

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: P677385

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677385
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-722-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

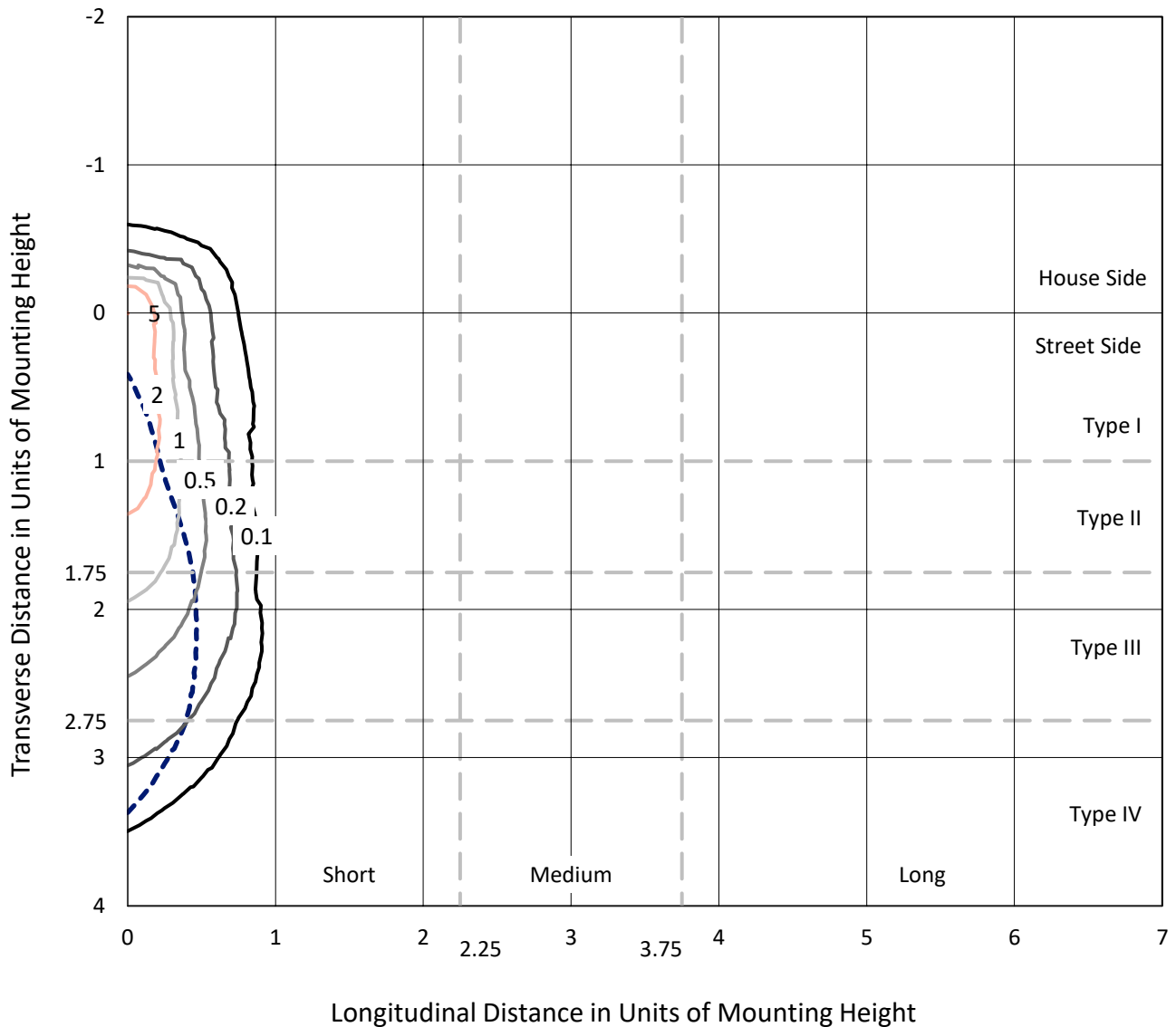
Lumens per Lamp: N/A
Luminaire Lumens: 2952.1 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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: P677385
 CATALOG NUMBER: CCW-SA-1D-722-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

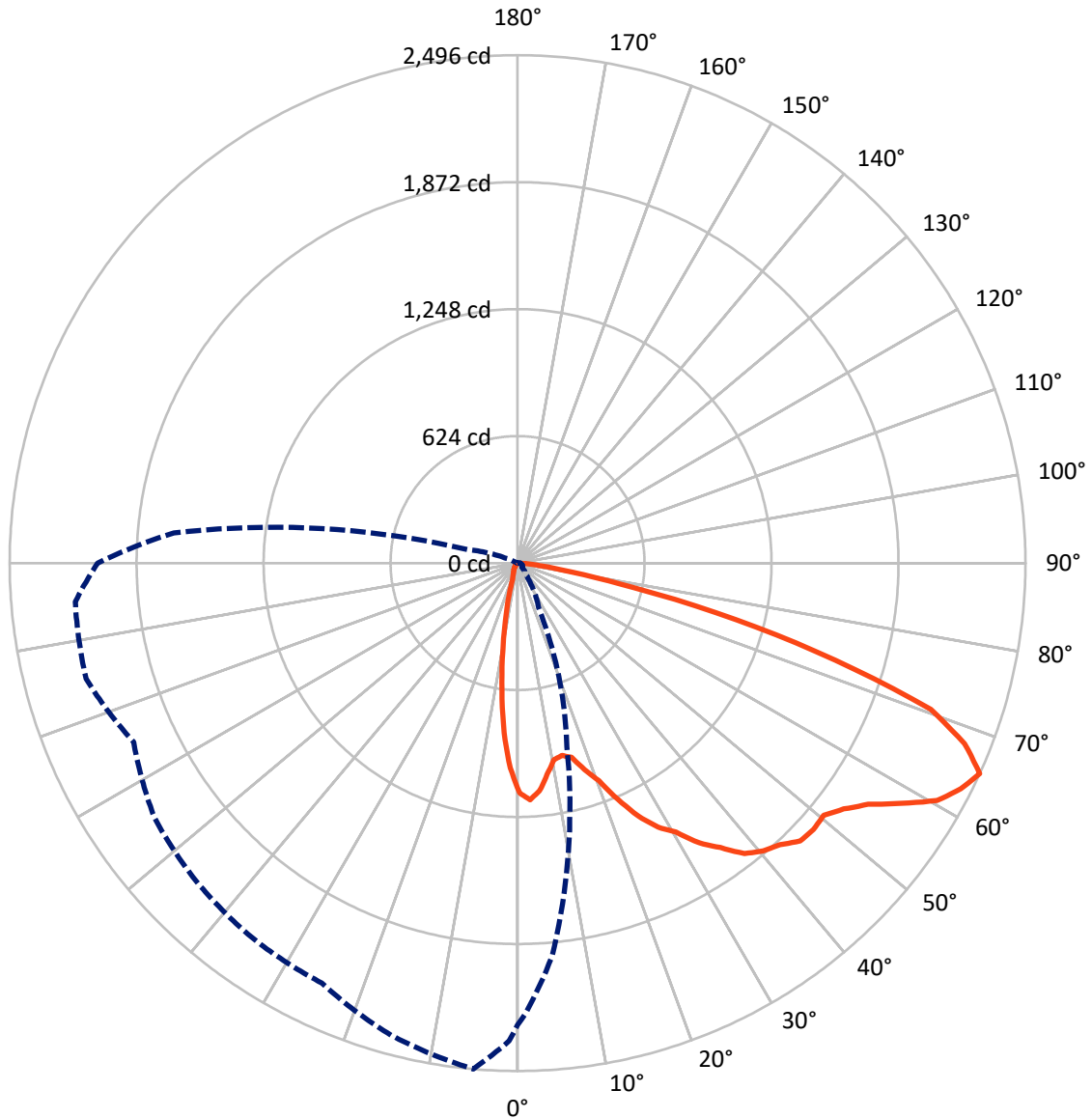
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P677385
CATALOG NUMBER: CCW-SA-1D-722-U-SLR-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P677385
 CATALOG NUMBER: CCW-SA-1D-722-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.3	0.0	383.3
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2568.8	0.0	2568.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	2952.1	0.0	2952.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	2.9
10°-20°	165.5	5.6
20°-30°	230.6	7.8
30°-40°	327.6	11.1
40°-50°	454.3	15.4
50°-60°	619.0	21.0
60°-70°	680.5	23.1
70°-80°	334.5	11.3
80°-90°	54.6	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°	2952.1	100.0
0°-180°	2952.1	100.0



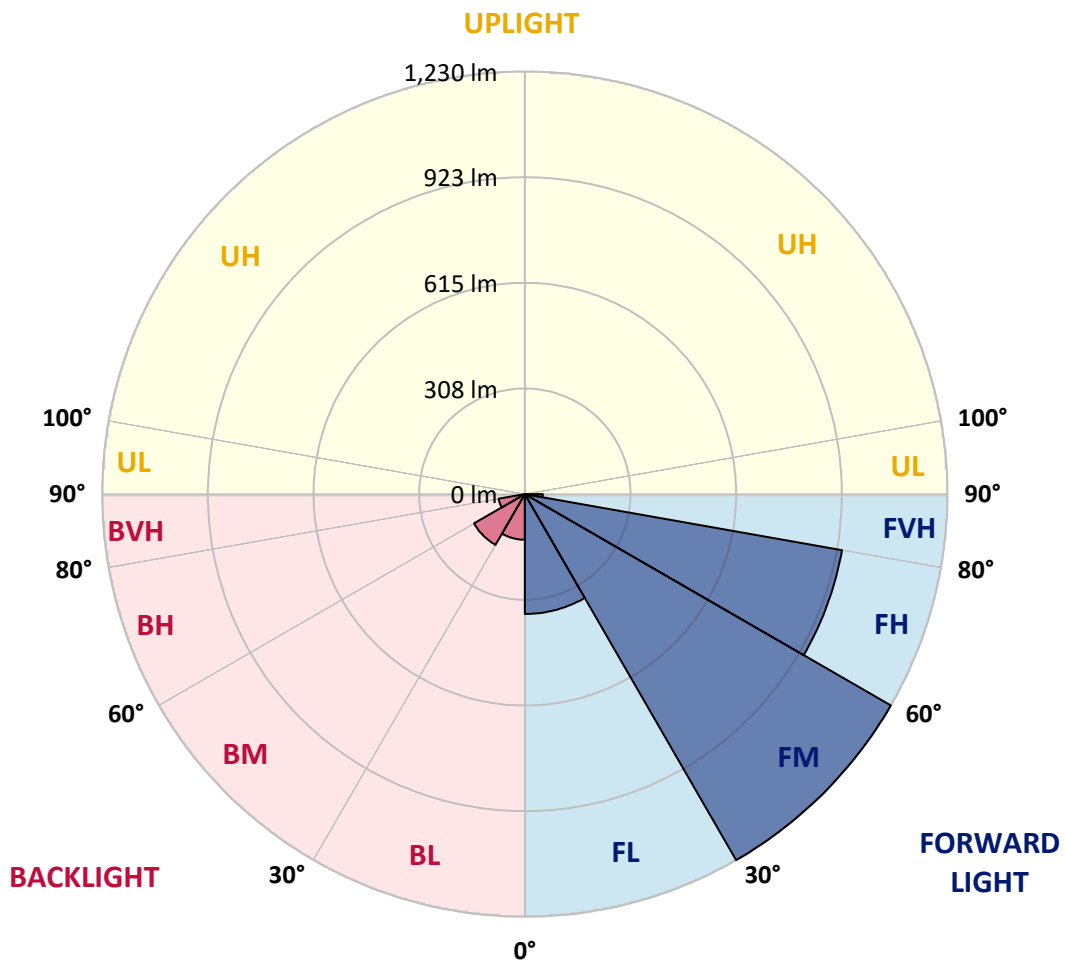
REPORT NUMBER: P677385
 CATALOG NUMBER: CCW-SA-1D-722-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.9	11.8			
FM (30°-60°)	1230.2	41.7			
FH (60°-80°)	937.5	31.8			G1/1800
FVH (80°-90°)	52.2	1.8			G1/100
BL (0°-30°)	132.7	4.5	B1/500		
BM (30°-60°)	170.7	5.8	B0/220		
BH (60°-80°)	77.5	2.6	B0/110		G0/110
BVH (80°-90°)	2.5	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: P677385
 CATALOG NUMBER: CCW-SA-1D-722-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6
2.5°	1151.7	1165.2	1152.5	1107.9	1099.9	1078.4	1045.8	1043.4	1009.2	1013.2	994.9
5°	1082.4	1096.0	1068.9	1010.0	955.1	911.3	885.0	838.1	827.7	804.7	804.7
7.5°	1011.6	1010.8	964.6	915.3	833.3	752.9	716.3	648.7	608.9	587.4	566.7
10°	952.7	940.0	911.3	809.4	720.3	636.7	591.4	546.8	505.4	469.6	433.8
12.5°	911.3	919.3	873.9	763.3	647.9	589.8	541.2	494.3	444.9	404.3	364.5
15°	932.8	920.1	866.7	752.9	635.9	556.3	491.9	434.6	379.6	326.3	296.1
17.5°	999.6	967.0	904.1	752.9	611.2	505.4	427.4	359.7	300.8	253.1	215.7
20°	1089.6	1052.2	984.5	780.8	592.9	468.0	361.3	276.2	214.9	170.3	141.7
22.5°	1181.9	1152.5	1050.6	791.9	571.5	417.8	284.9	199.8	143.3	114.6	100.3
25°	1292.5	1251.2	1139.7	836.5	539.6	369.3	224.4	139.3	106.7	91.5	82.8
27.5°	1380.9	1373.7	1223.3	863.5	515.7	329.5	177.5	110.6	88.3	77.2	71.6
30°	1492.3	1453.3	1325.2	917.7	488.7	284.1	148.0	99.5	81.2	69.2	65.3
32.5°	1559.2	1540.9	1378.5	947.9	458.4	246.7	127.3	87.5	74.0	65.3	61.3
35°	1656.3	1619.7	1454.9	967.0	442.5	225.2	114.6	79.6	62.1	53.3	48.5
37.5°	1764.5	1751.0	1546.4	966.2	419.4	212.5	105.9	74.0	58.9	49.3	43.8
40°	1875.1	1820.2	1602.1	988.5	407.5	203.0	99.5	70.8	55.7	47.0	39.8
42.5°	1957.9	1895.0	1666.6	980.5	393.2	186.2	97.1	66.1	53.3	43.0	36.6
45°	1980.2	1957.9	1724.7	978.2	382.8	172.7	93.1	65.3	51.7	40.6	34.2
47.5°	2023.2	2008.1	1796.3	982.1	374.9	162.4	83.6	66.9	49.3	38.2	32.6
50°	2042.3	2015.2	1854.4	991.7	356.6	149.6	74.8	70.0	48.5	37.4	31.0
52.5°	2121.1	2097.2	1934.0	1018.7	341.4	132.9	66.1	66.9	50.1	35.0	29.4
55°	2198.3	2171.2	2056.6	1080.8	320.0	119.4	56.5	58.9	47.8	31.8	26.3
57.5°	2304.1	2259.6	2138.6	1106.3	300.8	101.1	50.1	48.5	44.6	28.7	23.1
60°	2320.0	2338.3	2126.6	1090.4	281.0	89.1	43.8	37.4	47.8	25.5	19.9
62.5°	2373.4	2297.0	2070.9	1053.8	266.6	82.0	39.0	31.0	41.4	22.3	16.7
65°	2270.7	2214.2	1940.4	936.0	248.3	82.8	34.2	25.5	26.3	18.3	13.5
67.5°	2120.3	2075.7	1723.9	807.8	230.0	81.2	30.2	22.3	19.9	15.9	11.9
70°	1860.8	1764.5	1464.5	655.8	203.0	75.6	25.5	19.9	16.7	12.7	8.8
72.5°	1353.8	1314.8	1050.6	507.0	182.3	68.4	23.9	16.7	14.3	9.6	7.2
75°	911.3	846.8	663.0	332.7	146.4	59.7	19.9	15.1	11.1	7.2	5.6
77.5°	481.5	455.3	375.7	158.4	81.2	27.9	11.1	8.8	6.4	5.6	3.2
80°	208.5	185.4	162.4	64.5	28.7	12.7	7.2	4.8	4.0	3.2	1.6
82.5°	106.7	101.9	84.4	27.9	16.7	9.6	4.0	3.2	2.4	1.6	0.8
85°	52.5	54.1	44.6	8.8	9.6	5.6	0.8	0.8	0.0	0.0	0.0
87.5°	4.0	4.0	3.2	1.6	2.4	0.8	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: P677385
 CATALOG NUMBER: CCW-SA-1D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6
2.5°	987.7	998.9	979.8	991.7	986.1	988.5	990.9	984.5	986.1	1008.4	1009.2
5°	791.1	812.6	804.7	815.8	834.9	825.3	834.1	832.5	834.1	837.3	851.6
7.5°	564.3	557.9	573.0	602.5	636.7	657.4	647.1	641.5	638.3	630.4	639.9
10°	425.8	422.6	418.6	427.4	449.7	472.8	485.5	464.0	452.1	436.9	431.4
12.5°	353.4	333.5	322.3	308.8	315.2	335.9	336.7	316.0	296.9	288.9	297.7
15°	278.6	265.0	245.1	226.0	216.5	232.4	218.9	199.0	174.3	171.1	170.3
17.5°	199.0	191.0	176.7	168.7	157.6	153.6	139.3	109.0	91.5	86.8	88.3
20°	135.3	128.9	128.1	121.0	116.2	113.0	89.9	70.0	64.5	65.3	66.1
22.5°	100.3	97.1	93.1	92.3	88.3	84.4	66.1	58.9	54.9	54.9	57.3
25°	82.0	80.4	76.4	74.8	73.2	67.7	55.7	50.1	48.5	47.0	49.3
27.5°	70.0	69.2	66.9	64.5	62.9	57.3	48.5	43.8	42.2	42.2	42.2
30°	62.9	62.9	59.7	54.9	54.9	48.5	41.4	38.2	36.6	36.6	35.8
32.5°	58.9	57.3	53.3	50.1	47.8	41.4	36.6	33.4	31.0	31.0	31.8
35°	47.8	47.8	47.0	44.6	41.4	35.0	31.0	27.9	26.3	25.5	26.3
37.5°	42.2	39.8	36.6	37.4	35.8	30.2	26.3	23.9	21.5	21.5	21.5
40°	38.2	35.8	32.6	30.2	29.4	27.1	23.1	19.1	16.7	15.9	15.9
42.5°	34.2	32.6	27.9	23.9	23.1	23.1	17.5	14.3	11.9	11.9	11.9
45°	31.8	29.4	25.5	20.7	16.7	17.5	14.3	10.3	8.8	8.0	8.0
47.5°	30.2	27.9	22.3	17.5	12.7	12.7	10.3	7.2	5.6	4.8	4.8
50°	27.9	25.5	19.9	14.3	9.6	8.0	6.4	4.0	2.4	1.6	1.6
52.5°	26.3	23.9	17.5	11.9	8.0	5.6	4.0	0.8	0.0	0.0	0.0
55°	23.9	20.7	15.1	9.6	6.4	3.2	0.8	0.0	0.0	0.0	0.0
57.5°	20.7	18.3	11.9	7.2	4.0	0.8	0.0	0.0	0.0	0.0	0.0
60°	17.5	15.1	9.6	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14.3	12.7	7.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11.9	9.6	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10.3	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.0	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.6	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	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: P677385
 CATALOG NUMBER: CCW-SA-1D-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6
2.5°	1012.4	1036.3	1058.5	1064.9	1082.4	1131.0	1131.0	1154.1	1195.4	1210.6	1213.7
5°	854.0	879.5	884.2	933.6	956.7	1006.0	1038.6	1116.6	1163.6	1193.1	1211.4
7.5°	649.5	658.2	676.5	722.7	768.0	827.7	889.8	989.3	1072.1	1105.5	1167.6
10°	446.5	472.8	512.6	553.9	624.8	690.8	771.2	865.1	967.0	1008.4	1061.7
12.5°	300.8	337.5	401.1	460.0	525.3	592.1	668.6	794.3	909.7	967.0	1020.3
15°	175.9	220.5	275.4	370.9	457.6	532.5	608.9	736.2	876.3	950.3	1015.6
17.5°	89.1	102.7	148.0	230.8	345.4	468.0	581.8	744.2	901.8	992.5	1046.6
20°	66.9	70.8	83.6	122.6	236.4	386.8	556.3	756.1	972.6	1083.2	1112.7
22.5°	58.1	61.3	66.9	79.6	132.9	296.1	520.5	785.6	1068.9	1173.2	1235.2
25°	49.3	52.5	57.3	65.3	85.2	201.4	476.7	816.6	1154.8	1286.2	1344.3
27.5°	43.0	45.4	50.1	56.5	69.2	128.1	401.1	858.0	1286.2	1423.1	1438.2
30°	36.6	39.0	43.0	50.1	58.9	90.7	294.5	863.5	1358.6	1482.8	1524.9
32.5°	31.8	32.6	37.4	43.8	49.3	71.6	206.9	869.1	1411.9	1560.0	1568.7
35°	26.3	27.9	32.6	36.6	43.0	56.5	156.8	841.3	1481.2	1639.6	1637.2
37.5°	21.5	23.9	27.1	30.2	35.0	47.8	125.0	789.5	1567.9	1762.9	1688.1
40°	16.7	19.1	22.3	26.3	29.4	43.0	93.9	711.5	1658.7	1823.4	1743.8
42.5°	11.9	13.5	16.7	20.7	26.3	35.8	67.7	619.2	1694.5	1894.2	1810.7
45°	8.8	10.3	12.7	17.5	27.1	28.7	47.0	534.8	1732.7	1925.3	1795.5
47.5°	4.8	6.4	9.6	15.1	23.9	21.5	33.4	459.2	1776.4	1953.1	1807.5
50°	1.6	2.4	5.6	15.9	19.1	16.7	26.3	418.6	1819.4	1958.7	1831.4
52.5°	0.0	0.0	3.2	16.7	14.3	12.7	23.1	402.7	1808.3	1976.2	1816.2
55°	0.0	0.0	0.8	7.2	8.0	9.6	19.1	401.9	1887.1	1981.8	1899.0
57.5°	0.0	0.0	0.0	2.4	4.8	8.0	16.7	376.5	1937.2	2120.3	2010.4
60°	0.0	0.0	0.0	0.8	3.2	5.6	12.7	354.2	1988.2	2182.4	2129.8
62.5°	0.0	0.0	0.0	0.0	0.8	2.4	8.8	320.0	1885.5	2177.6	2245.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	253.1	1696.1	2063.8	2181.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.2	175.1	1485.1	1920.5	2064.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.9	1198.6	1684.1	1751.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.4	855.6	1337.1	1436.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	529.3	977.4	1099.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	343.0	740.2	834.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	183.1	464.0	539.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.6	281.7	324.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	171.1	195.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	35.0
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: P677385

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6	1128.6
2.5°	1215.3	1238.4	1247.2	1233.6	1235.2	1207.4	1203.4	1164.4	1148.5	1151.7
5°	1271.0	1304.5	1322.8	1307.7	1273.4	1220.1	1171.6	1125.4	1096.7	1082.4
7.5°	1258.3	1295.7	1318.8	1333.1	1294.1	1208.2	1134.2	1047.4	1010.8	1011.6
10°	1188.3	1266.3	1313.2	1294.9	1276.6	1190.7	1076.1	982.1	949.5	952.7
12.5°	1131.8	1218.5	1246.4	1260.7	1223.3	1154.8	1077.6	970.2	933.6	911.3
15°	1096.7	1161.2	1162.8	1185.1	1170.0	1170.0	1094.4	989.3	957.5	932.8
17.5°	1096.7	1111.1	1109.5	1117.4	1142.9	1173.2	1136.5	1066.5	1003.6	999.6
20°	1121.4	1076.9	1066.5	1069.7	1091.2	1181.1	1229.7	1142.1	1102.3	1089.6
22.5°	1178.7	1080.8	1018.0	1006.8	1072.9	1180.3	1289.4	1261.5	1192.3	1181.9
25°	1257.5	1073.7	1005.2	990.9	1041.0	1209.0	1371.3	1376.9	1314.0	1292.5
27.5°	1332.3	1105.5	1003.6	1000.4	1066.5	1202.6	1427.8	1469.2	1398.4	1380.9
30°	1357.8	1137.3	1033.1	990.9	1076.1	1225.7	1426.2	1534.5	1488.3	1492.3
32.5°	1388.0	1169.2	1036.3	1019.5	1116.6	1263.1	1471.6	1639.6	1606.1	1559.2
35°	1432.6	1212.2	1066.5	1051.4	1145.3	1296.5	1481.2	1716.8	1711.2	1656.3
37.5°	1470.8	1254.3	1129.4	1131.8	1232.8	1350.6	1523.3	1811.5	1801.9	1764.5
40°	1497.9	1313.2	1227.3	1233.6	1309.3	1411.1	1598.2	1859.2	1930.1	1875.1
42.5°	1501.9	1365.8	1339.5	1390.4	1461.3	1505.0	1628.4	1891.9	1993.7	1957.9
45°	1517.0	1449.3	1522.6	1560.0	1618.1	1587.8	1626.8	1947.6	1998.5	1980.2
47.5°	1575.9	1601.3	1693.7	1807.5	1828.2	1728.7	1665.0	1956.3	2025.6	2023.2
50°	1637.2	1764.5	1894.2	1969.8	1996.1	1825.8	1700.8	1949.2	2061.4	2042.3
52.5°	1705.6	1906.2	2093.2	2186.3	2172.0	1933.2	1741.4	2007.3	2127.4	2121.1
55°	1748.6	1969.8	2221.4	2351.1	2339.9	2053.4	1870.4	2090.8	2214.2	2198.3
57.5°	1862.4	2073.3	2348.7	2409.2	2438.6	2211.0	1960.3	2227.7	2286.6	2304.1
60°	1956.3	2141.0	2382.1	2469.7	2480.0	2304.9	2117.9	2368.6	2378.9	2320.0
62.5°	2094.0	2167.2	2311.3	2390.1	2443.4	2358.2	2259.6	2444.2	2377.3	2373.4
65°	2195.1	2081.3	2179.2	2222.9	2257.2	2277.1	2402.0	2495.9	2347.9	2270.7
67.5°	2138.6	1918.9	1900.6	1903.0	1913.3	2033.5	2354.3	2369.4	2183.9	2120.3
70°	1882.3	1574.3	1549.6	1568.7	1517.0	1661.8	2160.9	2153.7	1926.9	1860.8
72.5°	1522.6	1147.7	1105.5	1131.8	1143.7	1297.3	1817.8	1633.2	1405.6	1353.8
75°	1209.8	841.3	709.9	773.6	814.2	944.7	1419.9	1109.5	981.3	911.3
77.5°	950.3	636.7	552.4	526.9	564.3	686.9	1033.1	582.6	514.2	481.5
80°	602.5	468.0	507.8	471.2	487.1	490.3	538.0	265.0	210.9	208.5
82.5°	362.9	320.0	380.4	209.3	381.2	340.6	223.6	120.2	106.7	106.7
85°	257.1	198.2	131.3	85.2	169.5	187.0	86.8	62.1	54.1	52.5
87.5°	128.9	61.3	29.4	19.1	21.5	35.0	10.3	4.8	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)