

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: P677282

Luminaire Tested: **CCW-SA-1A-740-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677282
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-740-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

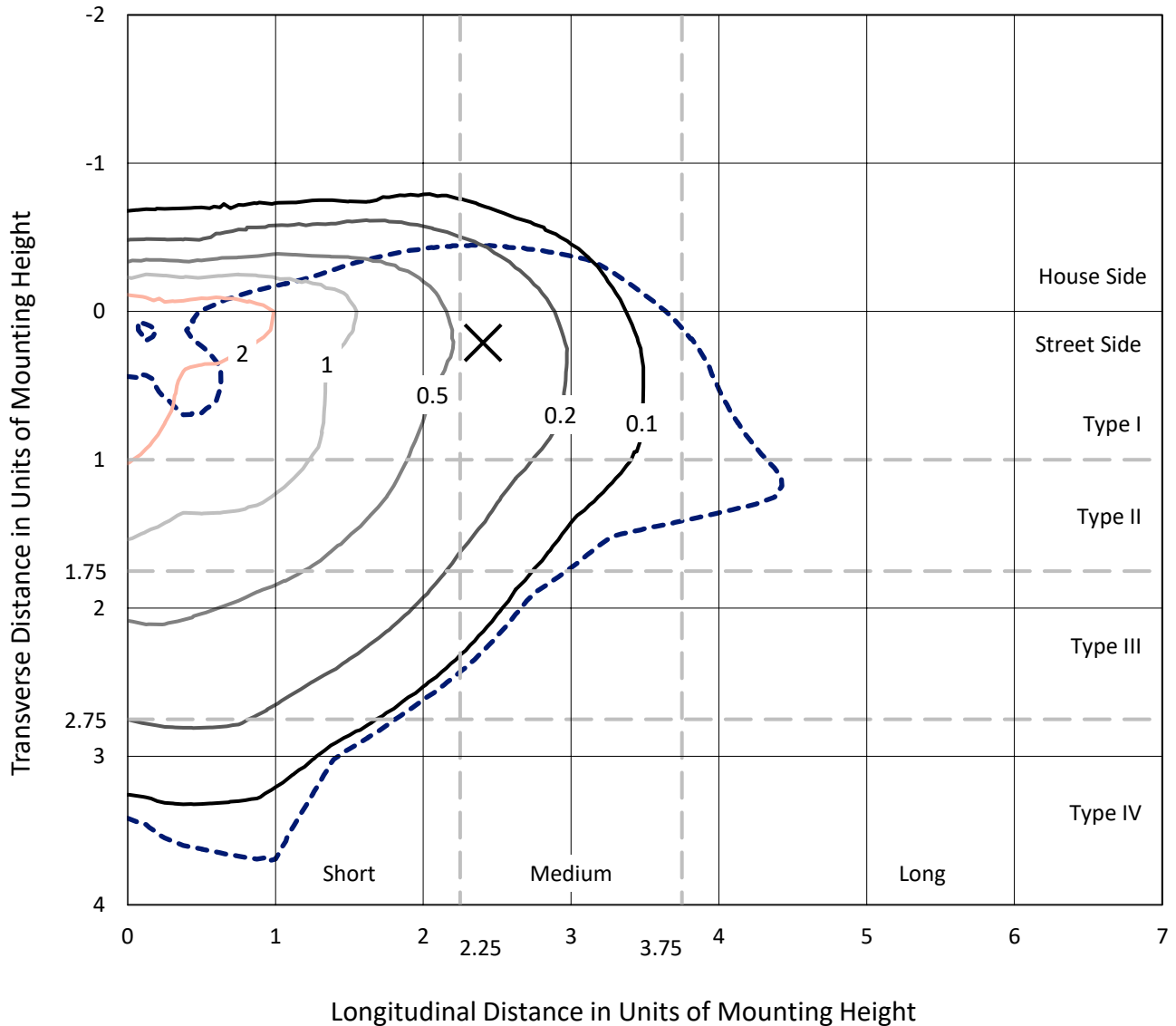
Lumens per Lamp: N/A
Luminaire Lumens: 1984.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

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: P677282
 CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

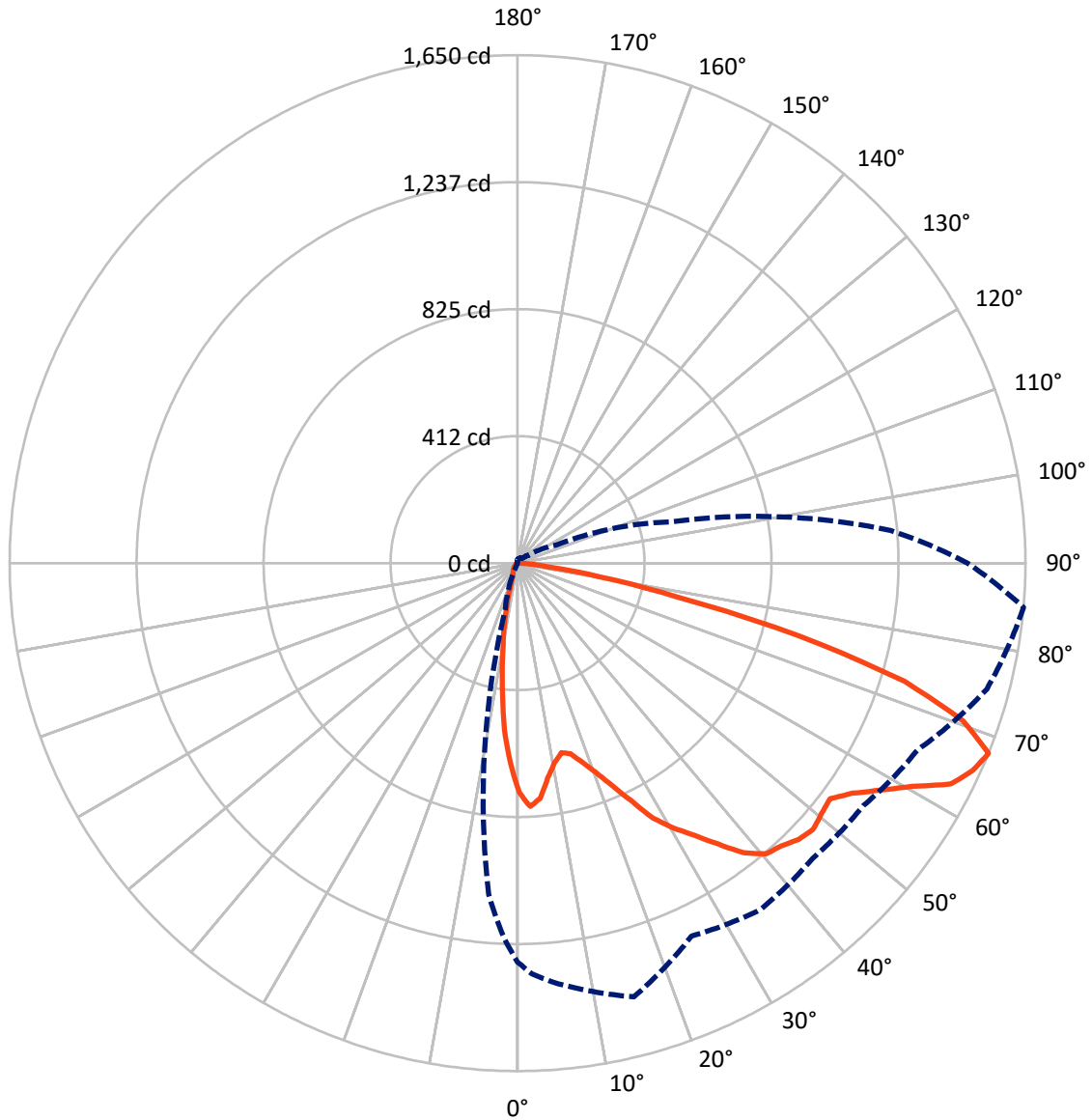
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P677282
CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677282

CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

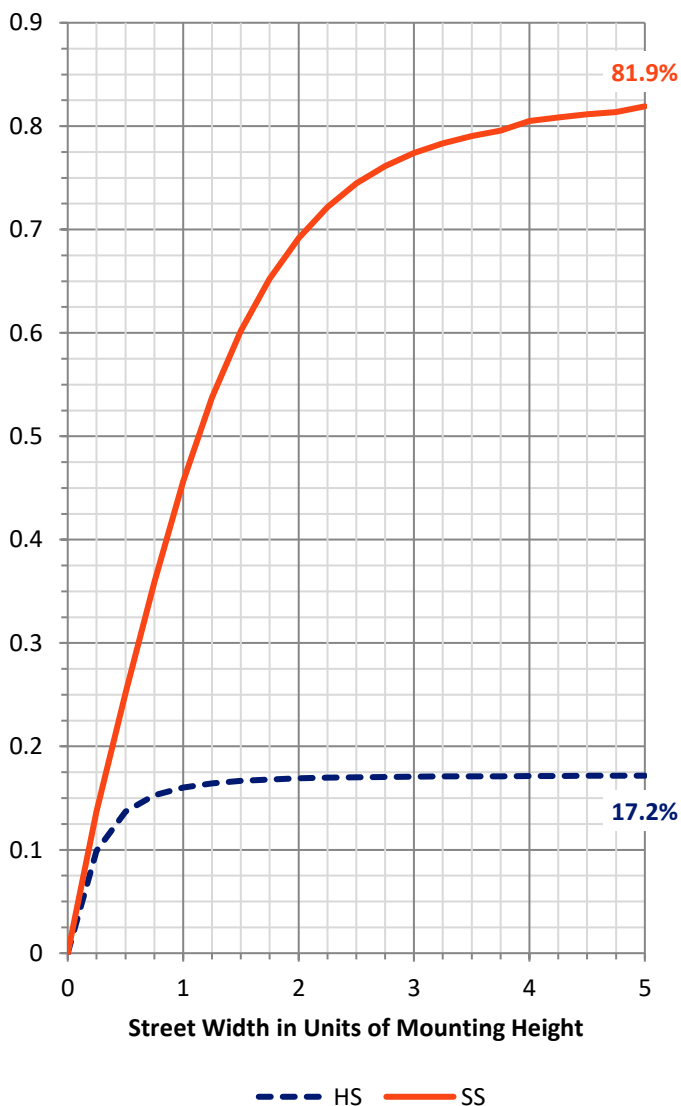
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	344.7	0.0	344.7
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1640.3	0.0	1640.3
	% Fixture	82.6	0.0	82.6
Total	Lumens	1984.9	0.0	1984.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	2.9
10°-20°	111.2	5.6
20°-30°	153.9	7.8
30°-40°	217.4	11.0
40°-50°	296.0	14.9
50°-60°	392.1	19.8
60°-70°	455.3	22.9
70°-80°	257.8	13.0
80°-90°	44.5	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°	1984.9	100.0
0°-180°	1984.9	100.0

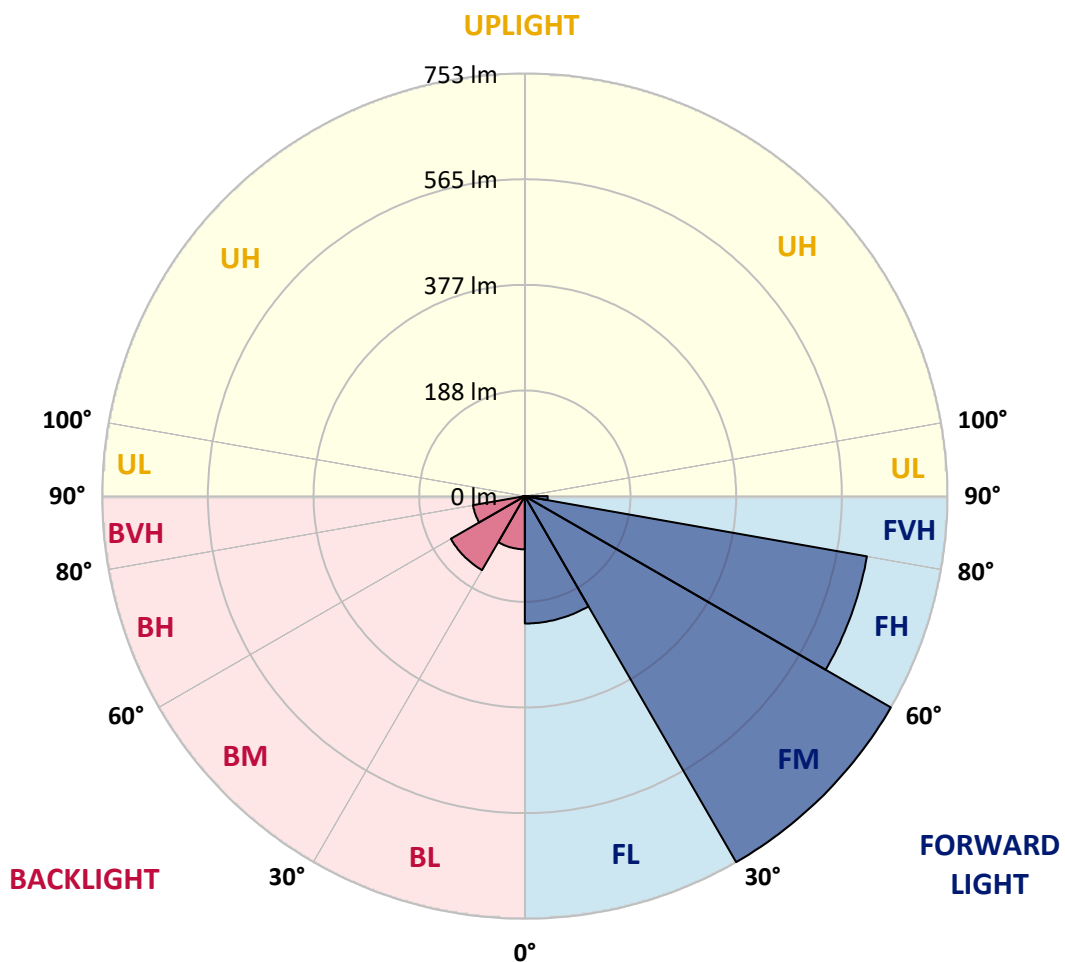


REPORT NUMBER: P677282
 CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	227.0	11.4			
FM (30°-60°)	753.3	38.0			
FH (60°-80°)	619.2	31.2			G0/660
FVH (80°-90°)	40.8	2.1			G1/100
BL (0°-30°)	94.7	4.8	B0/110		
BM (30°-60°)	152.3	7.7	B0/220		
BH (60°-80°)	93.9	4.7	B0/110		G0/110
BVH (80°-90°)	3.8	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: P677282

CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3
2.5°	775.5	791.9	792.4	799.9	807.3	807.3	824.8	820.5	805.2	802.5	791.4
5°	781.3	787.1	791.4	829.0	860.8	857.6	867.2	860.8	831.1	793.0	767.0
7.5°	731.0	737.3	754.3	818.4	861.3	875.7	893.7	853.9	822.7	753.7	703.9
10°	664.2	676.4	707.6	780.8	833.8	879.4	879.4	847.6	787.1	719.8	658.9
12.5°	627.1	651.4	668.4	742.6	811.5	842.8	841.7	824.8	785.5	700.7	631.8
15°	633.4	640.3	676.4	734.1	779.7	778.1	797.2	791.9	764.3	717.7	641.9
17.5°	662.6	673.2	704.4	734.1	755.9	749.5	749.0	774.4	776.0	746.3	679.5
20°	710.3	741.6	756.4	765.4	738.9	711.9	708.7	744.2	771.8	782.9	724.6
22.5°	786.6	807.3	837.5	791.4	722.5	688.5	682.2	721.4	777.1	826.4	782.9
25°	861.3	877.2	906.4	847.0	741.0	683.8	672.6	706.6	797.2	886.8	853.4
27.5°	940.3	954.1	957.3	887.9	751.1	674.2	661.0	706.6	814.2	918.6	937.7
30°	988.6	1005.0	1008.2	923.9	767.5	682.2	675.8	709.8	825.8	945.6	998.1
32.5°	1042.6	1046.9	1044.2	930.3	785.5	705.5	679.0	731.0	839.1	978.0	1053.2
35°	1107.3	1114.7	1087.7	959.4	825.8	720.4	710.8	756.9	861.9	992.8	1120.0
37.5°	1156.6	1179.9	1119.0	970.5	833.8	751.6	753.2	811.0	877.8	1010.8	1193.7
40°	1249.4	1210.1	1172.0	1008.7	864.0	804.6	796.2	866.6	931.3	1022.5	1241.9
42.5°	1300.2	1279.6	1192.6	1012.4	910.6	877.8	879.9	929.7	959.4	1055.3	1255.2
45°	1313.0	1291.2	1220.7	1015.1	956.8	964.2	1000.8	1010.3	1000.8	1077.1	1280.1
47.5°	1345.3	1298.1	1217.5	1050.6	1031.5	1060.1	1106.8	1127.4	1056.9	1069.1	1291.8
50°	1338.9	1311.9	1210.7	1065.4	1122.7	1198.5	1229.7	1221.3	1119.5	1052.7	1279.0
52.5°	1312.4	1283.3	1231.9	1105.7	1208.0	1299.7	1343.2	1322.0	1175.1	1089.8	1270.6
55°	1351.1	1328.9	1259.4	1160.3	1272.1	1388.8	1419.5	1403.6	1243.5	1124.3	1318.8
57.5°	1393.0	1388.2	1334.2	1224.4	1347.9	1480.5	1480.5	1460.8	1302.9	1174.1	1390.3
60°	1453.4	1464.0	1389.3	1266.8	1373.9	1475.2	1552.0	1529.2	1362.8	1261.5	1471.4
62.5°	1433.8	1467.7	1460.3	1358.0	1403.6	1501.1	1543.0	1560.0	1437.0	1368.1	1579.6
65°	1370.7	1406.8	1459.8	1417.9	1381.3	1438.1	1459.3	1510.7	1474.1	1468.3	1624.1
67.5°	1295.5	1334.7	1367.6	1458.2	1336.3	1373.9	1355.4	1371.8	1433.8	1578.0	1649.5
70°	1131.1	1168.8	1220.7	1368.6	1217.0	1183.1	1178.3	1170.4	1266.8	1538.8	1534.0
72.5°	930.3	947.7	1033.6	1112.6	900.6	894.2	901.6	892.6	1004.5	1393.0	1314.0
75°	696.5	714.0	762.8	854.5	613.3	576.7	619.1	661.0	767.0	1081.3	944.0
77.5°	523.7	546.0	576.7	639.3	450.0	392.8	398.6	438.4	554.4	866.1	529.0
80°	339.8	337.1	396.5	439.9	338.7	349.3	334.5	363.6	401.8	463.3	270.3
82.5°	196.1	198.8	223.7	252.3	235.9	269.8	194.5	324.9	286.8	188.7	100.7
85°	110.3	115.0	137.8	174.9	147.9	99.1	81.1	161.1	180.2	77.4	48.8
87.5°	11.1	9.5	18.6	66.3	40.3	16.4	24.4	38.7	43.5	29.2	14.3
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: P677282
 CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3
2.5°	775.5	775.5	762.2	740.0	731.0	715.1	693.3	700.2	692.8	665.8	658.9
5°	743.7	718.2	690.7	656.7	637.1	596.8	584.1	561.3	565.0	542.3	543.3
7.5°	677.4	657.3	610.6	566.1	527.4	492.4	443.1	424.6	406.6	397.5	408.1
10°	638.7	601.1	537.5	479.2	427.8	396.5	363.6	338.2	314.9	297.4	293.7
12.5°	610.6	577.2	500.4	429.3	389.1	363.6	333.4	298.4	275.6	245.4	236.4
15°	602.1	561.3	480.2	409.7	370.5	328.6	294.2	259.7	230.0	198.2	187.1
17.5°	631.3	584.1	479.7	393.8	338.7	293.7	245.9	207.3	177.0	147.9	141.0
20°	680.6	608.5	495.1	384.3	308.5	248.1	194.0	155.3	121.4	102.3	97.5
22.5°	736.8	649.9	496.7	358.9	278.3	202.5	141.5	102.3	83.2	74.2	71.6
25°	805.7	716.1	515.7	338.2	242.8	153.7	100.7	78.4	67.3	62.0	61.0
27.5°	862.4	762.2	536.4	316.4	207.8	114.0	79.0	64.1	58.3	53.0	52.5
30°	921.2	815.2	542.3	303.2	177.6	93.8	67.8	56.7	50.4	47.7	47.2
32.5°	972.7	873.0	560.8	281.5	148.9	82.7	61.5	50.9	46.6	42.4	41.9
35°	1038.9	906.4	569.8	269.8	138.3	74.7	56.2	46.6	40.3	37.6	36.6
37.5°	1109.9	938.7	575.6	260.8	129.3	70.0	53.0	44.0	38.2	34.5	33.4
40°	1176.2	984.3	567.2	249.7	122.4	64.1	50.9	40.8	35.5	31.8	30.2
42.5°	1227.1	1028.8	564.5	239.1	115.0	62.0	48.2	39.2	33.4	29.2	28.6
45°	1255.7	1059.1	546.0	230.6	109.2	63.1	47.2	37.1	31.8	28.1	26.0
47.5°	1248.8	1082.4	550.7	227.9	101.2	58.8	46.6	35.5	29.2	26.0	24.4
50°	1287.0	1129.6	542.8	219.4	95.4	53.0	50.9	35.5	28.6	24.9	23.3
52.5°	1293.3	1172.5	559.7	204.1	86.4	48.8	50.4	35.0	27.6	23.9	21.7
55°	1346.4	1222.3	592.6	195.6	79.0	42.4	46.1	33.9	24.9	21.7	20.7
57.5°	1418.4	1325.7	613.8	187.6	68.9	37.1	38.7	33.4	22.8	20.1	18.6
60°	1487.9	1367.0	615.4	173.3	59.4	33.4	30.2	33.4	21.2	18.0	16.4
62.5°	1539.8	1367.0	604.8	161.1	51.9	29.7	26.5	31.8	19.1	15.9	14.8
65°	1511.7	1330.5	577.2	151.1	47.2	26.0	22.8	24.4	17.0	13.8	12.7
67.5°	1461.4	1216.5	516.3	138.9	46.6	22.8	19.6	18.0	14.8	12.2	11.1
70°	1380.8	1062.8	429.9	125.1	45.6	20.7	17.5	15.4	13.3	10.6	9.5
72.5°	1112.6	877.8	353.0	117.1	44.5	18.0	14.8	13.3	11.1	9.0	8.0
75°	770.7	560.8	271.9	100.2	43.5	16.4	13.8	11.7	9.5	7.4	6.9
77.5°	462.2	374.8	175.4	75.3	28.6	13.3	11.7	9.0	8.0	6.4	5.8
80°	216.3	177.0	71.0	29.2	13.8	9.5	8.0	6.9	6.4	5.3	4.8
82.5°	84.8	74.7	34.5	17.0	11.1	7.4	6.4	5.8	5.3	4.2	3.7
85°	45.6	40.3	16.4	11.7	8.0	5.3	5.3	4.8	4.2	3.7	3.2
87.5°	10.1	7.4	6.9	6.9	5.8	4.2	4.2	3.7	3.2	2.7	2.1
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: P677282
 CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3
2.5°	655.2	663.1	650.4	658.3	647.2	655.7	656.7	648.8	650.9	661.5	666.3
5°	558.2	552.9	541.2	537.5	538.0	531.1	533.8	537.5	543.3	546.5	556.0
7.5°	402.3	414.5	414.0	423.0	423.5	422.5	415.0	399.1	404.4	400.2	405.5
10°	287.8	293.1	303.2	309.0	319.6	313.8	296.8	290.5	287.3	286.8	292.1
12.5°	230.0	217.3	216.3	218.4	223.7	216.8	208.3	200.9	204.6	212.0	217.9
15°	178.1	167.5	153.7	151.6	152.7	149.5	140.5	130.9	133.6	141.0	145.2
17.5°	136.8	124.6	115.0	108.7	106.5	95.4	82.2	74.2	72.1	71.6	75.3
20°	92.2	90.1	88.5	80.6	80.6	64.7	53.5	47.7	47.7	48.8	49.3
22.5°	68.9	66.3	66.8	65.2	61.0	48.2	42.4	40.8	40.8	41.9	41.9
25°	59.9	56.2	55.1	54.6	50.4	41.3	37.1	35.5	35.5	36.6	36.6
27.5°	50.9	49.8	48.2	46.1	42.4	35.5	32.9	31.3	31.8	32.3	31.8
30°	46.6	44.0	41.9	41.9	37.6	31.8	29.7	28.6	27.6	28.6	29.2
32.5°	41.3	39.8	38.7	37.1	32.3	28.1	26.0	24.9	24.4	24.4	24.9
35°	35.5	35.5	34.5	32.3	28.1	25.4	22.8	21.7	21.2	21.7	21.7
37.5°	31.8	30.2	30.7	28.6	24.9	22.3	19.6	18.6	18.6	18.0	18.6
40°	29.7	27.0	25.4	24.4	22.3	19.1	17.0	15.9	15.4	15.4	15.4
42.5°	26.5	24.4	21.2	20.7	20.1	16.4	13.8	13.3	12.7	12.2	12.2
45°	24.9	21.7	19.1	16.4	16.4	13.8	11.7	10.6	10.1	9.5	10.1
47.5°	22.8	19.6	16.4	13.8	13.3	11.1	9.0	8.0	7.4	7.4	7.4
50°	21.7	17.5	14.3	11.7	10.1	9.0	6.9	5.8	5.3	5.3	5.3
52.5°	20.1	16.4	12.7	10.1	8.0	6.9	5.3	4.2	3.7	3.7	3.7
55°	18.0	14.8	11.1	8.5	6.9	5.3	3.7	2.7	2.1	2.1	2.1
57.5°	17.0	13.3	9.5	7.4	5.3	3.7	2.1	1.6	1.6	1.1	1.6
60°	15.4	11.7	8.0	5.8	4.2	2.7	1.6	0.5	0.5	0.5	0.5
62.5°	13.3	10.1	6.9	4.8	3.2	1.6	0.5	0.0	0.0	0.0	0.0
65°	11.1	8.0	5.3	3.7	2.1	0.5	0.0	0.0	0.0	0.0	0.0
67.5°	9.5	6.9	4.2	2.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.5	5.8	3.2	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.9	4.8	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.8	3.7	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.8	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.7	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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: P677282
 CATALOG NUMBER: CCW-SA-1A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3	746.3
2.5°	673.2	670.0	685.9	711.9	725.1	751.1	757.5	773.9	769.6	775.5
5°	557.1	563.5	586.8	624.9	638.7	676.4	711.9	747.4	770.2	781.3
7.5°	413.4	434.6	463.3	498.3	533.8	583.1	643.5	684.8	707.1	731.0
10°	308.0	330.8	363.6	398.1	455.9	511.0	571.4	622.8	641.9	664.2
12.5°	242.2	277.8	315.9	353.0	387.5	439.9	514.7	589.4	610.1	627.1
15°	168.6	212.0	266.6	314.9	363.1	408.7	486.1	576.7	604.8	633.4
17.5°	93.3	127.7	190.3	258.1	329.2	399.1	495.6	600.0	642.4	662.6
20°	54.1	67.8	112.4	192.9	286.8	378.5	500.4	644.0	700.2	710.3
22.5°	44.5	49.3	63.6	120.9	234.8	365.2	524.8	705.5	762.8	786.6
25°	38.2	41.9	49.3	72.6	177.6	337.1	540.1	782.4	835.4	861.3
27.5°	33.9	37.6	43.5	53.5	120.9	298.4	565.6	851.8	904.8	940.3
30°	29.7	32.9	38.7	45.6	83.7	255.0	587.3	902.7	977.4	988.6
32.5°	26.5	29.2	33.4	39.2	62.0	193.5	604.8	955.2	1018.2	1042.6
35°	22.8	26.0	28.6	33.4	47.2	145.8	594.2	996.0	1078.1	1107.3
37.5°	20.1	22.3	24.9	28.1	39.8	114.0	572.5	1044.7	1129.6	1156.6
40°	17.0	18.6	21.7	24.9	36.0	88.0	547.6	1103.6	1201.6	1249.4
42.5°	14.3	15.9	18.0	23.3	29.7	65.2	497.2	1149.2	1260.0	1300.2
45°	11.1	13.3	16.4	23.3	23.9	48.2	445.3	1183.1	1292.8	1313.0
47.5°	8.5	10.6	15.9	20.1	19.1	33.4	383.8	1221.8	1326.7	1345.3
50°	6.4	8.5	18.0	17.5	15.9	25.4	345.1	1248.8	1328.9	1338.9
52.5°	4.2	6.4	14.8	13.3	13.3	22.3	334.5	1247.8	1334.2	1312.4
55°	3.2	4.8	8.5	9.5	11.7	19.6	324.9	1287.5	1335.8	1351.1
57.5°	2.1	3.7	5.8	7.4	10.1	17.0	305.3	1335.2	1385.0	1393.0
60°	1.1	2.7	4.2	5.8	8.5	14.8	277.8	1370.2	1444.9	1453.4
62.5°	0.5	1.6	3.2	4.8	6.9	11.7	249.1	1314.5	1419.0	1433.8
65°	0.0	1.1	2.1	3.2	4.2	8.5	202.5	1186.8	1316.1	1370.7
67.5°	0.0	0.0	1.1	2.1	2.7	6.4	152.7	1079.7	1221.3	1295.5
70°	0.0	0.0	0.5	0.5	1.6	4.8	97.5	894.2	1090.3	1131.1
72.5°	0.0	0.0	0.0	0.0	0.5	3.2	56.7	664.2	854.5	930.3
75°	0.0	0.0	0.0	0.0	0.0	2.7	28.6	427.2	594.7	696.5
77.5°	0.0	0.0	0.0	0.0	0.0	2.1	15.4	275.6	438.4	523.7
80°	0.0	0.0	0.0	0.0	0.0	0.5	9.0	160.1	280.4	339.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	78.4	167.5	196.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	41.9	83.7	110.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.8	11.1
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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