

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: P677386

Luminaire Tested: **CCW-SA-1E-722-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677386
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-722-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

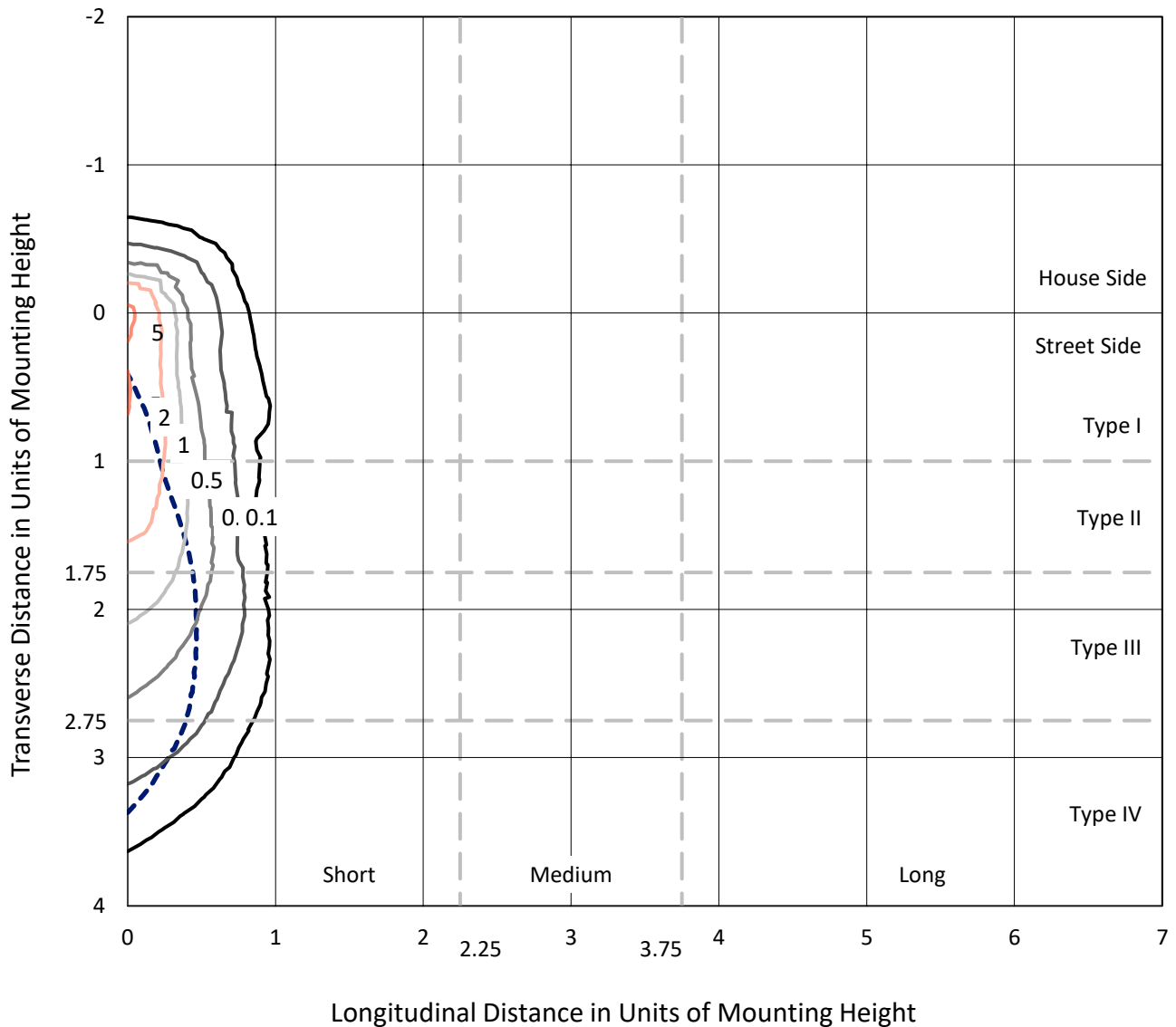
Lumens per Lamp: N/A
Luminaire Lumens: 3619.2 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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: P677386
 CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

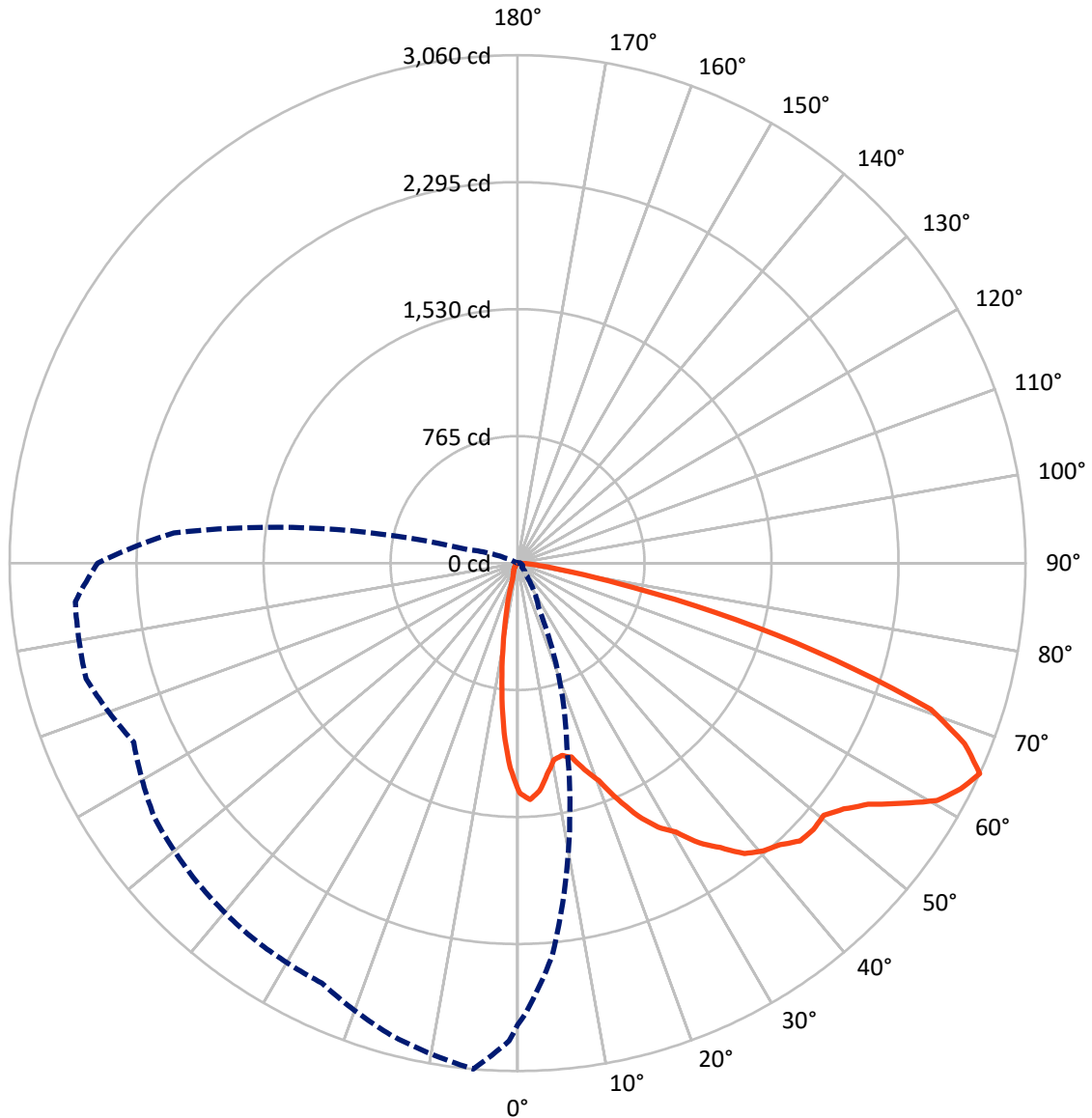
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P677386
CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677386
 CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.9	0.0	469.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3149.2	0.0	3149.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	3619.2	0.0	3619.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	2.9
10°-20°	202.9	5.6
20°-30°	282.7	7.8
30°-40°	401.6	11.1
40°-50°	556.9	15.4
50°-60°	758.9	21.0
60°-70°	834.3	23.1
70°-80°	410.1	11.3
80°-90°	67.0	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°	3619.2	100.0
0°-180°	3619.2	100.0



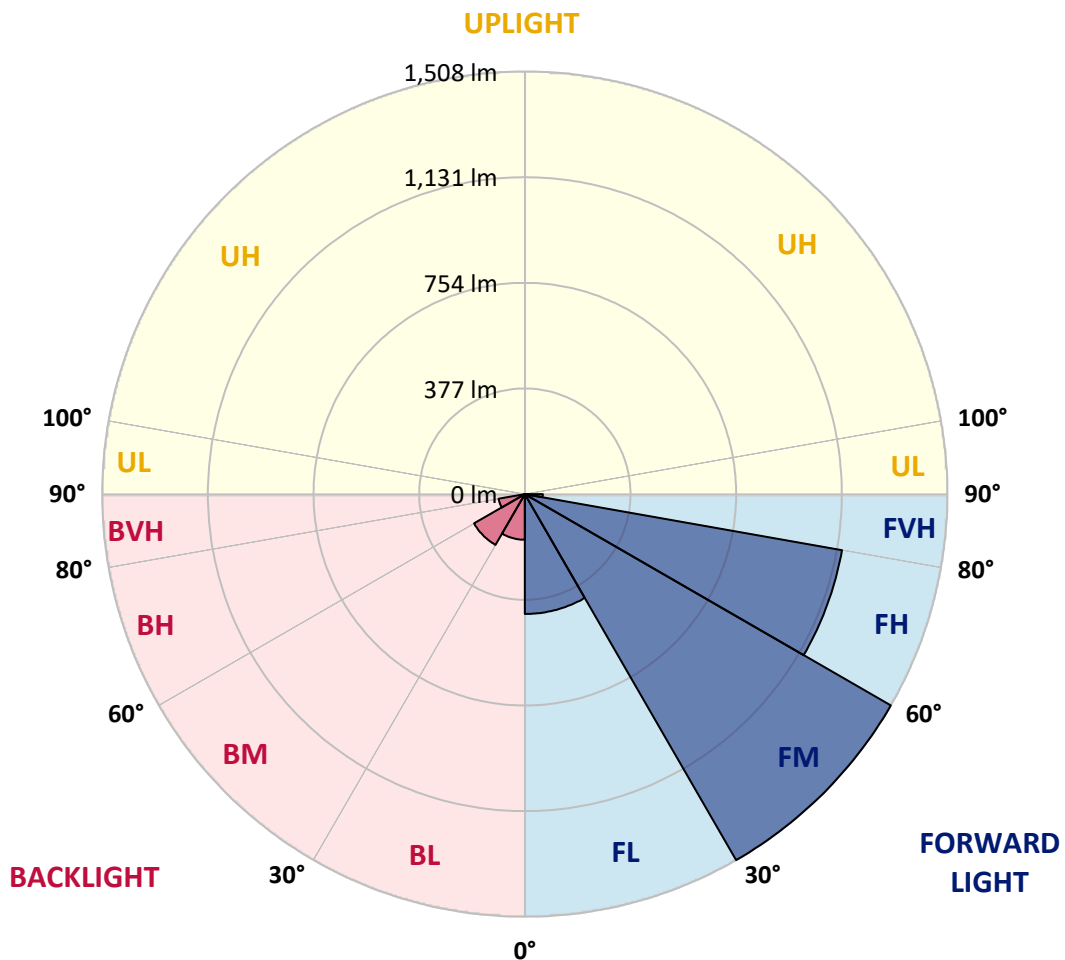
REPORT NUMBER: P677386
 CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.7	11.8			
FM (30°-60°)	1508.2	41.7			
FH (60°-80°)	1149.4	31.8			G1/1800
FVH (80°-90°)	63.9	1.8			G1/100
BL (0°-30°)	162.7	4.5	B1/500		
BM (30°-60°)	209.2	5.8	B0/220		
BH (60°-80°)	95.0	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: P677386
 CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1411.9	1428.5	1412.9	1358.2	1348.5	1322.1	1282.1	1279.2	1237.2	1242.1	1219.7
5°	1327.0	1343.6	1310.4	1238.2	1170.9	1117.2	1085.0	1027.5	1014.8	986.5	986.5
7.5°	1240.2	1239.2	1182.6	1122.1	1021.6	923.0	878.2	795.2	746.4	720.1	694.7
10°	1168.0	1152.3	1117.2	992.3	883.0	780.6	725.0	670.3	619.6	575.7	531.8
12.5°	1117.2	1127.0	1071.4	935.7	794.3	723.0	663.5	605.9	545.4	495.7	446.9
15°	1143.6	1128.0	1062.6	923.0	779.6	682.0	603.0	532.8	465.4	400.1	363.0
17.5°	1225.5	1185.5	1108.4	923.0	749.4	619.6	524.0	441.0	368.8	310.3	264.4
20°	1335.8	1289.9	1207.0	957.2	726.9	573.7	443.0	338.6	263.4	208.8	173.7
22.5°	1449.0	1412.9	1288.0	970.9	700.6	512.3	349.3	244.9	175.6	140.5	122.9
25°	1584.6	1533.9	1397.3	1025.5	661.5	452.7	275.2	170.8	130.7	112.2	101.5
27.5°	1692.9	1684.1	1499.7	1058.7	632.3	404.0	217.6	135.6	108.3	94.6	87.8
30°	1829.5	1781.7	1624.6	1125.0	599.1	348.3	181.5	122.0	99.5	84.9	80.0
32.5°	1911.5	1889.0	1690.0	1162.1	562.0	302.5	156.1	107.3	90.7	80.0	75.1
35°	2030.5	1985.6	1783.6	1185.5	542.5	276.1	140.5	97.6	76.1	65.4	59.5
37.5°	2163.2	2146.6	1895.9	1184.5	514.2	260.5	129.8	90.7	72.2	60.5	53.7
40°	2298.8	2231.5	1964.2	1211.9	499.6	248.8	122.0	86.8	68.3	57.6	48.8
42.5°	2400.3	2323.2	2043.2	1202.1	482.0	228.3	119.0	81.0	65.4	52.7	44.9
45°	2427.6	2400.3	2114.4	1199.2	469.3	211.7	114.2	80.0	63.4	49.8	42.0
47.5°	2480.3	2461.8	2202.2	1204.1	459.6	199.1	102.5	82.0	60.5	46.8	40.0
50°	2503.7	2470.6	2273.5	1215.8	437.1	183.4	91.7	85.9	59.5	45.9	38.1
52.5°	2600.3	2571.1	2371.0	1248.9	418.6	162.9	81.0	82.0	61.5	42.9	36.1
55°	2695.0	2661.8	2521.3	1325.1	392.2	146.4	69.3	72.2	58.5	39.0	32.2
57.5°	2824.8	2770.1	2621.8	1356.3	368.8	123.9	61.5	59.5	54.6	35.1	28.3
60°	2844.3	2866.7	2607.2	1336.8	344.4	109.3	53.7	45.9	58.5	31.2	24.4
62.5°	2909.6	2816.0	2538.9	1291.9	326.9	100.5	47.8	38.1	50.7	27.3	20.5
65°	2783.8	2714.5	2378.8	1147.5	304.4	101.5	42.0	31.2	32.2	22.4	16.6
67.5°	2599.4	2544.7	2113.4	990.4	282.0	99.5	37.1	27.3	24.4	19.5	14.6
70°	2281.3	2163.2	1795.4	804.0	248.8	92.7	31.2	24.4	20.5	15.6	10.7
72.5°	1659.7	1611.9	1288.0	621.5	223.4	83.9	29.3	20.5	17.6	11.7	8.8
75°	1117.2	1038.2	812.8	407.9	179.5	73.2	24.4	18.5	13.7	8.8	6.8
77.5°	590.3	558.1	460.5	194.2	99.5	34.2	13.7	10.7	7.8	6.8	3.9
80°	255.6	227.3	199.1	79.0	35.1	15.6	8.8	5.9	4.9	3.9	2.0
82.5°	130.7	124.9	103.4	34.2	20.5	11.7	4.9	3.9	2.9	2.0	1.0
85°	64.4	66.4	54.6	10.7	11.7	6.8	1.0	1.0	0.0	0.0	0.0
87.5°	4.9	4.9	3.9	2.0	2.9	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: P677386
 CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1210.9	1224.6	1201.1	1215.8	1208.9	1211.9	1214.8	1207.0	1208.9	1236.3	1237.2
5°	969.9	996.2	986.5	1000.1	1023.5	1011.8	1022.6	1020.6	1022.6	1026.5	1044.0
7.5°	691.8	684.0	702.5	738.6	780.6	806.0	793.3	786.4	782.5	772.8	784.5
10°	522.0	518.1	513.2	524.0	551.3	579.6	595.2	568.9	554.2	535.7	528.8
12.5°	433.2	408.8	395.2	378.6	386.4	411.8	412.7	387.4	364.0	354.2	364.9
15°	341.5	324.9	300.5	277.1	265.4	284.9	268.3	243.9	213.7	209.8	208.8
17.5°	243.9	234.2	216.6	206.9	193.2	188.3	170.8	133.7	112.2	106.4	108.3
20°	165.9	158.1	157.1	148.3	142.5	138.6	110.3	85.9	79.0	80.0	81.0
22.5°	122.9	119.0	114.2	113.2	108.3	103.4	81.0	72.2	67.3	67.3	70.3
25°	100.5	98.5	93.7	91.7	89.8	82.9	68.3	61.5	59.5	57.6	60.5
27.5°	85.9	84.9	82.0	79.0	77.1	70.3	59.5	53.7	51.7	51.7	51.7
30°	77.1	77.1	73.2	67.3	67.3	59.5	50.7	46.8	44.9	44.9	43.9
32.5°	72.2	70.3	65.4	61.5	58.5	50.7	44.9	41.0	38.1	38.1	39.0
35°	58.5	58.5	57.6	54.6	50.7	42.9	38.1	34.2	32.2	31.2	32.2
37.5°	51.7	48.8	44.9	45.9	43.9	37.1	32.2	29.3	26.3	26.3	26.3
40°	46.8	43.9	40.0	37.1	36.1	33.2	28.3	23.4	20.5	19.5	19.5
42.5°	42.0	40.0	34.2	29.3	28.3	28.3	21.5	17.6	14.6	14.6	14.6
45°	39.0	36.1	31.2	25.4	20.5	21.5	17.6	12.7	10.7	9.8	9.8
47.5°	37.1	34.2	27.3	21.5	15.6	15.6	12.7	8.8	6.8	5.9	5.9
50°	34.2	31.2	24.4	17.6	11.7	9.8	7.8	4.9	2.9	2.0	2.0
52.5°	32.2	29.3	21.5	14.6	9.8	6.8	4.9	1.0	0.0	0.0	0.0
55°	29.3	25.4	18.5	11.7	7.8	3.9	1.0	0.0	0.0	0.0	0.0
57.5°	25.4	22.4	14.6	8.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0
60°	21.5	18.5	11.7	6.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17.6	15.6	8.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14.6	11.7	6.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.8	6.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.8	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.9	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: P677386
 CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1241.1	1270.4	1297.7	1305.5	1327.0	1386.5	1386.5	1414.8	1465.6	1484.1	1488.0
5°	1047.0	1078.2	1084.0	1144.5	1172.8	1233.3	1273.3	1369.0	1426.5	1462.6	1485.1
7.5°	796.2	806.9	829.4	886.0	941.6	1014.8	1090.9	1212.8	1314.3	1355.3	1431.4
10°	547.4	579.6	628.4	679.1	766.0	846.9	945.5	1060.6	1185.5	1236.3	1301.6
12.5°	368.8	413.7	491.8	564.0	644.0	725.9	819.6	973.8	1115.3	1185.5	1250.9
15°	215.6	270.3	337.6	454.7	561.0	652.8	746.4	902.6	1074.3	1165.0	1245.0
17.5°	109.3	125.9	181.5	283.0	423.5	573.7	713.3	912.3	1105.5	1216.7	1283.1
20°	82.0	86.8	102.5	150.3	289.8	474.2	682.0	927.0	1192.4	1328.0	1364.1
22.5°	71.2	75.1	82.0	97.6	162.9	363.0	638.1	963.1	1310.4	1438.2	1514.3
25°	60.5	64.4	70.3	80.0	104.4	246.9	584.5	1001.1	1415.8	1576.8	1648.0
27.5°	52.7	55.6	61.5	69.3	84.9	157.1	491.8	1051.8	1576.8	1744.6	1763.2
30°	44.9	47.8	52.7	61.5	72.2	111.2	361.0	1058.7	1665.6	1817.8	1869.5
32.5°	39.0	40.0	45.9	53.7	60.5	87.8	253.7	1065.5	1731.0	1912.4	1923.2
35°	32.2	34.2	40.0	44.9	52.7	69.3	192.2	1031.4	1815.8	2010.0	2007.1
37.5°	26.3	29.3	33.2	37.1	42.9	58.5	153.2	967.9	1922.2	2161.3	2069.5
40°	20.5	23.4	27.3	32.2	36.1	52.7	115.1	872.3	2033.4	2235.4	2137.8
42.5°	14.6	16.6	20.5	25.4	32.2	43.9	82.9	759.1	2077.3	2322.3	2219.8
45°	10.7	12.7	15.6	21.5	33.2	35.1	57.6	655.7	2124.2	2360.3	2201.3
47.5°	5.9	7.8	11.7	18.5	29.3	26.3	41.0	563.0	2177.8	2394.5	2215.9
50°	2.0	2.9	6.8	19.5	23.4	20.5	32.2	513.2	2230.5	2401.3	2245.2
52.5°	0.0	0.0	3.9	20.5	17.6	15.6	28.3	493.7	2216.9	2422.8	2226.6
55°	0.0	0.0	1.0	8.8	9.8	11.7	23.4	492.7	2313.5	2429.6	2328.1
57.5°	0.0	0.0	0.0	2.9	5.9	9.8	20.5	461.5	2374.9	2599.4	2464.7
60°	0.0	0.0	0.0	1.0	3.9	6.8	15.6	434.2	2437.4	2675.5	2611.1
62.5°	0.0	0.0	0.0	0.0	1.0	2.9	10.7	392.2	2311.5	2669.6	2752.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	6.8	310.3	2079.3	2530.1	2674.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	214.7	1820.7	2354.5	2531.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	129.8	1469.5	2064.7	2146.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.6	1048.9	1639.2	1761.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	648.9	1198.2	1348.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	420.5	907.4	1023.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	224.4	568.9	661.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.6	345.4	398.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	209.8	239.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.2	42.9
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: P677386

CATALOG NUMBER: CCW-SA-1E-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1490.0	1518.2	1529.0	1512.4	1514.3	1480.2	1475.3	1427.5	1408.0	1411.9
5°	1558.3	1599.2	1621.7	1603.1	1561.2	1495.8	1436.3	1379.7	1344.6	1327.0
7.5°	1542.6	1588.5	1616.8	1634.4	1586.5	1481.2	1390.4	1284.1	1239.2	1240.2
10°	1456.8	1552.4	1610.0	1587.5	1565.1	1459.7	1319.2	1204.1	1164.1	1168.0
12.5°	1387.5	1493.9	1528.0	1545.6	1499.7	1415.8	1321.1	1189.4	1144.5	1117.2
15°	1344.6	1423.6	1425.6	1452.9	1434.3	1434.3	1341.6	1212.8	1173.8	1143.6
17.5°	1344.6	1362.1	1360.2	1369.9	1401.2	1438.2	1393.4	1307.5	1230.4	1225.5
20°	1374.8	1320.2	1307.5	1311.4	1337.7	1448.0	1507.5	1400.2	1351.4	1335.8
22.5°	1445.1	1325.1	1248.0	1234.3	1315.3	1447.0	1580.7	1546.5	1461.7	1449.0
25°	1541.7	1316.3	1232.4	1214.8	1276.3	1482.1	1681.2	1688.0	1610.9	1584.6
27.5°	1633.4	1355.3	1230.4	1226.5	1307.5	1474.3	1750.5	1801.2	1714.4	1692.9
30°	1664.6	1394.3	1266.5	1214.8	1319.2	1502.6	1748.5	1881.2	1824.6	1829.5
32.5°	1701.7	1433.4	1270.4	1249.9	1369.0	1548.5	1804.1	2010.0	1969.0	1911.5
35°	1756.3	1486.0	1307.5	1288.9	1404.1	1589.5	1815.8	2104.7	2097.8	2030.5
37.5°	1803.2	1537.8	1384.6	1387.5	1511.4	1655.8	1867.6	2220.8	2209.1	2163.2
40°	1836.3	1610.0	1504.6	1512.4	1605.1	1730.0	1959.3	2279.3	2366.2	2298.8
42.5°	1841.2	1674.4	1642.2	1704.6	1791.5	1845.1	1996.4	2319.3	2444.2	2400.3
45°	1859.8	1776.8	1866.6	1912.4	1983.7	1946.6	1994.4	2387.6	2450.1	2427.6
47.5°	1932.0	1963.2	2076.4	2215.9	2241.3	2119.3	2041.2	2398.4	2483.3	2480.3
50°	2007.1	2163.2	2322.3	2415.0	2447.1	2238.3	2085.2	2389.6	2527.2	2503.7
52.5°	2091.0	2336.9	2566.2	2680.4	2662.8	2370.1	2134.9	2460.8	2608.1	2600.3
55°	2143.7	2415.0	2723.3	2882.3	2868.7	2517.4	2293.0	2563.3	2714.5	2695.0
57.5°	2283.2	2541.8	2879.4	2953.6	2989.7	2710.6	2403.2	2731.1	2803.3	2824.8
60°	2398.4	2624.7	2920.4	3027.7	3040.4	2825.7	2596.4	2903.8	2916.5	2844.3
62.5°	2567.2	2656.9	2833.5	2930.1	2995.5	2891.1	2770.1	2996.5	2914.5	2909.6
65°	2691.1	2551.6	2671.6	2725.2	2767.2	2791.6	2944.8	3059.9	2878.4	2783.8
67.5°	2621.8	2352.5	2330.1	2333.0	2345.7	2493.0	2886.2	2904.8	2677.4	2599.4
70°	2307.6	1930.0	1899.8	1923.2	1859.8	2037.3	2649.1	2640.3	2362.3	2281.3
72.5°	1866.6	1407.0	1355.3	1387.5	1402.1	1590.5	2228.6	2002.2	1723.2	1659.7
75°	1483.1	1031.4	870.4	948.4	998.2	1158.2	1740.7	1360.2	1203.1	1117.2
77.5°	1165.0	780.6	677.2	645.9	691.8	842.1	1266.5	714.2	630.3	590.3
80°	738.6	573.7	622.5	577.6	597.2	601.1	659.6	324.9	258.6	255.6
82.5°	444.9	392.2	466.4	256.6	467.4	417.6	274.2	147.3	130.7	130.7
85°	315.2	243.0	161.0	104.4	207.8	229.3	106.4	76.1	66.4	64.4
87.5°	158.1	75.1	36.1	23.4	26.3	42.9	12.7	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

(END OF REPORT)