

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: P672016

Luminaire Tested: **CCP-SA-2A-830-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672016
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-830-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ AFL
distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4387.6 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

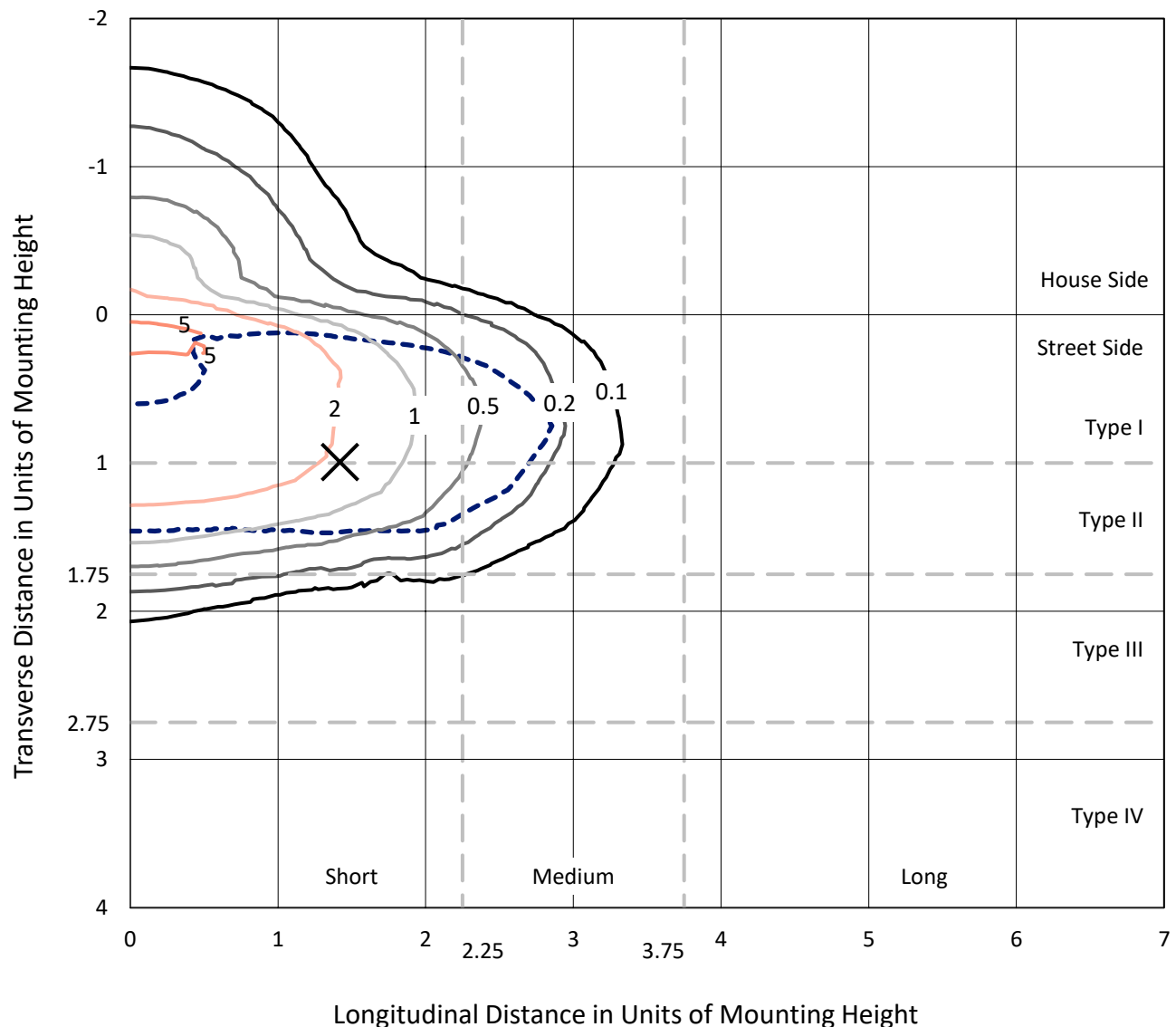
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P672016

CATALOG NUMBER: CCP-SA-2A-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

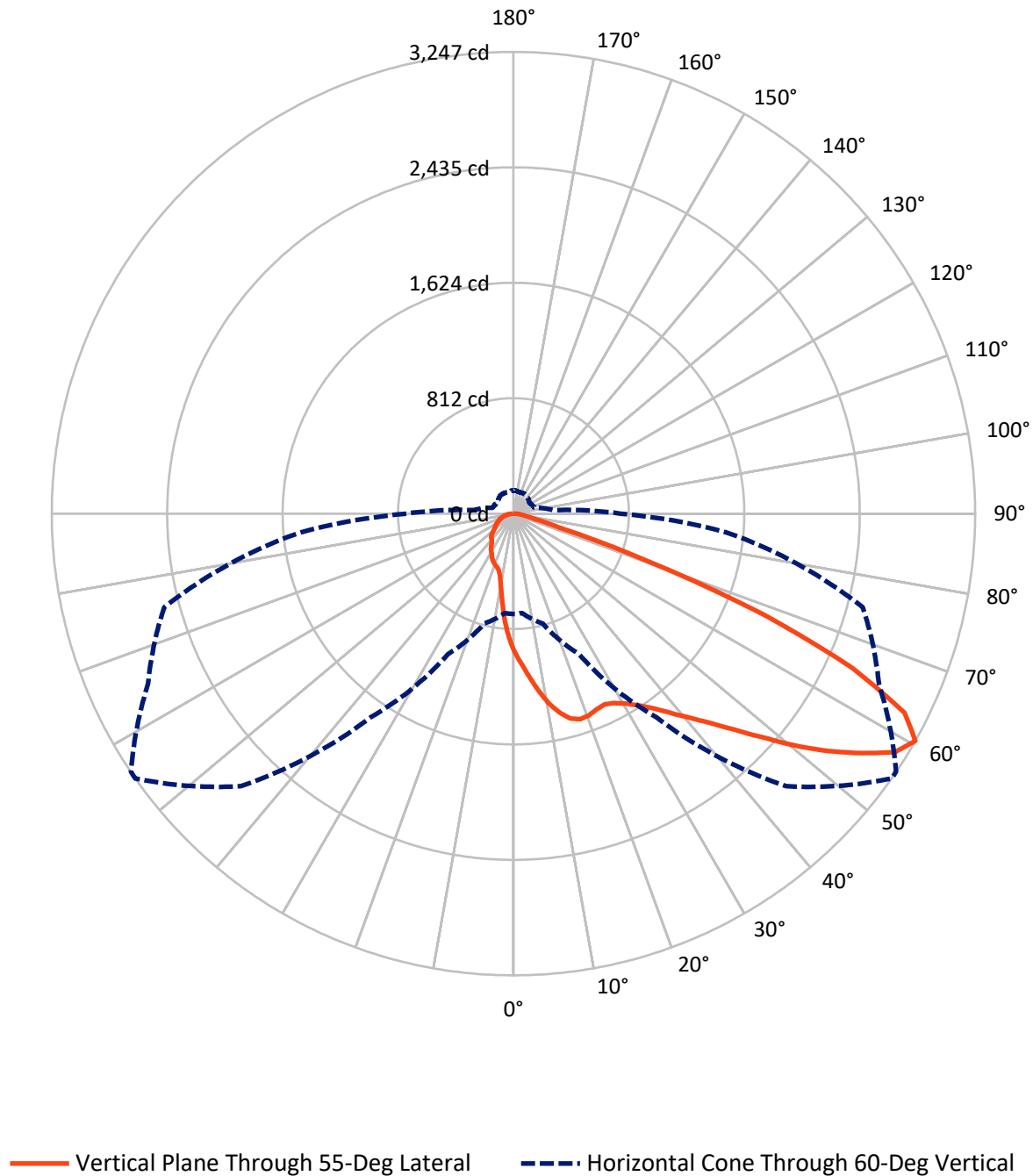
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P672016
CATALOG NUMBER: CCP-SA-2A-830-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P672016

CATALOG NUMBER: CCP-SA-2A-830-U-AFL

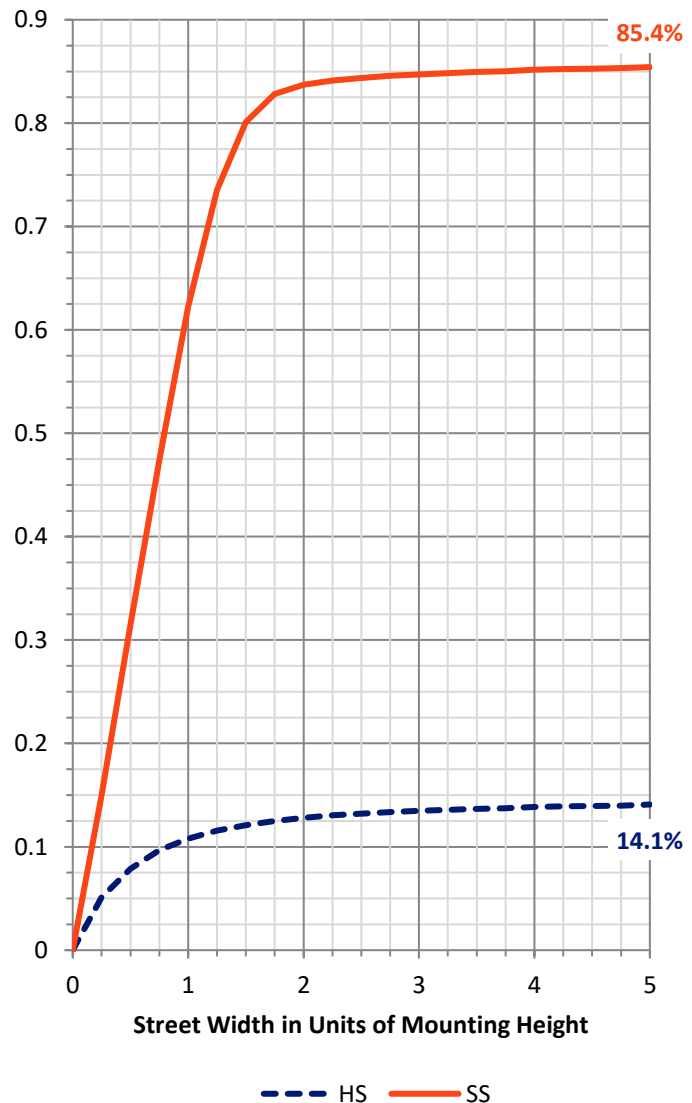
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.7	0.0	630.7
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	3756.8	0.0	3756.8
	% Fixture	85.6	0.0	85.6
Total	Lumens	4387.6	0.0	4387.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	2.1
10°-20°	258.0	5.9
20°-30°	420.1	9.6
30°-40°	627.8	14.3
40°-50°	922.8	21.0
50°-60°	1081.5	24.6
60°-70°	713.1	16.3
70°-80°	227.1	5.2
80°-90°	46.2	1.1
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°	4387.6	100.0
0°-180°	4387.6	100.0



REPORT NUMBER: P672016

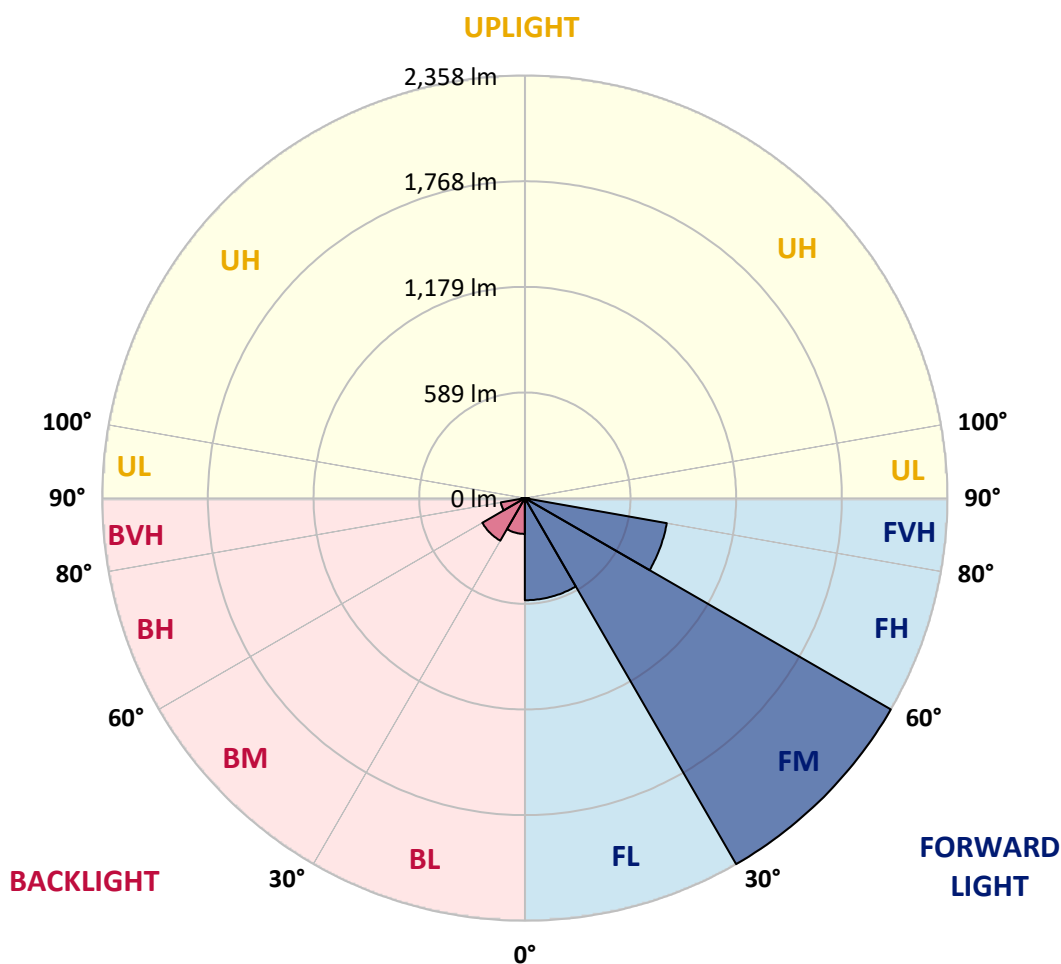
CATALOG NUMBER: CCP-SA-2A-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.5	13.0			
FM	(30°-60°)	2358.0	53.7			
FH	(60°-80°)	804.1	18.3			G1/1800
FVH	(80°-90°)	25.3	0.6			G1/100
BL	(0°-30°)	199.6	4.6	B1/500		
BM	(30°-60°)	274.1	6.2	B1/1000		
BH	(60°-80°)	136.1	3.1	B1/500		G1/500
BVH	(80°-90°)	20.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P672016

CATALOG NUMBER: CCP-SA-2A-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1
2.5°	1132.4	1128.2	1128.2	1117.7	1102.2	1080.5	1054.8	1048.4	1038.6	1013.4	981.0
5°	1305.0	1300.6	1294.5	1276.1	1247.2	1203.9	1149.5	1139.7	1104.4	1052.6	994.0
7.5°	1419.2	1416.7	1414.8	1398.9	1370.2	1327.6	1254.8	1243.7	1183.9	1098.0	1006.4
10°	1407.4	1415.1	1428.4	1439.6	1445.3	1423.3	1355.0	1341.9	1267.8	1150.8	1024.9
12.5°	1297.1	1307.9	1332.7	1378.2	1430.7	1472.9	1434.1	1426.8	1357.5	1206.8	1048.1
15°	1215.1	1219.5	1231.6	1265.3	1343.5	1456.4	1495.5	1488.8	1441.1	1278.7	1074.8
17.5°	1189.6	1191.5	1194.4	1205.5	1258.9	1391.9	1520.6	1527.0	1522.2	1353.4	1105.0
20°	1202.3	1203.6	1203.9	1205.8	1231.3	1337.8	1514.0	1524.8	1593.5	1428.1	1134.9
22.5°	1251.3	1249.7	1247.5	1240.2	1254.5	1328.3	1496.2	1513.3	1648.5	1496.2	1162.6
25°	1336.8	1334.6	1319.0	1303.8	1309.8	1362.6	1486.6	1505.1	1691.4	1560.4	1182.9
27.5°	1438.6	1436.4	1420.5	1391.5	1385.2	1419.8	1508.9	1520.3	1722.9	1617.3	1191.8
30°	1544.2	1544.2	1524.5	1491.1	1470.7	1485.3	1549.9	1559.1	1746.7	1672.3	1197.6
32.5°	1659.3	1662.5	1631.9	1593.8	1571.2	1562.6	1607.5	1615.4	1781.4	1737.2	1209.6
35°	1807.2	1800.2	1763.0	1712.7	1676.5	1657.1	1678.7	1687.9	1832.3	1818.0	1229.0
37.5°	1973.5	1961.1	1915.3	1855.2	1791.9	1759.5	1773.8	1776.0	1907.6	1923.2	1264.3
40°	2110.8	2108.6	2069.8	2012.9	1933.1	1889.5	1882.5	1883.8	2012.3	2047.9	1317.8
42.5°	2226.6	2218.3	2211.3	2191.3	2106.7	2035.2	2006.5	2006.9	2125.8	2176.7	1371.5
45°	2277.8	2276.2	2296.9	2348.4	2287.6	2203.4	2162.7	2168.4	2255.8	2308.9	1423.3
47.5°	2255.8	2257.1	2312.4	2447.6	2483.5	2419.0	2346.8	2343.3	2381.8	2410.4	1469.1
50°	2060.0	2080.6	2230.4	2456.8	2612.0	2644.1	2562.7	2549.7	2492.1	2491.2	1497.1
52.5°	1912.1	1911.1	2003.0	2363.0	2657.5	2847.3	2774.2	2744.9	2583.4	2536.6	1499.3
55°	1712.4	1711.1	1779.5	2088.6	2567.2	2989.1	2973.6	2937.0	2667.0	2551.6	1484.1
57.5°	1296.8	1320.9	1389.0	1672.0	2281.0	2966.6	3164.0	3133.5	2748.7	2544.9	1481.2
60°	705.6	702.8	801.3	1089.8	1746.4	2710.3	3247.0	3245.4	2835.5	2542.4	1498.7
62.5°	325.3	322.1	341.8	485.3	1001.4	2171.3	3086.8	3109.7	2916.0	2519.1	1497.1
65°	243.3	235.0	208.3	225.8	383.2	1296.1	2621.9	2682.9	2792.0	2423.7	1427.8
67.5°	216.9	208.9	177.8	166.6	192.4	457.3	1901.9	1958.2	2334.7	2245.0	1315.5
70°	198.7	191.7	160.6	143.1	144.4	202.6	995.6	1106.3	1711.1	1873.6	1121.2
72.5°	181.3	175.2	146.9	125.9	121.5	133.9	339.3	409.3	1064.3	1365.5	836.0
75°	162.8	157.1	132.3	112.9	104.3	99.2	161.5	173.9	562.8	754.0	448.7
77.5°	141.5	138.3	118.0	99.5	92.2	75.0	107.5	112.9	241.0	296.1	213.7
80°	123.1	120.5	105.3	90.3	82.7	57.9	74.1	77.9	118.9	147.9	119.6
82.5°	80.1	86.5	87.1	77.6	72.8	46.4	49.0	51.8	78.9	87.1	52.2
85°	33.1	40.1	60.1	53.4	50.6	39.4	32.4	33.1	48.3	50.9	18.8
87.5°	14.9	16.5	29.6	29.9	26.1	14.9	16.2	17.8	24.8	24.5	8.3
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: P672016

CATALOG NUMBER: CCP-SA-2A-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1	973.1
2.5°	972.1	957.5	931.4	898.0	874.2	856.7	837.6	823.6	808.0	794.3	796.6
5°	969.9	941.6	883.1	821.1	760.6	711.0	669.7	639.2	607.7	595.3	593.7
7.5°	971.8	923.8	827.7	726.3	634.4	571.1	523.1	494.2	476.0	465.5	466.2
10°	971.2	906.9	768.0	628.0	527.6	469.7	440.4	430.9	429.3	430.6	432.5
12.5°	972.1	884.0	700.9	539.6	450.9	421.3	422.6	431.2	436.6	440.1	442.3
15°	976.2	865.3	632.2	470.0	410.8	411.8	425.5	438.8	446.8	450.6	452.5
17.5°	982.3	841.7	571.1	417.2	394.0	408.6	426.4	440.7	446.8	449.0	450.6
20°	982.9	814.7	509.4	381.0	382.9	401.9	417.5	429.0	436.6	439.1	440.4
22.5°	980.1	778.1	446.1	354.6	370.1	389.2	402.6	415.6	405.4	397.2	394.9
25°	968.0	732.0	392.1	332.9	354.2	372.1	387.3	373.0	368.2	361.9	362.5
27.5°	941.9	674.5	341.2	312.6	335.5	360.9	349.8	347.9	341.8	335.5	335.5
30°	907.6	613.7	298.6	291.3	312.9	325.6	328.2	325.3	321.8	313.5	314.2
32.5°	876.7	549.5	268.4	273.5	298.6	298.6	309.7	309.7	297.0	273.8	273.8
35°	846.2	489.1	246.1	258.5	275.1	280.5	295.7	275.7	257.6	247.1	246.4
37.5°	822.3	437.6	231.5	245.8	252.2	265.8	266.2	251.5	245.5	236.0	235.0
40°	808.3	394.3	222.6	239.4	240.1	252.8	231.8	236.0	234.7	227.4	226.4
42.5°	800.7	360.9	215.9	234.0	230.9	218.5	214.6	221.6	223.9	220.1	218.5
45°	794.7	334.8	210.5	215.3	223.5	201.0	199.4	204.8	209.6	209.2	208.0
47.5°	791.5	316.7	205.7	203.5	205.1	190.5	187.3	189.8	195.9	199.7	199.4
50°	779.1	302.7	198.7	191.4	181.3	181.3	179.7	179.7	187.0	194.6	195.2
52.5°	757.1	286.2	188.6	180.0	168.2	173.3	173.9	172.7	180.3	188.6	189.2
55°	733.0	273.8	174.9	169.5	157.4	166.0	168.9	167.6	172.7	178.4	178.1
57.5°	733.3	273.5	163.1	159.0	147.2	156.8	163.8	164.1	163.8	167.9	167.9
60°	751.7	279.8	153.9	145.0	135.5	146.9	158.4	158.4	156.1	162.2	162.8
62.5°	757.1	279.2	148.2	131.6	125.0	138.0	150.4	152.3	150.7	159.3	160.3
65°	709.4	264.3	142.5	119.6	115.4	128.2	140.6	146.0	144.4	155.5	156.8
67.5°	643.3	244.9	133.6	108.8	105.6	118.6	130.4	136.1	135.8	150.4	151.0
70°	554.6	221.0	122.4	97.6	96.0	107.5	118.0	124.0	126.9	143.7	143.4
72.5°	429.6	189.5	105.6	85.9	85.5	96.0	105.3	111.9	117.3	133.6	133.6
75°	277.0	149.1	86.2	74.4	73.1	83.0	92.5	100.2	116.7	142.5	142.1
77.5°	169.2	113.8	69.3	62.0	61.7	70.6	80.1	93.2	127.5	126.9	123.4
80°	101.4	81.7	55.3	49.6	49.6	57.9	68.4	99.8	105.9	120.8	114.2
82.5°	52.8	50.2	41.3	36.6	38.2	45.5	62.3	79.8	86.5	73.5	67.4
85°	21.6	26.7	25.4	23.2	24.2	31.5	60.1	63.9	51.2	53.7	54.1
87.5°	7.3	11.8	11.8	9.2	10.2	22.3	35.6	21.3	25.8	15.3	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)