

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: P672968

Luminaire Tested: **CCP-SA-1F-735-U-T1**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672968
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-735-U-T1
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T1 distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

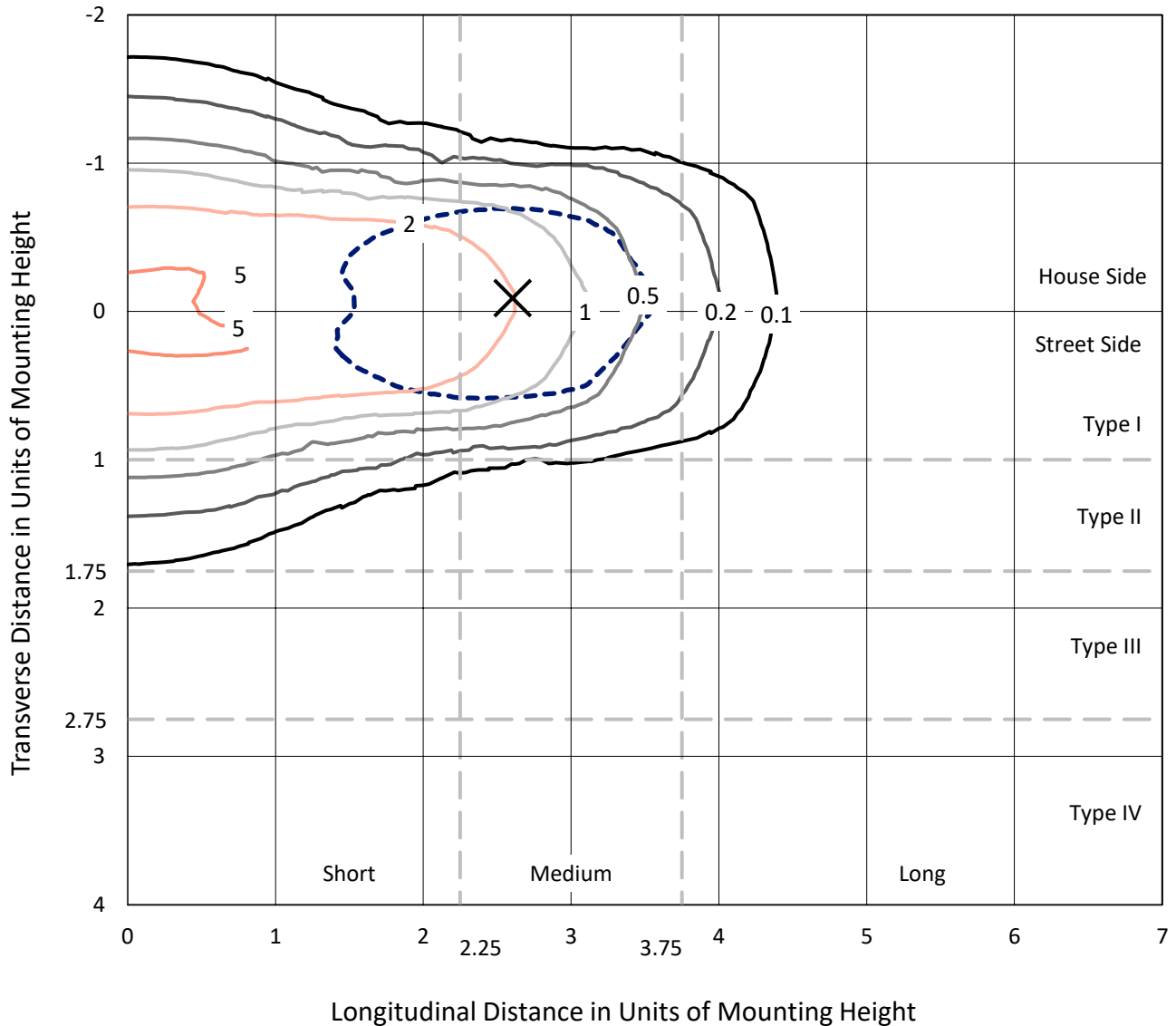
Lumens per Lamp: N/A
Luminaire Lumens: 7201.1 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 67
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: P672968
 CATALOG NUMBER: CCP-SA-1F-735-U-T1

Iso-Footcandle Lines of Horizontal Illumination

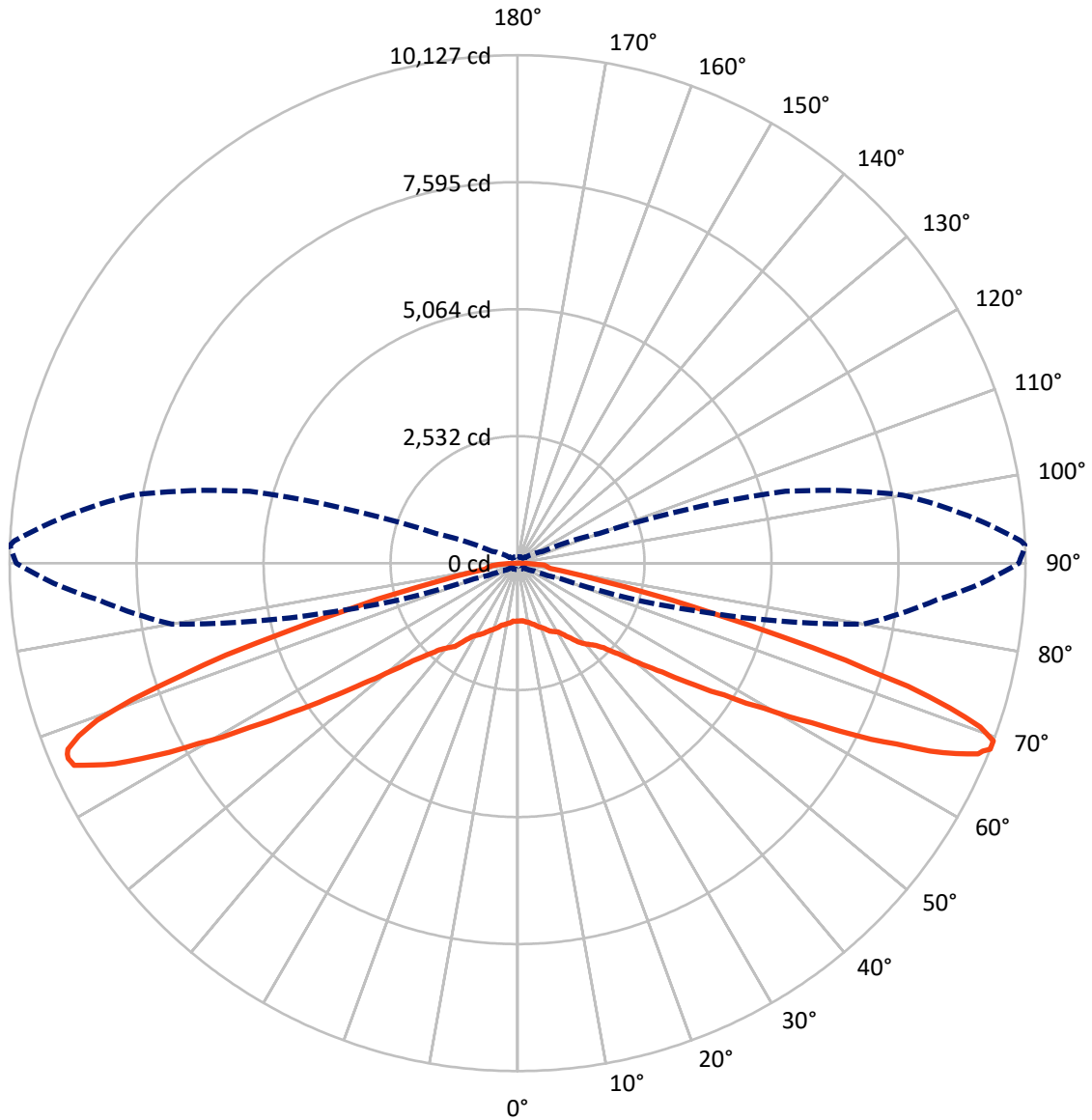
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 fc
 Type I - Short - N/A

REPORT NUMBER: P672968
CATALOG NUMBER: CCP-SA-1F-735-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P672968
 CATALOG NUMBER: CCP-SA-1F-735-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3708.4	0.0	3708.4
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	3492.6	0.0	3492.6
	% Fixture	48.5	0.0	48.5
Total	Lumens	7201.1	0.0	7201.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.6
10°-20°	373.6	5.2
20°-30°	637.5	8.9
30°-40°	890.1	12.4
40°-50°	1132.3	15.7
50°-60°	1431.7	19.9
60°-70°	1765.6	24.5
70°-80°	771.3	10.7
80°-90°	83.7	1.2
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°	7201.1	100.0
0°-180°	7201.1	100.0



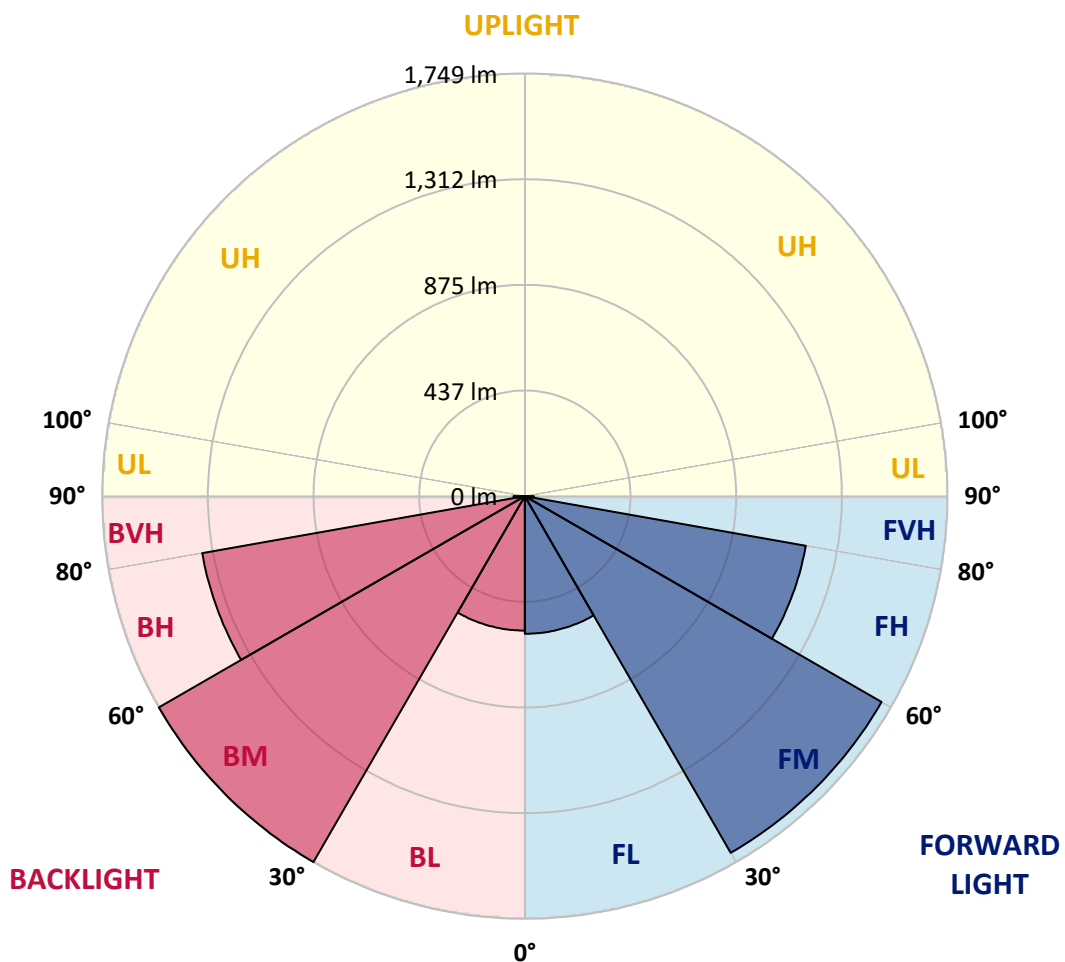
REPORT NUMBER: P672968
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.9	7.9			
FM (30°-60°)	1704.8	23.7			
FH (60°-80°)	1180.8	16.4			G1/1800
FVH (80°-90°)	37.1	0.5			G1/100
BL (0°-30°)	556.5	7.7	B2/1000		
BM (30°-60°)	1749.3	24.3	B2/2500		
BH (60°-80°)	1356.1	18.8	B3/2500		G3/2500
BVH (80°-90°)	46.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





REPORT NUMBER: P672968

CATALOG NUMBER: CCP-SA-1F-735-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5
2.5°	1175.8	1174.5	1178.5	1181.2	1169.1	1173.1	1170.4	1167.7	1158.3	1154.2	1146.1
5°	1208.3	1212.3	1225.8	1213.7	1219.1	1212.3	1190.7	1197.5	1185.3	1182.6	1174.5
7.5°	1265.0	1256.9	1275.8	1262.3	1266.4	1252.9	1243.4	1231.2	1228.5	1209.6	1211.0
10°	1277.2	1293.4	1301.5	1298.8	1301.5	1308.3	1290.7	1271.8	1246.1	1240.7	1221.8
12.5°	1269.1	1284.0	1305.6	1323.2	1335.3	1338.0	1331.3	1327.2	1316.4	1285.3	1284.0
15°	1261.0	1250.2	1263.7	1324.5	1365.0	1392.1	1401.5	1378.6	1381.3	1340.7	1324.5
17.5°	1206.9	1190.7	1243.4	1302.9	1352.9	1412.4	1458.3	1451.5	1451.5	1419.1	1396.1
20°	1135.3	1162.3	1189.4	1265.0	1356.9	1446.1	1534.0	1529.9	1513.7	1504.3	1454.3
22.5°	1074.5	1086.6	1136.6	1216.4	1331.3	1455.6	1559.7	1634.0	1596.2	1558.3	1528.6
25°	1032.6	1021.8	1085.3	1167.7	1306.9	1439.4	1608.3	1685.4	1705.6	1677.3	1620.5
27.5°	973.1	973.1	1023.1	1101.5	1228.5	1431.3	1655.6	1773.2	1802.9	1761.0	1678.6
30°	905.5	913.6	956.9	1046.1	1170.4	1371.8	1674.6	1874.6	1898.9	1862.4	1777.3
32.5°	852.8	852.8	901.5	996.1	1129.9	1344.8	1662.4	1974.6	2020.5	1993.5	1905.7
35°	796.1	792.0	827.1	931.2	1065.0	1292.1	1658.3	2054.3	2157.0	2158.4	2066.5
37.5°	715.0	731.2	775.8	858.2	1013.7	1240.7	1646.2	2150.3	2334.1	2365.2	2301.7
40°	660.9	667.7	708.2	798.8	933.9	1179.9	1628.6	2228.7	2451.7	2558.5	2470.6
42.5°	582.5	592.0	623.1	735.2	856.9	1093.4	1551.6	2284.1	2619.3	2740.9	2666.6
45°	500.1	505.5	551.4	643.3	774.4	990.7	1469.1	2373.3	2781.5	3030.1	2986.9
47.5°	401.4	404.1	443.3	539.3	675.8	888.0	1342.1	2369.2	2912.6	3319.4	3441.0
50°	313.6	320.3	350.0	428.4	556.8	762.3	1194.8	2336.8	3077.4	3649.1	3888.4
52.5°	250.0	251.4	270.3	332.5	429.8	636.6	1036.6	2234.1	3232.9	3972.2	4437.1
55°	206.8	206.8	217.6	255.4	329.8	483.8	851.5	2063.8	3251.8	4329.0	5035.8
56°	198.7	196.0	205.4	237.9	297.3	436.5	765.0	1948.9	3278.8	4493.9	5335.9
57°	187.9	189.2	194.6	217.6	267.6	386.5	669.0	1836.7	3259.9	4629.0	5557.5
58°	182.5	179.8	190.6	205.4	236.5	343.3	602.8	1704.3	3230.2	4739.8	5880.5
59°	174.3	173.0	179.8	193.3	220.3	305.4	521.7	1561.0	3172.1	4883.1	6121.1
60°	171.6	170.3	173.0	183.8	202.7	267.6	459.5	1393.4	3016.6	5030.4	6419.8
61°	163.5	164.9	170.3	177.1	191.9	240.6	413.6	1221.8	2915.3	5154.8	6749.6
62°	164.9	162.2	164.9	170.3	181.1	221.7	362.2	1052.8	2734.2	5295.3	6996.9
63°	156.8	155.4	159.5	166.2	171.6	200.0	316.3	909.6	2528.7	5327.7	7206.4
64°	154.1	152.7	154.1	163.5	164.9	187.9	279.8	777.1	2231.4	5383.2	7475.3
65°	147.3	147.3	150.0	154.1	159.5	177.1	250.0	674.4	1935.4	5237.2	7557.8
66°	141.9	143.3	143.3	150.0	154.1	164.9	229.8	573.1	1651.6	5004.7	7637.5
67°	137.9	137.9	139.2	144.6	148.7	155.4	206.8	496.0	1393.4	4727.7	7514.5
67.5°	135.2	136.5	136.5	141.9	146.0	155.4	197.3	470.3	1246.1	4423.6	7422.6
68°	131.1	132.5	132.5	137.9	141.9	150.0	190.6	429.8	1148.8	4226.2	7252.3
69°	128.4	127.0	127.0	132.5	137.9	143.3	177.1	375.7	913.6	3674.8	7003.7
70°	120.3	120.3	123.0	127.0	131.1	136.5	163.5	331.1	773.1	3042.3	6363.0
71°	116.2	114.9	116.2	120.3	124.3	131.1	150.0	293.3	632.5	2526.0	5733.2
72°	108.1	110.8	110.8	114.9	118.9	123.0	140.6	255.4	531.2	2019.2	5039.9
72.5°	106.8	106.8	108.1	112.2	114.9	121.6	135.2	244.6	485.2	1780.0	4749.3
73°	102.7	102.7	104.1	108.1	110.8	117.6	131.1	220.3	442.0	1584.0	4206.0
74°	98.7	97.3	97.3	102.7	104.1	110.8	123.0	194.6	370.3	1193.4	3376.1
75°	91.9	91.9	93.3	96.0	97.3	102.7	113.5	173.0	312.2	925.8	2640.9



REPORT NUMBER: P672968
 CATALOG NUMBER: CCP-SA-1F-735-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	75.7	77.0	78.4	81.1	81.1	85.1	93.3	120.3	190.6	469.0	1212.3
80°	55.4	58.1	62.2	66.2	64.9	64.9	73.0	86.5	113.5	210.8	464.9
82.5°	44.6	47.3	43.2	48.7	48.7	46.0	52.7	63.5	77.0	104.1	166.2
85°	29.7	31.1	25.7	29.7	28.4	28.4	35.1	37.8	47.3	58.1	82.4
87.5°	13.5	13.5	10.8	12.2	12.2	12.2	17.6	13.5	20.3	28.4	48.7
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: P672968

CATALOG NUMBER: CCP-SA-1F-735-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5
2.5°	1154.2	1159.6	1159.6	1154.2	1150.2	1154.2	1151.5	1144.7	1151.5	1154.2	1155.6
5°	1170.4	1159.6	1165.0	1152.9	1161.0	1159.6	1156.9	1163.7	1165.0	1165.0	1174.5
7.5°	1188.0	1201.5	1183.9	1185.3	1189.4	1173.1	1178.5	1181.2	1175.8	1186.6	1194.8
10°	1219.1	1224.5	1219.1	1198.8	1212.3	1201.5	1197.5	1209.6	1206.9	1209.6	1221.8
12.5°	1247.5	1256.9	1242.1	1240.7	1234.0	1224.5	1229.9	1228.5	1247.5	1250.2	1265.0
15°	1305.6	1281.3	1275.8	1274.5	1271.8	1267.7	1270.4	1271.8	1296.1	1300.2	1335.3
17.5°	1355.6	1351.5	1321.8	1332.6	1332.6	1316.4	1309.6	1332.6	1351.5	1371.8	1396.1
20°	1406.9	1402.9	1370.5	1371.8	1359.6	1374.5	1366.4	1388.0	1420.5	1427.2	1448.8
22.5°	1467.8	1450.2	1427.2	1429.9	1434.0	1423.2	1417.8	1447.5	1479.9	1498.9	1500.2
25°	1563.7	1519.1	1500.2	1502.9	1497.5	1489.4	1493.4	1531.3	1547.5	1588.1	1579.9
27.5°	1615.1	1589.4	1575.9	1544.8	1546.2	1534.0	1550.2	1607.0	1639.4	1670.5	1608.3
30°	1677.3	1661.0	1601.6	1590.8	1589.4	1584.0	1613.7	1686.7	1735.4	1752.9	1663.7
32.5°	1798.9	1734.0	1719.2	1709.7	1688.1	1694.8	1709.7	1805.7	1882.7	1878.6	1715.1
35°	1938.1	1893.5	1851.6	1843.5	1840.8	1821.9	1847.5	1959.7	2019.2	2001.6	1734.0
37.5°	2161.1	2093.5	2036.8	2005.7	2000.3	1986.8	2047.6	2136.8	2213.8	2144.9	1748.9
40°	2270.6	2194.9	2142.2	2123.3	2127.3	2146.2	2205.7	2342.2	2376.0	2249.0	1761.0
42.5°	2427.4	2344.9	2240.8	2231.4	2219.2	2228.7	2343.6	2527.4	2555.8	2389.5	1715.1
45°	2705.8	2581.4	2461.1	2407.1	2409.8	2435.5	2613.9	2815.2	2762.5	2486.8	1642.1
47.5°	3057.2	2874.7	2777.4	2704.4	2739.6	2711.2	2995.0	3155.8	2976.1	2609.8	1552.9
50°	3585.6	3330.2	3197.7	3109.9	3124.7	3149.1	3437.0	3573.5	3212.6	2669.3	1416.4
52.5°	4251.9	3923.5	3728.9	3611.3	3622.1	3674.8	4046.5	4004.6	3482.9	2719.3	1234.0
55°	5049.3	4711.4	4334.4	4285.7	4273.6	4399.2	4808.8	4456.0	3726.2	2639.5	1044.7
56°	5471.0	5111.5	4719.6	4619.5	4589.8	4677.7	5158.8	4681.7	3810.0	2550.3	954.2
57°	5829.2	5485.9	5056.1	4885.8	4923.6	5088.5	5506.2	4893.9	3887.0	2458.4	869.0
58°	6321.1	5929.2	5475.1	5345.3	5311.5	5442.6	5880.5	5107.4	3912.7	2363.8	790.6
59°	6811.7	6341.4	5931.9	5695.4	5704.8	5944.0	6249.5	5361.5	3951.9	2243.5	690.6
60°	7184.8	6948.2	6400.9	6223.8	6199.5	6545.5	6617.1	5531.8	3993.8	2081.4	620.4
61°	7713.2	7405.1	6895.5	6667.1	6733.3	7010.4	7014.5	5745.4	3931.6	1875.9	533.9
62°	8093.0	8011.9	7476.7	7259.1	7238.8	7606.4	7428.0	5933.2	3877.6	1681.3	471.7
63°	8537.6	8537.6	8049.7	7879.4	7888.9	8179.5	7607.8	6121.1	3815.4	1466.4	414.9
64°	8768.8	9059.3	8609.3	8370.1	8432.2	8683.6	7928.1	6244.1	3623.5	1248.8	364.9
65°	8968.8	9405.3	9155.3	9044.5	8949.9	9098.5	8205.2	6359.0	3330.2	1062.3	324.4
66°	9137.7	9731.0	9648.6	9529.7	9520.2	9486.4	8259.2	6354.9	3027.4	897.4	283.8
67°	9052.6	9737.8	9887.8	9937.8	9923.0	9566.2	8164.6	6210.3	2639.5	758.2	252.7
67.5°	8975.5	9682.4	10031.1	10002.7	10064.9	9633.7	8180.8	6033.3	2363.8	686.6	237.9
68°	8908.0	9608.1	10089.2	10125.7	10094.6	9641.8	8091.6	5892.7	2176.0	644.7	224.4
69°	8395.7	9255.3	9995.9	10127.0	10047.3	9332.3	7807.8	5526.4	1728.6	550.1	206.8
70°	7882.1	8798.5	9543.2	9783.8	9685.1	8733.6	7449.7	4943.9	1425.9	470.3	186.5
71°	7171.2	7949.7	8940.4	9085.0	8966.1	8052.4	6709.0	4329.0	1109.6	398.7	166.2
72°	6206.2	6867.1	7813.2	8163.3	7987.6	7072.6	5960.3	3577.5	898.8	335.2	151.4
72.5°	5727.8	6404.9	7317.2	7345.6	7379.4	6646.8	5642.7	3142.3	783.9	310.9	147.3
73°	5273.7	5937.3	6726.6	6826.6	6683.3	5929.2	5168.3	2809.8	716.3	283.8	141.9
74°	4273.6	4652.0	5306.1	5403.4	5277.7	4834.4	4223.5	2154.3	570.3	244.6	129.7
75°	3362.6	3570.8	4162.7	4103.3	3915.4	3760.0	3274.8	1646.2	462.2	214.9	120.3



REPORT NUMBER: P672968
 CATALOG NUMBER: CCP-SA-1F-735-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1511.0	1636.7	1735.4	1735.4	1746.2	1666.4	1509.7	755.5	285.2	155.4	98.7
80°	575.8	644.7	666.3	667.7	677.1	701.4	652.8	371.7	168.9	110.8	79.7
82.5°	417.6	583.9	628.5	596.0	598.7	540.6	250.0	164.9	106.8	77.0	58.1
85°	378.4	508.2	537.9	533.9	535.2	500.1	147.3	81.1	62.2	48.7	40.5
87.5°	183.8	179.8	190.6	214.9	209.5	271.7	124.3	40.5	27.0	20.3	20.3
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: P672968

CATALOG NUMBER: CCP-SA-1F-735-U-T1

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5
2.5°	1144.7	1143.4	1162.3	1143.4	1154.2	1146.1
5°	1158.3	1163.7	1167.7	1175.8	1156.9	1175.8
7.5°	1198.8	1204.2	1205.6	1212.3	1204.2	1202.9
10°	1229.9	1243.4	1251.5	1224.5	1240.7	1239.4
12.5°	1290.7	1277.2	1275.8	1270.4	1255.6	1250.2
15°	1334.0	1313.7	1301.5	1279.9	1262.3	1255.6
17.5°	1394.8	1355.6	1305.6	1261.0	1229.9	1205.6
20°	1432.6	1362.3	1262.3	1209.6	1162.3	1173.1
22.5°	1457.0	1355.6	1223.1	1155.6	1108.3	1121.8
25°	1465.1	1321.8	1196.1	1112.3	1066.4	1056.9
27.5°	1442.1	1282.6	1143.4	1048.8	1008.2	1016.4
30°	1431.3	1225.8	1094.7	1001.5	947.4	955.5
32.5°	1402.9	1167.7	1029.9	935.3	896.1	882.6
35°	1362.3	1119.1	967.7	878.5	831.2	820.4
37.5°	1312.3	1058.3	913.6	805.5	763.6	755.5
40°	1238.0	985.3	835.2	742.0	693.3	692.0
42.5°	1173.1	915.0	762.3	666.3	617.7	620.4
45°	1090.7	820.4	678.5	596.0	547.4	550.1
47.5°	985.3	732.5	598.7	506.8	466.3	463.6
50°	860.9	632.5	501.4	423.0	389.2	382.5
52.5°	742.0	531.2	410.9	340.6	312.2	309.5
55°	592.0	413.6	320.3	267.6	246.0	247.3
56°	537.9	381.1	291.9	244.6	228.4	228.4
57°	486.6	337.9	264.9	225.7	210.8	210.8
58°	429.8	297.3	240.6	204.1	197.3	191.9
59°	390.6	270.3	217.6	193.3	182.5	181.1
60°	344.6	243.3	202.7	181.1	173.0	171.6
61°	305.4	218.9	186.5	168.9	166.2	166.2
62°	273.0	202.7	173.0	163.5	162.2	158.1
63°	244.6	186.5	166.2	155.4	151.4	155.4
64°	218.9	171.6	160.8	152.7	147.3	150.0
65°	198.7	164.9	154.1	148.7	143.3	144.6
66°	185.2	154.1	148.7	141.9	139.2	140.6
67°	167.6	148.7	143.3	136.5	135.2	136.5
67.5°	162.2	144.6	140.6	133.8	132.5	133.8
68°	158.1	141.9	139.2	132.5	131.1	129.7
69°	147.3	136.5	132.5	129.7	127.0	125.7
70°	137.9	131.1	128.4	124.3	121.6	120.3
71°	132.5	124.3	123.0	118.9	116.2	114.9
72°	125.7	120.3	117.6	112.2	110.8	112.2
72.5°	124.3	117.6	116.2	110.8	109.5	109.5
73°	120.3	112.2	113.5	108.1	105.4	108.1
74°	112.2	109.5	106.8	102.7	101.4	101.4
75°	105.4	102.7	100.0	97.3	97.3	97.3



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82.5°	54.1	55.4	58.1	54.1	51.4	48.7
85°	35.1	36.5	36.5	32.4	37.8	35.1
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90°	0.0	0.0	0.0	0.0	0.0	0.0

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