

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: P675909

Luminaire Tested: **CCW-SA-1B-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675909
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

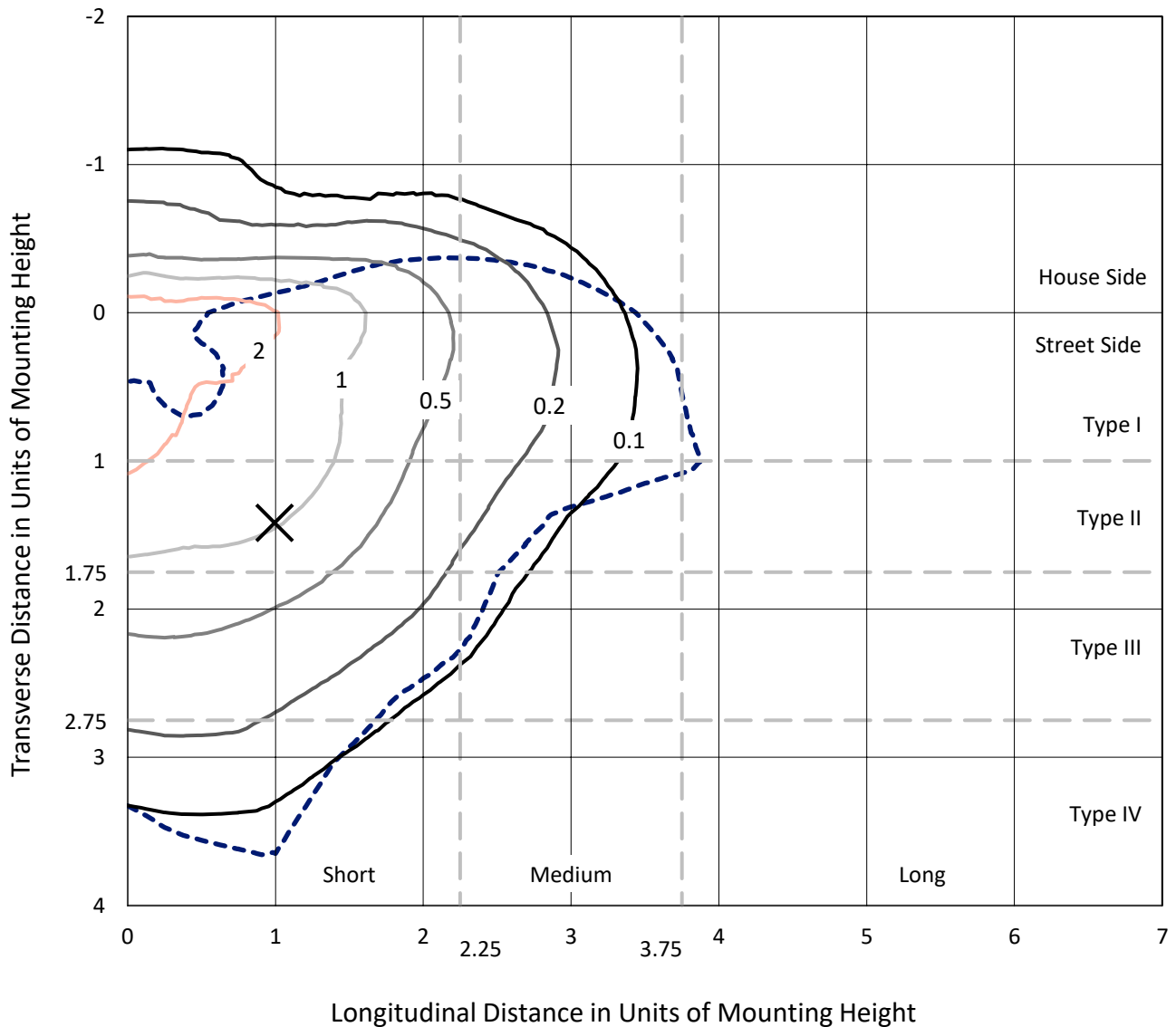
Lumens per Lamp: N/A
Luminaire Lumens: 2443.2 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 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: P675909
 CATALOG NUMBER: CCW-SA-1B-840-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

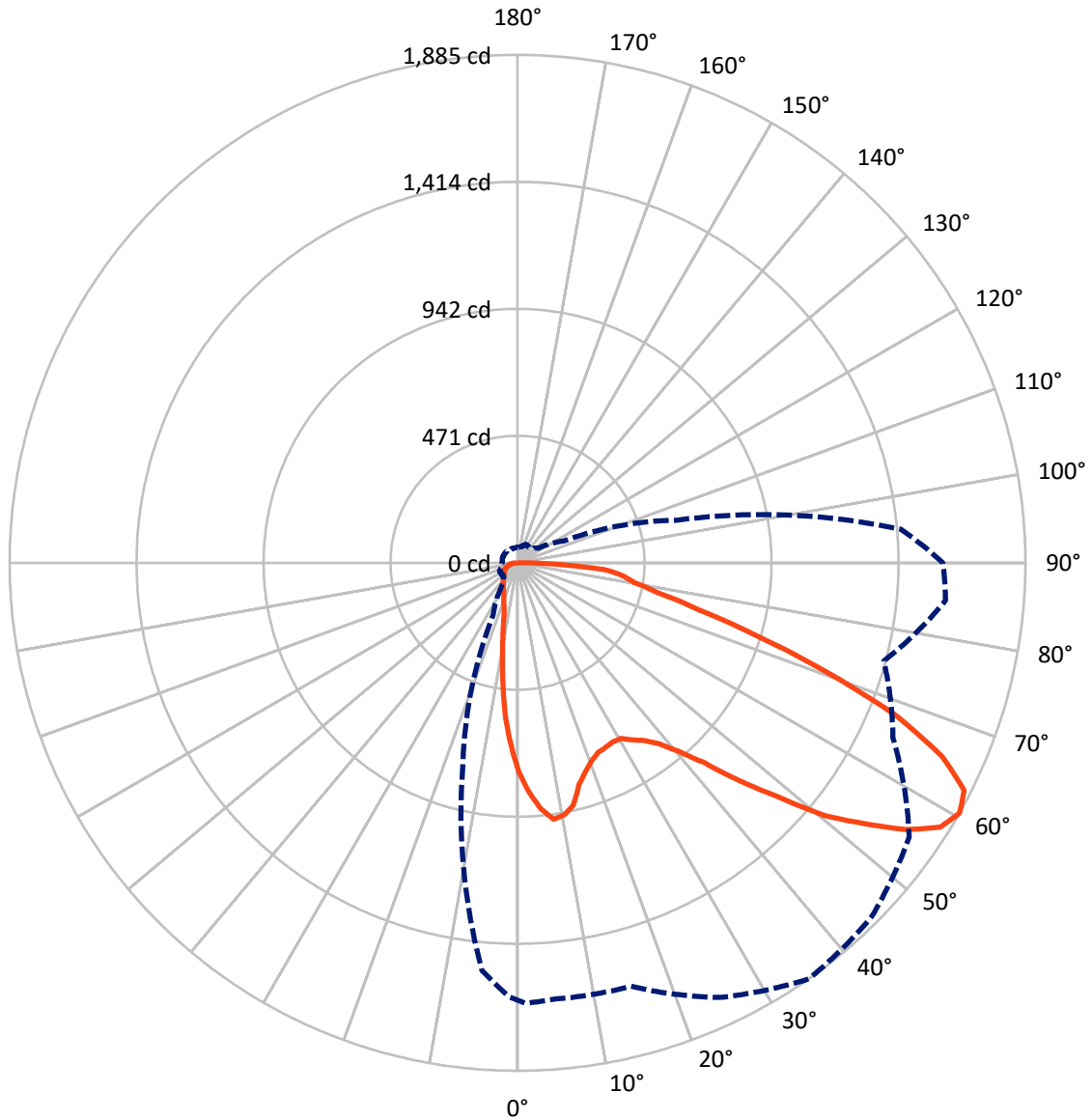
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

REPORT NUMBER: P675909
CATALOG NUMBER: CCW-SA-1B-840-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P675909
 CATALOG NUMBER: CCW-SA-1B-840-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	465.0	0.0	465.0
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1978.2	0.0	1978.2
	% Fixture	81.0	0.0	81.0
Total	Lumens	2443.2	0.0	2443.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	2.5
10°-20°	128.0	5.2
20°-30°	187.3	7.7
30°-40°	263.8	10.8
40°-50°	362.6	14.8
50°-60°	494.2	20.2
60°-70°	540.9	22.1
70°-80°	312.3	12.8
80°-90°	93.5	3.8
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°	2443.2	100.0
0°-180°	2443.2	100.0

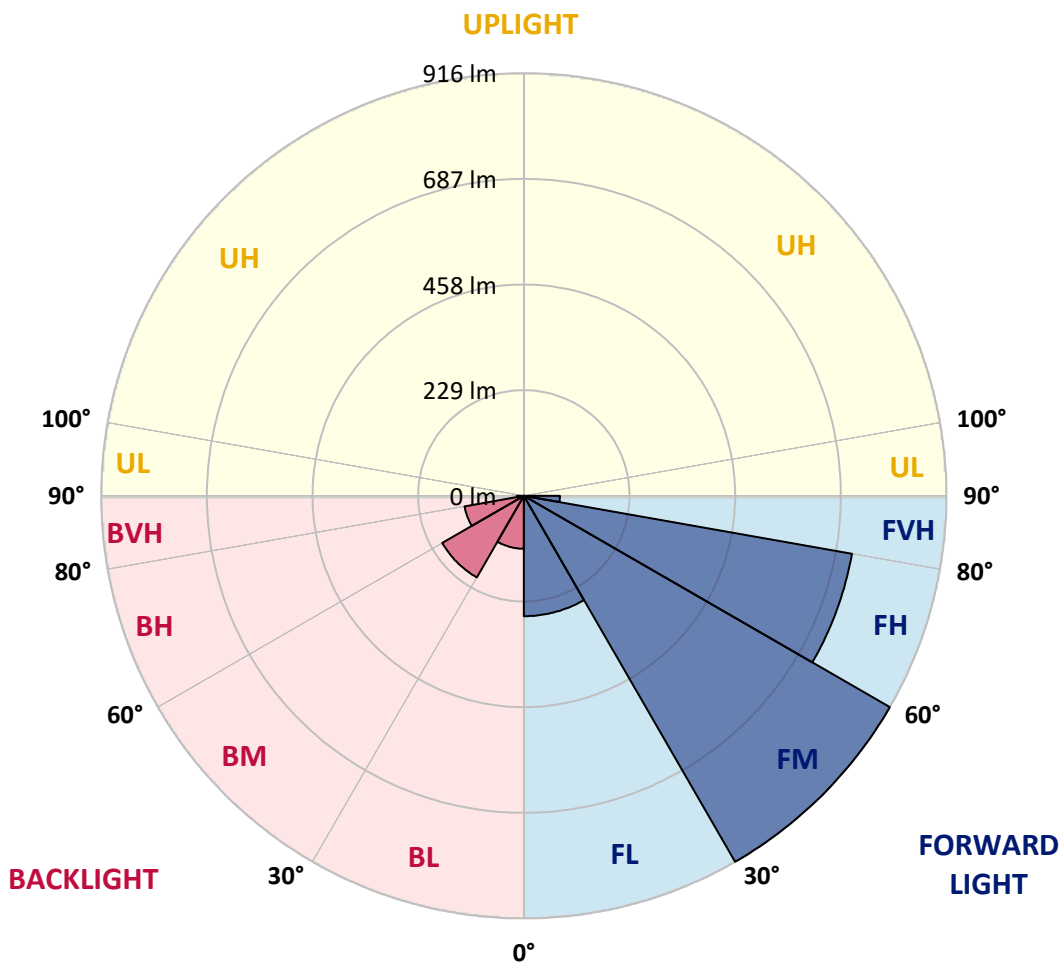


REPORT NUMBER: P675909
 CATALOG NUMBER: CCW-SA-1B-840-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.0	10.7			
FM (30°-60°)	916.4	37.5			
FH (60°-80°)	722.5	29.6			G1/1800
FVH (80°-90°)	78.3	3.2			G1/100
BL (0°-30°)	114.9	4.7	B1/500		
BM (30°-60°)	204.3	8.4	B0/220		
BH (60°-80°)	130.6	5.3	B1/500		G1/500
BVH (80°-90°)	15.2	0.6			G1/100
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: P675909

CATALOG NUMBER: CCW-SA-1B-840-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3
2.5°	835.6	832.4	835.6	847.5	850.8	856.2	856.2	848.6	834.5	828.0	817.2
5°	854.0	848.6	875.7	900.6	920.1	918.0	899.6	884.4	856.2	813.9	773.8
7.5°	817.2	822.6	842.1	907.1	952.7	961.3	932.1	901.7	841.0	782.5	728.3
10°	747.8	755.4	797.7	864.9	936.4	950.5	932.1	895.2	822.6	750.0	687.1
12.5°	714.2	731.6	756.5	837.8	888.7	922.3	913.6	889.8	808.5	722.9	662.2
15°	714.2	718.6	755.4	823.7	852.9	854.0	857.3	861.6	812.8	734.8	653.5
17.5°	737.0	748.9	780.3	822.6	828.0	815.0	815.0	833.4	821.5	768.4	685.0
20°	792.3	787.9	829.1	846.4	817.2	784.7	781.4	812.8	831.3	804.2	742.4
22.5°	847.5	867.0	900.6	861.6	807.4	764.1	759.7	798.8	860.5	866.0	808.5
25°	931.0	950.5	967.8	920.1	806.3	758.7	761.9	792.3	896.3	953.7	919.1
27.5°	1020.9	1032.9	1057.8	984.1	832.4	752.2	755.4	800.9	929.9	1011.2	1005.8
30°	1071.9	1084.9	1079.5	996.0	849.7	756.5	747.8	812.8	911.5	1011.2	1062.1
32.5°	1121.7	1114.1	1110.9	1015.5	871.4	783.6	761.9	837.8	922.3	1027.4	1134.7
35°	1182.4	1171.6	1162.9	1053.4	907.1	809.6	799.8	870.3	946.2	1061.0	1193.3
37.5°	1249.6	1249.6	1207.3	1081.6	949.4	851.9	841.0	916.9	984.1	1081.6	1273.5
40°	1328.7	1332.0	1257.2	1119.6	997.1	919.1	915.8	977.6	1020.9	1112.0	1350.4
42.5°	1387.3	1389.4	1300.6	1133.7	1052.4	1012.3	1026.4	1075.1	1063.2	1139.1	1355.8
45°	1427.4	1416.5	1330.9	1173.8	1113.1	1152.1	1156.4	1170.5	1118.5	1155.3	1377.5
47.5°	1446.9	1444.7	1343.9	1220.4	1240.9	1294.1	1319.0	1299.5	1169.4	1138.0	1377.5
50°	1466.4	1448.0	1355.8	1284.3	1365.6	1472.9	1467.5	1431.7	1239.9	1159.7	1356.9
52.5°	1479.4	1463.1	1379.7	1341.7	1484.8	1606.2	1627.9	1561.7	1322.2	1199.8	1366.7
55°	1526.0	1513.0	1451.2	1419.8	1622.4	1747.1	1750.3	1658.2	1408.9	1265.9	1430.6
57.5°	1582.3	1589.9	1549.8	1530.3	1727.6	1850.0	1838.1	1729.7	1482.6	1346.1	1504.3
60°	1622.4	1634.4	1624.6	1626.8	1779.6	1884.7	1857.6	1774.2	1536.8	1406.8	1594.3
62.5°	1600.8	1624.6	1664.7	1656.0	1781.8	1859.8	1821.9	1715.6	1543.3	1485.9	1662.5
65°	1541.2	1543.3	1621.4	1669.0	1684.2	1730.8	1681.0	1593.2	1476.1	1534.7	1652.8
67.5°	1388.3	1405.7	1476.1	1569.3	1505.4	1516.2	1511.9	1385.1	1374.3	1501.1	1578.0
70°	1225.8	1237.7	1314.6	1424.1	1271.3	1220.4	1230.1	1135.8	1180.3	1397.0	1427.4
72.5°	1013.3	1020.9	1108.7	1205.2	1019.9	928.8	951.6	874.6	937.5	1222.5	1204.1
75°	765.2	779.2	847.5	961.3	751.1	692.5	715.3	683.9	742.4	1006.8	934.2
77.5°	544.1	533.2	617.8	752.2	564.7	530.0	532.1	537.6	600.4	848.6	670.9
80°	370.7	373.9	449.8	551.7	443.3	437.9	432.4	475.8	504.0	672.0	487.7
82.5°	220.0	220.0	303.5	392.3	350.1	394.5	369.6	408.6	394.5	494.2	319.7
85°	103.0	103.0	156.1	282.9	270.9	325.1	276.4	308.9	291.5	344.6	144.1
87.5°	17.3	15.2	31.4	138.7	111.6	126.8	49.9	164.7	183.2	240.6	35.8
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: P675909
 CATALOG NUMBER: CCW-SA-1B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3
2.5°	805.3	797.7	782.5	763.0	746.7	726.1	719.6	705.6	686.0	683.9	675.2
5°	758.7	732.6	700.1	660.0	632.9	604.8	580.9	566.8	550.6	548.4	544.1
7.5°	707.7	675.2	621.0	573.3	526.7	482.3	460.6	433.5	415.1	401.0	394.5
10°	660.0	629.7	562.5	497.5	456.3	427.0	401.0	372.8	350.1	332.7	326.2
12.5°	628.6	592.8	520.2	458.4	428.1	394.5	365.2	334.9	305.6	282.9	270.9
15°	614.5	580.9	507.2	438.9	394.5	347.9	314.3	284.0	248.2	231.9	226.5
17.5°	648.1	598.3	502.9	416.2	353.3	300.2	259.0	226.5	200.5	184.2	177.7
20°	691.5	629.7	510.5	389.1	314.3	254.7	209.2	174.5	157.2	145.2	144.1
22.5°	746.7	676.3	522.4	369.6	270.9	204.8	163.7	143.1	131.1	130.1	127.9
25°	845.4	760.8	541.9	343.6	236.3	169.1	139.8	127.9	122.5	119.2	121.4
27.5°	929.9	816.1	556.0	327.3	222.2	159.3	135.5	122.5	117.0	116.0	117.0
30°	979.8	867.0	551.7	297.0	194.0	151.7	144.1	139.8	129.0	120.3	120.3
32.5°	1025.3	899.6	550.6	269.9	165.8	126.8	120.3	117.0	123.6	127.9	124.6
35°	1088.1	950.5	547.3	254.7	153.9	117.0	106.2	97.5	93.2	91.0	94.3
37.5°	1155.3	985.2	538.6	252.5	147.4	111.6	103.0	94.3	90.0	87.8	86.7
40°	1229.0	1022.0	528.9	241.7	144.1	108.4	99.7	92.1	86.7	83.5	82.4
42.5°	1276.7	1051.3	519.1	236.3	137.6	106.2	96.5	90.0	84.5	80.2	80.2
45°	1303.8	1086.0	509.4	230.8	130.1	107.3	96.5	87.8	81.3	79.1	76.9
47.5°	1315.7	1112.0	506.1	222.2	123.6	103.0	94.3	85.6	79.1	74.8	73.7
50°	1347.2	1167.2	518.1	215.7	116.0	98.6	99.7	84.5	78.0	72.6	71.5
52.5°	1365.6	1211.7	544.1	205.9	110.5	93.2	97.5	82.4	74.8	69.4	69.4
55°	1432.8	1285.4	572.2	198.3	104.0	85.6	90.0	78.0	69.4	66.1	66.1
57.5°	1518.4	1363.4	596.1	195.1	99.7	80.2	80.2	75.9	66.1	61.8	60.7
60°	1578.0	1427.4	610.2	192.9	95.4	74.8	71.5	75.9	62.9	58.5	57.4
62.5°	1584.5	1390.5	596.1	191.8	94.3	69.4	65.0	72.6	59.6	55.3	53.1
65°	1543.3	1315.7	557.1	187.5	93.2	63.9	60.7	62.9	55.3	52.0	49.9
67.5°	1461.0	1194.3	500.7	185.3	92.1	59.6	55.3	54.2	50.9	47.7	45.5
70°	1269.1	1036.1	434.6	175.6	90.0	56.4	49.9	48.8	45.5	43.4	42.3
72.5°	1065.4	847.5	358.7	162.6	85.6	50.9	45.5	43.4	42.3	39.0	37.9
75°	816.1	652.4	287.2	144.1	74.8	45.5	40.1	37.9	36.8	34.7	33.6
77.5°	573.3	485.5	212.4	117.0	62.9	41.2	35.8	33.6	32.5	29.3	29.3
80°	389.1	340.3	144.1	81.3	48.8	33.6	31.4	29.3	27.1	24.9	24.9
82.5°	241.7	238.4	104.0	53.1	35.8	27.1	24.9	24.9	21.7	19.5	19.5
85°	110.5	146.3	72.6	36.8	27.1	20.6	20.6	19.5	17.3	14.1	14.1
87.5°	34.7	48.8	37.9	16.3	15.2	11.9	11.9	10.8	10.8	8.7	8.7
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: P675909
 CATALOG NUMBER: CCW-SA-1B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3
2.5°	683.9	682.8	682.8	678.5	689.3	689.3	695.8	690.4	693.6	694.7	703.4
5°	543.0	551.7	558.2	571.2	578.7	582.0	582.0	590.7	587.4	593.9	606.9
7.5°	397.8	408.6	428.1	444.4	457.4	461.7	460.6	462.8	466.0	458.4	460.6
10°	321.9	314.3	320.8	336.0	347.9	362.0	351.1	350.1	353.3	350.1	356.6
12.5°	268.8	260.1	254.7	254.7	263.4	269.9	266.6	272.0	284.0	287.2	294.8
15°	217.8	210.3	205.9	200.5	209.2	211.3	214.6	222.2	230.8	235.2	243.9
17.5°	174.5	174.5	174.5	170.2	173.4	176.7	177.7	187.5	188.6	192.9	196.2
20°	143.1	146.3	151.7	153.9	157.2	157.2	155.0	160.4	156.1	159.3	161.5
22.5°	129.0	133.3	135.5	136.6	140.9	142.0	136.6	137.6	138.7	135.5	136.6
25°	121.4	123.6	121.4	122.5	123.6	121.4	122.5	124.6	123.6	125.7	124.6
27.5°	118.1	116.0	114.9	113.8	113.8	111.6	112.7	112.7	114.9	116.0	116.0
30°	118.1	114.9	110.5	107.3	107.3	104.0	106.2	108.4	109.5	111.6	111.6
32.5°	121.4	114.9	107.3	104.0	100.8	98.6	100.8	104.0	108.4	109.5	110.5
35°	96.5	99.7	98.6	94.3	93.2	93.2	92.1	92.1	88.9	88.9	87.8
37.5°	86.7	85.6	87.8	88.9	90.0	86.7	86.7	82.4	81.3	82.4	82.4
40°	81.3	81.3	81.3	84.5	85.6	83.5	80.2	78.0	78.0	78.0	79.1
42.5°	79.1	76.9	75.9	78.0	81.3	79.1	75.9	74.8	74.8	75.9	75.9
45°	75.9	74.8	73.7	72.6	76.9	73.7	72.6	71.5	71.5	71.5	72.6
47.5°	72.6	71.5	69.4	69.4	70.4	69.4	68.3	68.3	68.3	70.4	70.4
50°	70.4	69.4	67.2	67.2	67.2	67.2	66.1	66.1	66.1	67.2	68.3
52.5°	67.2	66.1	65.0	63.9	63.9	63.9	63.9	63.9	63.9	65.0	66.1
55°	63.9	62.9	61.8	61.8	62.9	62.9	61.8	62.9	61.8	62.9	63.9
57.5°	60.7	59.6	58.5	59.6	60.7	59.6	59.6	59.6	59.6	59.6	60.7
60°	56.4	56.4	56.4	56.4	58.5	58.5	58.5	58.5	56.4	57.4	58.5
62.5°	54.2	53.1	53.1	54.2	55.3	55.3	56.4	55.3	54.2	55.3	55.3
65°	49.9	49.9	49.9	50.9	50.9	52.0	52.0	52.0	50.9	52.0	52.0
67.5°	46.6	46.6	46.6	46.6	48.8	48.8	48.8	48.8	47.7	47.7	48.8
70°	41.2	42.3	41.2	43.4	45.5	44.4	45.5	45.5	44.4	43.4	45.5
72.5°	37.9	37.9	37.9	37.9	41.2	41.2	41.2	42.3	41.2	40.1	41.2
75°	33.6	33.6	33.6	34.7	36.8	36.8	36.8	36.8	36.8	35.8	35.8
77.5°	29.3	30.3	29.3	30.3	32.5	31.4	32.5	33.6	32.5	31.4	31.4
80°	24.9	24.9	24.9	26.0	27.1	27.1	27.1	28.2	27.1	26.0	26.0
82.5°	19.5	19.5	20.6	20.6	21.7	21.7	21.7	22.8	21.7	20.6	20.6
85°	15.2	15.2	15.2	16.3	16.3	17.3	17.3	18.4	18.4	17.3	17.3
87.5°	9.8	8.7	9.8	9.8	10.8	10.8	9.8	8.7	9.8	8.7	7.6
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: P675909
 CATALOG NUMBER: CCW-SA-1B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3	780.3
2.5°	712.1	731.6	745.7	755.4	769.5	796.6	807.4	826.9	832.4	835.6
5°	612.3	632.9	663.3	685.0	709.9	760.8	799.8	829.1	842.1	854.0
7.5°	480.1	507.2	538.6	566.8	608.0	670.9	721.8	782.5	805.3	817.2
10°	375.0	399.9	434.6	469.3	526.7	579.8	652.4	707.7	739.1	747.8
12.5°	316.5	345.7	386.9	429.2	464.9	525.6	599.3	679.5	708.8	714.2
15°	268.8	308.9	351.1	394.5	435.7	488.8	567.9	665.5	708.8	714.2
17.5°	222.2	257.9	307.8	354.4	402.1	474.7	573.3	677.4	720.7	737.0
20°	176.7	211.3	250.4	308.9	373.9	450.9	585.2	717.5	774.9	792.3
22.5°	146.3	161.5	199.4	255.8	332.7	434.6	597.2	780.3	841.0	847.5
25°	127.9	138.7	162.6	215.7	300.2	423.8	625.4	852.9	931.0	931.0
27.5°	119.2	123.6	139.8	187.5	277.5	414.0	653.5	933.1	1005.8	1020.9
30°	117.0	127.9	136.6	166.9	252.5	386.9	679.5	996.0	1070.8	1071.9
32.5°	114.9	112.7	119.2	145.2	222.2	358.7	701.2	1060.0	1118.5	1121.7
35°	90.0	94.3	105.1	127.9	199.4	338.1	712.1	1094.6	1179.2	1182.4
37.5°	84.5	90.0	98.6	118.1	184.2	320.8	715.3	1161.8	1243.1	1249.6
40°	82.4	86.7	93.2	109.5	172.3	299.1	721.8	1231.2	1337.4	1328.7
42.5°	78.0	83.5	90.0	105.1	162.6	282.9	722.9	1269.1	1387.3	1387.3
45°	76.9	80.2	87.8	105.1	151.7	268.8	705.6	1307.1	1444.7	1427.4
47.5°	72.6	79.1	85.6	101.9	138.7	254.7	685.0	1326.6	1452.3	1446.9
50°	71.5	78.0	88.9	96.5	131.1	248.2	680.6	1375.3	1467.5	1466.4
52.5°	69.4	75.9	92.1	92.1	121.4	239.5	701.2	1397.0	1470.7	1479.4
55°	66.1	75.9	85.6	84.5	112.7	228.7	724.0	1453.4	1528.2	1526.0
57.5°	63.9	73.7	81.3	76.9	103.0	221.1	757.6	1507.6	1597.5	1582.3
60°	60.7	73.7	72.6	71.5	95.4	214.6	785.8	1518.4	1612.7	1622.4
62.5°	58.5	76.9	63.9	66.1	88.9	211.3	773.8	1437.1	1592.1	1600.8
65°	56.4	66.1	58.5	60.7	86.7	204.8	727.2	1339.6	1503.2	1541.2
67.5°	52.0	54.2	54.2	56.4	84.5	189.7	631.9	1164.0	1367.7	1388.3
70°	47.7	48.8	48.8	52.0	82.4	172.3	521.3	1006.8	1186.8	1225.8
72.5°	43.4	43.4	43.4	47.7	75.9	158.2	429.2	773.8	986.3	1013.3
75°	37.9	37.9	37.9	42.3	68.3	144.1	338.1	575.5	726.1	765.2
77.5°	33.6	33.6	32.5	37.9	59.6	117.0	243.9	406.4	511.6	544.1
80°	28.2	27.1	27.1	30.3	46.6	84.5	157.2	287.2	356.6	370.7
82.5°	22.8	21.7	20.6	22.8	33.6	53.1	97.5	200.5	228.7	220.0
85°	21.7	22.8	18.4	17.3	23.8	34.7	61.8	123.6	103.0	103.0
87.5°	8.7	7.6	7.6	6.5	11.9	13.0	27.1	22.8	17.3	17.3
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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