

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: P671640

Luminaire Tested: **CCP-SA-2A-722-U-SLL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671640
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-722-U-SLL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SLL
distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344.1 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

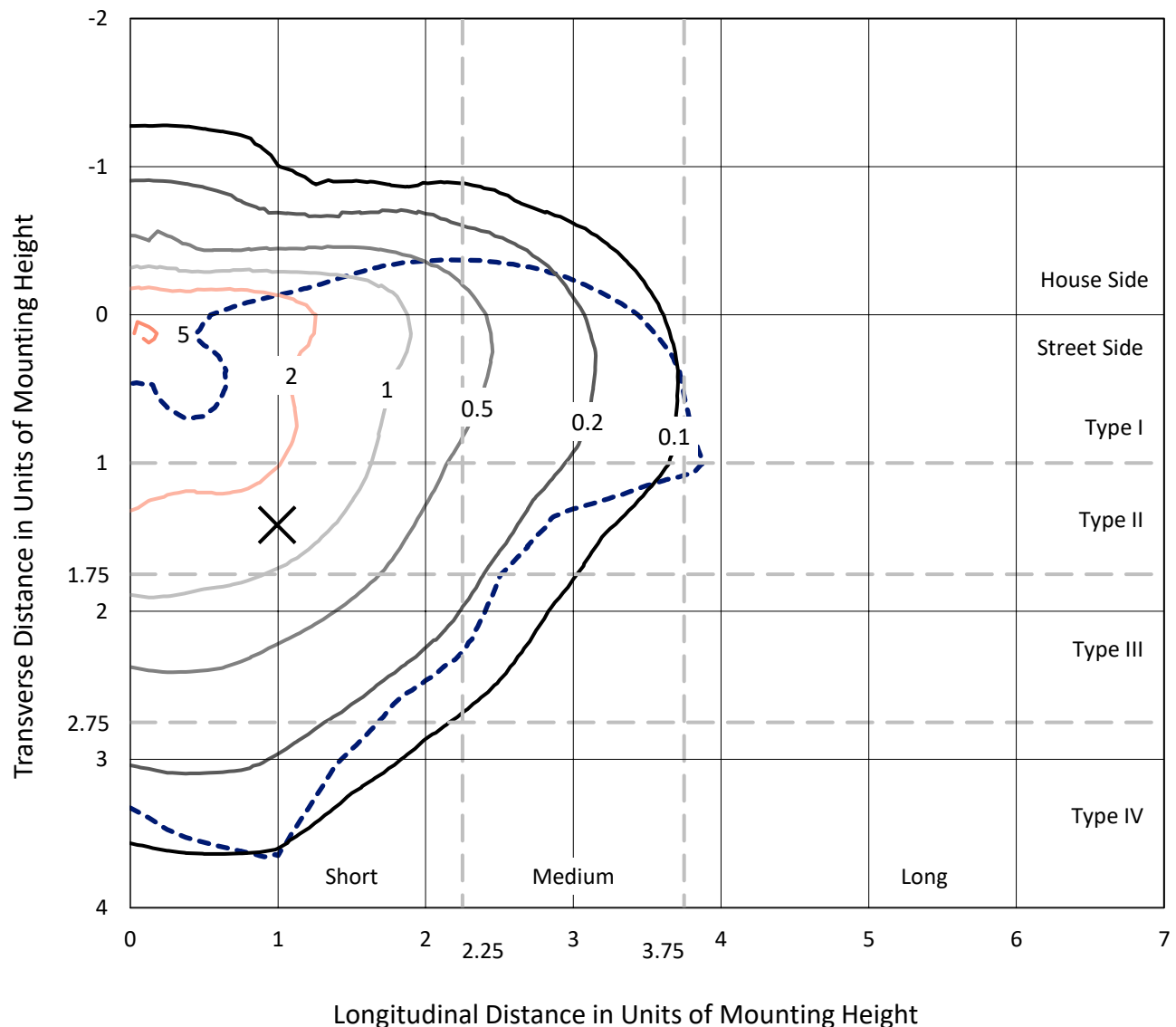
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P671640

CATALOG NUMBER: CCP-SA-2A-722-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

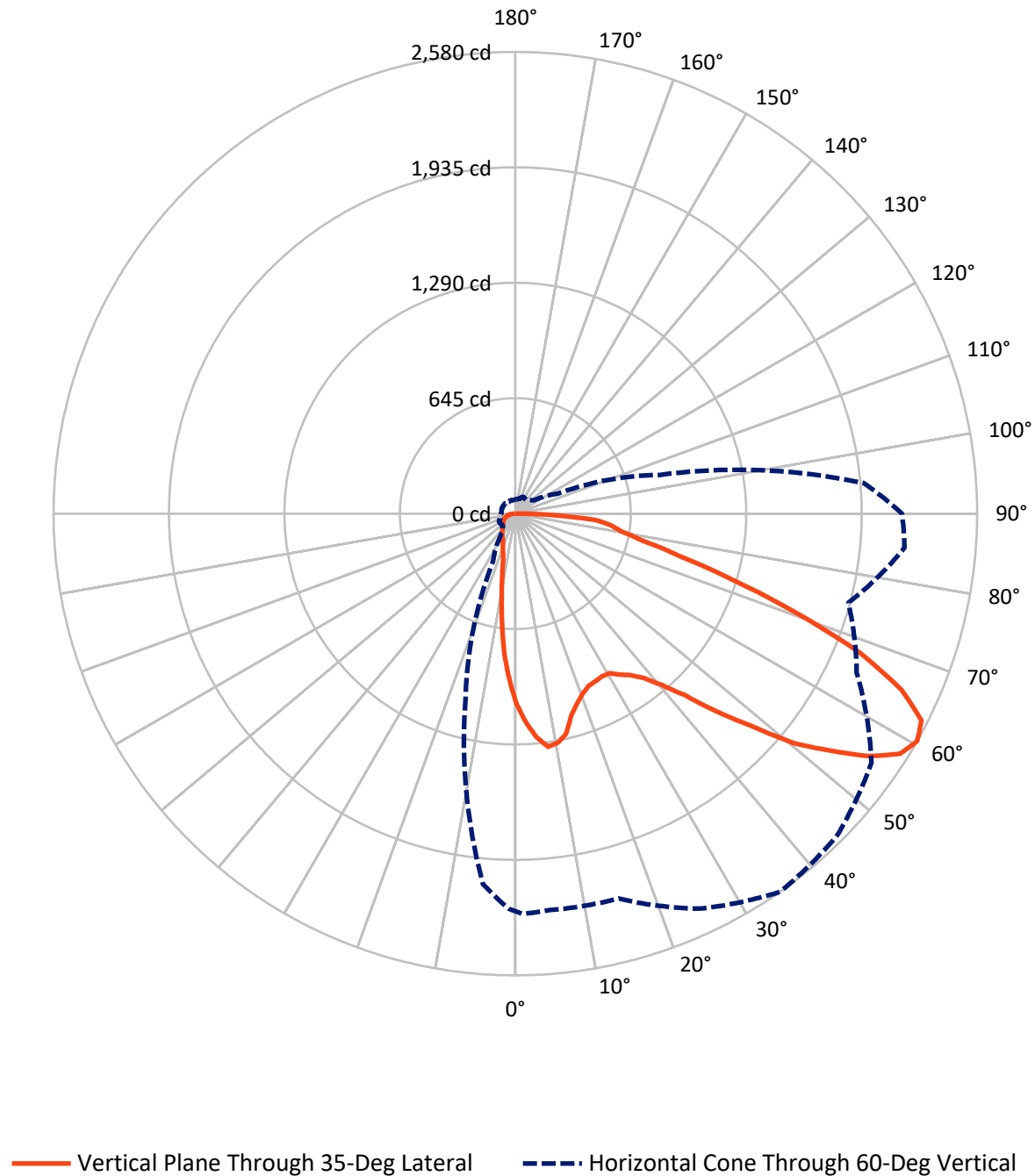
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P671640
CATALOG NUMBER: CCP-SA-2A-722-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P671640

CATALOG NUMBER: CCP-SA-2A-722-U-SLL

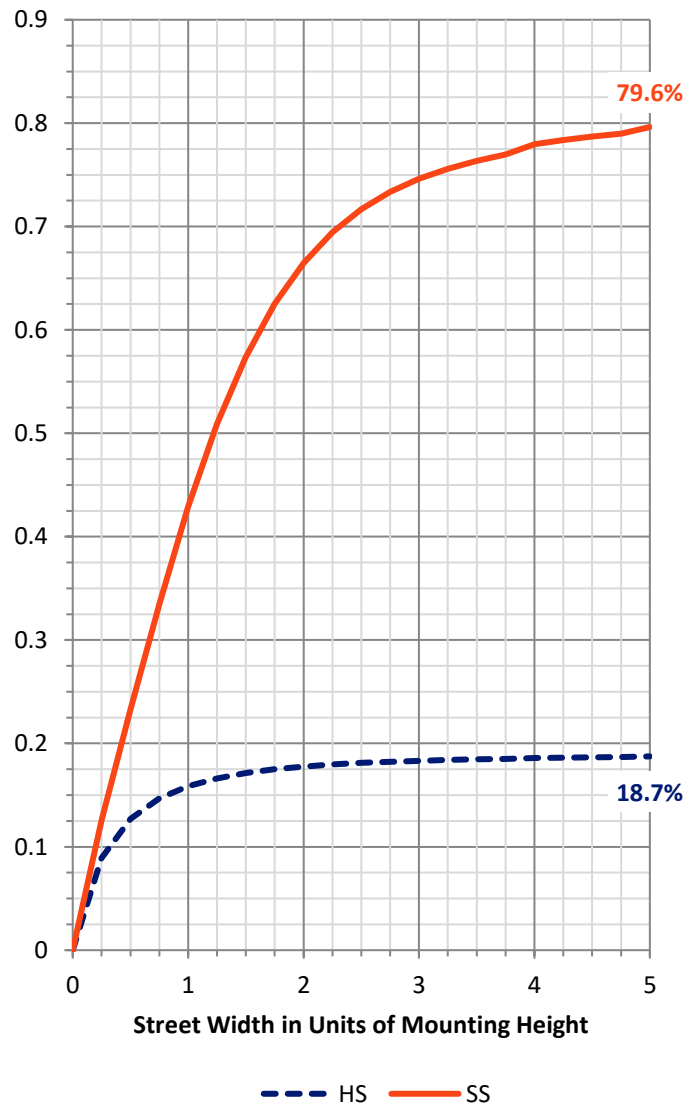
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.4	0.0	636.4
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2707.7	0.0	2707.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	3344.1	0.0	3344.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	2.5
10°-20°	175.2	5.2
20°-30°	256.3	7.7
30°-40°	361.1	10.8
40°-50°	496.3	14.8
50°-60°	676.4	20.2
60°-70°	740.3	22.1
70°-80°	427.4	12.8
80°-90°	128.0	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°	3344.1	100.0
0°-180°	3344.1	100.0

Coefficient of Utilization



REPORT NUMBER: P671640

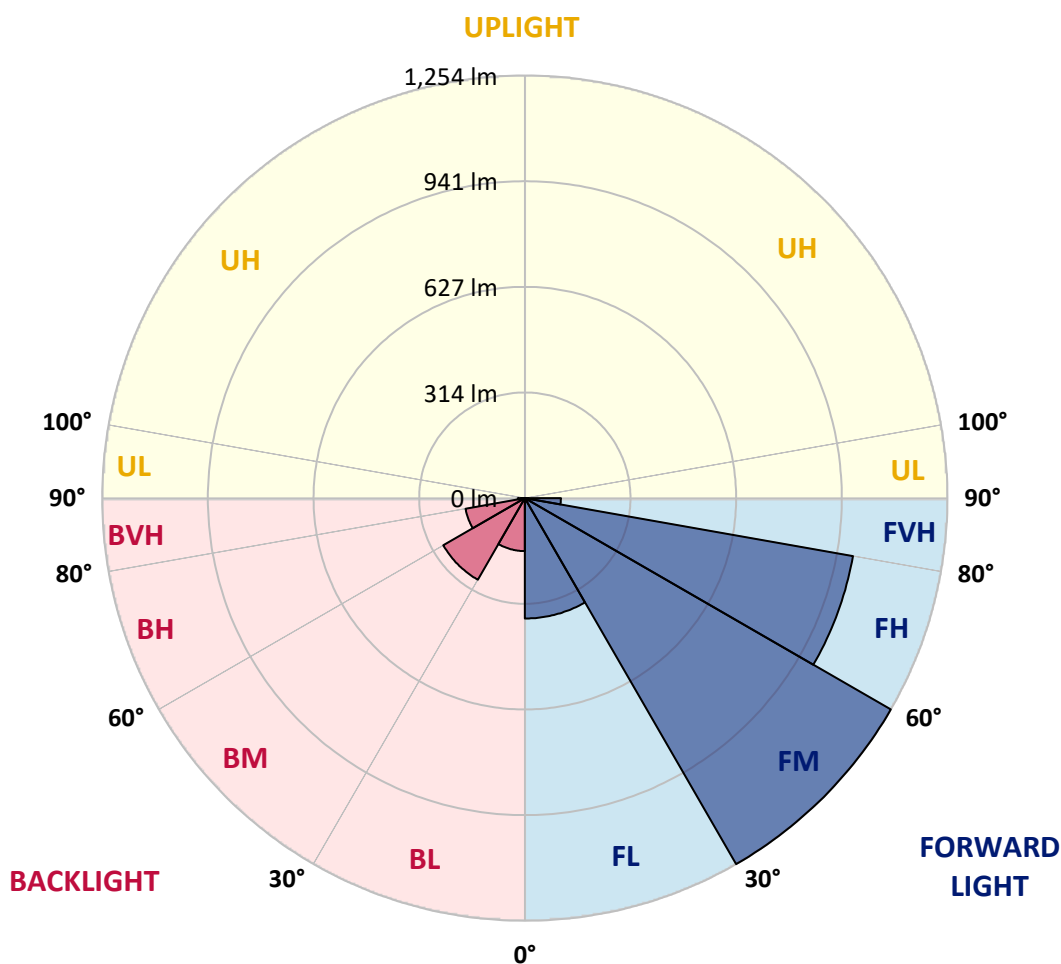
CATALOG NUMBER: CCP-SA-2A-722-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.3	10.7			
FM	(30°-60°)	1254.3	37.5			
FH	(60°-80°)	989.0	29.6			G1/1800
FVH	(80°-90°)	107.1	3.2			G2/225
BL	(0°-30°)	157.2	4.7	B1/500		
BM	(30°-60°)	279.6	8.4	B1/1000		
BH	(60°-80°)	178.8	5.3	B1/500		G1/500
BVH	(80°-90°)	20.9	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-G2

Type IV Short



REPORT NUMBER: P671640

CATALOG NUMBER: CCP-SA-2A-722-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1
2.5°	1143.8	1139.3	1143.8	1160.1	1164.5	1171.9	1171.9	1161.6	1142.3	1133.4	1118.5
5°	1169.0	1161.6	1198.6	1232.8	1259.5	1256.5	1231.3	1210.5	1171.9	1114.1	1059.2
7.5°	1118.5	1126.0	1152.7	1241.7	1304.0	1315.8	1275.8	1234.2	1151.2	1071.1	996.9
10°	1023.6	1034.0	1091.8	1183.8	1281.7	1301.0	1275.8	1225.3	1126.0	1026.6	940.5
12.5°	977.6	1001.3	1035.5	1146.7	1216.4	1262.4	1250.6	1217.9	1106.7	989.5	906.4
15°	977.6	983.5	1034.0	1127.4	1167.5	1169.0	1173.4	1179.4	1112.6	1005.8	894.5
17.5°	1008.8	1025.1	1068.1	1126.0	1133.4	1115.6	1115.6	1140.8	1124.5	1051.8	937.6
20°	1084.4	1078.5	1134.9	1158.6	1118.5	1074.0	1069.6	1112.6	1137.8	1100.7	1016.2
22.5°	1160.1	1186.8	1232.8	1179.4	1105.2	1045.8	1039.9	1093.3	1177.9	1185.3	1106.7
25°	1274.3	1301.0	1324.7	1259.5	1103.7	1038.4	1042.9	1084.4	1226.8	1305.5	1258.0
27.5°	1397.4	1413.7	1447.9	1347.0	1139.3	1029.5	1034.0	1096.3	1272.8	1384.1	1376.7
30°	1467.1	1485.0	1477.5	1363.3	1163.0	1035.5	1023.6	1112.6	1247.6	1384.1	1453.8
32.5°	1535.4	1525.0	1520.6	1390.0	1192.7	1072.5	1042.9	1146.7	1262.4	1406.3	1553.2
35°	1618.5	1603.6	1591.8	1441.9	1241.7	1108.2	1094.8	1191.2	1295.1	1452.3	1633.3
37.5°	1710.4	1710.4	1652.6	1480.5	1299.5	1166.0	1151.2	1255.0	1347.0	1480.5	1743.1
40°	1818.7	1823.2	1720.8	1532.4	1364.8	1258.0	1253.5	1338.1	1397.4	1522.0	1848.4
42.5°	1898.8	1901.8	1780.2	1551.7	1440.4	1385.6	1404.8	1471.6	1455.3	1559.1	1855.8
45°	1953.7	1938.9	1821.7	1606.6	1523.5	1576.9	1582.9	1602.1	1530.9	1581.4	1885.5
47.5°	1980.4	1977.5	1839.5	1670.4	1698.6	1771.3	1805.4	1778.7	1600.7	1557.6	1885.5
50°	2007.1	1981.9	1855.8	1757.9	1869.2	2016.0	2008.6	1959.7	1697.1	1587.3	1857.3
52.5°	2024.9	2002.7	1888.5	1836.5	2032.4	2198.5	2228.2	2137.7	1809.8	1642.2	1870.7
55°	2088.7	2070.9	1986.4	1943.3	2220.8	2391.3	2395.8	2269.7	1928.5	1732.7	1958.2
57.5°	2165.9	2176.2	2121.4	2094.7	2364.6	2532.3	2516.0	2367.6	2029.4	1842.5	2059.1
60°	2220.8	2237.1	2223.7	2226.7	2435.9	2579.7	2542.7	2428.4	2103.6	1925.5	2182.2
62.5°	2191.1	2223.7	2278.6	2266.7	2438.8	2545.6	2493.7	2348.3	2112.5	2033.8	2275.6
65°	2109.5	2112.5	2219.3	2284.5	2305.3	2369.1	2300.9	2180.7	2020.5	2100.6	2262.3
67.5°	1900.3	1924.1	2020.5	2148.1	2060.5	2075.4	2069.4	1895.9	1881.0	2054.6	2159.9
70°	1677.8	1694.1	1799.4	1949.3	1740.1	1670.4	1683.7	1554.7	1615.5	1912.2	1953.7
72.5°	1387.0	1397.4	1517.6	1649.6	1395.9	1271.3	1302.5	1197.2	1283.2	1673.4	1648.1
75°	1047.3	1066.6	1160.1	1315.8	1028.0	947.9	979.1	936.1	1016.2	1378.1	1278.7
77.5°	744.7	729.9	845.6	1029.5	772.9	725.4	728.4	735.8	821.8	1161.6	918.3
80°	507.3	511.8	615.6	755.1	606.7	599.3	591.9	651.2	689.8	919.7	667.6
82.5°	301.1	301.1	415.4	537.0	479.2	540.0	505.9	559.3	540.0	676.5	437.6
85°	140.9	140.9	213.6	387.2	370.9	445.0	378.3	422.8	399.1	471.7	197.3
87.5°	23.7	20.8	43.0	189.9	152.8	173.6	68.2	225.5	250.7	329.3	49.0
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: P671640

CATALOG NUMBER: CCP-SA-2A-722-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1
2.5°	1102.2	1091.8	1071.1	1044.4	1022.1	993.9	985.0	965.7	939.0	936.1	924.2
5°	1038.4	1002.8	958.3	903.4	866.3	827.8	795.1	775.9	753.6	750.6	744.7
7.5°	968.7	924.2	850.0	784.8	721.0	660.1	630.5	593.4	568.2	548.9	540.0
10°	903.4	861.9	769.9	680.9	624.5	584.5	548.9	510.3	479.2	455.4	446.5
12.5°	860.4	811.5	712.1	627.5	586.0	540.0	499.9	458.4	418.3	387.2	370.9
15°	841.1	795.1	694.3	600.8	540.0	476.2	430.2	388.7	339.7	317.5	310.0
17.5°	887.1	818.9	688.3	569.7	483.6	410.9	354.5	310.0	274.4	252.2	243.3
20°	946.5	861.9	698.7	532.6	430.2	348.6	286.3	238.8	215.1	198.8	197.3
22.5°	1022.1	925.7	715.0	505.9	370.9	280.4	224.0	195.8	179.5	178.0	175.0
25°	1157.1	1041.4	741.7	470.3	323.4	231.4	191.4	175.0	167.6	163.2	166.1
27.5°	1272.8	1117.1	761.0	448.0	304.1	218.1	185.4	167.6	160.2	158.7	160.2
30°	1341.1	1186.8	755.1	406.5	265.5	207.7	197.3	191.4	176.5	164.7	164.7
32.5°	1403.4	1231.3	753.6	369.4	227.0	173.6	164.7	160.2	169.1	175.0	170.6
35°	1489.4	1301.0	749.2	348.6	210.7	160.2	145.4	133.5	127.6	124.6	129.1
37.5°	1581.4	1348.5	737.3	345.6	201.8	152.8	140.9	129.1	123.1	120.2	118.7
40°	1682.3	1398.9	723.9	330.8	197.3	148.3	136.5	126.1	118.7	114.2	112.7
42.5°	1747.5	1439.0	710.6	323.4	188.4	145.4	132.0	123.1	115.7	109.8	109.8
45°	1784.6	1486.4	697.2	316.0	178.0	146.9	132.0	120.2	111.3	108.3	105.3
47.5°	1800.9	1522.0	692.8	304.1	169.1	140.9	129.1	117.2	108.3	102.4	100.9
50°	1844.0	1597.7	709.1	295.2	158.7	135.0	136.5	115.7	106.8	99.4	97.9
52.5°	1869.2	1658.5	744.7	281.9	151.3	127.6	133.5	112.7	102.4	94.9	94.9
55°	1961.1	1759.4	783.3	271.5	142.4	117.2	123.1	106.8	94.9	90.5	90.5
57.5°	2078.3	1866.2	815.9	267.0	136.5	109.8	109.8	103.8	90.5	84.6	83.1
60°	2159.9	1953.7	835.2	264.1	130.5	102.4	97.9	103.8	86.0	80.1	78.6
62.5°	2168.8	1903.3	815.9	262.6	129.1	94.9	89.0	99.4	81.6	75.7	72.7
65°	2112.5	1800.9	762.5	256.6	127.6	87.5	83.1	86.0	75.7	71.2	68.2
67.5°	1999.7	1634.8	685.4	253.7	126.1	81.6	75.7	74.2	69.7	65.3	62.3
70°	1737.1	1418.2	594.9	240.3	123.1	77.1	68.2	66.8	62.3	59.3	57.9
72.5°	1458.2	1160.1	491.0	222.5	117.2	69.7	62.3	59.3	57.9	53.4	51.9
75°	1117.1	893.0	393.1	197.3	102.4	62.3	54.9	51.9	50.4	47.5	46.0
77.5°	784.8	664.6	290.8	160.2	86.0	56.4	49.0	46.0	44.5	40.1	40.1
80°	532.6	465.8	197.3	111.3	66.8	46.0	43.0	40.1	37.1	34.1	34.1
82.5°	330.8	326.4	142.4	72.7	49.0	37.1	34.1	34.1	29.7	26.7	26.7
85°	151.3	200.3	99.4	50.4	37.1	28.2	28.2	26.7	23.7	19.3	19.3
87.5°	47.5	66.8	51.9	22.3	20.8	16.3	16.3	14.8	14.8	11.9	11.9
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: P671640

CATALOG NUMBER: CCP-SA-2A-722-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1
2.5°	936.1	934.6	934.6	928.7	943.5	943.5	952.4	945.0	949.4	950.9	962.8
5°	743.2	755.1	764.0	781.8	792.2	796.6	796.6	808.5	804.0	812.9	830.7
7.5°	544.4	559.3	586.0	608.2	626.0	632.0	630.5	633.4	637.9	627.5	630.5
10°	440.6	430.2	439.1	459.9	476.2	495.5	480.6	479.2	483.6	479.2	488.1
12.5°	367.9	356.0	348.6	348.6	360.5	369.4	364.9	372.4	388.7	393.1	403.5
15°	298.2	287.8	281.9	274.4	286.3	289.3	293.7	304.1	316.0	321.9	333.8
17.5°	238.8	238.8	238.8	232.9	237.4	241.8	243.3	256.6	258.1	264.1	268.5
20°	195.8	200.3	207.7	210.7	215.1	215.1	212.1	219.6	213.6	218.1	221.0
22.5°	176.5	182.5	185.4	186.9	192.9	194.3	186.9	188.4	189.9	185.4	186.9
25°	166.1	169.1	166.1	167.6	169.1	166.1	167.6	170.6	169.1	172.1	170.6
27.5°	161.7	158.7	157.2	155.8	155.8	152.8	154.3	154.3	157.2	158.7	158.7
30°	161.7	157.2	151.3	146.9	146.9	142.4	145.4	148.3	149.8	152.8	152.8
32.5°	166.1	157.2	146.9	142.4	138.0	135.0	138.0	142.4	148.3	149.8	151.3
35°	132.0	136.5	135.0	129.1	127.6	127.6	126.1	126.1	121.6	121.6	120.2
37.5°	118.7	117.2	120.2	121.6	123.1	118.7	118.7	112.7	111.3	112.7	112.7
40°	111.3	111.3	111.3	115.7	117.2	114.2	109.8	106.8	106.8	106.8	108.3
42.5°	108.3	105.3	103.8	106.8	111.3	108.3	103.8	102.4	102.4	103.8	103.8
45°	103.8	102.4	100.9	99.4	105.3	100.9	99.4	97.9	97.9	97.9	99.4
47.5°	99.4	97.9	94.9	94.9	96.4	94.9	93.5	93.5	93.5	96.4	96.4
50°	96.4	94.9	92.0	92.0	92.0	92.0	90.5	90.5	90.5	92.0	93.5
52.5°	92.0	90.5	89.0	87.5	87.5	87.5	87.5	87.5	87.5	89.0	90.5
55°	87.5	86.0	84.6	84.6	86.0	86.0	84.6	86.0	84.6	86.0	87.5
57.5°	83.1	81.6	80.1	81.6	83.1	81.6	81.6	81.6	81.6	81.6	83.1
60°	77.1	77.1	77.1	77.1	80.1	80.1	80.1	80.1	77.1	78.6	80.1
62.5°	74.2	72.7	72.7	74.2	75.7	75.7	77.1	75.7	74.2	75.7	75.7
65°	68.2	68.2	68.2	69.7	69.7	71.2	71.2	71.2	69.7	71.2	71.2
67.5°	63.8	63.8	63.8	63.8	66.8	66.8	66.8	66.8	65.3	65.3	66.8
70°	56.4	57.9	56.4	59.3	62.3	60.8	62.3	62.3	60.8	59.3	62.3
72.5°	51.9	51.9	51.9	51.9	56.4	56.4	56.4	57.9	56.4	54.9	56.4
75°	46.0	46.0	46.0	47.5	50.4	50.4	50.4	50.4	50.4	49.0	49.0
77.5°	40.1	41.5	40.1	41.5	44.5	43.0	44.5	46.0	44.5	43.0	43.0
80°	34.1	34.1	34.1	35.6	37.1	37.1	37.1	38.6	37.1	35.6	35.6
82.5°	26.7	26.7	28.2	28.2	29.7	29.7	29.7	31.2	29.7	28.2	28.2
85°	20.8	20.8	20.8	22.3	22.3	23.7	23.7	25.2	25.2	23.7	23.7
87.5°	13.4	11.9	13.4	13.4	14.8	14.8	13.4	11.9	13.4	11.9	10.4
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: P671640

CATALOG NUMBER: CCP-SA-2A-722-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1	1068.1
2.5°	974.6	1001.3	1020.6	1034.0	1053.3	1090.3	1105.2	1131.9	1139.3	1143.8
5°	838.2	866.3	907.9	937.6	971.7	1041.4	1094.8	1134.9	1152.7	1169.0
7.5°	657.2	694.3	737.3	775.9	832.2	918.3	988.0	1071.1	1102.2	1118.5
10°	513.3	547.4	594.9	642.3	721.0	793.7	893.0	968.7	1011.7	1023.6
12.5°	433.2	473.2	529.6	587.5	636.4	719.5	820.4	930.1	970.2	977.6
15°	367.9	422.8	480.6	540.0	596.4	669.0	777.3	910.8	970.2	977.6
17.5°	304.1	353.1	421.3	485.1	550.4	649.8	784.8	927.2	986.5	1008.8
20°	241.8	289.3	342.7	422.8	511.8	617.1	801.1	982.1	1060.7	1084.4
22.5°	200.3	221.0	273.0	350.1	455.4	594.9	817.4	1068.1	1151.2	1160.1
25°	175.0	189.9	222.5	295.2	410.9	580.0	856.0	1167.5	1274.3	1274.3
27.5°	163.2	169.1	191.4	256.6	379.8	566.7	894.5	1277.3	1376.7	1397.4
30°	160.2	175.0	186.9	228.5	345.6	529.6	930.1	1363.3	1465.7	1467.1
32.5°	157.2	154.3	163.2	198.8	304.1	491.0	959.8	1450.8	1530.9	1535.4
35°	123.1	129.1	143.9	175.0	273.0	462.8	974.6	1498.3	1614.0	1618.5
37.5°	115.7	123.1	135.0	161.7	252.2	439.1	979.1	1590.3	1701.5	1710.4
40°	112.7	118.7	127.6	149.8	235.9	409.4	988.0	1685.2	1830.6	1818.7
42.5°	106.8	114.2	123.1	143.9	222.5	387.2	989.5	1737.1	1898.8	1898.8
45°	105.3	109.8	120.2	143.9	207.7	367.9	965.7	1789.1	1977.5	1953.7
47.5°	99.4	108.3	117.2	139.4	189.9	348.6	937.6	1815.8	1987.8	1980.4
50°	97.9	106.8	121.6	132.0	179.5	339.7	931.6	1882.5	2008.6	2007.1
52.5°	94.9	103.8	126.1	126.1	166.1	327.8	959.8	1912.2	2013.1	2024.9
55°	90.5	103.8	117.2	115.7	154.3	313.0	991.0	1989.3	2091.7	2088.7
57.5°	87.5	100.9	111.3	105.3	140.9	302.6	1036.9	2063.5	2186.6	2165.9
60°	83.1	100.9	99.4	97.9	130.5	293.7	1075.5	2078.3	2207.4	2220.8
62.5°	80.1	105.3	87.5	90.5	121.6	289.3	1059.2	1967.1	2179.2	2191.1
65°	77.1	90.5	80.1	83.1	118.7	280.4	995.4	1833.6	2057.6	2109.5
67.5°	71.2	74.2	74.2	77.1	115.7	259.6	864.9	1593.2	1872.1	1900.3
70°	65.3	66.8	66.8	71.2	112.7	235.9	713.5	1378.1	1624.4	1677.8
72.5°	59.3	59.3	59.3	65.3	103.8	216.6	587.5	1059.2	1350.0	1387.0
75°	51.9	51.9	51.9	57.9	93.5	197.3	462.8	787.7	993.9	1047.3
77.5°	46.0	46.0	44.5	51.9	81.6	160.2	333.8	556.3	700.2	744.7
80°	38.6	37.1	37.1	41.5	63.8	115.7	215.1	393.1	488.1	507.3
82.5°	31.2	29.7	28.2	31.2	46.0	72.7	133.5	274.4	313.0	301.1
85°	29.7	31.2	25.2	23.7	32.6	47.5	84.6	169.1	140.9	140.9
87.5°	11.9	10.4	10.4	8.9	16.3	17.8	37.1	31.2	23.7	23.7
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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