

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: P677246

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677246
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-722-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

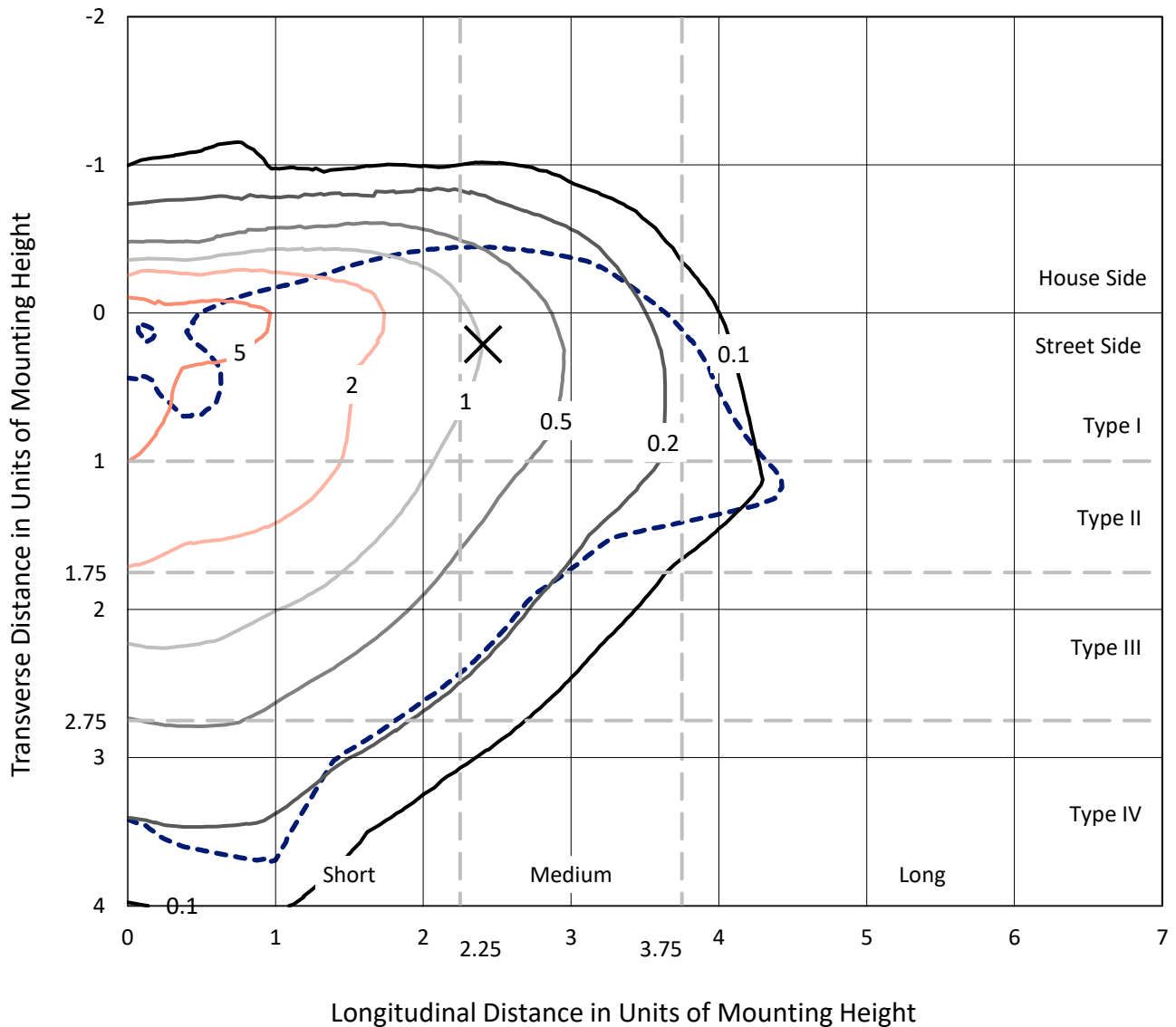
Lumens per Lamp: N/A
Luminaire Lumens: 4832.1 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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: P677246
 CATALOG NUMBER: CCW-SA-2C-722-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

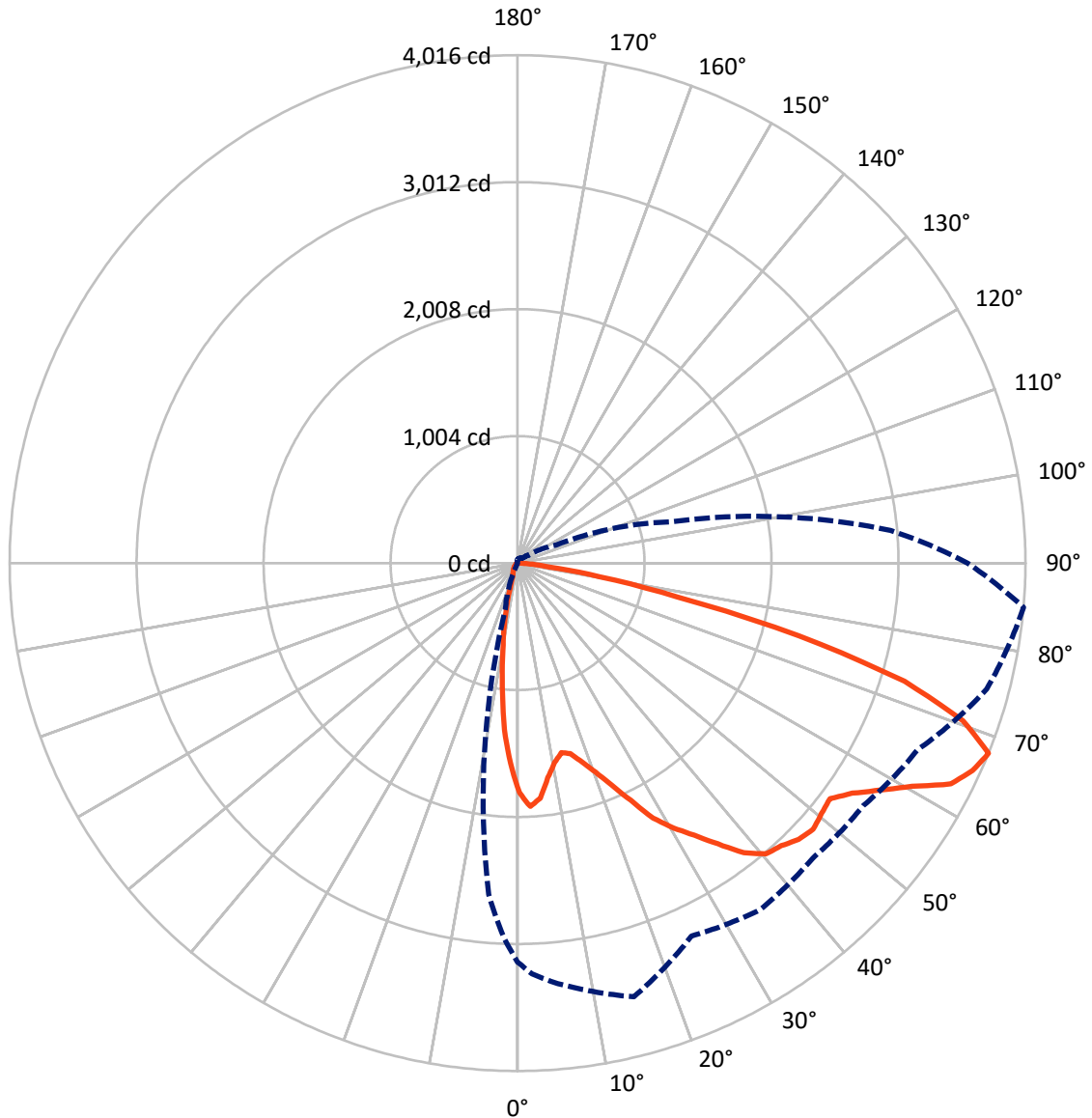
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P677246
CATALOG NUMBER: CCW-SA-2C-722-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677246

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

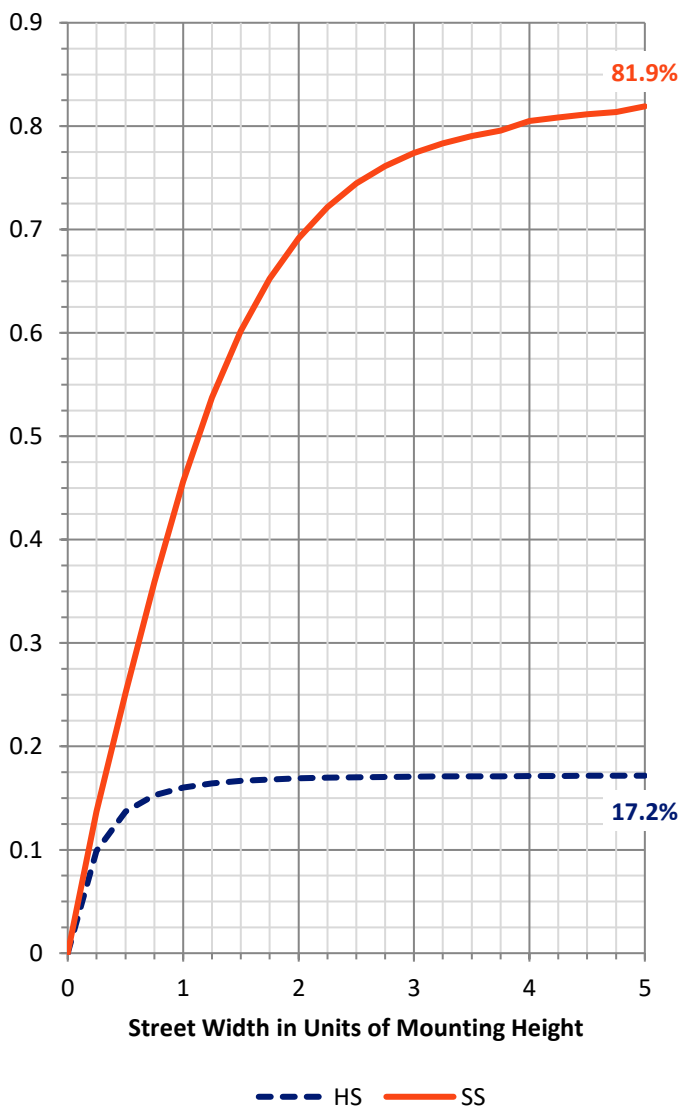
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.0	0.0	839.0
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3993.1	0.0	3993.1
	% Fixture	82.6	0.0	82.6
Total	Lumens	4832.1	0.0	4832.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	2.9
10°-20°	270.7	5.6
20°-30°	374.5	7.8
30°-40°	529.3	11.0
40°-50°	720.7	14.9
50°-60°	954.5	19.8
60°-70°	1108.3	22.9
70°-80°	627.6	13.0
80°-90°	108.4	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°	4832.1	100.0
0°-180°	4832.1	100.0



REPORT NUMBER: P677246

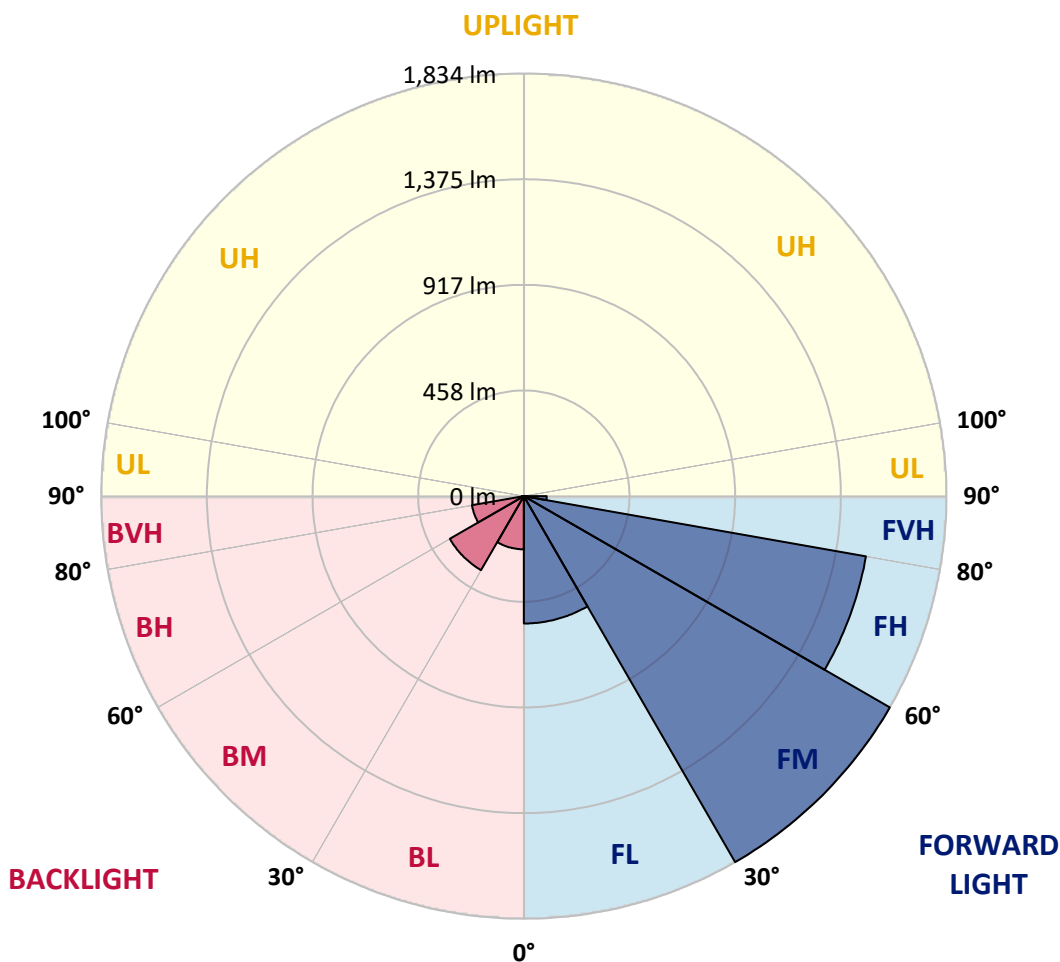
CATALOG NUMBER: CCW-SA-2C-722-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.6	11.4			
FM (30°-60°)	1833.8	38.0			
FH (60°-80°)	1507.4	31.2			G1/1800
FVH (80°-90°)	99.3	2.1			G1/100
BL (0°-30°)	230.7	4.8	B1/500		
BM (30°-60°)	370.7	7.7	B1/1000		
BH (60°-80°)	228.5	4.7	B1/500		G1/500
BVH (80°-90°)	9.1	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: P677246

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

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1887.8	1927.8	1929.1	1947.2	1965.2	1965.2	2007.8	1997.5	1960.1	1953.6	1926.5
5°	1902.0	1916.2	1926.5	2018.1	2095.5	2087.8	2111.0	2095.5	2023.3	1930.4	1867.2
7.5°	1779.4	1794.9	1836.2	1992.3	2096.8	2131.7	2175.6	2078.8	2002.6	1834.9	1713.6
10°	1616.8	1646.5	1722.6	1900.7	2029.7	2140.7	2140.7	2063.3	1916.2	1752.3	1603.9
12.5°	1526.5	1585.9	1627.1	1807.8	1975.5	2051.7	2049.1	2007.8	1912.3	1705.9	1538.1
15°	1542.0	1558.8	1646.5	1787.2	1898.1	1894.3	1940.7	1927.8	1860.7	1747.2	1562.6
17.5°	1613.0	1638.8	1714.9	1787.2	1840.1	1824.6	1823.3	1885.2	1889.1	1816.8	1654.2
20°	1729.1	1805.2	1841.3	1863.3	1798.8	1733.0	1725.2	1811.7	1878.8	1905.9	1763.9
22.5°	1914.9	1965.2	2038.8	1926.5	1758.8	1676.2	1660.7	1756.2	1891.7	2011.7	1905.9
25°	2096.8	2135.5	2206.5	2062.0	1803.9	1664.6	1637.5	1720.1	1940.7	2158.8	2077.5
27.5°	2289.1	2322.7	2330.4	2161.4	1828.4	1641.3	1609.1	1720.1	1982.0	2236.2	2282.7
30°	2406.5	2446.5	2454.3	2249.1	1868.4	1660.7	1645.2	1727.8	2010.4	2302.0	2429.8
32.5°	2538.1	2548.5	2542.0	2264.6	1912.3	1717.5	1653.0	1779.4	2042.6	2380.7	2563.9
35°	2695.6	2713.6	2647.8	2335.6	2010.4	1753.6	1730.4	1842.6	2098.1	2416.8	2726.5
37.5°	2815.6	2872.3	2724.0	2362.7	2029.7	1829.7	1833.6	1974.3	2136.8	2460.7	2905.9
40°	3041.4	2945.9	2853.0	2455.6	2103.3	1958.8	1938.1	2109.7	2267.2	2489.1	3023.3
42.5°	3165.3	3114.9	2903.3	2464.6	2216.8	2136.8	2142.0	2263.3	2335.6	2569.1	3055.6
45°	3196.2	3143.3	2971.7	2471.0	2329.1	2347.2	2436.2	2459.4	2436.2	2622.0	3116.2
47.5°	3274.9	3160.1	2964.0	2557.5	2511.0	2580.7	2694.3	2744.6	2573.0	2602.7	3144.6
50°	3259.5	3193.6	2947.2	2593.6	2733.0	2917.5	2993.6	2973.0	2725.2	2562.7	3113.6
52.5°	3194.9	3124.0	2998.8	2691.7	2940.7	3164.0	3269.8	3218.2	2860.7	2653.0	3093.0
55°	3289.1	3234.9	3065.9	2824.6	3096.9	3380.7	3455.6	3416.9	3027.2	2736.9	3210.4
57.5°	3391.1	3379.5	3247.8	2980.7	3281.4	3604.0	3604.0	3556.2	3171.7	2858.2	3384.6
60°	3538.2	3564.0	3382.0	3084.0	3344.6	3591.1	3778.2	3722.7	3317.5	3071.1	3582.0
62.5°	3490.4	3573.0	3554.9	3305.9	3416.9	3654.3	3756.2	3797.5	3498.2	3330.4	3845.3
65°	3336.9	3424.6	3553.7	3451.7	3362.7	3500.8	3552.4	3677.5	3588.5	3574.3	3953.7
67.5°	3153.6	3249.1	3329.1	3549.8	3253.0	3344.6	3299.5	3339.5	3490.4	3841.4	4015.6
70°	2753.6	2845.2	2971.7	3331.7	2962.7	2880.1	2868.5	2849.1	3084.0	3745.9	3734.3
72.5°	2264.6	2307.2	2516.2	2708.5	2192.3	2176.8	2194.9	2173.0	2445.2	3391.1	3198.8
75°	1695.5	1738.1	1856.8	2080.1	1492.9	1403.9	1507.1	1609.1	1867.2	2632.3	2298.1
77.5°	1274.9	1329.1	1403.9	1556.2	1095.5	956.2	970.4	1067.1	1349.7	2108.5	1287.8
80°	827.1	820.7	965.2	1071.0	824.5	850.3	814.2	885.2	978.1	1127.8	658.1
82.5°	477.4	483.9	544.5	614.2	574.2	656.8	473.6	791.0	698.1	459.4	245.2
85°	268.4	280.0	335.5	425.8	360.0	241.3	197.4	392.3	438.7	188.4	118.7
87.5°	27.1	23.2	45.2	161.3	98.1	40.0	59.4	94.2	105.8	71.0	34.8
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: P677246
 CATALOG NUMBER: CCW-SA-2C-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1887.8	1887.8	1855.5	1801.3	1779.4	1740.7	1687.8	1704.6	1686.5	1620.7	1603.9
5°	1810.4	1748.4	1681.3	1598.8	1551.0	1452.9	1422.0	1366.5	1375.5	1320.0	1322.6
7.5°	1649.1	1600.0	1486.5	1378.1	1283.9	1198.7	1078.7	1033.6	989.7	967.8	993.6
10°	1554.9	1463.3	1308.4	1166.5	1041.3	965.2	885.2	823.3	766.5	723.9	714.9
12.5°	1486.5	1405.2	1218.1	1045.2	947.1	885.2	811.6	726.5	671.0	597.4	575.5
15°	1465.9	1366.5	1169.1	997.4	902.0	800.0	716.2	632.3	560.0	482.6	455.5
17.5°	1536.8	1422.0	1167.8	958.7	824.5	714.9	598.7	504.5	431.0	360.0	343.2
20°	1656.8	1481.3	1205.2	935.5	751.0	603.9	472.3	378.1	295.5	249.0	237.4
22.5°	1793.6	1582.0	1209.1	873.6	677.4	492.9	344.5	249.0	202.6	180.7	174.2
25°	1961.4	1743.3	1255.5	823.3	591.0	374.2	245.2	191.0	163.9	151.0	148.4
27.5°	2099.4	1855.5	1305.8	770.3	505.8	277.4	192.3	156.1	141.9	129.0	127.7
30°	2242.6	1984.6	1320.0	738.1	432.3	228.4	165.2	138.1	122.6	116.1	114.8
32.5°	2367.8	2125.2	1365.2	685.2	362.6	201.3	149.7	123.9	113.6	103.2	101.9
35°	2529.1	2206.5	1387.1	656.8	336.8	181.9	136.8	113.6	98.1	91.6	89.0
37.5°	2702.0	2285.2	1401.3	634.9	314.8	170.3	129.0	107.1	92.9	83.9	81.3
40°	2863.3	2396.2	1380.7	607.8	298.1	156.1	123.9	99.4	86.5	77.4	73.6
42.5°	2987.2	2504.6	1374.2	582.0	280.0	151.0	117.4	95.5	81.3	71.0	69.7
45°	3056.9	2578.1	1329.1	561.3	265.8	153.6	114.8	90.3	77.4	68.4	63.2
47.5°	3040.1	2634.9	1340.7	554.9	246.5	143.2	113.6	86.5	71.0	63.2	59.4
50°	3133.0	2749.8	1321.3	534.2	232.3	129.0	123.9	86.5	69.7	60.6	56.8
52.5°	3148.5	2854.3	1362.6	496.8	210.3	118.7	122.6	85.2	67.1	58.1	52.9
55°	3277.5	2975.6	1442.6	476.1	192.3	103.2	112.3	82.6	60.6	52.9	50.3
57.5°	3453.0	3227.2	1494.2	456.8	167.7	90.3	94.2	81.3	55.5	49.0	45.2
60°	3622.0	3327.8	1498.1	421.9	144.5	81.3	73.6	81.3	51.6	43.9	40.0
62.5°	3748.5	3327.8	1472.3	392.3	126.5	72.3	64.5	77.4	46.5	38.7	36.1
65°	3680.1	3238.8	1405.2	367.8	114.8	63.2	55.5	59.4	41.3	33.5	31.0
67.5°	3557.5	2961.4	1256.8	338.1	113.6	55.5	47.7	43.9	36.1	29.7	27.1
70°	3361.4	2587.2	1046.5	304.5	111.0	50.3	42.6	37.4	32.3	25.8	23.2
72.5°	2708.5	2136.8	859.4	285.2	108.4	43.9	36.1	32.3	27.1	21.9	19.4
75°	1876.2	1365.2	662.0	243.9	105.8	40.0	33.5	28.4	23.2	18.1	16.8
77.5°	1125.2	912.3	427.1	183.2	69.7	32.3	28.4	21.9	19.4	15.5	14.2
80°	526.5	431.0	172.9	71.0	33.5	23.2	19.4	16.8	15.5	12.9	11.6
82.5°	206.5	181.9	83.9	41.3	27.1	18.1	15.5	14.2	12.9	10.3	9.0
85°	111.0	98.1	40.0	28.4	19.4	12.9	12.9	11.6	10.3	9.0	7.7
87.5°	24.5	18.1	16.8	16.8	14.2	10.3	10.3	9.0	7.7	6.5	5.2
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: P677246
 CATALOG NUMBER: CCW-SA-2C-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1594.9	1614.2	1583.3	1602.6	1575.5	1596.2	1598.8	1579.4	1584.6	1610.4	1622.0
5°	1358.8	1345.8	1317.5	1308.4	1309.7	1292.9	1299.4	1308.4	1322.6	1330.4	1353.6
7.5°	979.4	1009.1	1007.8	1029.7	1031.0	1028.4	1010.4	971.6	984.5	974.2	987.1
10°	700.7	713.6	738.1	752.3	778.1	763.9	722.6	707.1	699.4	698.1	711.0
12.5°	560.0	529.0	526.5	531.6	544.5	527.8	507.1	489.0	498.1	516.1	530.3
15°	433.6	407.8	374.2	369.0	371.6	363.9	341.9	318.7	325.2	343.2	353.6
17.5°	332.9	303.2	280.0	264.5	259.4	232.3	200.0	180.7	175.5	174.2	183.2
20°	224.5	219.4	215.5	196.1	196.1	157.4	130.3	116.1	116.1	118.7	120.0
22.5°	167.7	161.3	162.6	158.7	148.4	117.4	103.2	99.4	99.4	101.9	101.9
25°	145.8	136.8	134.2	132.9	122.6	100.6	90.3	86.5	86.5	89.0	89.0
27.5°	123.9	121.3	117.4	112.3	103.2	86.5	80.0	76.1	77.4	78.7	77.4
30°	113.6	107.1	101.9	101.9	91.6	77.4	72.3	69.7	67.1	69.7	71.0
32.5°	100.6	96.8	94.2	90.3	78.7	68.4	63.2	60.6	59.4	59.4	60.6
35°	86.5	86.5	83.9	78.7	68.4	61.9	55.5	52.9	51.6	52.9	52.9
37.5°	77.4	73.6	74.8	69.7	60.6	54.2	47.7	45.2	45.2	43.9	45.2
40°	72.3	65.8	61.9	59.4	54.2	46.5	41.3	38.7	37.4	37.4	37.4
42.5°	64.5	59.4	51.6	50.3	49.0	40.0	33.5	32.3	31.0	29.7	29.7
45°	60.6	52.9	46.5	40.0	40.0	33.5	28.4	25.8	24.5	23.2	24.5
47.5°	55.5	47.7	40.0	33.5	32.3	27.1	21.9	19.4	18.1	18.1	18.1
50°	52.9	42.6	34.8	28.4	24.5	21.9	16.8	14.2	12.9	12.9	12.9
52.5°	49.0	40.0	31.0	24.5	19.4	16.8	12.9	10.3	9.0	9.0	9.0
55°	43.9	36.1	27.1	20.6	16.8	12.9	9.0	6.5	5.2	5.2	5.2
57.5°	41.3	32.3	23.2	18.1	12.9	9.0	5.2	3.9	3.9	2.6	3.9
60°	37.4	28.4	19.4	14.2	10.3	6.5	3.9	1.3	1.3	1.3	1.3
62.5°	32.3	24.5	16.8	11.6	7.7	3.9	1.3	0.0	0.0	0.0	0.0
65°	27.1	19.4	12.9	9.0	5.2	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	23.2	16.8	10.3	6.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	20.6	14.2	7.7	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16.8	11.6	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.2	9.0	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.0	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	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: P677246
 CATALOG NUMBER: CCW-SA-2C-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1638.8	1631.0	1669.7	1733.0	1765.2	1828.4	1843.9	1883.9	1873.6	1887.8
5°	1356.2	1371.7	1428.4	1521.3	1554.9	1646.5	1733.0	1819.4	1874.9	1902.0
7.5°	1006.5	1058.1	1127.8	1212.9	1299.4	1419.4	1566.5	1667.1	1721.3	1779.4
10°	749.7	805.2	885.2	969.1	1109.7	1243.9	1391.0	1516.2	1562.6	1616.8
12.5°	589.7	676.1	769.1	859.4	943.3	1071.0	1252.9	1434.9	1485.2	1526.5
15°	410.3	516.1	649.1	766.5	883.9	994.9	1183.3	1403.9	1472.3	1542.0
17.5°	227.1	311.0	463.2	628.4	801.3	971.6	1206.5	1460.7	1563.9	1613.0
20°	131.6	165.2	273.6	469.7	698.1	921.3	1218.1	1567.8	1704.6	1729.1
22.5°	108.4	120.0	154.8	294.2	571.6	889.1	1277.5	1717.5	1856.8	1914.9
25°	92.9	101.9	120.0	176.8	432.3	820.7	1314.9	1904.6	2033.6	2096.8
27.5°	82.6	91.6	105.8	130.3	294.2	726.5	1376.8	2073.6	2202.6	2289.1
30°	72.3	80.0	94.2	111.0	203.9	620.7	1429.7	2197.5	2379.4	2406.5
32.5°	64.5	71.0	81.3	95.5	151.0	471.0	1472.3	2325.2	2478.8	2538.1
35°	55.5	63.2	69.7	81.3	114.8	354.8	1446.5	2424.6	2624.6	2695.6
37.5°	49.0	54.2	60.6	68.4	96.8	277.4	1393.6	2543.3	2749.8	2815.6
40°	41.3	45.2	52.9	60.6	87.7	214.2	1332.9	2686.5	2925.3	3041.4
42.5°	34.8	38.7	43.9	56.8	72.3	158.7	1210.4	2797.5	3067.2	3165.3
45°	27.1	32.3	40.0	56.8	58.1	117.4	1083.9	2880.1	3147.2	3196.2
47.5°	20.6	25.8	38.7	49.0	46.5	81.3	934.2	2974.3	3229.8	3274.9
50°	15.5	20.6	43.9	42.6	38.7	61.9	840.0	3040.1	3234.9	3259.5
52.5°	10.3	15.5	36.1	32.3	32.3	54.2	814.2	3037.5	3247.8	3194.9
55°	7.7	11.6	20.6	23.2	28.4	47.7	791.0	3134.3	3251.7	3289.1
57.5°	5.2	9.0	14.2	18.1	24.5	41.3	743.2	3250.4	3371.7	3391.1
60°	2.6	6.5	10.3	14.2	20.6	36.1	676.1	3335.6	3517.5	3538.2
62.5°	1.3	3.9	7.7	11.6	16.8	28.4	606.5	3200.1	3454.3	3490.4
65°	0.0	2.6	5.2	7.7	10.3	20.6	492.9	2889.1	3204.0	3336.9
67.5°	0.0	0.0	2.6	5.2	6.5	15.5	371.6	2628.5	2973.0	3153.6
70°	0.0	0.0	1.3	1.3	3.9	11.6	237.4	2176.8	2654.3	2753.6
72.5°	0.0	0.0	0.0	0.0	1.3	7.7	138.1	1616.8	2080.1	2264.6
75°	0.0	0.0	0.0	0.0	0.0	6.5	69.7	1040.0	1447.8	1695.5
77.5°	0.0	0.0	0.0	0.0	0.0	5.2	37.4	671.0	1067.1	1274.9
80°	0.0	0.0	0.0	0.0	0.0	1.3	21.9	389.7	682.6	827.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	191.0	407.8	477.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	101.9	203.9	268.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	14.2	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)