

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: P677244

Luminaire Tested: **CCW-SA-2A-722-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677244
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-722-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) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

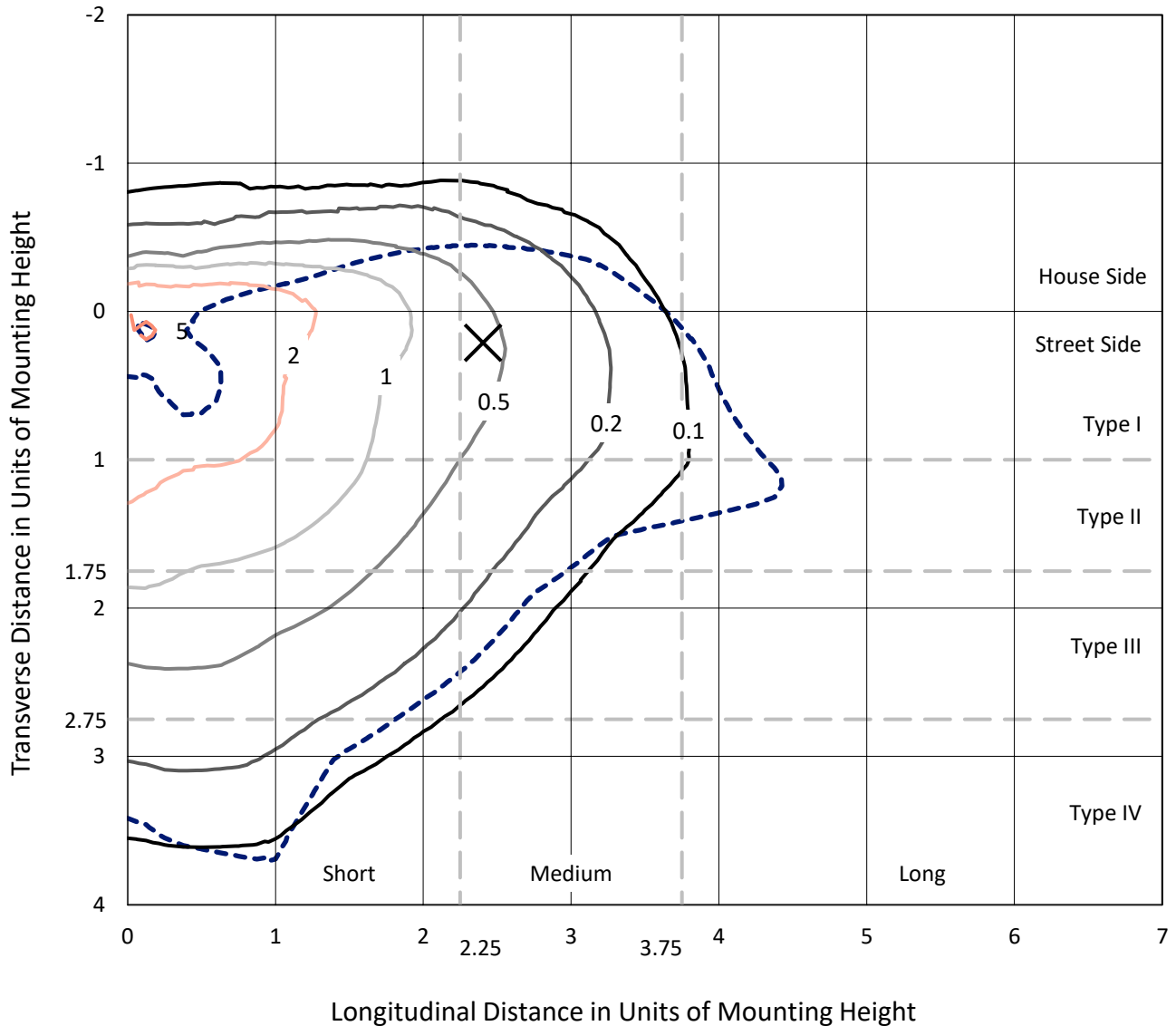
Lumens per Lamp: N/A
Luminaire Lumens: 2924.2 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (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: P677244
 CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

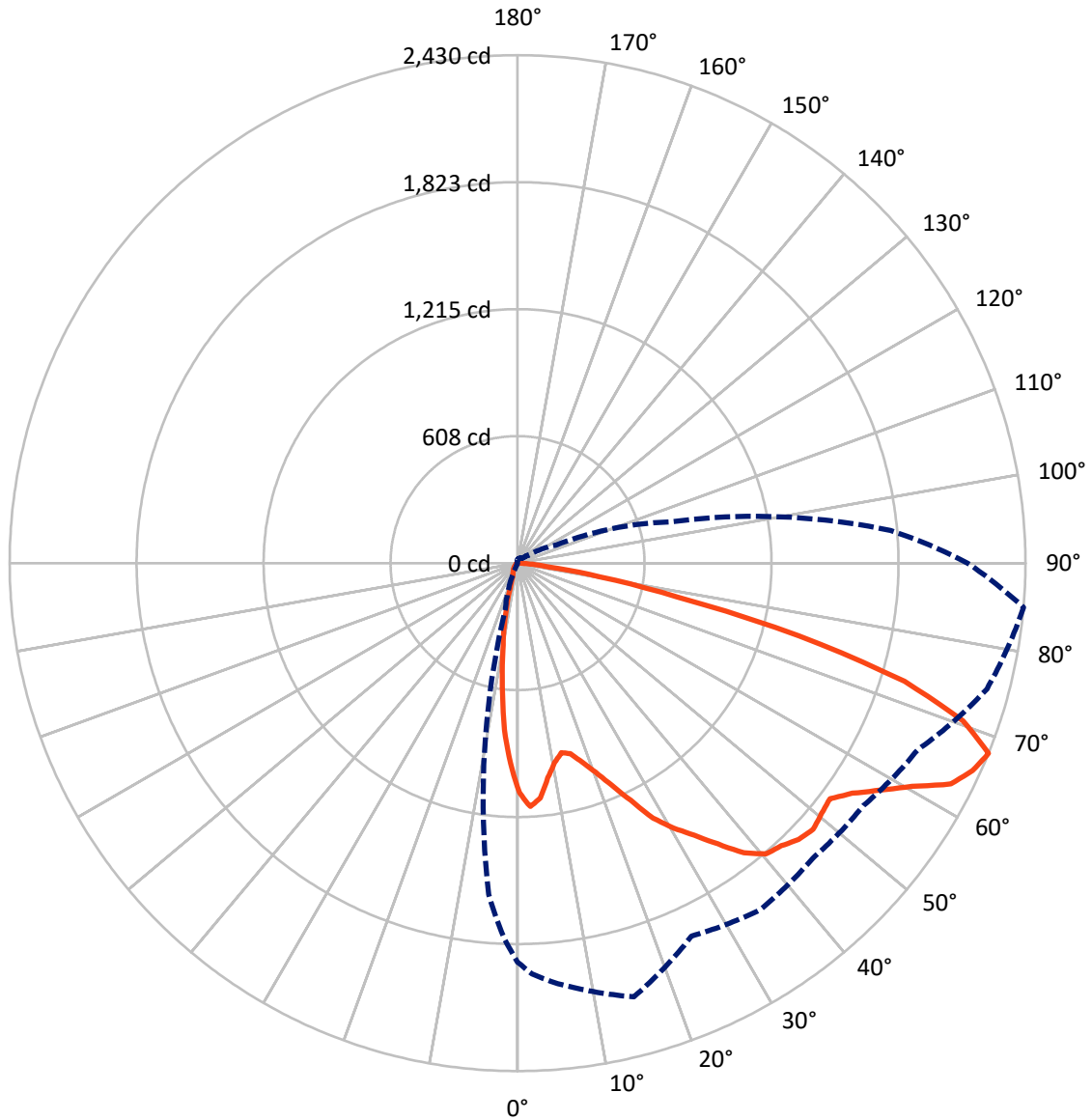
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P677244
CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677244
 CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

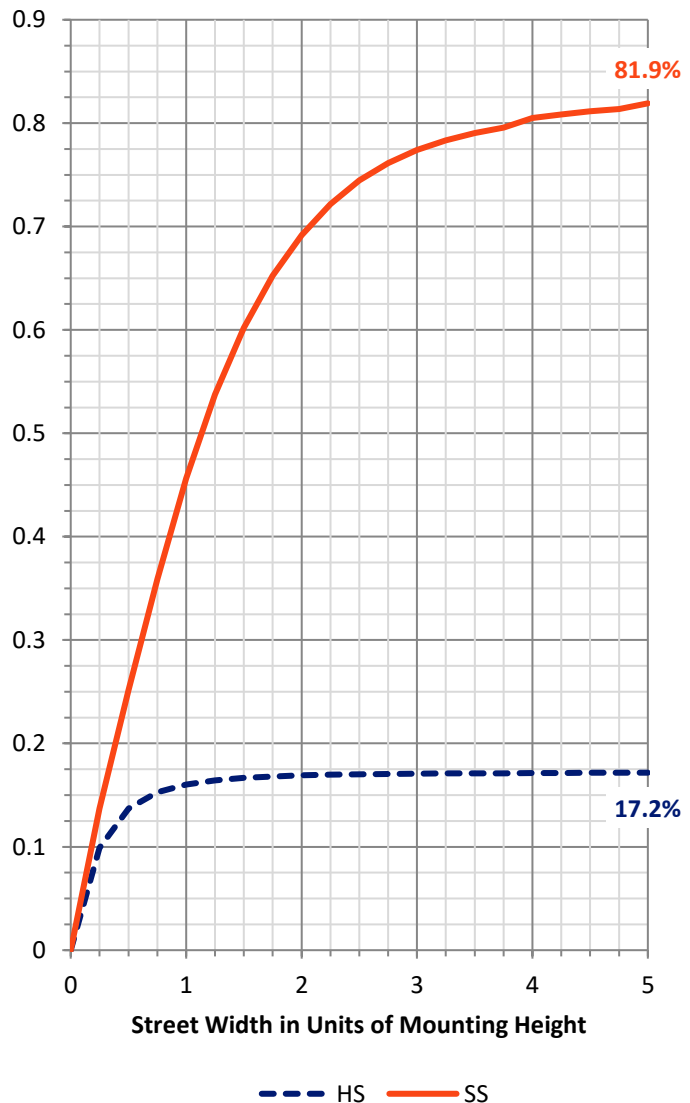
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.7	0.0	507.7
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2416.5	0.0	2416.5
	% Fixture	82.6	0.0	82.6
Total	Lumens	2924.2	0.0	2924.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	2.9
10°-20°	163.8	5.6
20°-30°	226.7	7.8
30°-40°	320.3	11.0
40°-50°	436.1	14.9
50°-60°	577.6	19.8
60°-70°	670.7	22.9
70°-80°	379.8	13.0
80°-90°	65.6	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°	2924.2	100.0
0°-180°	2924.2	100.0



REPORT NUMBER: P677244

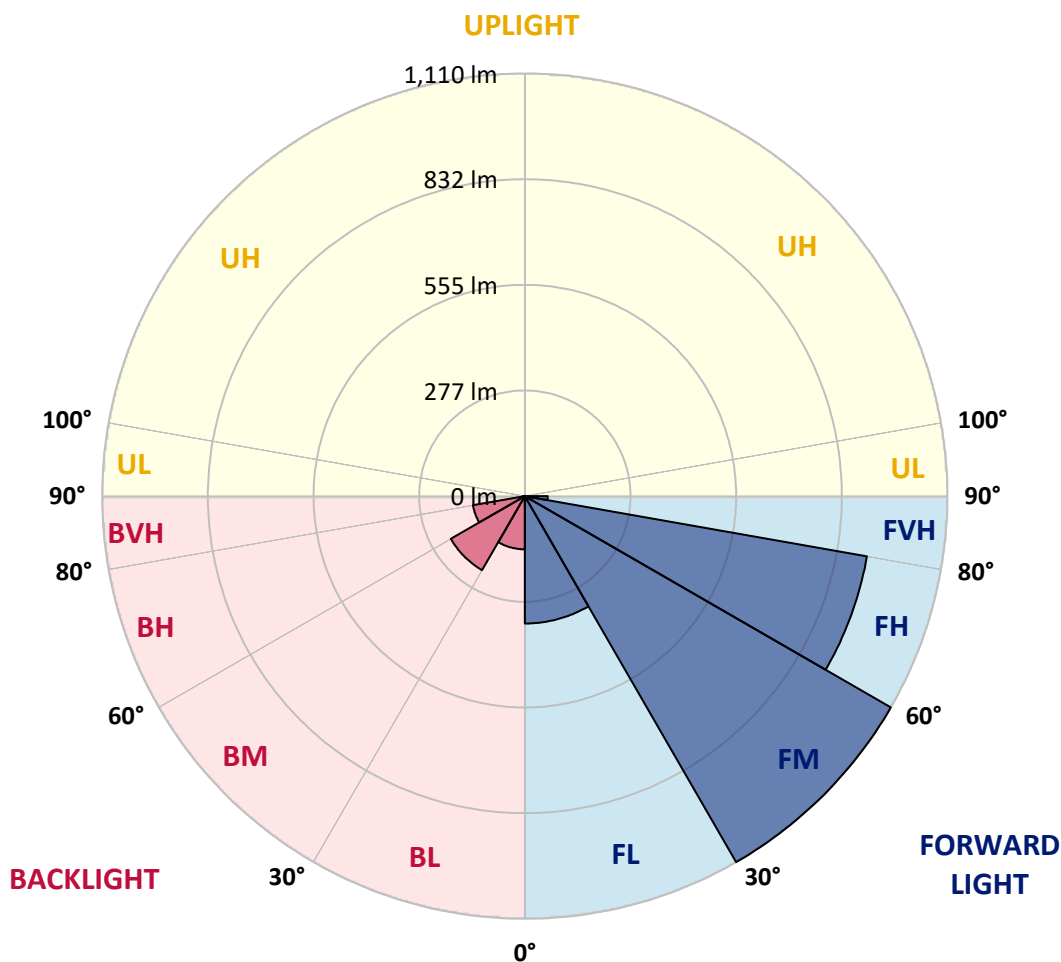
CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.4	11.4			
FM (30°-60°)	1109.8	38.0			
FH (60°-80°)	912.2	31.2			G1/1800
FVH (80°-90°)	60.1	2.1			G1/100
BL (0°-30°)	139.6	4.8	B1/500		
BM (30°-60°)	224.3	7.7	B1/1000		
BH (60°-80°)	138.3	4.7	B1/500		G1/500
BVH (80°-90°)	5.5	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: P677244

CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	1142.4	1166.6	1167.4	1178.4	1189.3	1189.3	1215.1	1208.8	1186.2	1182.3	1165.9
5°	1151.0	1159.6	1165.9	1221.3	1268.2	1263.5	1277.5	1268.2	1224.4	1168.2	1129.9
7.5°	1076.8	1086.2	1111.2	1205.7	1268.9	1290.0	1316.6	1258.0	1211.9	1110.4	1037.0
10°	978.4	996.4	1042.5	1150.2	1228.3	1295.5	1295.5	1248.6	1159.6	1060.4	970.6
12.5°	923.8	959.7	984.7	1094.0	1195.5	1241.6	1240.0	1215.1	1157.3	1032.3	930.8
15°	933.2	943.3	996.4	1081.5	1148.7	1146.3	1174.5	1166.6	1126.0	1057.3	945.7
17.5°	976.1	991.7	1037.8	1081.5	1113.5	1104.2	1103.4	1140.9	1143.2	1099.5	1001.1
20°	1046.4	1092.5	1114.3	1127.6	1088.6	1048.7	1044.0	1096.4	1137.0	1153.4	1067.5
22.5°	1158.8	1189.3	1233.8	1165.9	1064.3	1014.4	1005.0	1062.8	1144.8	1217.4	1153.4
25°	1268.9	1292.4	1335.3	1247.9	1091.7	1007.3	990.9	1040.9	1174.5	1306.4	1257.2
27.5°	1385.3	1405.6	1410.3	1308.0	1106.5	993.3	973.8	1040.9	1199.4	1353.3	1381.4
30°	1456.3	1480.6	1485.2	1361.1	1130.7	1005.0	995.6	1045.6	1216.6	1393.1	1470.4
32.5°	1536.0	1542.2	1538.3	1370.5	1157.3	1039.4	1000.3	1076.8	1236.1	1440.7	1551.6
35°	1631.3	1642.2	1602.4	1413.4	1216.6	1061.2	1047.2	1115.1	1269.7	1462.6	1650.0
37.5°	1703.9	1738.2	1648.4	1429.8	1228.3	1107.3	1109.6	1194.8	1293.1	1489.1	1758.6
40°	1840.5	1782.8	1726.5	1486.0	1272.8	1185.4	1172.9	1276.7	1372.0	1506.3	1829.6
42.5°	1915.5	1885.1	1757.0	1491.5	1341.6	1293.1	1296.3	1369.7	1413.4	1554.7	1849.1
45°	1934.3	1902.2	1798.4	1495.4	1409.5	1420.4	1474.3	1488.4	1474.3	1586.8	1885.8
47.5°	1981.9	1912.4	1793.7	1547.7	1519.6	1561.8	1630.5	1660.9	1557.1	1575.0	1903.0
50°	1972.5	1932.7	1783.5	1569.6	1653.9	1765.6	1811.7	1799.2	1649.2	1550.8	1884.3
52.5°	1933.5	1890.5	1814.8	1628.9	1779.6	1914.7	1978.8	1947.5	1731.2	1605.5	1871.8
55°	1990.5	1957.7	1855.4	1709.4	1874.1	2045.9	2091.2	2067.8	1832.0	1656.3	1942.8
57.5°	2052.2	2045.1	1965.5	1803.8	1985.8	2181.0	2181.0	2152.1	1919.4	1729.7	2048.3
60°	2141.2	2156.8	2046.7	1866.3	2024.1	2173.2	2286.4	2252.9	2007.7	1858.5	2167.7
62.5°	2112.3	2162.3	2151.3	2000.6	2067.8	2211.5	2273.2	2298.1	2117.0	2015.5	2327.0
65°	2019.4	2072.5	2150.6	2088.9	2035.0	2118.5	2149.8	2225.5	2171.6	2163.0	2392.6
67.5°	1908.5	1966.3	2014.7	2148.2	1968.6	2024.1	1996.7	2020.9	2112.3	2324.7	2430.1
70°	1666.4	1721.8	1798.4	2016.2	1792.9	1742.9	1735.9	1724.2	1866.3	2266.9	2259.9
72.5°	1370.5	1396.2	1522.7	1639.1	1326.7	1317.4	1328.3	1315.0	1479.8	2052.2	1935.8
75°	1026.1	1051.9	1123.7	1258.8	903.5	849.6	912.1	973.8	1129.9	1593.0	1390.8
77.5°	771.5	804.3	849.6	941.7	663.0	578.6	587.2	645.8	816.8	1276.0	779.3
80°	500.5	496.6	584.1	648.1	499.0	514.6	492.7	535.7	591.9	682.5	398.3
82.5°	288.9	292.8	329.5	371.7	347.5	397.5	286.6	478.7	422.5	278.0	148.4
85°	162.4	169.5	203.0	257.7	217.9	146.0	119.5	237.4	265.5	114.0	71.8
87.5°	16.4	14.1	27.3	97.6	59.3	24.2	35.9	57.0	64.0	42.9	21.1
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: P677244
 CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	1142.4	1142.4	1122.9	1090.1	1076.8	1053.4	1021.4	1031.5	1020.6	980.8	970.6
5°	1095.6	1058.1	1017.5	967.5	938.6	879.3	860.5	827.0	832.4	798.8	800.4
7.5°	998.0	968.3	899.6	834.0	777.0	725.4	652.8	625.5	598.9	585.7	601.3
10°	941.0	885.5	791.8	705.9	630.2	584.1	535.7	498.2	463.8	438.1	432.6
12.5°	899.6	850.4	737.2	632.5	573.2	535.7	491.2	439.6	406.1	361.5	348.3
15°	887.1	827.0	707.5	603.6	545.8	484.1	433.4	382.6	338.9	292.1	275.7
17.5°	930.0	860.5	706.7	580.2	499.0	432.6	362.3	305.3	260.8	217.9	207.7
20°	1002.7	896.5	729.3	566.1	454.5	365.5	285.8	228.8	178.8	150.7	143.7
22.5°	1085.4	957.4	731.7	528.7	410.0	298.3	208.5	150.7	122.6	109.3	105.4
25°	1186.9	1055.0	759.8	498.2	357.6	226.5	148.4	115.6	99.2	91.4	89.8
27.5°	1270.5	1122.9	790.3	466.2	306.1	167.9	116.4	94.5	85.9	78.1	77.3
30°	1357.2	1201.0	798.8	446.7	261.6	138.2	100.0	83.6	74.2	70.3	69.5
32.5°	1432.9	1286.1	826.2	414.6	219.4	121.8	90.6	75.0	68.7	62.5	61.7
35°	1530.5	1335.3	839.5	397.5	203.8	110.1	82.8	68.7	59.3	55.4	53.9
37.5°	1635.2	1382.9	848.0	384.2	190.5	103.1	78.1	64.8	56.2	50.8	49.2
40°	1732.8	1450.1	835.5	367.8	180.4	94.5	75.0	60.1	52.3	46.9	44.5
42.5°	1807.7	1515.7	831.6	352.2	169.5	91.4	71.1	57.8	49.2	42.9	42.2
45°	1849.9	1560.2	804.3	339.7	160.9	92.9	69.5	54.7	46.9	41.4	38.3
47.5°	1839.8	1594.6	811.3	335.8	149.1	86.7	68.7	52.3	42.9	38.3	35.9
50°	1896.0	1664.1	799.6	323.3	140.6	78.1	75.0	52.3	42.2	36.7	34.4
52.5°	1905.4	1727.3	824.6	300.6	127.3	71.8	74.2	51.5	40.6	35.1	32.0
55°	1983.4	1800.7	873.0	288.1	116.4	62.5	67.9	50.0	36.7	32.0	30.5
57.5°	2089.6	1953.0	904.3	276.4	101.5	54.7	57.0	49.2	33.6	29.7	27.3
60°	2191.9	2013.9	906.6	255.3	87.5	49.2	44.5	49.2	31.2	26.6	24.2
62.5°	2268.5	2013.9	891.0	237.4	76.5	43.7	39.0	46.9	28.1	23.4	21.9
65°	2227.1	1960.0	850.4	222.6	69.5	38.3	33.6	35.9	25.0	20.3	18.7
67.5°	2152.9	1792.1	760.6	204.6	68.7	33.6	28.9	26.6	21.9	18.0	16.4
70°	2034.2	1565.7	633.3	184.3	67.2	30.5	25.8	22.6	19.5	15.6	14.1
72.5°	1639.1	1293.1	520.1	172.6	65.6	26.6	21.9	19.5	16.4	13.3	11.7
75°	1135.4	826.2	400.6	147.6	64.0	24.2	20.3	17.2	14.1	10.9	10.2
77.5°	680.9	552.1	258.5	110.9	42.2	19.5	17.2	13.3	11.7	9.4	8.6
80°	318.6	260.8	104.6	42.9	20.3	14.1	11.7	10.2	9.4	7.8	7.0
82.5°	124.9	110.1	50.8	25.0	16.4	10.9	9.4	8.6	7.8	6.2	5.5
85°	67.2	59.3	24.2	17.2	11.7	7.8	7.8	7.0	6.2	5.5	4.7
87.5°	14.8	10.9	10.2	10.2	8.6	6.2	6.2	5.5	4.7	3.9	3.1
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: P677244
 CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	965.2	976.9	958.1	969.9	953.5	966.0	967.5	955.8	958.9	974.5	981.6
5°	822.3	814.5	797.3	791.8	792.6	782.4	786.4	791.8	800.4	805.1	819.1
7.5°	592.7	610.7	609.9	623.1	623.9	622.4	611.4	588.0	595.8	589.6	597.4
10°	424.0	431.8	446.7	455.3	470.9	462.3	437.3	427.9	423.2	422.5	430.3
12.5°	338.9	320.2	318.6	321.7	329.5	319.4	306.9	296.0	301.4	312.4	320.9
15°	262.4	246.8	226.5	223.3	224.9	220.2	206.9	192.9	196.8	207.7	214.0
17.5°	201.5	183.5	169.5	160.1	157.0	140.6	121.0	109.3	106.2	105.4	110.9
20°	135.9	132.8	130.4	118.7	118.7	95.3	78.9	70.3	70.3	71.8	72.6
22.5°	101.5	97.6	98.4	96.0	89.8	71.1	62.5	60.1	60.1	61.7	61.7
25°	88.2	82.8	81.2	80.4	74.2	60.9	54.7	52.3	52.3	53.9	53.9
27.5°	75.0	73.4	71.1	67.9	62.5	52.3	48.4	46.1	46.9	47.6	46.9
30°	68.7	64.8	61.7	61.7	55.4	46.9	43.7	42.2	40.6	42.2	42.9
32.5°	60.9	58.6	57.0	54.7	47.6	41.4	38.3	36.7	35.9	35.9	36.7
35°	52.3	52.3	50.8	47.6	41.4	37.5	33.6	32.0	31.2	32.0	32.0
37.5°	46.9	44.5	45.3	42.2	36.7	32.8	28.9	27.3	27.3	26.6	27.3
40°	43.7	39.8	37.5	35.9	32.8	28.1	25.0	23.4	22.6	22.6	22.6
42.5°	39.0	35.9	31.2	30.5	29.7	24.2	20.3	19.5	18.7	18.0	18.0
45°	36.7	32.0	28.1	24.2	24.2	20.3	17.2	15.6	14.8	14.1	14.8
47.5°	33.6	28.9	24.2	20.3	19.5	16.4	13.3	11.7	10.9	10.9	10.9
50°	32.0	25.8	21.1	17.2	14.8	13.3	10.2	8.6	7.8	7.8	7.8
52.5°	29.7	24.2	18.7	14.8	11.7	10.2	7.8	6.2	5.5	5.5	5.5
55°	26.6	21.9	16.4	12.5	10.2	7.8	5.5	3.9	3.1	3.1	3.1
57.5°	25.0	19.5	14.1	10.9	7.8	5.5	3.1	2.3	2.3	1.6	2.3
60°	22.6	17.2	11.7	8.6	6.2	3.9	2.3	0.8	0.8	0.8	0.8
62.5°	19.5	14.8	10.2	7.0	4.7	2.3	0.8	0.0	0.0	0.0	0.0
65°	16.4	11.7	7.8	5.5	3.1	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	14.1	10.2	6.2	3.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.5	8.6	4.7	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10.2	7.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8.6	5.5	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.5	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	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: P677244
 CATALOG NUMBER: CCW-SA-2A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	991.7	987.0	1010.5	1048.7	1068.2	1106.5	1115.9	1140.1	1133.8	1142.4
5°	820.7	830.1	864.4	920.7	941.0	996.4	1048.7	1101.0	1134.6	1151.0
7.5°	609.1	640.3	682.5	734.0	786.4	859.0	948.0	1008.9	1041.7	1076.8
10°	453.7	487.3	535.7	586.4	671.6	752.8	841.8	917.5	945.7	978.4
12.5°	356.9	409.2	465.4	520.1	570.8	648.1	758.2	868.3	898.8	923.8
15°	248.3	312.4	392.8	463.8	534.9	602.1	716.1	849.6	891.0	933.2
17.5°	137.4	188.2	280.3	380.3	484.9	588.0	730.1	884.0	946.4	976.1
20°	79.7	100.0	165.5	284.2	422.5	557.6	737.2	948.8	1031.5	1046.4
22.5°	65.6	72.6	93.7	178.0	345.9	538.0	773.1	1039.4	1123.7	1158.8
25°	56.2	61.7	72.6	107.0	261.6	496.6	795.7	1152.6	1230.7	1268.9
27.5°	50.0	55.4	64.0	78.9	178.0	439.6	833.2	1254.9	1333.0	1385.3
30°	43.7	48.4	57.0	67.2	123.4	375.6	865.2	1329.8	1440.0	1456.3
32.5°	39.0	42.9	49.2	57.8	91.4	285.0	891.0	1407.2	1500.1	1536.0
35°	33.6	38.3	42.2	49.2	69.5	214.7	875.4	1467.3	1588.3	1631.3
37.5°	29.7	32.8	36.7	41.4	58.6	167.9	843.4	1539.1	1664.1	1703.9
40°	25.0	27.3	32.0	36.7	53.1	129.6	806.7	1625.8	1770.3	1840.5
42.5°	21.1	23.4	26.6	34.4	43.7	96.0	732.5	1693.0	1856.2	1915.5
45°	16.4	19.5	24.2	34.4	35.1	71.1	655.9	1742.9	1904.6	1934.3
47.5°	12.5	15.6	23.4	29.7	28.1	49.2	565.4	1799.9	1954.6	1981.9
50°	9.4	12.5	26.6	25.8	23.4	37.5	508.4	1839.8	1957.7	1972.5
52.5°	6.2	9.4	21.9	19.5	19.5	32.8	492.7	1838.2	1965.5	1933.5
55°	4.7	7.0	12.5	14.1	17.2	28.9	478.7	1896.8	1967.8	1990.5
57.5°	3.1	5.5	8.6	10.9	14.8	25.0	449.8	1967.0	2040.5	2052.2
60°	1.6	3.9	6.2	8.6	12.5	21.9	409.2	2018.6	2128.7	2141.2
62.5°	0.8	2.3	4.7	7.0	10.2	17.2	367.0	1936.6	2090.4	2112.3
65°	0.0	1.6	3.1	4.7	6.2	12.5	298.3	1748.4	1938.9	2019.4
67.5°	0.0	0.0	1.6	3.1	3.9	9.4	224.9	1590.7	1799.2	1908.5
70°	0.0	0.0	0.8	0.8	2.3	7.0	143.7	1317.4	1606.3	1666.4
72.5°	0.0	0.0	0.0	0.0	0.8	4.7	83.6	978.4	1258.8	1370.5
75°	0.0	0.0	0.0	0.0	0.0	3.9	42.2	629.4	876.2	1026.1
77.5°	0.0	0.0	0.0	0.0	0.0	3.1	22.6	406.1	645.8	771.5
80°	0.0	0.0	0.0	0.0	0.0	0.8	13.3	235.8	413.1	500.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	115.6	246.8	288.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	61.7	123.4	162.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.6	16.4
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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