

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: P677255

Luminaire Tested: **CCW-SA-2A-727-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677255
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

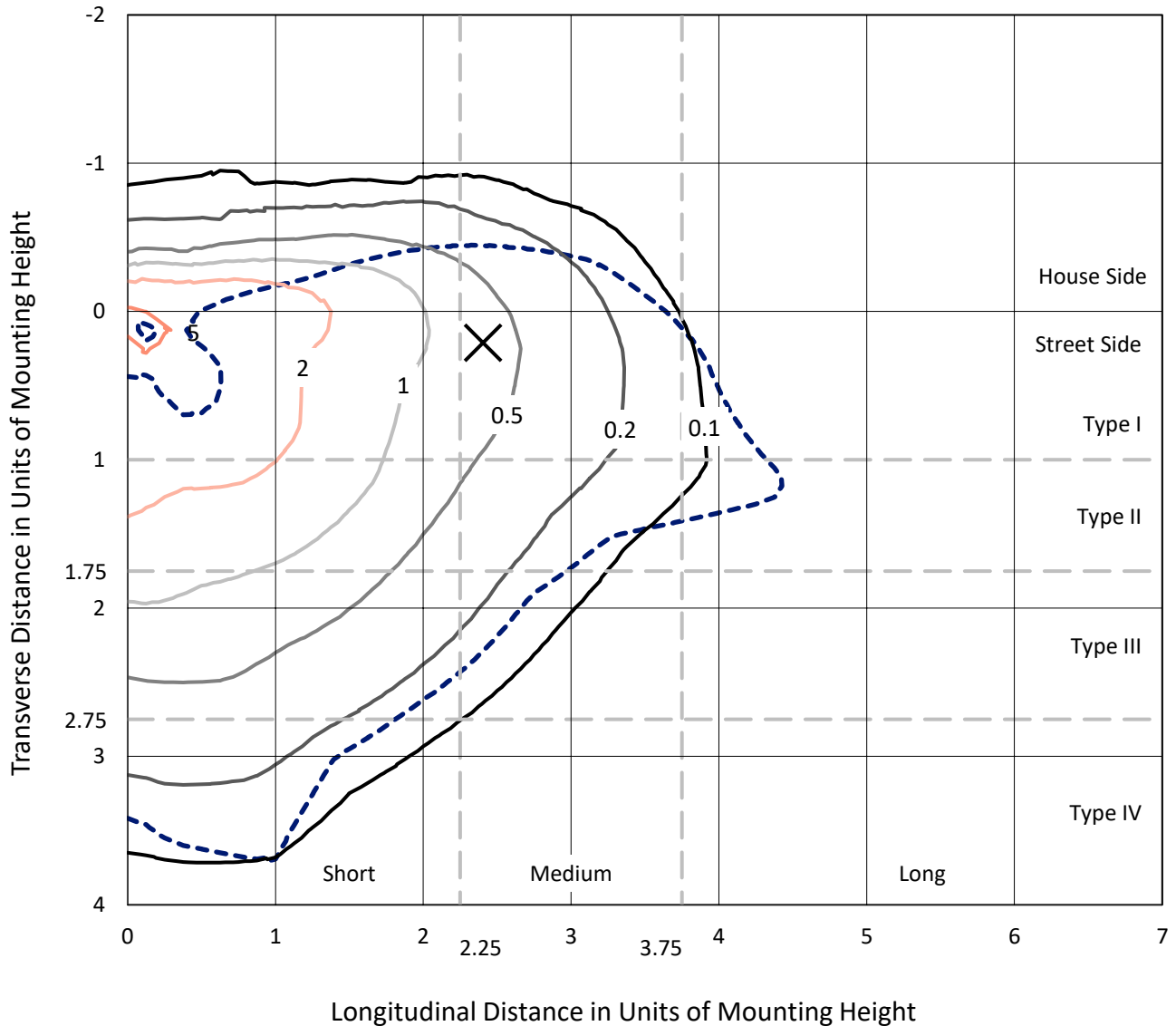
Lumens per Lamp: N/A
Luminaire Lumens: 3320 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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: P677255
 CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

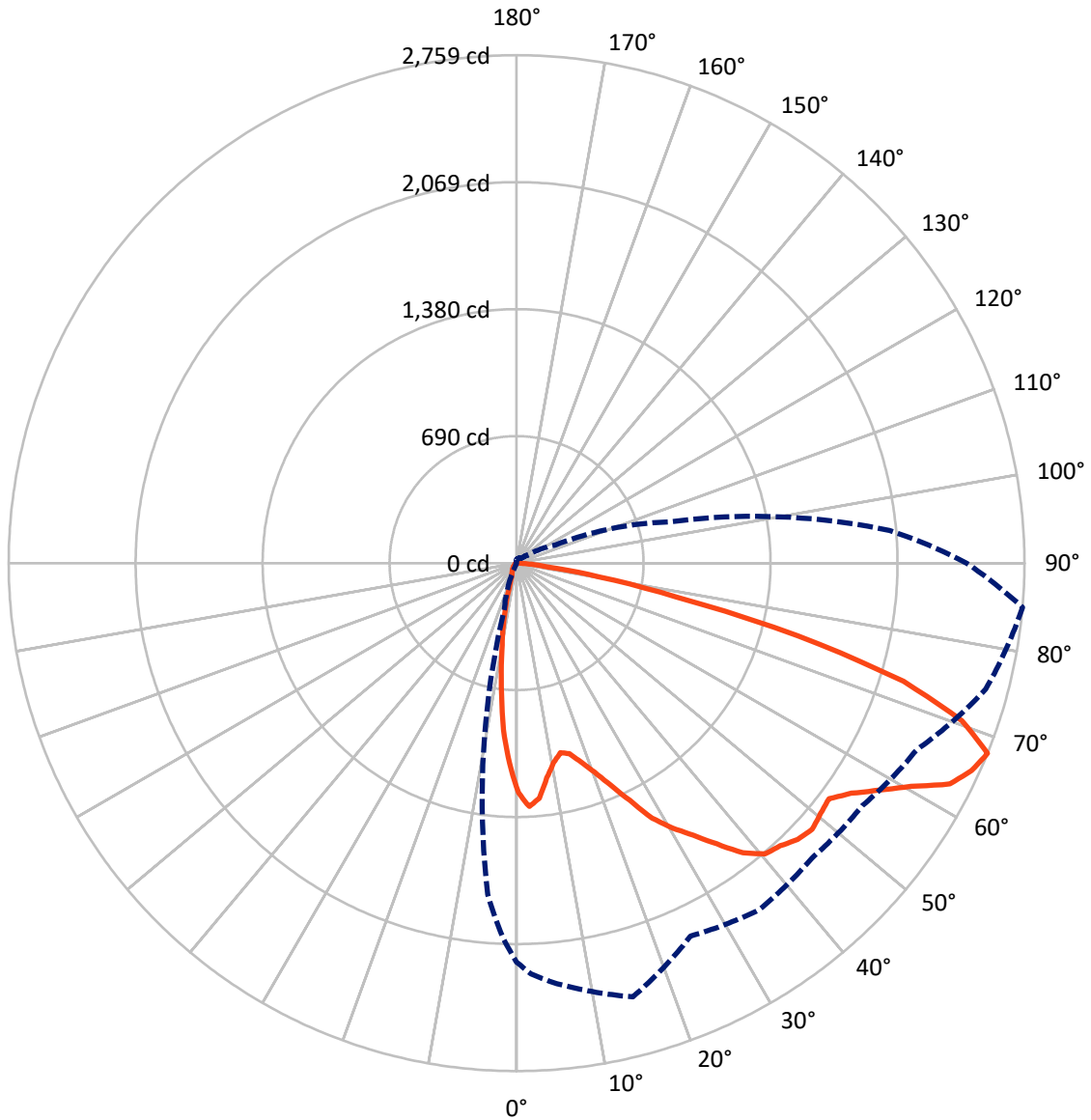
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P677255
CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677255
 CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

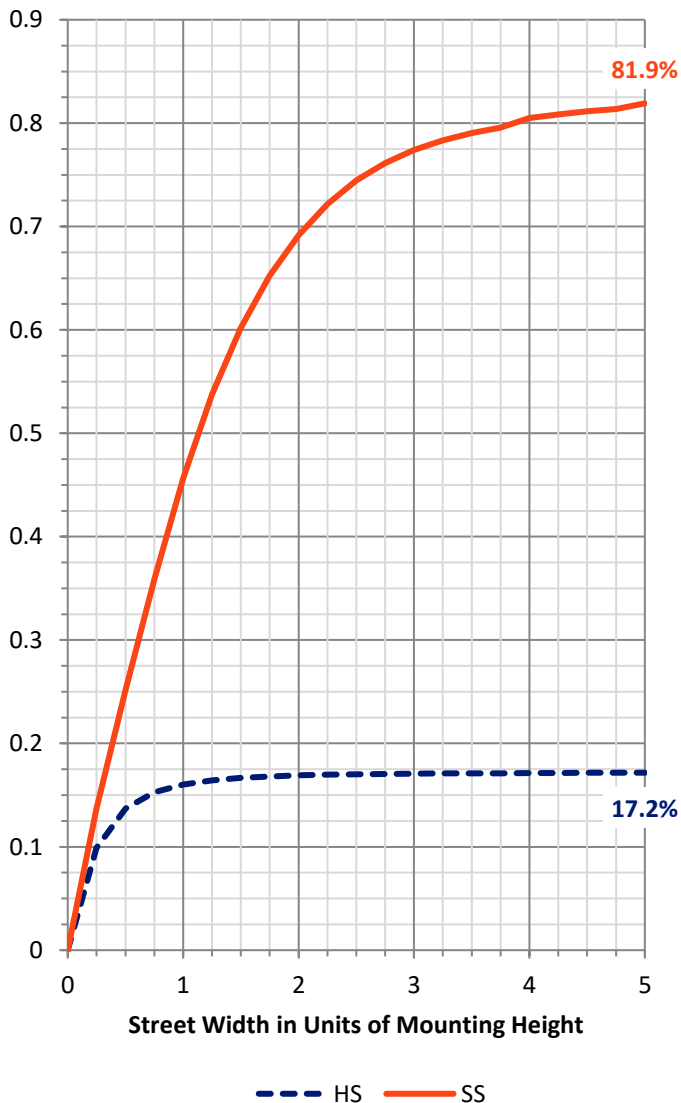
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.5	0.0	576.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2743.6	0.0	2743.6
	% Fixture	82.6	0.0	82.6
Total	Lumens	3320.0	0.0	3320.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	2.9
10°-20°	186.0	5.6
20°-30°	257.3	7.8
30°-40°	363.7	11.0
40°-50°	495.2	14.9
50°-60°	655.8	19.8
60°-70°	761.5	22.9
70°-80°	431.2	13.0
80°-90°	74.5	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°	3320.0	100.0
0°-180°	3320.0	100.0



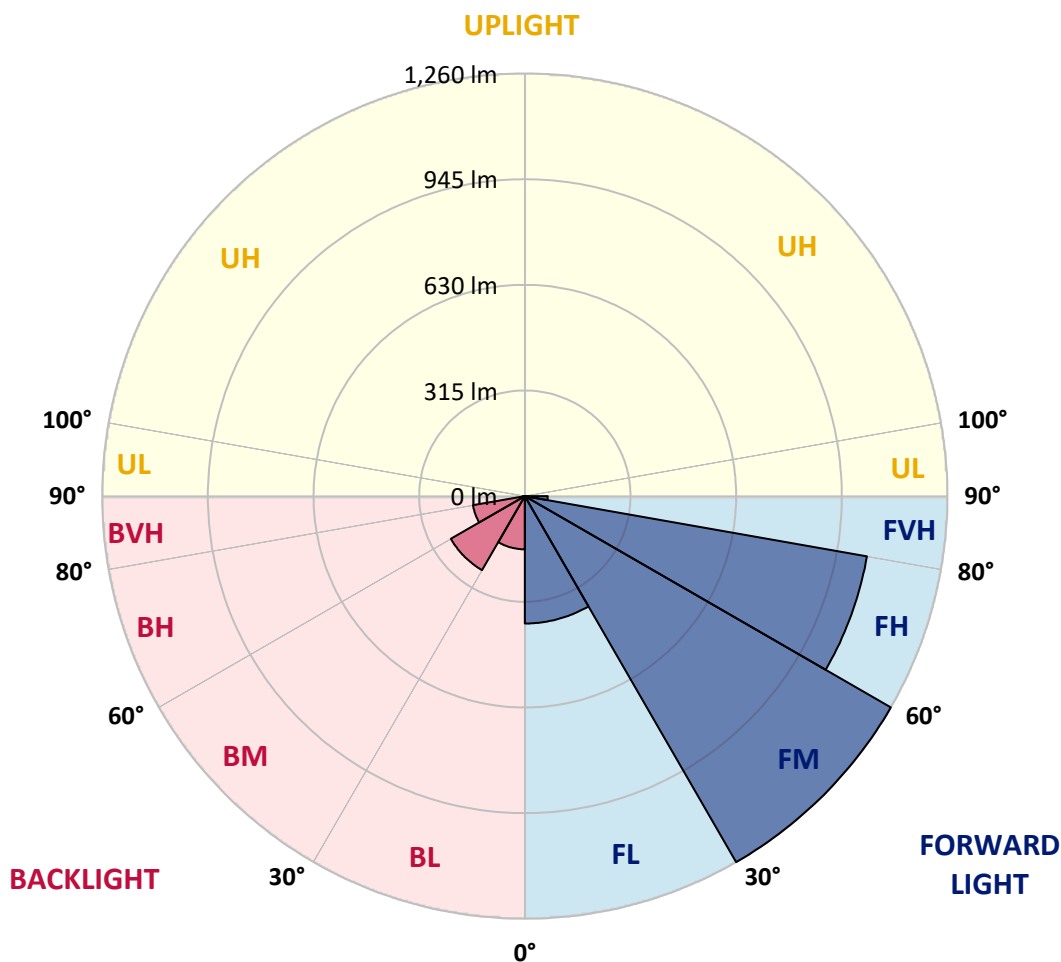
REPORT NUMBER: P677255
 CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.7	11.4			
FM (30°-60°)	1260.0	38.0			
FH (60°-80°)	1035.7	31.2			G1/1800
FVH (80°-90°)	68.2	2.1			G1/100
BL (0°-30°)	158.5	4.8	B1/500		
BM (30°-60°)	254.7	7.7	B1/1000		
BH (60°-80°)	157.0	4.7	B1/500		G1/500
BVH (80°-90°)	6.3	0.2			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 III Medium





REPORT NUMBER: P677255

CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1297.1	1324.5	1325.4	1337.8	1350.3	1350.3	1379.5	1372.4	1346.7	1342.3	1323.7
5°	1306.8	1316.6	1323.7	1386.6	1439.8	1434.5	1450.4	1439.8	1390.2	1326.3	1282.9
7.5°	1222.6	1233.2	1261.6	1368.9	1440.7	1464.6	1494.8	1428.3	1376.0	1260.7	1177.4
10°	1110.9	1131.3	1183.6	1305.9	1394.6	1470.8	1470.8	1417.6	1316.6	1204.0	1102.0
12.5°	1048.8	1089.6	1118.0	1242.1	1357.4	1409.7	1407.9	1379.5	1313.9	1172.1	1056.8
15°	1059.5	1071.0	1131.3	1227.9	1304.2	1301.5	1333.4	1324.5	1278.4	1200.4	1073.6
17.5°	1108.2	1126.0	1178.3	1227.9	1264.3	1253.6	1252.7	1295.3	1298.0	1248.3	1136.6
20°	1188.0	1240.3	1265.1	1280.2	1235.9	1190.7	1185.4	1244.8	1290.9	1309.5	1212.0
22.5°	1315.7	1350.3	1400.8	1323.7	1208.4	1151.7	1141.0	1206.6	1299.7	1382.2	1309.5
25°	1440.7	1467.3	1516.0	1416.8	1239.4	1143.7	1125.1	1181.8	1333.4	1483.2	1427.4
27.5°	1572.8	1595.8	1601.2	1485.0	1256.3	1127.7	1105.6	1181.8	1361.8	1536.4	1568.4
30°	1653.5	1681.0	1686.3	1545.3	1283.8	1141.0	1130.4	1187.1	1381.3	1581.7	1669.4
32.5°	1743.9	1751.0	1746.6	1555.9	1313.9	1180.0	1135.7	1222.6	1403.5	1635.7	1761.6
35°	1852.1	1864.5	1819.3	1604.7	1381.3	1204.9	1188.9	1266.0	1441.6	1660.6	1873.3
37.5°	1934.5	1973.5	1871.6	1623.3	1394.6	1257.2	1259.8	1356.5	1468.2	1690.7	1996.6
40°	2089.7	2024.1	1960.2	1687.2	1445.1	1345.8	1331.6	1449.6	1557.7	1710.2	2077.3
42.5°	2174.8	2140.2	1994.8	1693.4	1523.1	1468.2	1471.7	1555.1	1604.7	1765.2	2099.4
45°	2196.1	2159.7	2041.8	1697.8	1600.3	1612.7	1673.9	1689.8	1673.9	1801.5	2141.1
47.5°	2250.1	2171.2	2036.5	1757.2	1725.3	1773.2	1851.2	1885.8	1767.8	1788.2	2160.6
50°	2239.5	2194.3	2024.9	1782.0	1877.8	2004.6	2056.9	2042.7	1872.5	1760.7	2139.3
52.5°	2195.2	2146.4	2060.4	1849.4	2020.5	2173.9	2246.6	2211.1	1965.5	1822.8	2125.1
55°	2259.9	2222.7	2106.5	1940.7	2127.8	2322.8	2374.3	2347.7	2079.9	1880.4	2205.8
57.5°	2329.9	2321.9	2231.5	2048.0	2254.6	2476.2	2476.2	2443.4	2179.2	1963.8	2325.5
60°	2431.0	2448.7	2323.7	2118.9	2298.0	2467.3	2595.9	2557.8	2279.4	2110.1	2461.1
62.5°	2398.2	2454.9	2442.5	2271.4	2347.7	2510.8	2580.8	2609.2	2403.5	2288.3	2642.0
65°	2292.7	2353.0	2441.6	2371.6	2310.4	2405.3	2440.8	2526.7	2465.6	2455.8	2716.5
67.5°	2166.8	2232.4	2287.4	2439.0	2235.1	2298.0	2267.0	2294.5	2398.2	2639.3	2759.0
70°	1892.0	1954.9	2041.8	2289.1	2035.6	1978.8	1970.9	1957.6	2118.9	2573.7	2565.8
72.5°	1555.9	1585.2	1728.8	1860.9	1506.3	1495.7	1508.1	1493.0	1680.1	2329.9	2197.8
75°	1165.0	1194.2	1275.8	1429.2	1025.8	964.6	1035.5	1105.6	1282.9	1808.6	1579.0
77.5°	875.9	913.2	964.6	1069.2	752.7	657.0	666.7	733.2	927.4	1448.7	884.8
80°	568.3	563.9	663.2	735.9	566.5	584.3	559.4	608.2	672.0	774.9	452.2
82.5°	328.0	332.5	374.1	422.0	394.5	451.3	325.4	543.5	479.6	315.6	168.4
85°	184.4	192.4	230.5	292.6	247.4	165.8	135.6	269.5	301.4	129.4	81.6
87.5°	18.6	16.0	31.0	110.8	67.4	27.5	40.8	64.7	72.7	48.8	23.9
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: P677255

CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1297.1	1297.1	1274.9	1237.7	1222.6	1196.0	1159.6	1171.2	1158.8	1113.5	1102.0
5°	1243.9	1201.3	1155.2	1098.5	1065.7	998.3	977.0	938.9	945.1	907.0	908.7
7.5°	1133.0	1099.4	1021.3	946.9	882.1	823.6	741.2	710.1	680.0	664.9	682.7
10°	1068.3	1005.4	899.0	801.5	715.5	663.2	608.2	565.6	526.6	497.4	491.2
12.5°	1021.3	965.5	836.9	718.1	650.7	608.2	557.7	499.1	461.0	410.5	395.4
15°	1007.2	938.9	803.2	685.3	619.7	549.7	492.1	434.4	384.8	331.6	313.0
17.5°	1055.9	977.0	802.4	658.7	566.5	491.2	411.4	346.7	296.1	247.4	235.8
20°	1138.4	1017.8	828.1	642.8	516.0	414.9	324.5	259.8	203.0	171.1	163.1
22.5°	1232.3	1086.9	830.7	600.2	465.5	338.7	236.7	171.1	139.2	124.1	119.7
25°	1347.6	1197.8	862.6	565.6	406.1	257.1	168.4	131.2	112.6	103.7	102.0
27.5°	1442.5	1274.9	897.2	529.3	347.5	190.6	132.1	107.3	97.5	88.7	87.8
30°	1540.9	1363.6	907.0	507.1	297.0	156.9	113.5	94.9	84.2	79.8	78.9
32.5°	1626.9	1460.2	938.0	470.8	249.1	138.3	102.8	85.1	78.0	70.9	70.0
35°	1737.7	1516.0	953.1	451.3	231.4	125.0	94.0	78.0	67.4	62.9	61.2
37.5°	1856.5	1570.1	962.8	436.2	216.3	117.0	88.7	73.6	63.8	57.6	55.9
40°	1967.3	1646.4	948.6	417.6	204.8	107.3	85.1	68.3	59.4	53.2	50.5
42.5°	2052.4	1720.8	944.2	399.8	192.4	103.7	80.7	65.6	55.9	48.8	47.9
45°	2100.3	1771.4	913.2	385.7	182.6	105.5	78.9	62.1	53.2	47.0	43.4
47.5°	2088.8	1810.4	921.2	381.2	169.3	98.4	78.0	59.4	48.8	43.4	40.8
50°	2152.6	1889.3	907.9	367.0	159.6	88.7	85.1	59.4	47.9	41.7	39.0
52.5°	2163.3	1961.1	936.2	341.3	144.5	81.6	84.2	58.5	46.1	39.9	36.3
55°	2251.9	2044.4	991.2	327.1	132.1	70.9	77.1	56.7	41.7	36.3	34.6
57.5°	2372.5	2217.3	1026.7	313.8	115.3	62.1	64.7	55.9	38.1	33.7	31.0
60°	2488.6	2286.5	1029.3	289.9	99.3	55.9	50.5	55.9	35.5	30.1	27.5
62.5°	2575.5	2286.5	1011.6	269.5	86.9	49.6	44.3	53.2	31.9	26.6	24.8
65°	2528.5	2225.3	965.5	252.7	78.9	43.4	38.1	40.8	28.4	23.1	21.3
67.5°	2444.3	2034.7	863.5	232.3	78.0	38.1	32.8	30.1	24.8	20.4	18.6
70°	2309.5	1777.6	719.0	209.2	76.2	34.6	29.3	25.7	22.2	17.7	16.0
72.5°	1860.9	1468.2	590.5	195.9	74.5	30.1	24.8	22.2	18.6	15.1	13.3
75°	1289.1	938.0	454.8	167.6	72.7	27.5	23.1	19.5	16.0	12.4	11.5
77.5°	773.1	626.8	293.5	125.9	47.9	22.2	19.5	15.1	13.3	10.6	9.8
80°	361.7	296.1	118.8	48.8	23.1	16.0	13.3	11.5	10.6	8.9	8.0
82.5°	141.9	125.0	57.6	28.4	18.6	12.4	10.6	9.8	8.9	7.1	6.2
85°	76.2	67.4	27.5	19.5	13.3	8.9	8.9	8.0	7.1	6.2	5.3
87.5°	16.8	12.4	11.5	11.5	9.8	7.1	7.1	6.2	5.3	4.4	3.5
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: P677255
 CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1095.8	1109.1	1087.8	1101.1	1082.5	1096.7	1098.5	1085.2	1088.7	1106.4	1114.4
5°	933.6	924.7	905.2	899.0	899.9	888.4	892.8	899.0	908.7	914.1	930.0
7.5°	672.9	693.3	692.4	707.5	708.4	706.6	694.2	667.6	676.5	669.4	678.2
10°	481.4	490.3	507.1	516.9	534.6	524.9	496.5	485.8	480.5	479.6	488.5
12.5°	384.8	363.5	361.7	365.3	374.1	362.6	348.4	336.0	342.2	354.6	364.4
15°	297.9	280.2	257.1	253.6	255.3	250.0	234.9	219.0	223.4	235.8	242.9
17.5°	228.7	208.3	192.4	181.7	178.2	159.6	137.4	124.1	120.6	119.7	125.9
20°	154.3	150.7	148.1	134.8	134.8	108.2	89.5	79.8	79.8	81.6	82.5
22.5°	115.3	110.8	111.7	109.0	102.0	80.7	70.9	68.3	68.3	70.0	70.0
25°	100.2	94.0	92.2	91.3	84.2	69.2	62.1	59.4	59.4	61.2	61.2
27.5°	85.1	83.3	80.7	77.1	70.9	59.4	55.0	52.3	53.2	54.1	53.2
30°	78.0	73.6	70.0	70.0	62.9	53.2	49.6	47.9	46.1	47.9	48.8
32.5°	69.2	66.5	64.7	62.1	54.1	47.0	43.4	41.7	40.8	40.8	41.7
35°	59.4	59.4	57.6	54.1	47.0	42.6	38.1	36.3	35.5	36.3	36.3
37.5°	53.2	50.5	51.4	47.9	41.7	37.2	32.8	31.0	31.0	30.1	31.0
40°	49.6	45.2	42.6	40.8	37.2	31.9	28.4	26.6	25.7	25.7	25.7
42.5°	44.3	40.8	35.5	34.6	33.7	27.5	23.1	22.2	21.3	20.4	20.4
45°	41.7	36.3	31.9	27.5	27.5	23.1	19.5	17.7	16.8	16.0	16.8
47.5°	38.1	32.8	27.5	23.1	22.2	18.6	15.1	13.3	12.4	12.4	12.4
50°	36.3	29.3	23.9	19.5	16.8	15.1	11.5	9.8	8.9	8.9	8.9
52.5°	33.7	27.5	21.3	16.8	13.3	11.5	8.9	7.1	6.2	6.2	6.2
55°	30.1	24.8	18.6	14.2	11.5	8.9	6.2	4.4	3.5	3.5	3.5
57.5°	28.4	22.2	16.0	12.4	8.9	6.2	3.5	2.7	2.7	1.8	2.7
60°	25.7	19.5	13.3	9.8	7.1	4.4	2.7	0.9	0.9	0.9	0.9
62.5°	22.2	16.8	11.5	8.0	5.3	2.7	0.9	0.0	0.0	0.0	0.0
65°	18.6	13.3	8.9	6.2	3.5	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	16.0	11.5	7.1	4.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.2	9.8	5.3	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.5	8.0	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.8	6.2	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.0	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.2	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.9	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: P677255
 CATALOG NUMBER: CCW-SA-2A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3	1248.3
2.5°	1126.0	1120.6	1147.2	1190.7	1212.8	1256.3	1266.9	1294.4	1287.3	1297.1
5°	931.8	942.4	981.4	1045.3	1068.3	1131.3	1190.7	1250.1	1288.2	1306.8
7.5°	691.5	727.0	774.9	833.4	892.8	975.2	1076.3	1145.5	1182.7	1222.6
10°	515.1	553.2	608.2	665.8	762.5	854.7	955.7	1041.7	1073.6	1110.9
12.5°	405.2	464.6	528.4	590.5	648.1	735.9	860.9	985.9	1020.5	1048.8
15°	281.9	354.6	445.9	526.6	607.3	683.6	813.0	964.6	1011.6	1059.5
17.5°	156.0	213.7	318.3	431.8	550.6	667.6	829.0	1003.6	1074.5	1108.2
20°	90.4	113.5	188.0	322.7	479.6	633.0	836.9	1077.2	1171.2	1188.0
22.5°	74.5	82.5	106.4	202.1	392.8	610.9	877.7	1180.0	1275.8	1315.7
25°	63.8	70.0	82.5	121.5	297.0	563.9	903.4	1308.6	1397.2	1440.7
27.5°	56.7	62.9	72.7	89.5	202.1	499.1	946.0	1424.7	1513.4	1572.8
30°	49.6	55.0	64.7	76.2	140.1	426.4	982.3	1509.8	1634.9	1653.5
32.5°	44.3	48.8	55.9	65.6	103.7	323.6	1011.6	1597.6	1703.1	1743.9
35°	38.1	43.4	47.9	55.9	78.9	243.8	993.9	1665.9	1803.3	1852.1
37.5°	33.7	37.2	41.7	47.0	66.5	190.6	957.5	1747.4	1889.3	1934.5
40°	28.4	31.0	36.3	41.7	60.3	147.2	915.8	1845.9	2009.9	2089.7
42.5°	23.9	26.6	30.1	39.0	49.6	109.0	831.6	1922.1	2107.4	2174.8
45°	18.6	22.2	27.5	39.0	39.9	80.7	744.7	1978.8	2162.4	2196.1
47.5°	14.2	17.7	26.6	33.7	31.9	55.9	641.9	2043.6	2219.1	2250.1
50°	10.6	14.2	30.1	29.3	26.6	42.6	577.2	2088.8	2222.7	2239.5
52.5°	7.1	10.6	24.8	22.2	22.2	37.2	559.4	2087.0	2231.5	2195.2
55°	5.3	8.0	14.2	16.0	19.5	32.8	543.5	2153.5	2234.2	2259.9
57.5°	3.5	6.2	9.8	12.4	16.8	28.4	510.7	2233.3	2316.6	2329.9
60°	1.8	4.4	7.1	9.8	14.2	24.8	464.6	2291.8	2416.8	2431.0
62.5°	0.9	2.7	5.3	8.0	11.5	19.5	416.7	2198.7	2373.4	2398.2
65°	0.0	1.8	3.5	5.3	7.1	14.2	338.7	1985.0	2201.4	2292.7
67.5°	0.0	0.0	1.8	3.5	4.4	10.6	255.3	1806.0	2042.7	2166.8
70°	0.0	0.0	0.9	0.9	2.7	8.0	163.1	1495.7	1823.7	1892.0
72.5°	0.0	0.0	0.0	0.0	0.9	5.3	94.9	1110.9	1429.2	1555.9
75°	0.0	0.0	0.0	0.0	0.0	4.4	47.9	714.6	994.7	1165.0
77.5°	0.0	0.0	0.0	0.0	0.0	3.5	25.7	461.0	733.2	875.9
80°	0.0	0.0	0.0	0.0	0.0	0.9	15.1	267.7	469.0	568.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	131.2	280.2	328.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	70.0	140.1	184.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	9.8	18.6
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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