

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: P677416

Luminaire Tested: **CCW-SA-1B-735-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677416
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-735-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) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

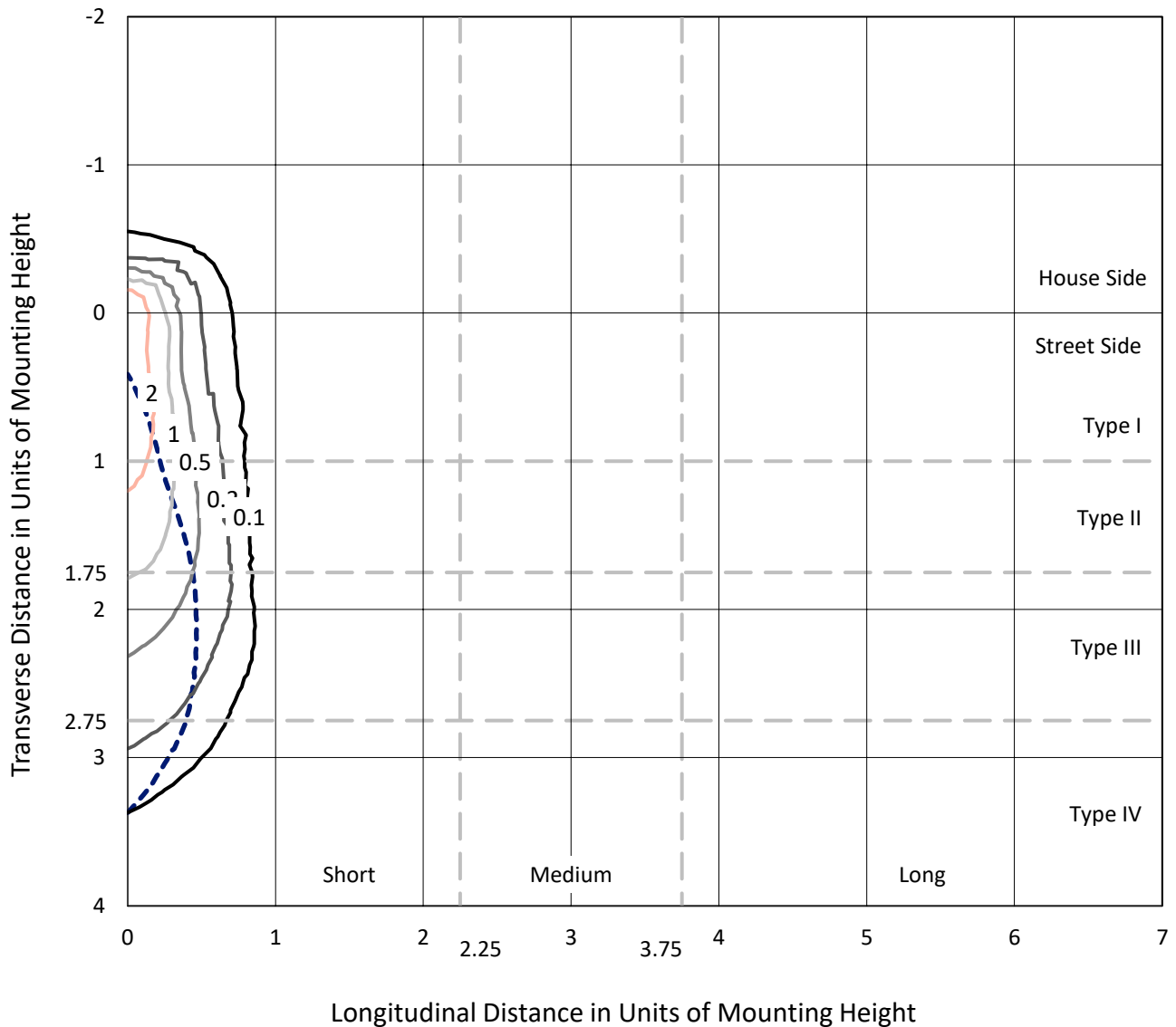
Lumens per Lamp: N/A
Luminaire Lumens: 2447.9 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
Input Current (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: P677416
 CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

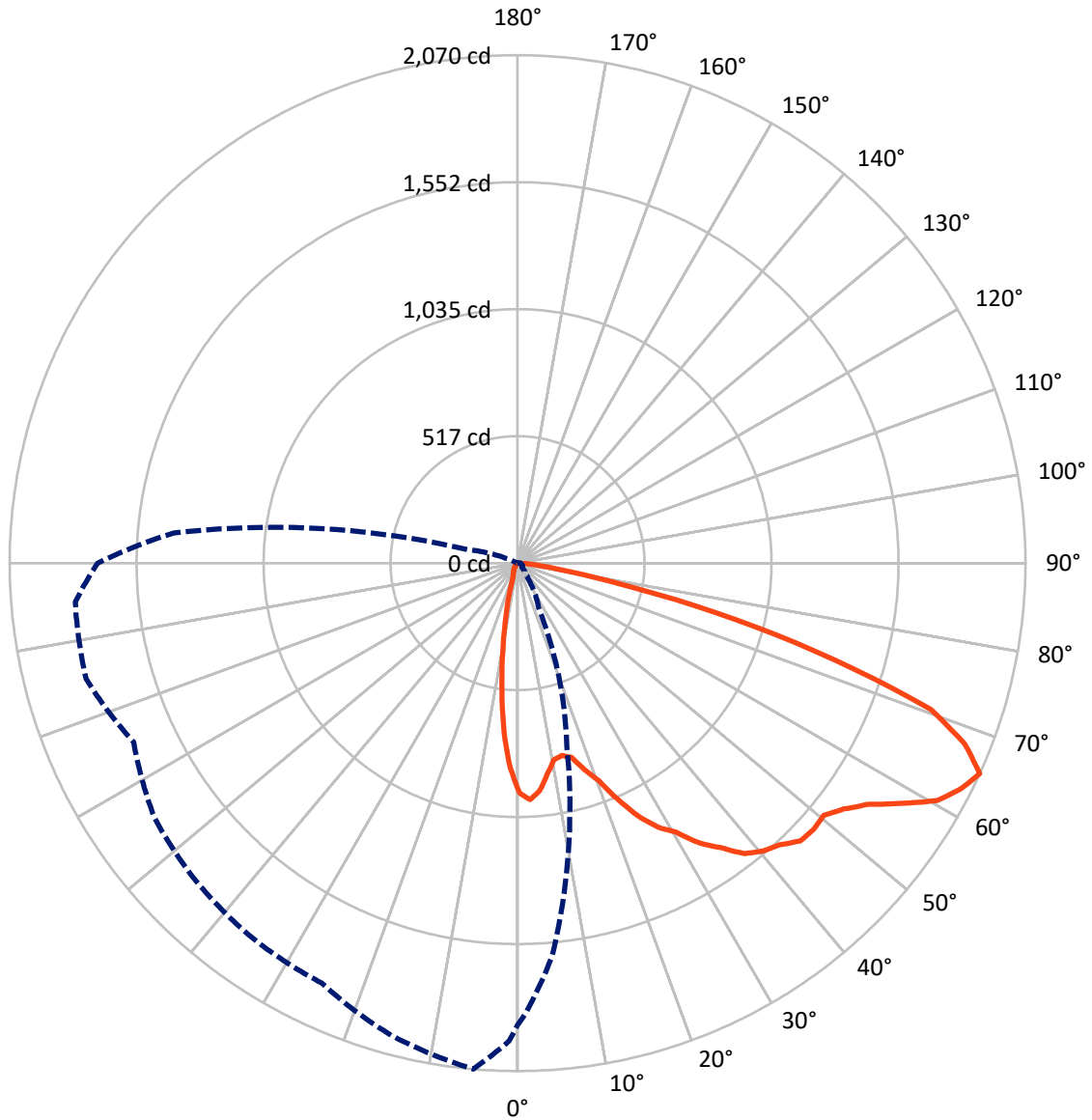
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P677416
CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677416
 CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

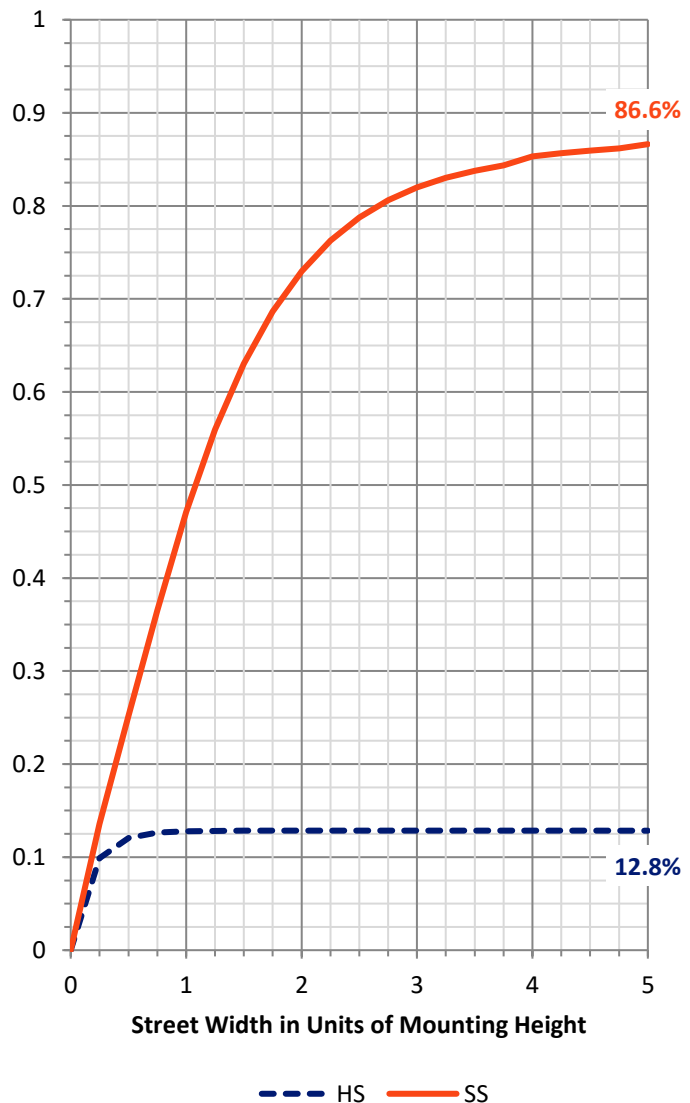
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	317.8	0.0	317.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2130.0	0.0	2130.0
	% Fixture	87.0	0.0	87.0
Total	Lumens	2447.9	0.0	2447.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	2.9
10°-20°	137.3	5.6
20°-30°	191.2	7.8
30°-40°	271.6	11.1
40°-50°	376.7	15.4
50°-60°	513.3	21.0
60°-70°	564.3	23.1
70°-80°	277.3	11.3
80°-90°	45.3	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°	2447.9	100.0
0°-180°	2447.9	100.0



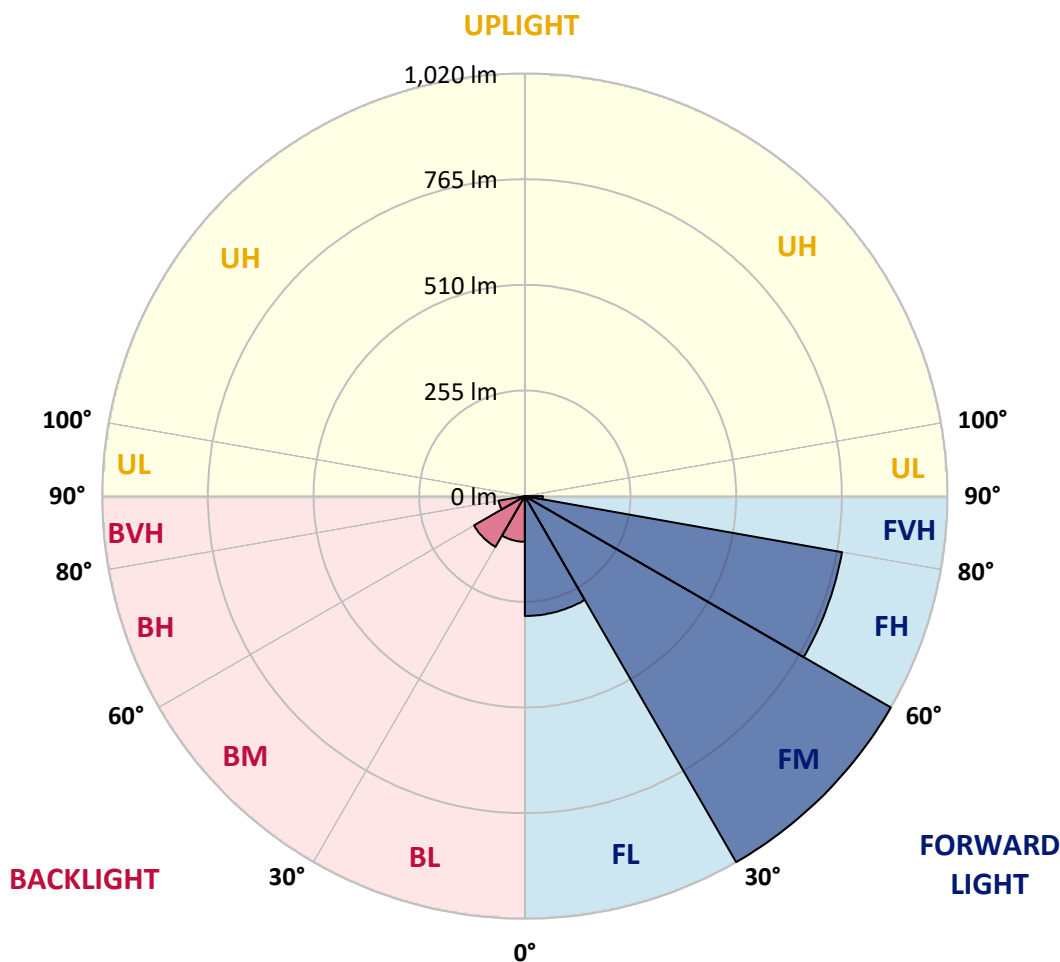
REPORT NUMBER: P677416
 CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.3	11.8			
FM (30°-60°)	1020.1	41.7			
FH (60°-80°)	777.4	31.8			G1/1800
FVH (80°-90°)	43.3	1.8			G1/100
BL (0°-30°)	110.0	4.5	B1/500		
BM (30°-60°)	141.5	5.8	B0/220		
BH (60°-80°)	64.2	2.6	B0/110		G0/110
BVH (80°-90°)	2.0	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: P677416

CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8
2.5°	955.0	966.2	955.6	918.7	912.1	894.2	867.2	865.2	836.8	840.1	824.9
5°	897.5	908.8	886.3	837.5	791.9	755.6	733.9	694.9	686.4	667.2	667.2
7.5°	838.8	838.1	799.9	758.9	691.0	624.3	594.0	537.9	504.9	487.0	469.9
10°	790.0	779.4	755.6	671.2	597.3	528.0	490.3	453.4	419.1	389.4	359.7
12.5°	755.6	762.2	724.6	632.9	537.2	489.0	448.8	409.8	368.9	335.3	302.3
15°	773.5	762.9	718.7	624.3	527.3	461.3	407.9	360.3	314.8	270.6	245.5
17.5°	828.9	801.8	749.7	624.3	506.8	419.1	354.4	298.3	249.5	209.9	178.8
20°	903.5	872.5	816.4	647.4	491.7	388.1	299.6	229.0	178.2	141.2	117.5
22.5°	980.0	955.6	871.1	656.7	473.8	346.5	236.3	165.6	118.8	95.0	83.2
25°	1071.8	1037.5	945.1	693.6	447.5	306.2	186.1	115.5	88.4	75.9	68.6
27.5°	1145.0	1139.1	1014.4	716.1	427.7	273.2	147.2	91.7	73.3	64.0	59.4
30°	1237.4	1205.1	1098.8	760.9	405.2	235.6	122.8	82.5	67.3	57.4	54.1
32.5°	1292.9	1277.7	1143.0	786.0	380.1	204.6	105.6	72.6	61.4	54.1	50.8
35°	1373.4	1343.0	1206.4	801.8	366.9	186.8	95.0	66.0	51.5	44.2	40.3
37.5°	1463.1	1451.9	1282.3	801.2	347.8	176.2	87.8	61.4	48.8	40.9	36.3
40°	1554.9	1509.3	1328.5	819.7	337.9	168.3	82.5	58.7	46.2	38.9	33.0
42.5°	1623.5	1571.4	1381.9	813.1	326.0	154.4	80.5	54.8	44.2	35.6	30.4
45°	1642.0	1623.5	1430.1	811.1	317.4	143.2	77.2	54.1	42.9	33.7	28.4
47.5°	1677.6	1665.1	1489.5	814.4	310.8	134.6	69.3	55.4	40.9	31.7	27.1
50°	1693.4	1671.0	1537.7	822.3	295.7	124.1	62.0	58.1	40.3	31.0	25.7
52.5°	1758.8	1739.0	1603.7	844.7	283.1	110.2	54.8	55.4	41.6	29.0	24.4
55°	1822.8	1800.4	1705.3	896.2	265.3	99.0	46.9	48.8	39.6	26.4	21.8
57.5°	1910.6	1873.6	1773.3	917.3	249.5	83.8	41.6	40.3	37.0	23.8	19.1
60°	1923.8	1939.0	1763.4	904.1	233.0	73.9	36.3	31.0	39.6	21.1	16.5
62.5°	1968.0	1904.6	1717.2	873.8	221.1	68.0	32.3	25.7	34.3	18.5	13.9
65°	1882.9	1836.0	1609.0	776.1	205.9	68.6	28.4	21.1	21.8	15.2	11.2
67.5°	1758.1	1721.2	1429.5	669.9	190.7	67.3	25.1	18.5	16.5	13.2	9.9
70°	1543.0	1463.1	1214.3	543.8	168.3	62.7	21.1	16.5	13.9	10.6	7.3
72.5°	1122.6	1090.2	871.1	420.4	151.1	56.8	19.8	13.9	11.9	7.9	5.9
75°	755.6	702.2	549.7	275.9	121.4	49.5	16.5	12.5	9.2	5.9	4.6
77.5°	399.3	377.5	311.5	131.3	67.3	23.1	9.2	7.3	5.3	4.6	2.6
80°	172.9	153.8	134.6	53.5	23.8	10.6	5.9	4.0	3.3	2.6	1.3
82.5°	88.4	84.5	70.0	23.1	13.9	7.9	3.3	2.6	2.0	1.3	0.7
85°	43.6	44.9	37.0	7.3	7.9	4.6	0.7	0.7	0.0	0.0	0.0
87.5°	3.3	3.3	2.6	1.3	2.0	0.7	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: P677416
 CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8
2.5°	819.0	828.2	812.4	822.3	817.7	819.7	821.6	816.4	817.7	836.2	836.8
5°	656.0	673.8	667.2	676.5	692.3	684.4	691.6	690.3	691.6	694.3	706.2
7.5°	467.9	462.6	475.2	499.6	528.0	545.1	536.5	531.9	529.3	522.7	530.6
10°	353.1	350.4	347.1	354.4	372.9	392.0	402.6	384.8	374.9	362.3	357.7
12.5°	293.0	276.5	267.3	256.1	261.3	278.5	279.2	262.0	246.2	239.6	246.8
15°	231.0	219.8	203.3	187.4	179.5	192.7	181.5	165.0	144.5	141.9	141.2
17.5°	165.0	158.4	146.5	139.9	130.7	127.4	115.5	90.4	75.9	71.9	73.3
20°	112.2	106.9	106.3	100.3	96.4	93.7	74.6	58.1	53.5	54.1	54.8
22.5°	83.2	80.5	77.2	76.6	73.3	70.0	54.8	48.8	45.5	45.5	47.5
25°	68.0	66.7	63.4	62.0	60.7	56.1	46.2	41.6	40.3	38.9	40.9
27.5°	58.1	57.4	55.4	53.5	52.1	47.5	40.3	36.3	35.0	35.0	35.0
30°	52.1	52.1	49.5	45.5	45.5	40.3	34.3	31.7	30.4	30.4	29.7
32.5°	48.8	47.5	44.2	41.6	39.6	34.3	30.4	27.7	25.7	25.7	26.4
35°	39.6	39.6	38.9	37.0	34.3	29.0	25.7	23.1	21.8	21.1	21.8
37.5°	35.0	33.0	30.4	31.0	29.7	25.1	21.8	19.8	17.8	17.8	17.8
40°	31.7	29.7	27.1	25.1	24.4	22.4	19.1	15.8	13.9	13.2	13.2
42.5°	28.4	27.1	23.1	19.8	19.1	19.1	14.5	11.9	9.9	9.9	9.9
45°	26.4	24.4	21.1	17.2	13.9	14.5	11.9	8.6	7.3	6.6	6.6
47.5°	25.1	23.1	18.5	14.5	10.6	10.6	8.6	5.9	4.6	4.0	4.0
50°	23.1	21.1	16.5	11.9	7.9	6.6	5.3	3.3	2.0	1.3	1.3
52.5°	21.8	19.8	14.5	9.9	6.6	4.6	3.3	0.7	0.0	0.0	0.0
55°	19.8	17.2	12.5	7.9	5.3	2.6	0.7	0.0	0.0	0.0	0.0
57.5°	17.2	15.2	9.9	5.9	3.3	0.7	0.0	0.0	0.0	0.0	0.0
60°	14.5	12.5	7.9	4.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11.9	10.6	5.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9.9	7.9	4.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.6	4.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.6	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.7	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: P677416
 CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8
2.5°	839.5	859.3	877.7	883.0	897.5	937.8	937.8	956.9	991.3	1003.8	1006.4
5°	708.1	729.3	733.2	774.1	793.3	834.2	861.2	925.9	964.9	989.3	1004.5
7.5°	538.5	545.8	561.0	599.2	636.9	686.4	737.8	820.3	889.0	916.7	968.2
10°	370.2	392.0	425.0	459.3	518.1	572.8	639.5	717.4	801.8	836.2	880.4
12.5°	249.5	279.8	332.6	381.5	435.6	491.0	554.4	658.6	754.3	801.8	846.1
15°	145.9	182.8	228.3	307.5	379.5	441.5	504.9	610.5	726.6	788.0	842.1
17.5°	73.9	85.1	122.8	191.4	286.4	388.1	482.4	617.1	747.7	823.0	867.8
20°	55.4	58.7	69.3	101.6	196.0	320.7	461.3	627.0	806.5	898.2	922.6
22.5°	48.2	50.8	55.4	66.0	110.2	245.5	431.6	651.4	886.3	972.8	1024.3
25°	40.9	43.6	47.5	54.1	70.6	167.0	395.3	677.1	957.6	1066.5	1114.7
27.5°	35.6	37.6	41.6	46.9	57.4	106.3	332.6	711.4	1066.5	1180.0	1192.5
30°	30.4	32.3	35.6	41.6	48.8	75.2	244.2	716.1	1126.5	1229.5	1264.5
32.5°	26.4	27.1	31.0	36.3	40.9	59.4	171.6	720.7	1170.8	1293.5	1300.8
35°	21.8	23.1	27.1	30.4	35.6	46.9	130.0	697.6	1228.2	1359.5	1357.5
37.5°	17.8	19.8	22.4	25.1	29.0	39.6	103.6	654.7	1300.1	1461.8	1399.8
40°	13.9	15.8	18.5	21.8	24.4	35.6	77.9	590.0	1375.3	1512.0	1446.0
42.5°	9.9	11.2	13.9	17.2	21.8	29.7	56.1	513.4	1405.0	1570.7	1501.4
45°	7.3	8.6	10.6	14.5	22.4	23.8	38.9	443.5	1436.7	1596.4	1488.9
47.5°	4.0	5.3	7.9	12.5	19.8	17.8	27.7	380.8	1473.0	1619.5	1498.8
50°	1.3	2.0	4.6	13.2	15.8	13.9	21.8	347.1	1508.7	1624.2	1518.6
52.5°	0.0	0.0	2.6	13.9	11.9	10.6	19.1	333.9	1499.4	1638.7	1506.0
55°	0.0	0.0	0.7	5.9	6.6	7.9	15.8	333.3	1564.8	1643.3	1574.7
57.5°	0.0	0.0	0.0	2.0	4.0	6.6	13.9	312.2	1606.3	1758.1	1667.0
60°	0.0	0.0	0.0	0.7	2.6	4.6	10.6	293.7	1648.6	1809.6	1766.0
62.5°	0.0	0.0	0.0	0.0	0.7	2.0	7.3	265.3	1563.4	1805.6	1861.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	209.9	1406.4	1711.3	1808.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	145.2	1231.5	1592.5	1711.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.8	993.9	1396.5	1451.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.6	709.5	1108.7	1191.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	438.9	810.4	912.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	284.4	613.8	692.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	151.8	384.8	447.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0	233.6	269.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	141.9	161.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	29.0
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: P677416

CATALOG NUMBER: CCW-SA-1B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8
2.5°	1007.8	1026.9	1034.2	1022.9	1024.3	1001.2	997.9	965.5	952.3	955.0
5°	1054.0	1081.7	1096.8	1084.3	1055.9	1011.7	971.5	933.2	909.4	897.5
7.5°	1043.4	1074.4	1093.5	1105.4	1073.1	1001.8	940.4	868.5	838.1	838.8
10°	985.3	1050.0	1088.9	1073.7	1058.6	987.3	892.3	814.4	787.3	790.0
12.5°	938.5	1010.4	1033.5	1045.4	1014.4	957.6	893.6	804.5	774.1	755.6
15°	909.4	962.9	964.2	982.7	970.1	970.1	907.4	820.3	793.9	773.5
17.5°	909.4	921.3	920.0	926.6	947.7	972.8	942.4	884.3	832.2	828.9
20°	929.9	892.9	884.3	887.0	904.8	979.4	1019.6	947.0	914.0	903.5
22.5°	977.4	896.2	844.1	834.8	889.6	978.7	1069.1	1046.0	988.6	980.0
25°	1042.7	890.3	833.5	821.6	863.2	1002.5	1137.1	1141.7	1089.6	1071.8
27.5°	1104.8	916.7	832.2	829.6	884.3	997.2	1184.0	1218.3	1159.5	1145.0
30°	1125.9	943.1	856.6	821.6	892.3	1016.3	1182.6	1272.4	1234.1	1237.4
32.5°	1151.0	969.5	859.3	845.4	925.9	1047.4	1220.3	1359.5	1331.8	1292.9
35°	1187.9	1005.1	884.3	871.8	949.7	1075.1	1228.2	1423.5	1418.9	1373.4
37.5°	1219.6	1040.1	936.5	938.5	1022.3	1119.9	1263.2	1502.1	1494.1	1463.1
40°	1242.0	1088.9	1017.7	1022.9	1085.6	1170.1	1325.2	1541.7	1600.4	1554.9
42.5°	1245.3	1132.5	1110.7	1152.9	1211.7	1248.0	1350.3	1568.7	1653.2	1623.5
45°	1257.9	1201.8	1262.5	1293.5	1341.7	1316.6	1349.0	1614.9	1657.2	1642.0
47.5°	1306.7	1327.8	1404.4	1498.8	1515.9	1433.4	1380.6	1622.2	1679.6	1677.6
50°	1357.5	1463.1	1570.7	1633.4	1655.2	1513.9	1410.3	1616.2	1709.3	1693.4
52.5°	1414.3	1580.6	1735.7	1812.9	1801.0	1603.0	1444.0	1664.4	1764.1	1758.8
55°	1449.9	1633.4	1841.9	1949.5	1940.3	1702.7	1550.9	1733.7	1836.0	1822.8
57.5°	1544.3	1719.2	1947.5	1997.7	2022.1	1833.4	1625.5	1847.2	1896.1	1910.6
60°	1622.2	1775.3	1975.2	2047.8	2056.4	1911.2	1756.1	1964.0	1972.6	1923.8
62.5°	1736.3	1797.1	1916.5	1981.8	2026.1	1955.5	1873.6	2026.7	1971.3	1968.0
65°	1820.2	1725.8	1807.0	1843.3	1871.6	1888.1	1991.7	2069.6	1946.9	1882.9
67.5°	1773.3	1591.2	1576.0	1578.0	1586.5	1686.2	1952.2	1964.7	1810.9	1758.1
70°	1560.8	1305.4	1284.9	1300.8	1257.9	1378.0	1791.8	1785.8	1597.8	1543.0
72.5°	1262.5	951.7	916.7	938.5	948.4	1075.7	1507.3	1354.2	1165.5	1122.6
75°	1003.1	697.6	588.7	641.5	675.1	783.4	1177.4	920.0	813.7	755.6
77.5°	788.0	528.0	458.0	436.9	467.9	569.5	856.6	483.1	426.3	399.3
80°	499.6	388.1	421.1	390.7	403.9	406.5	446.1	219.8	174.9	172.9
82.5°	300.9	265.3	315.5	173.6	316.1	282.5	185.4	99.7	88.4	88.4
85°	213.2	164.3	108.9	70.6	140.6	155.1	71.9	51.5	44.9	43.6
87.5°	106.9	50.8	24.4	15.8	17.8	29.0	8.6	4.0	4.0	3.3
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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