1.0	8.9	9.8	11.8	23.6	496.7	2332.1	2449.2	2346.9
57.5°	0.0	0.0	0.0	3.0	5.9	9.8	20.7	465.2	2394.1	2620.3	2484.6
60°	0.0	0.0	0.0	1.0	3.9	6.9	15.7	437.7	2457.0	2697.0	2632.1
62.5°	0.0	0.0	0.0	0.0	1.0	3.0	10.8	395.4	2330.2	2691.1	2774.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.9	312.8	2096.1	2550.5	2696.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	216.4	1835.4	2373.4	2551.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.8	1481.3	2081.3	2163.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.1	1057.4	1652.5	1775.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6	654.1	1207.9	1359.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	423.9	914.8	1031.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	226.2	573.4	666.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.4	348.2	401.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	211.5	241.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5	43.3
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: P677466

CATALOG NUMBER: CCW-SA-2B-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7	1394.7
2.5°	1502.0	1530.5	1541.3	1524.6	1526.6	1492.1	1487.2	1439.0	1419.3	1423.3
5°	1570.8	1612.1	1634.7	1616.1	1573.8	1507.9	1447.9	1390.8	1355.4	1337.7
7.5°	1555.1	1601.3	1629.8	1647.5	1599.3	1493.1	1401.6	1294.4	1249.2	1250.2
10°	1468.5	1564.9	1622.9	1600.3	1577.7	1471.5	1329.8	1213.8	1173.4	1177.4
12.5°	1398.7	1505.9	1540.3	1558.0	1511.8	1427.2	1331.8	1199.0	1153.8	1126.2
15°	1355.4	1435.1	1437.0	1464.6	1445.9	1445.9	1352.5	1222.6	1183.3	1152.8
17.5°	1355.4	1373.1	1371.1	1381.0	1412.5	1449.8	1404.6	1318.0	1240.3	1235.4
20°	1385.9	1330.8	1318.0	1322.0	1348.5	1459.7	1519.7	1411.5	1362.3	1346.6
22.5°	1456.7	1335.7	1258.0	1244.3	1325.9	1458.7	1593.4	1559.0	1473.4	1460.6
25°	1554.1	1326.9	1242.3	1224.6	1286.6	1494.1	1694.7	1701.6	1623.9	1597.4
27.5°	1646.6	1366.2	1240.3	1236.4	1318.0	1486.2	1764.6	1815.7	1728.2	1706.5
30°	1678.0	1405.6	1276.7	1224.6	1329.8	1514.7	1762.6	1896.4	1839.3	1844.3
32.5°	1715.4	1444.9	1280.7	1260.0	1380.0	1561.0	1818.7	2026.2	1984.9	1926.9
35°	1770.5	1498.0	1318.0	1299.3	1415.4	1602.3	1830.5	2121.6	2114.7	2046.9
37.5°	1817.7	1550.2	1395.7	1398.7	1523.6	1669.2	1882.6	2238.7	2226.9	2180.6
40°	1851.1	1622.9	1516.7	1524.6	1618.0	1743.9	1975.1	2297.7	2385.2	2317.4
42.5°	1856.1	1687.9	1655.4	1718.4	1805.9	1860.0	2012.5	2338.0	2463.9	2419.7
45°	1874.7	1791.1	1881.6	1927.9	1999.7	1962.3	2010.5	2406.9	2469.8	2447.2
47.5°	1947.5	1979.0	2093.1	2233.8	2259.3	2136.4	2057.7	2417.7	2503.3	2500.3
50°	2023.3	2180.6	2341.0	2434.4	2466.9	2256.4	2102.0	2408.8	2547.5	2523.9
52.5°	2107.9	2355.7	2586.9	2702.0	2684.3	2389.2	2152.1	2480.6	2629.2	2621.3
55°	2161.0	2434.4	2745.2	2905.6	2891.8	2537.7	2311.5	2583.9	2736.4	2716.7
57.5°	2301.6	2562.3	2902.6	2977.4	3013.8	2732.4	2422.6	2753.1	2825.9	2847.5
60°	2417.7	2645.9	2943.9	3052.1	3064.9	2848.5	2617.4	2927.2	2940.0	2867.2
62.5°	2587.9	2678.3	2856.4	2953.8	3019.7	2914.4	2792.4	3020.6	2938.0	2933.1
65°	2712.8	2572.1	2693.1	2747.2	2789.5	2814.1	2968.5	3084.6	2901.6	2806.2
67.5°	2642.9	2371.5	2348.8	2351.8	2364.6	2513.1	2909.5	2928.2	2699.0	2620.3
70°	2326.2	1945.6	1915.1	1938.7	1874.7	2053.8	2670.5	2661.6	2381.3	2299.7
72.5°	1881.6	1418.4	1366.2	1398.7	1413.4	1603.3	2246.5	2018.4	1737.0	1673.1
75°	1495.1	1039.7	877.4	956.1	1006.2	1167.5	1754.7	1371.1	1212.8	1126.2
77.5°	1174.4	786.9	682.6	651.1	697.4	848.8	1276.7	720.0	635.4	595.1
80°	744.6	578.4	627.5	582.3	602.0	605.9	664.9	327.5	260.7	257.7
82.5°	448.5	395.4	470.2	258.7	471.1	421.0	276.4	148.5	131.8	131.8
85°	317.7	244.9	162.3	105.2	209.5	231.1	107.2	76.7	66.9	64.9
87.5°	159.3	75.7	36.4	23.6	26.6	43.3	12.8	5.9	5.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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