

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: P677271

Luminaire Tested: **CCW-SA-1A-735-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677271
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-735-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) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

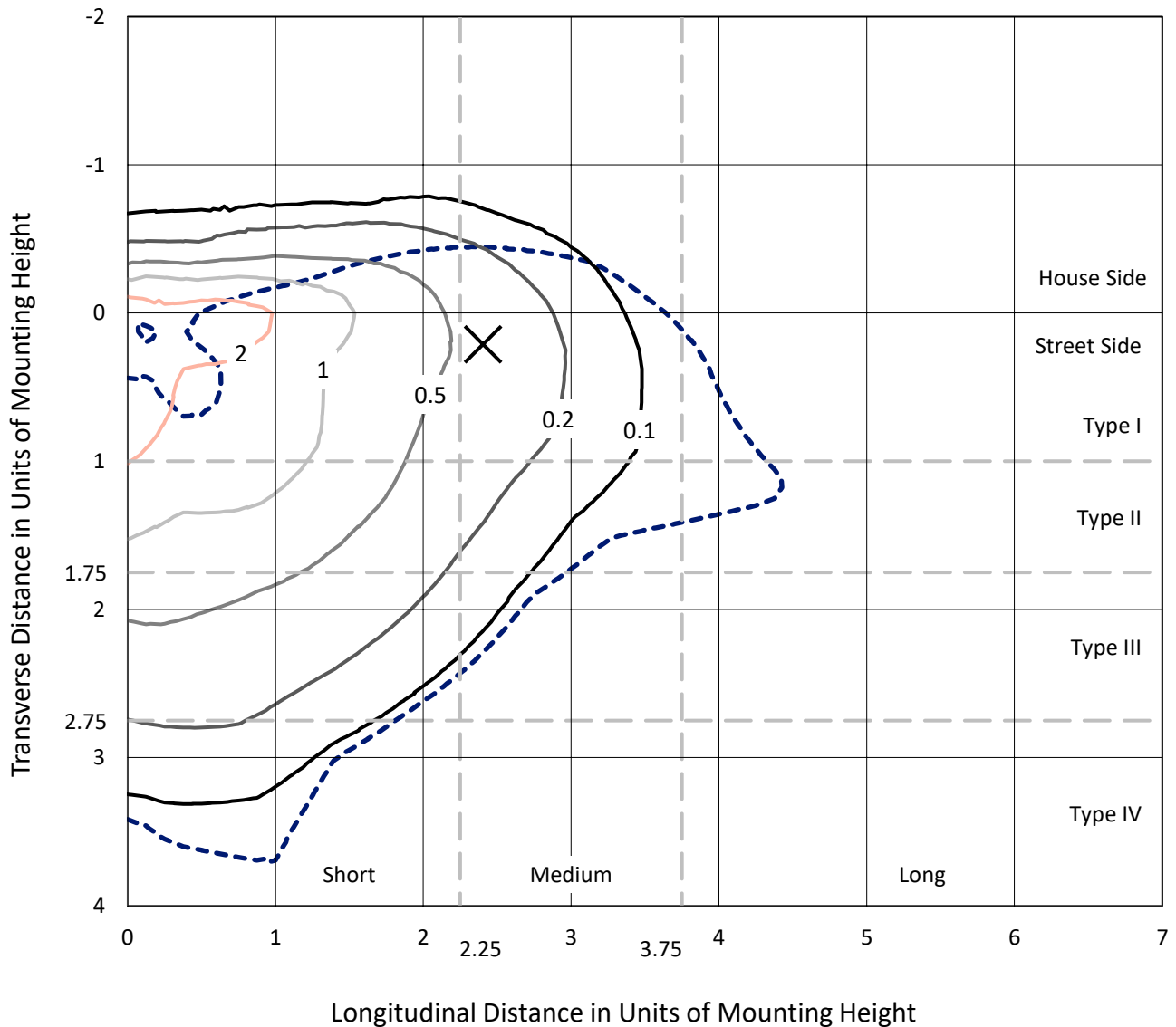
Lumens per Lamp: N/A
Luminaire Lumens: 1957.8 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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: P677271
 CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

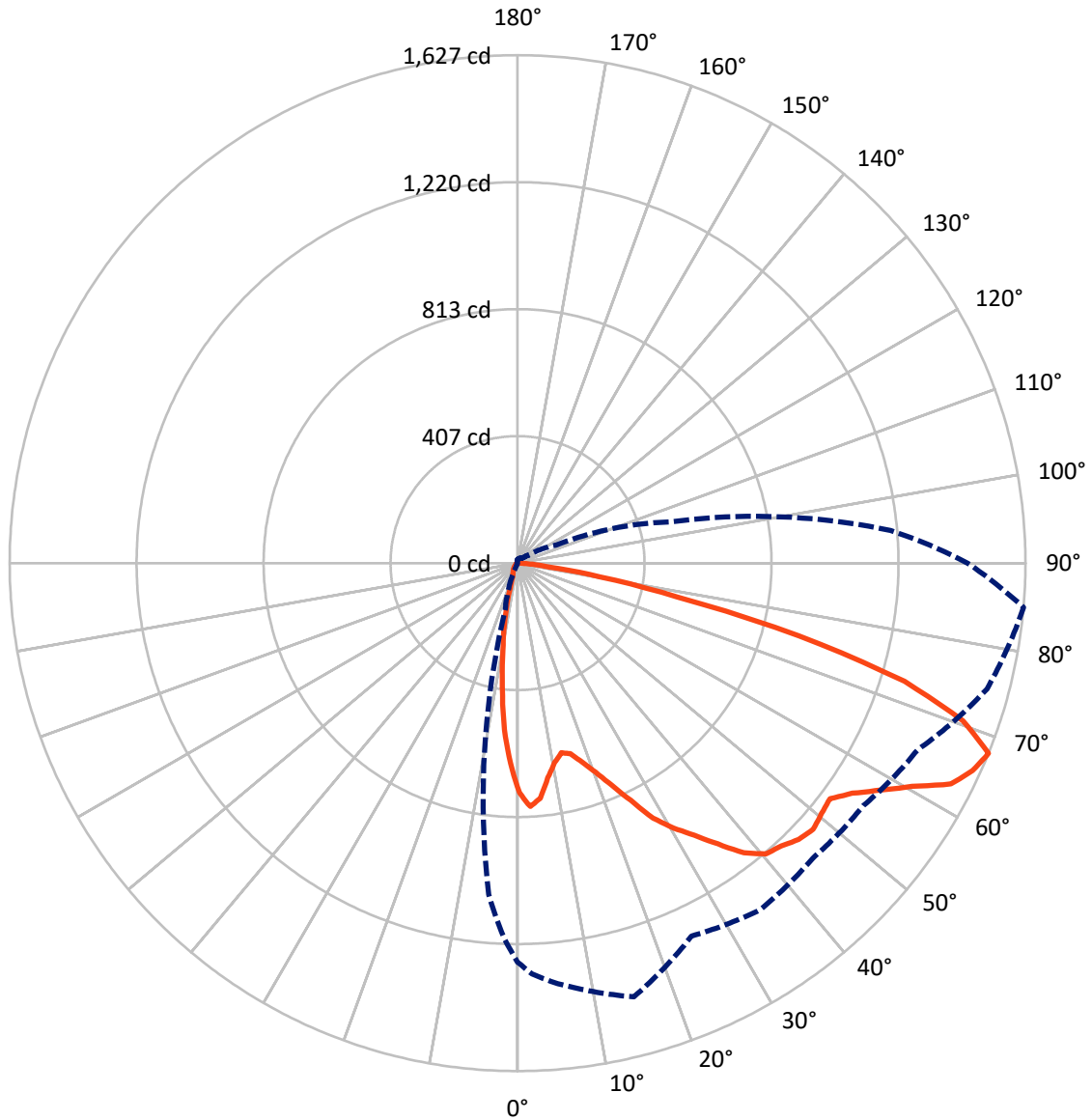
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P677271
CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677271
 CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	339.9	0.0	339.9
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	1617.8	0.0	1617.8
	% Fixture	82.6	0.0	82.6
Total	Lumens	1957.8	0.0	1957.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	2.9
10°-20°	109.7	5.6
20°-30°	151.7	7.8
30°-40°	214.5	11.0
40°-50°	292.0	14.9
50°-60°	386.7	19.8
60°-70°	449.0	22.9
70°-80°	254.3	13.0
80°-90°	43.9	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°	1957.8	100.0
0°-180°	1957.8	100.0



REPORT NUMBER: P677271

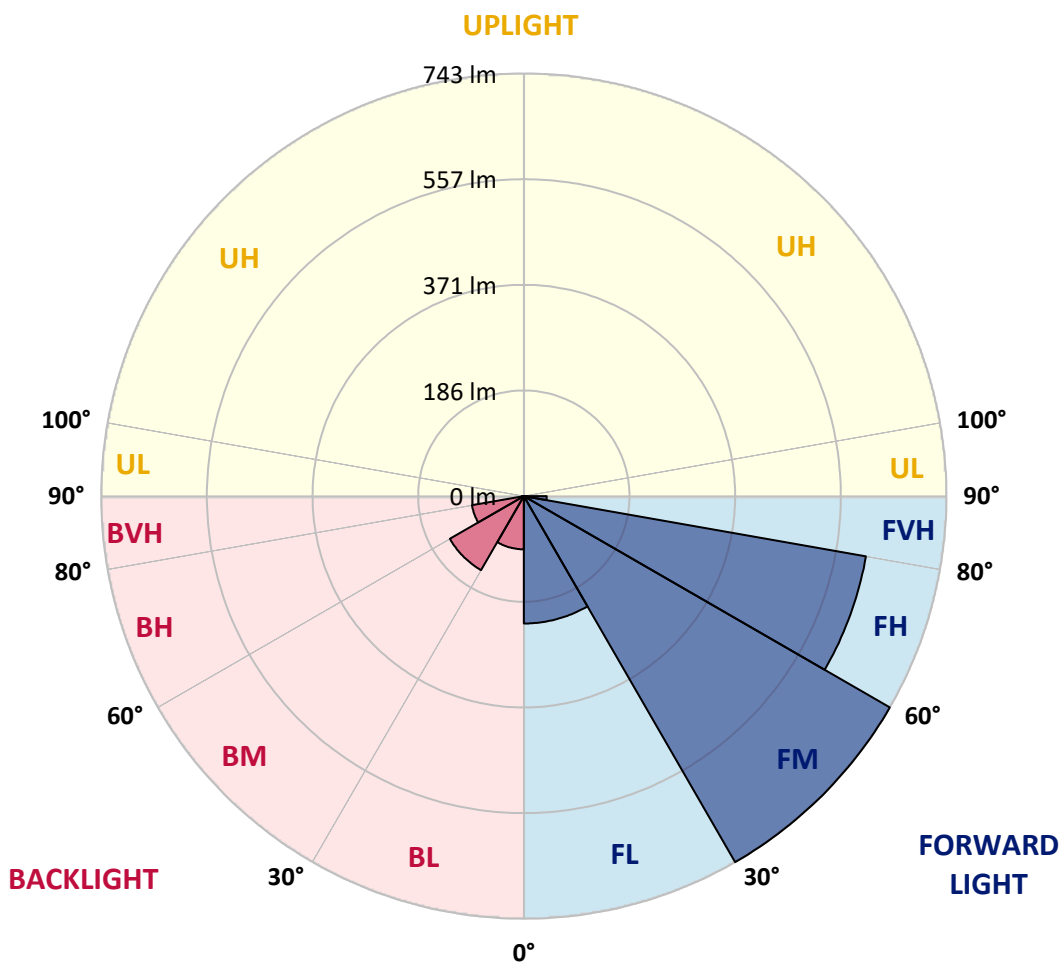
CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.9	11.4			
FM (30°-60°)	743.0	38.0			
FH (60°-80°)	610.7	31.2			G0/660
FVH (80°-90°)	40.2	2.1			G1/100
BL (0°-30°)	93.5	4.8	B0/110		
BM (30°-60°)	150.2	7.7	B0/220		
BH (60°-80°)	92.6	4.7	B0/110		G0/110
BVH (80°-90°)	3.7	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: P677271

CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	764.9	781.1	781.6	788.9	796.2	796.2	813.5	809.3	794.1	791.5	780.5
5°	770.6	776.4	780.5	817.7	849.0	845.9	855.3	849.0	819.7	782.1	756.5
7.5°	720.9	727.2	743.9	807.2	849.5	863.7	881.4	842.2	811.4	743.4	694.3
10°	655.1	667.1	697.9	770.1	822.4	867.3	867.3	836.0	776.4	710.0	649.8
12.5°	618.5	642.5	659.2	732.4	800.4	831.2	830.2	813.5	774.8	691.1	623.2
15°	624.7	631.5	667.1	724.1	769.0	767.5	786.3	781.1	753.9	707.9	633.1
17.5°	653.5	664.0	694.8	724.1	745.5	739.2	738.7	763.8	765.4	736.1	670.2
20°	700.5	731.4	746.0	754.9	728.8	702.1	699.0	734.0	761.2	772.2	714.7
22.5°	775.8	796.2	826.0	780.5	712.6	679.1	672.8	711.5	766.4	815.0	772.2
25°	849.5	865.2	894.0	835.4	730.9	674.4	663.4	696.9	786.3	874.6	841.7
27.5°	927.4	941.0	944.2	875.7	740.8	665.0	651.9	696.9	803.0	906.0	924.8
30°	975.0	991.2	994.4	911.2	757.0	672.8	666.6	700.0	814.5	932.7	984.4
32.5°	1028.3	1032.5	1029.9	917.5	774.8	695.8	669.7	720.9	827.6	964.6	1038.8
35°	1092.1	1099.4	1072.8	946.3	814.5	710.5	701.1	746.6	850.1	979.2	1104.7
37.5°	1140.7	1163.7	1103.6	957.2	822.4	741.3	742.9	799.9	865.8	997.0	1177.3
40°	1232.2	1193.5	1155.9	994.9	852.2	793.6	785.2	854.8	918.6	1008.5	1224.9
42.5°	1282.4	1262.0	1176.3	998.5	898.2	865.8	867.8	917.0	946.3	1040.9	1238.0
45°	1295.0	1273.5	1204.0	1001.2	943.7	951.0	987.0	996.5	987.0	1062.3	1262.6
47.5°	1326.9	1280.3	1200.9	1036.2	1017.4	1045.6	1091.6	1112.0	1042.5	1054.5	1274.1
50°	1320.6	1293.9	1194.1	1050.8	1107.3	1182.0	1212.9	1204.5	1104.1	1038.3	1261.5
52.5°	1294.4	1265.7	1215.0	1090.6	1191.5	1281.9	1324.8	1303.9	1159.0	1074.9	1253.1
55°	1332.6	1310.7	1242.2	1144.4	1254.7	1369.7	1400.1	1384.4	1226.5	1108.9	1300.7
57.5°	1373.9	1369.2	1315.9	1207.7	1329.5	1460.2	1460.2	1440.8	1285.0	1158.0	1371.3
60°	1433.5	1444.0	1370.3	1249.5	1355.1	1454.9	1530.8	1508.3	1344.1	1244.3	1451.3
62.5°	1414.2	1447.6	1440.3	1339.4	1384.4	1480.6	1521.9	1538.6	1417.3	1349.3	1557.9
65°	1352.0	1387.5	1439.8	1398.5	1362.4	1418.4	1439.3	1490.0	1453.9	1448.2	1601.9
67.5°	1277.7	1316.4	1348.8	1438.2	1318.0	1355.1	1336.8	1353.0	1414.2	1556.4	1626.9
70°	1115.7	1152.8	1204.0	1349.9	1200.3	1166.9	1162.2	1154.3	1249.5	1517.7	1513.0
72.5°	917.5	934.8	1019.5	1097.4	888.2	882.0	889.3	880.4	990.7	1373.9	1296.0
75°	687.0	704.2	752.3	842.8	604.9	568.8	610.6	651.9	756.5	1066.5	931.1
77.5°	516.5	538.5	568.8	630.5	443.9	387.4	393.1	432.4	546.8	854.3	521.8
80°	335.1	332.5	391.1	433.9	334.1	344.5	329.9	358.6	396.3	456.9	266.6
82.5°	193.4	196.0	220.6	248.9	232.6	266.1	191.9	320.5	282.8	186.1	99.3
85°	108.7	113.4	135.9	172.5	145.9	97.8	80.0	158.9	177.8	76.3	48.1
87.5°	11.0	9.4	18.3	65.3	39.7	16.2	24.0	38.2	42.9	28.8	14.1
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: P677271
 CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	764.9	764.9	751.8	729.8	720.9	705.3	683.8	690.6	683.3	656.6	649.8
5°	733.5	708.4	681.2	647.7	628.4	588.7	576.1	553.6	557.3	534.8	535.9
7.5°	668.1	648.3	602.3	558.3	520.2	485.7	437.1	418.8	401.0	392.1	402.6
10°	630.0	592.9	530.1	472.6	421.9	391.1	358.6	333.5	310.5	293.3	289.6
12.5°	602.3	569.3	493.5	423.5	383.7	358.6	328.8	294.3	271.9	242.1	233.2
15°	593.9	553.6	473.7	404.1	365.4	324.1	290.2	256.2	226.9	195.5	184.5
17.5°	622.7	576.1	473.1	388.4	334.1	289.6	242.6	204.4	174.6	145.9	139.1
20°	671.3	600.2	488.3	379.0	304.3	244.7	191.3	153.2	119.7	100.9	96.2
22.5°	726.7	641.0	489.9	353.9	274.5	199.7	139.6	100.9	82.1	73.2	70.6
25°	794.7	706.3	508.7	333.5	239.4	151.6	99.3	77.4	66.4	61.2	60.1
27.5°	850.6	751.8	529.1	312.1	204.9	112.4	77.9	63.3	57.5	52.3	51.8
30°	908.6	804.1	534.8	299.0	175.1	92.5	66.9	55.9	49.7	47.1	46.5
32.5°	959.3	861.0	553.1	277.6	146.9	81.6	60.6	50.2	46.0	41.8	41.3
35°	1024.7	894.0	562.0	266.1	136.5	73.7	55.4	46.0	39.7	37.1	36.1
37.5°	1094.7	925.9	567.8	257.2	127.6	69.0	52.3	43.4	37.6	34.0	32.9
40°	1160.1	970.8	559.4	246.2	120.8	63.3	50.2	40.3	35.0	31.4	29.8
42.5°	1210.3	1014.8	556.8	235.8	113.4	61.2	47.6	38.7	32.9	28.8	28.2
45°	1238.5	1044.6	538.5	227.4	107.7	62.2	46.5	36.6	31.4	27.7	25.6
47.5°	1231.7	1067.6	543.2	224.8	99.9	58.0	46.0	35.0	28.8	25.6	24.0
50°	1269.4	1114.1	535.3	216.4	94.1	52.3	50.2	35.0	28.2	24.6	23.0
52.5°	1275.6	1156.4	552.1	201.3	85.2	48.1	49.7	34.5	27.2	23.5	21.4
55°	1327.9	1205.6	584.5	192.9	77.9	41.8	45.5	33.5	24.6	21.4	20.4
57.5°	1399.0	1307.5	605.4	185.1	68.0	36.6	38.2	32.9	22.5	19.9	18.3
60°	1467.5	1348.3	607.0	171.0	58.6	32.9	29.8	32.9	20.9	17.8	16.2
62.5°	1518.7	1348.3	596.5	158.9	51.2	29.3	26.1	31.4	18.8	15.7	14.6
65°	1491.0	1312.2	569.3	149.0	46.5	25.6	22.5	24.0	16.7	13.6	12.5
67.5°	1441.4	1199.8	509.2	137.0	46.0	22.5	19.3	17.8	14.6	12.0	11.0
70°	1361.9	1048.2	424.0	123.4	45.0	20.4	17.3	15.2	13.1	10.5	9.4
72.5°	1097.4	865.8	348.2	115.5	43.9	17.8	14.6	13.1	11.0	8.9	7.8
75°	760.1	553.1	268.2	98.8	42.9	16.2	13.6	11.5	9.4	7.3	6.8
77.5°	455.9	369.6	173.0	74.2	28.2	13.1	11.5	8.9	7.8	6.3	5.8
80°	213.3	174.6	70.1	28.8	13.6	9.4	7.8	6.8	6.3	5.2	4.7
82.5°	83.6	73.7	34.0	16.7	11.0	7.3	6.3	5.8	5.2	4.2	3.7
85°	45.0	39.7	16.2	11.5	7.8	5.2	5.2	4.7	4.2	3.7	3.1
87.5°	9.9	7.3	6.8	6.8	5.8	4.2	4.2	3.7	3.1	2.6	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: P677271
 CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	646.2	654.0	641.5	649.3	638.3	646.7	647.7	639.9	642.0	652.5	657.2
5°	550.5	545.3	533.8	530.1	530.6	523.8	526.5	530.1	535.9	539.0	548.4
7.5°	396.8	408.8	408.3	417.2	417.7	416.7	409.4	393.7	398.9	394.7	399.9
10°	283.9	289.1	299.0	304.8	315.2	309.5	292.8	286.5	283.4	282.8	288.1
12.5°	226.9	214.3	213.3	215.4	220.6	213.8	205.5	198.1	201.8	209.1	214.9
15°	175.7	165.2	151.6	149.5	150.6	147.4	138.5	129.1	131.7	139.1	143.2
17.5°	134.9	122.9	113.4	107.2	105.1	94.1	81.0	73.2	71.1	70.6	74.2
20°	91.0	88.9	87.3	79.5	79.5	63.8	52.8	47.1	47.1	48.1	48.6
22.5°	68.0	65.3	65.9	64.3	60.1	47.6	41.8	40.3	40.3	41.3	41.3
25°	59.1	55.4	54.4	53.8	49.7	40.8	36.6	35.0	35.0	36.1	36.1
27.5°	50.2	49.1	47.6	45.5	41.8	35.0	32.4	30.8	31.4	31.9	31.4
30°	46.0	43.4	41.3	41.3	37.1	31.4	29.3	28.2	27.2	28.2	28.8
32.5°	40.8	39.2	38.2	36.6	31.9	27.7	25.6	24.6	24.0	24.0	24.6
35°	35.0	35.0	34.0	31.9	27.7	25.1	22.5	21.4	20.9	21.4	21.4
37.5°	31.4	29.8	30.3	28.2	24.6	22.0	19.3	18.3	18.3	17.8	18.3
40°	29.3	26.7	25.1	24.0	22.0	18.8	16.7	15.7	15.2	15.2	15.2
42.5°	26.1	24.0	20.9	20.4	19.9	16.2	13.6	13.1	12.5	12.0	12.0
45°	24.6	21.4	18.8	16.2	16.2	13.6	11.5	10.5	9.9	9.4	9.9
47.5°	22.5	19.3	16.2	13.6	13.1	11.0	8.9	7.8	7.3	7.3	7.3
50°	21.4	17.3	14.1	11.5	9.9	8.9	6.8	5.8	5.2	5.2	5.2
52.5°	19.9	16.2	12.5	9.9	7.8	6.8	5.2	4.2	3.7	3.7	3.7
55°	17.8	14.6	11.0	8.4	6.8	5.2	3.7	2.6	2.1	2.1	2.1
57.5°	16.7	13.1	9.4	7.3	5.2	3.7	2.1	1.6	1.6	1.0	1.6
60°	15.2	11.5	7.8	5.8	4.2	2.6	1.6	0.5	0.5	0.5	0.5
62.5°	13.1	9.9	6.8	4.7	3.1	1.6	0.5	0.0	0.0	0.0	0.0
65°	11.0	7.8	5.2	3.7	2.1	0.5	0.0	0.0	0.0	0.0	0.0
67.5°	9.4	6.8	4.2	2.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.4	5.8	3.1	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.8	4.7	2.6	1.0	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°	4.7	2.6	1.0	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°	3.1	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: P677271
 CATALOG NUMBER: CCW-SA-1A-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1	736.1
2.5°	664.0	660.8	676.5	702.1	715.2	740.8	747.1	763.3	759.1	764.9
5°	549.5	555.7	578.7	616.4	630.0	667.1	702.1	737.1	759.6	770.6
7.5°	407.8	428.7	456.9	491.4	526.5	575.1	634.7	675.5	697.4	720.9
10°	303.7	326.2	358.6	392.6	449.6	504.0	563.6	614.3	633.1	655.1
12.5°	238.9	273.9	311.6	348.2	382.2	433.9	507.6	581.4	601.7	618.5
15°	166.2	209.1	263.0	310.5	358.1	403.1	479.4	568.8	596.5	624.7
17.5°	92.0	126.0	187.7	254.6	324.7	393.7	488.8	591.8	633.6	653.5
20°	53.3	66.9	110.8	190.3	282.8	373.3	493.5	635.2	690.6	700.5
22.5°	43.9	48.6	62.7	119.2	231.6	360.2	517.6	695.8	752.3	775.8
25°	37.6	41.3	48.6	71.6	175.1	332.5	532.7	771.7	823.9	849.5
27.5°	33.5	37.1	42.9	52.8	119.2	294.3	557.8	840.1	892.4	927.4
30°	29.3	32.4	38.2	45.0	82.6	251.5	579.3	890.3	964.0	975.0
32.5°	26.1	28.8	32.9	38.7	61.2	190.8	596.5	942.1	1004.3	1028.3
35°	22.5	25.6	28.2	32.9	46.5	143.8	586.1	982.3	1063.4	1092.1
37.5°	19.9	22.0	24.6	27.7	39.2	112.4	564.6	1030.4	1114.1	1140.7
40°	16.7	18.3	21.4	24.6	35.6	86.8	540.1	1088.5	1185.2	1232.2
42.5°	14.1	15.7	17.8	23.0	29.3	64.3	490.4	1133.4	1242.7	1282.4
45°	11.0	13.1	16.2	23.0	23.5	47.6	439.2	1166.9	1275.1	1295.0
47.5°	8.4	10.5	15.7	19.9	18.8	32.9	378.5	1205.0	1308.6	1326.9
50°	6.3	8.4	17.8	17.3	15.7	25.1	340.3	1231.7	1310.7	1320.6
52.5°	4.2	6.3	14.6	13.1	13.1	22.0	329.9	1230.7	1315.9	1294.4
55°	3.1	4.7	8.4	9.4	11.5	19.3	320.5	1269.9	1317.5	1332.6
57.5°	2.1	3.7	5.8	7.3	9.9	16.7	301.1	1316.9	1366.1	1373.9
60°	1.0	2.6	4.2	5.8	8.4	14.6	273.9	1351.4	1425.1	1433.5
62.5°	0.5	1.6	3.1	4.7	6.8	11.5	245.7	1296.5	1399.5	1414.2
65°	0.0	1.0	2.1	3.1	4.2	8.4	199.7	1170.5	1298.1	1352.0
67.5°	0.0	0.0	1.0	2.1	2.6	6.3	150.6	1064.9	1204.5	1277.7
70°	0.0	0.0	0.5	0.5	1.6	4.7	96.2	882.0	1075.4	1115.7
72.5°	0.0	0.0	0.0	0.0	0.5	3.1	55.9	655.1	842.8	917.5
75°	0.0	0.0	0.0	0.0	0.0	2.6	28.2	421.4	586.6	687.0
77.5°	0.0	0.0	0.0	0.0	0.0	2.1	15.2	271.9	432.4	516.5
80°	0.0	0.0	0.0	0.0	0.0	0.5	8.9	157.9	276.6	335.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	77.4	165.2	193.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	41.3	82.6	108.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.8	11.0
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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