

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: P677383

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677383
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-722-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

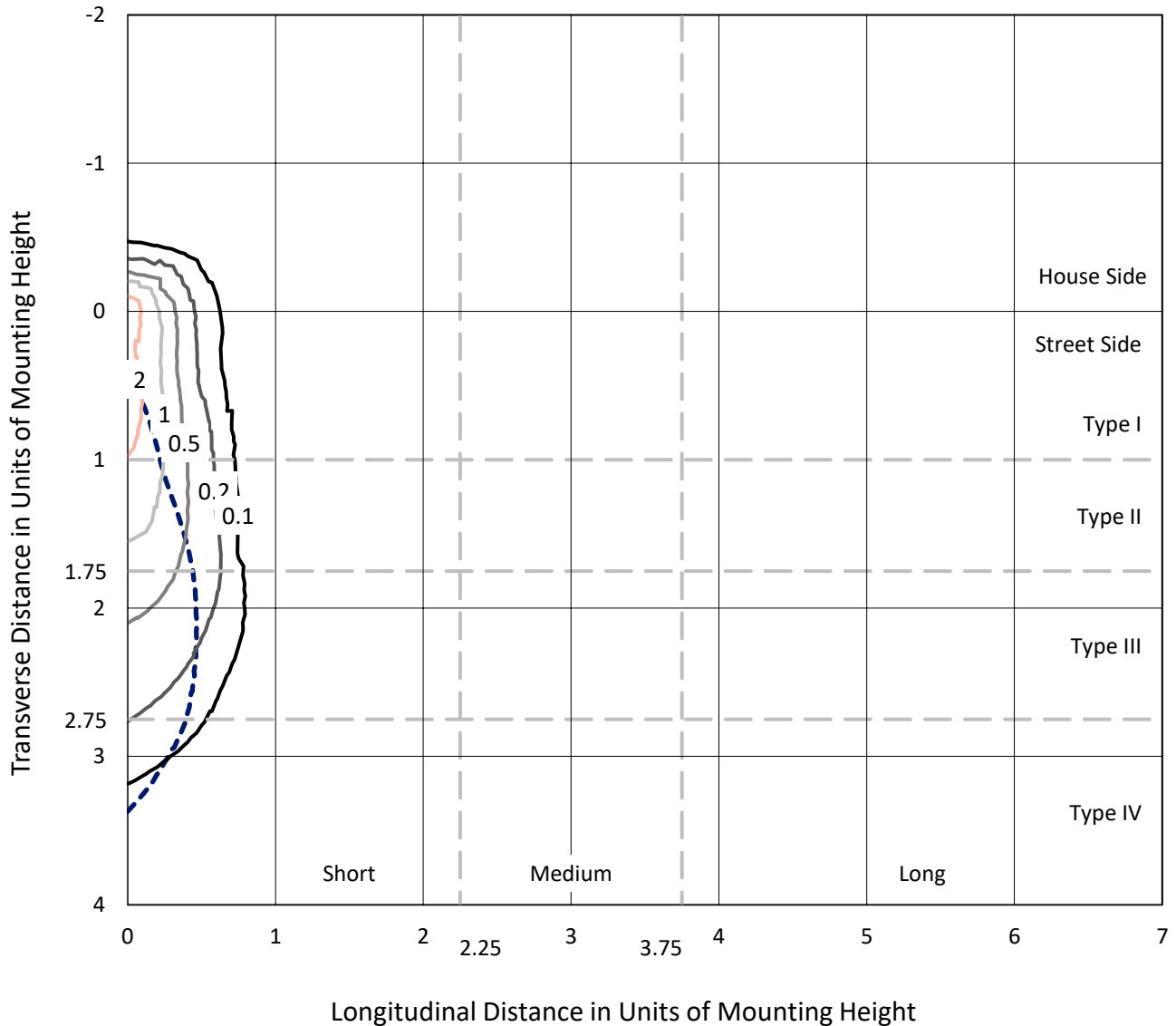
Lumens per Lamp: N/A
Luminaire Lumens: 1828.2 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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: P677383
 CATALOG NUMBER: CCW-SA-1B-722-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

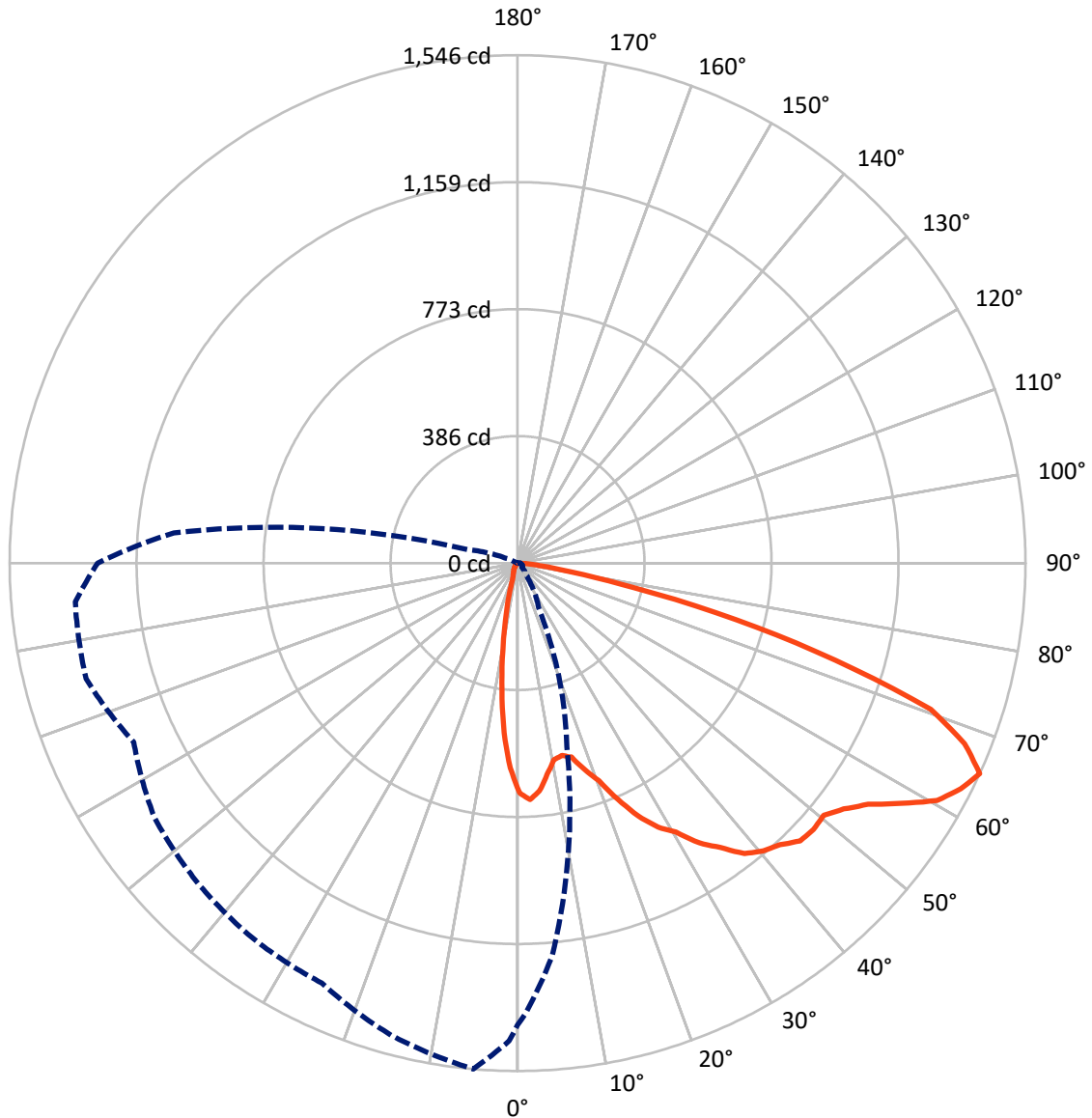
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P677383
CATALOG NUMBER: CCW-SA-1B-722-U-SLR-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P677383
 CATALOG NUMBER: CCW-SA-1B-722-U-SLR-HSS

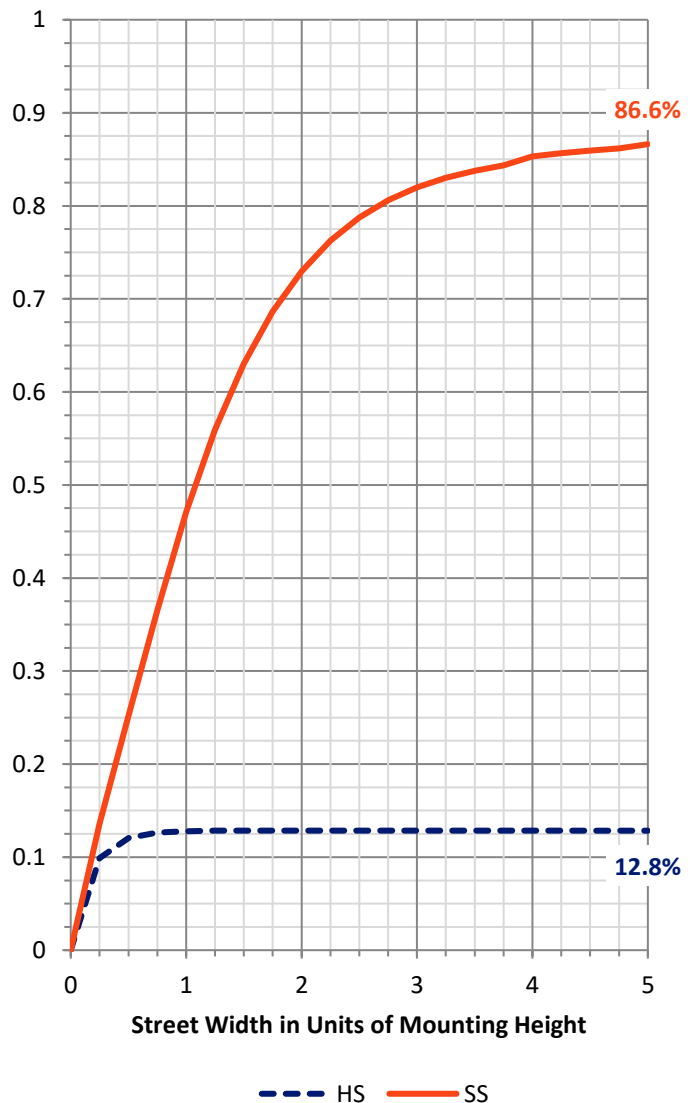
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	237.4	0.0	237.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	1590.8	0.0	1590.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	1828.2	0.0	1828.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	2.9
10°-20°	102.5	5.6
20°-30°	142.8	7.8
30°-40°	202.9	11.1
40°-50°	281.3	15.4
50°-60°	383.3	21.0
60°-70°	421.4	23.1
70°-80°	207.1	11.3
80°-90°	33.8	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°	1828.2	100.0
0°-180°	1828.2	100.0



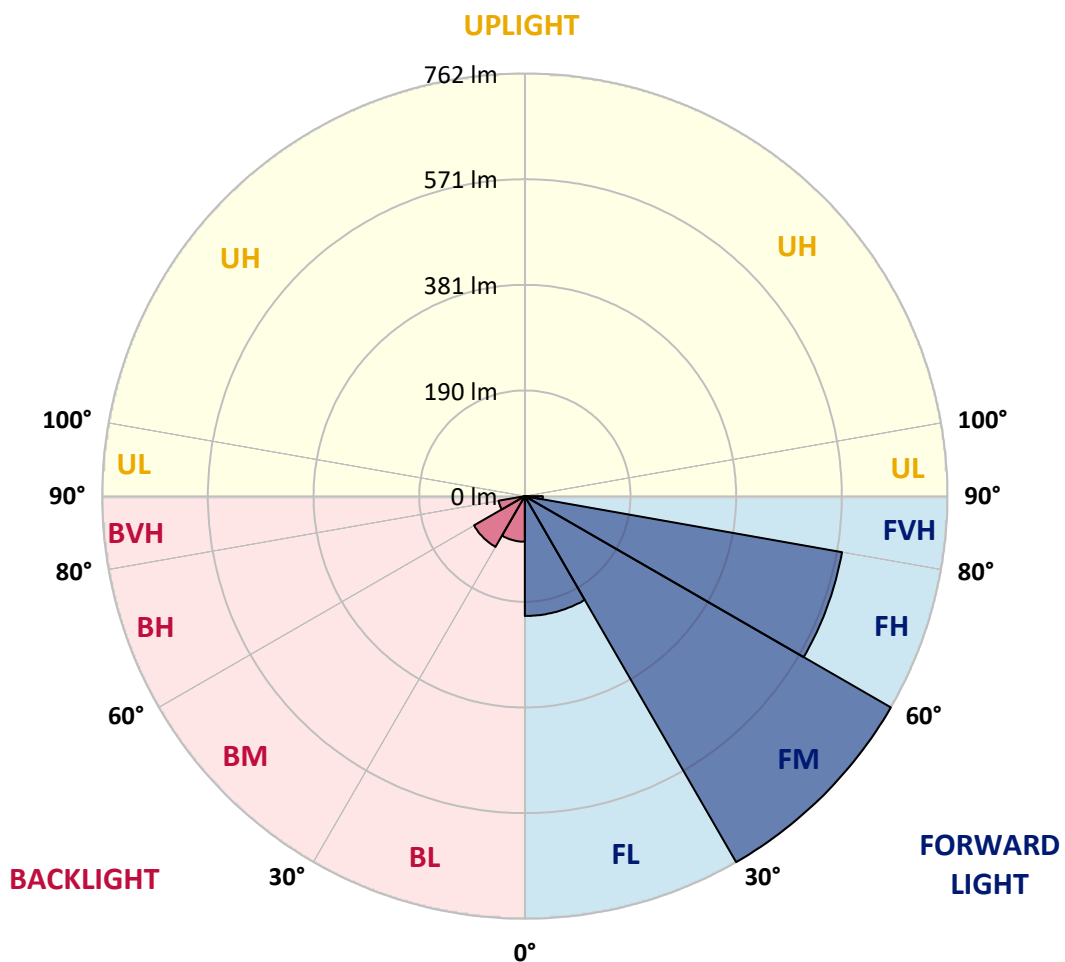
REPORT NUMBER: P677383
 CATALOG NUMBER: CCW-SA-1B-722-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.0	11.8			
FM (30°-60°)	761.8	41.7			
FH (60°-80°)	580.6	31.8			G0/660
FVH (80°-90°)	32.3	1.8			G1/100
BL (0°-30°)	82.2	4.5	B0/110		
BM (30°-60°)	105.7	5.8	B0/220		
BH (60°-80°)	48.0	2.6	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P677383

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	713.2	721.6	713.7	686.1	681.2	667.8	647.6	646.2	625.0	627.4	616.1
5°	670.3	678.7	661.9	625.5	591.5	564.3	548.1	519.0	512.6	498.3	498.3
7.5°	626.4	626.0	597.4	566.8	516.0	466.3	443.6	401.7	377.1	363.7	350.9
10°	590.0	582.1	564.3	501.3	446.1	394.3	366.2	338.6	313.0	290.8	268.6
12.5°	564.3	569.3	541.2	472.7	401.2	365.2	335.2	306.1	275.5	250.4	225.7
15°	577.7	569.8	536.7	466.3	393.8	344.5	304.6	269.1	235.1	202.1	183.3
17.5°	619.1	598.8	559.9	466.3	378.5	313.0	264.7	222.8	186.3	156.7	133.6
20°	674.7	651.6	609.7	483.5	367.2	289.8	223.8	171.0	133.1	105.5	87.7
22.5°	731.9	713.7	650.6	490.4	353.9	258.8	176.4	123.7	88.7	71.0	62.1
25°	800.4	774.8	705.8	518.0	334.2	228.7	139.0	86.3	66.0	56.7	51.3
27.5°	855.1	850.7	757.6	534.8	319.4	204.1	109.9	68.5	54.7	47.8	44.4
30°	924.1	900.0	820.6	568.3	302.6	176.0	91.7	61.6	50.3	42.9	40.4
32.5°	965.5	954.2	853.7	587.0	283.9	152.8	78.9	54.2	45.8	40.4	38.0
35°	1025.7	1003.0	901.0	598.8	274.0	139.5	71.0	49.3	38.4	33.0	30.1
37.5°	1092.7	1084.3	957.7	598.4	259.7	131.6	65.6	45.8	36.5	30.6	27.1
40°	1161.2	1127.2	992.2	612.2	252.4	125.7	61.6	43.9	34.5	29.1	24.6
42.5°	1212.5	1173.5	1032.1	607.2	243.5	115.3	60.1	40.9	33.0	26.6	22.7
45°	1226.3	1212.5	1068.1	605.7	237.1	107.0	57.7	40.4	32.0	25.1	21.2
47.5°	1252.9	1243.5	1112.4	608.2	232.1	100.5	51.8	41.4	30.6	23.7	20.2
50°	1264.7	1248.0	1148.4	614.1	220.8	92.7	46.3	43.4	30.1	23.2	19.2
52.5°	1313.5	1298.7	1197.7	630.9	211.4	82.3	40.9	41.4	31.1	21.7	18.2
55°	1361.3	1344.6	1273.6	669.3	198.1	73.9	35.0	36.5	29.6	19.7	16.3
57.5°	1426.9	1399.3	1324.4	685.1	186.3	62.6	31.1	30.1	27.6	17.7	14.3
60°	1436.7	1448.1	1317.0	675.2	174.0	55.2	27.1	23.2	29.6	15.8	12.3
62.5°	1469.8	1422.4	1282.5	652.6	165.1	50.8	24.2	19.2	25.6	13.8	10.4
65°	1406.2	1371.2	1201.6	579.6	153.8	51.3	21.2	15.8	16.3	11.3	8.4
67.5°	1313.0	1285.4	1067.6	500.3	142.4	50.3	18.7	13.8	12.3	9.9	7.4
70°	1152.3	1092.7	906.9	406.1	125.7	46.8	15.8	12.3	10.4	7.9	5.4
72.5°	838.4	814.2	650.6	314.0	112.9	42.4	14.8	10.4	8.9	5.9	4.4
75°	564.3	524.4	410.6	206.0	90.7	37.0	12.3	9.4	6.9	4.4	3.5
77.5°	298.2	281.9	232.6	98.1	50.3	17.3	6.9	5.4	3.9	3.5	2.0
80°	129.1	114.8	100.5	39.9	17.7	7.9	4.4	3.0	2.5	2.0	1.0
82.5°	66.0	63.1	52.2	17.3	10.4	5.9	2.5	2.0	1.5	1.0	0.5
85°	32.5	33.5	27.6	5.4	5.9	3.5	0.5	0.5	0.0	0.0	0.0
87.5°	2.5	2.5	2.0	1.0	1.5	0.5	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: P677383
 CATALOG NUMBER: CCW-SA-1B-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	611.7	618.6	606.7	614.1	610.7	612.2	613.6	609.7	610.7	624.5	625.0
5°	489.9	503.2	498.3	505.2	517.0	511.1	516.5	515.5	516.5	518.5	527.4
7.5°	349.4	345.5	354.9	373.1	394.3	407.1	400.7	397.3	395.3	390.4	396.3
10°	263.7	261.7	259.3	264.7	278.5	292.8	300.7	287.3	280.0	270.6	267.1
12.5°	218.8	206.5	199.6	191.2	195.2	208.0	208.5	195.7	183.8	178.9	184.3
15°	172.5	164.1	151.8	140.0	134.1	143.9	135.5	123.2	107.9	106.0	105.5
17.5°	123.2	118.3	109.4	104.5	97.6	95.1	86.3	67.5	56.7	53.7	54.7
20°	83.8	79.8	79.4	74.9	72.0	70.0	55.7	43.4	39.9	40.4	40.9
22.5°	62.1	60.1	57.7	57.2	54.7	52.2	40.9	36.5	34.0	34.0	35.5
25°	50.8	49.8	47.3	46.3	45.3	41.9	34.5	31.1	30.1	29.1	30.6
27.5°	43.4	42.9	41.4	39.9	38.9	35.5	30.1	27.1	26.1	26.1	26.1
30°	38.9	38.9	37.0	34.0	34.0	30.1	25.6	23.7	22.7	22.7	22.2
32.5°	36.5	35.5	33.0	31.1	29.6	25.6	22.7	20.7	19.2	19.2	19.7
35°	29.6	29.6	29.1	27.6	25.6	21.7	19.2	17.3	16.3	15.8	16.3
37.5°	26.1	24.6	22.7	23.2	22.2	18.7	16.3	14.8	13.3	13.3	13.3
40°	23.7	22.2	20.2	18.7	18.2	16.8	14.3	11.8	10.4	9.9	9.9
42.5°	21.2	20.2	17.3	14.8	14.3	14.3	10.8	8.9	7.4	7.4	7.4
45°	19.7	18.2	15.8	12.8	10.4	10.8	8.9	6.4	5.4	4.9	4.9
47.5°	18.7	17.3	13.8	10.8	7.9	7.9	6.4	4.4	3.5	3.0	3.0
50°	17.3	15.8	12.3	8.9	5.9	4.9	3.9	2.5	1.5	1.0	1.0
52.5°	16.3	14.8	10.8	7.4	4.9	3.5	2.5	0.5	0.0	0.0	0.0
55°	14.8	12.8	9.4	5.9	3.9	2.0	0.5	0.0	0.0	0.0	0.0
57.5°	12.8	11.3	7.4	4.4	2.5	0.5	0.0	0.0	0.0	0.0	0.0
60°	10.8	9.4	5.9	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8.9	7.9	4.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7.4	5.9	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4.9	3.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	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: P677383
 CATALOG NUMBER: CCW-SA-1B-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	626.9	641.7	655.5	659.5	670.3	700.4	700.4	714.7	740.3	749.7	751.6
5°	528.9	544.6	547.6	578.1	592.4	623.0	643.2	691.5	720.6	738.8	750.2
7.5°	402.2	407.6	418.9	447.5	475.6	512.6	551.0	612.6	663.9	684.6	723.0
10°	276.5	292.8	317.4	343.0	386.9	427.8	477.6	535.8	598.8	624.5	657.5
12.5°	186.3	209.0	248.4	284.9	325.3	366.7	414.0	491.9	563.4	598.8	631.9
15°	108.9	136.5	170.5	229.7	283.4	329.7	377.1	455.9	542.7	588.5	628.9
17.5°	55.2	63.6	91.7	142.9	213.9	289.8	360.3	460.8	558.4	614.6	648.1
20°	41.4	43.9	51.8	75.9	146.4	239.5	344.5	468.2	602.3	670.8	689.0
22.5°	36.0	38.0	41.4	49.3	82.3	183.3	322.3	486.5	661.9	726.5	764.9
25°	30.6	32.5	35.5	40.4	52.7	124.7	295.2	505.7	715.2	796.5	832.5
27.5°	26.6	28.1	31.1	35.0	42.9	79.4	248.4	531.3	796.5	881.3	890.6
30°	22.7	24.2	26.6	31.1	36.5	56.2	182.4	534.8	841.3	918.2	944.4
32.5°	19.7	20.2	23.2	27.1	30.6	44.4	128.1	538.2	874.4	966.0	971.5
35°	16.3	17.3	20.2	22.7	26.6	35.0	97.1	521.0	917.2	1015.3	1013.8
37.5°	13.3	14.8	16.8	18.7	21.7	29.6	77.4	488.9	971.0	1091.7	1045.4
40°	10.4	11.8	13.8	16.3	18.2	26.6	58.2	440.6	1027.2	1129.2	1079.9
42.5°	7.4	8.4	10.4	12.8	16.3	22.2	41.9	383.5	1049.3	1173.0	1121.3
45°	5.4	6.4	7.9	10.8	16.8	17.7	29.1	331.2	1073.0	1192.3	1111.9
47.5°	3.0	3.9	5.9	9.4	14.8	13.3	20.7	284.4	1100.1	1209.5	1119.3
50°	1.0	1.5	3.5	9.9	11.8	10.4	16.3	259.3	1126.7	1213.0	1134.1
52.5°	0.0	0.0	2.0	10.4	8.9	7.9	14.3	249.4	1119.8	1223.8	1124.7
55°	0.0	0.0	0.5	4.4	4.9	5.9	11.8	248.9	1168.6	1227.3	1176.0
57.5°	0.0	0.0	0.0	1.5	3.0	4.9	10.4	233.1	1199.7	1313.0	1245.0
60°	0.0	0.0	0.0	0.5	2.0	3.5	7.9	219.3	1231.2	1351.5	1318.9
62.5°	0.0	0.0	0.0	0.0	0.5	1.5	5.4	198.1	1167.6	1348.5	1390.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	156.7	1050.3	1278.0	1351.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	108.4	919.7	1189.3	1278.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.6	742.3	1042.9	1084.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1	529.8	828.0	889.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	327.8	605.3	681.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	212.4	458.4	517.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	113.4	287.3	334.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.3	174.5	201.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	106.0	120.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	21.7
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: P677383

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9	698.9
2.5°	752.6	766.9	772.3	764.0	764.9	747.7	745.2	721.1	711.2	713.2
5°	787.1	807.8	819.2	809.8	788.6	755.6	725.5	696.9	679.2	670.3
7.5°	779.2	802.4	816.7	825.6	801.4	748.2	702.3	648.6	626.0	626.4
10°	735.9	784.2	813.2	801.9	790.6	737.3	666.4	608.2	588.0	590.0
12.5°	700.9	754.6	771.8	780.7	757.6	715.2	667.4	600.8	578.1	564.3
15°	679.2	719.1	720.1	733.9	724.5	724.5	677.7	612.6	592.9	577.7
17.5°	679.2	688.1	687.1	692.0	707.8	726.5	703.8	660.5	621.5	619.1
20°	694.5	666.9	660.5	662.4	675.7	731.4	761.5	707.3	682.6	674.7
22.5°	729.9	669.3	630.4	623.5	664.4	730.9	798.5	781.2	738.3	731.9
25°	778.7	664.9	622.5	613.6	644.7	748.7	849.2	852.7	813.7	800.4
27.5°	825.1	684.6	621.5	619.5	660.5	744.7	884.2	909.8	866.0	855.1
30°	840.8	704.3	639.8	613.6	666.4	759.0	883.2	950.3	921.7	924.1
32.5°	859.6	724.0	641.7	631.4	691.5	782.2	911.3	1015.3	994.6	965.5
35°	887.2	750.7	660.5	651.1	709.2	802.9	917.2	1063.1	1059.7	1025.7
37.5°	910.8	776.8	699.4	700.9	763.5	836.4	943.4	1121.8	1115.9	1092.7
40°	927.6	813.2	760.0	764.0	810.8	873.9	989.7	1151.4	1195.2	1161.2
42.5°	930.1	845.8	829.5	861.1	904.9	932.0	1008.4	1171.6	1234.7	1212.5
45°	939.4	897.5	942.9	966.0	1002.0	983.3	1007.4	1206.1	1237.6	1226.3
47.5°	975.9	991.7	1048.8	1119.3	1132.1	1070.5	1031.1	1211.5	1254.4	1252.9
50°	1013.8	1092.7	1173.0	1219.9	1236.1	1130.7	1053.3	1207.1	1276.5	1264.7
52.5°	1056.2	1180.4	1296.3	1353.9	1345.1	1197.2	1078.4	1243.0	1317.5	1313.5
55°	1082.8	1219.9	1375.6	1456.0	1449.1	1271.6	1158.3	1294.8	1371.2	1361.3
57.5°	1153.3	1283.9	1454.5	1491.9	1510.2	1369.2	1214.0	1379.6	1416.0	1426.9
60°	1211.5	1325.8	1475.2	1529.4	1535.8	1427.4	1311.5	1466.8	1473.2	1436.7
62.5°	1296.8	1342.1	1431.3	1480.1	1513.1	1460.4	1399.3	1513.6	1472.2	1469.8
65°	1359.4	1288.9	1349.5	1376.6	1397.8	1410.1	1487.5	1545.7	1454.0	1406.2
67.5°	1324.4	1188.3	1177.0	1178.5	1184.9	1259.3	1457.9	1467.3	1352.5	1313.0
70°	1165.7	974.9	959.6	971.5	939.4	1029.1	1338.2	1333.7	1193.3	1152.3
72.5°	942.9	710.7	684.6	700.9	708.3	803.4	1125.7	1011.4	870.4	838.4
75°	749.2	521.0	439.6	479.1	504.2	585.0	879.3	687.1	607.7	564.3
77.5°	588.5	394.3	342.1	326.3	349.4	425.4	639.8	360.8	318.4	298.2
80°	373.1	289.8	314.5	291.8	301.6	303.6	333.2	164.1	130.6	129.1
82.5°	224.8	198.1	235.6	129.6	236.1	211.0	138.5	74.4	66.0	66.0
85°	159.2	122.7	81.3	52.7	105.0	115.8	53.7	38.4	33.5	32.5
87.5°	79.8	38.0	18.2	11.8	13.3	21.7	6.4	3.0	3.0	2.5
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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