

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: P672013

Luminaire Tested: **CCP-SA-1D-830-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672013
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-830-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL
distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4472 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

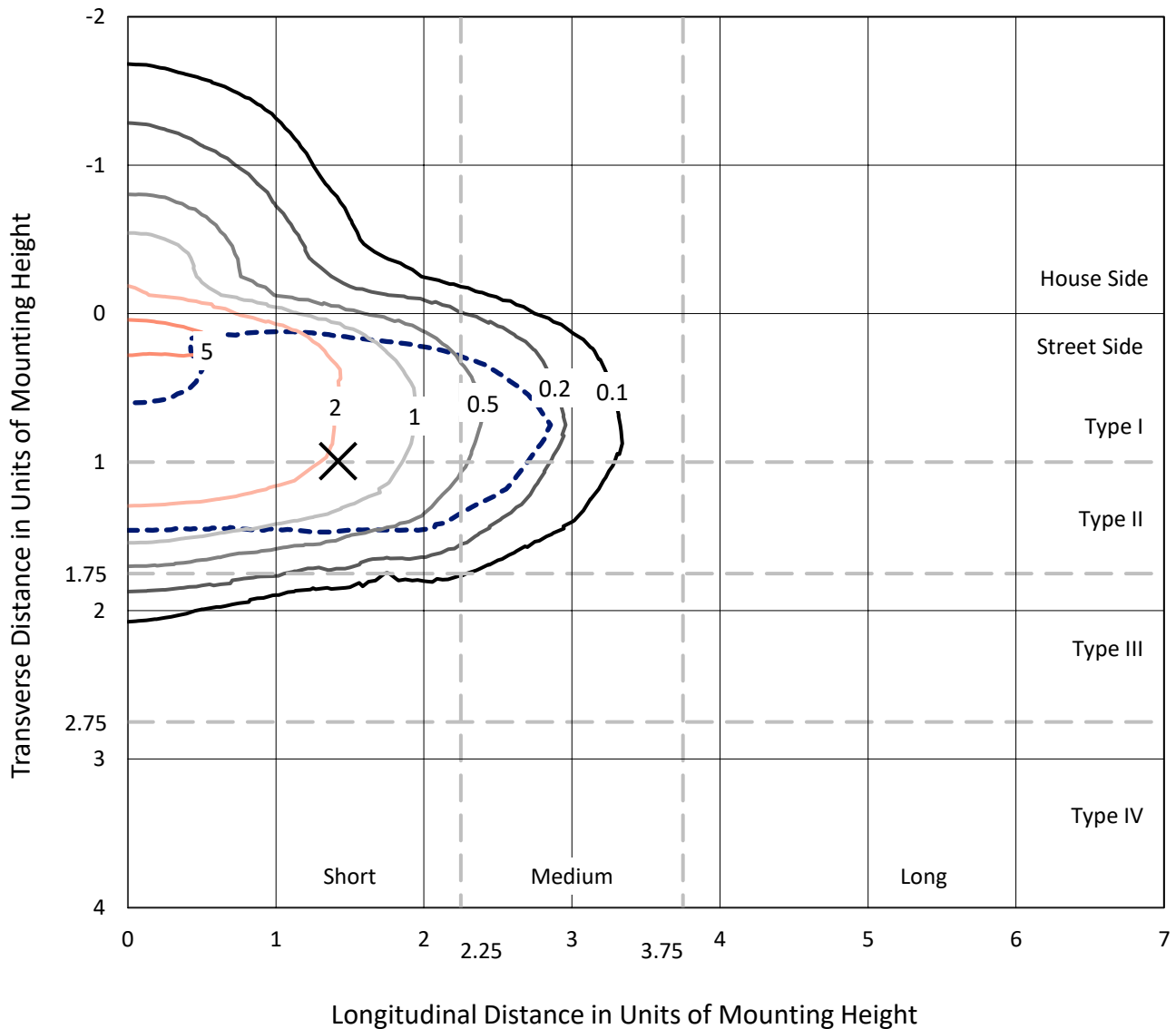
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P672013

CATALOG NUMBER: CCP-SA-1D-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

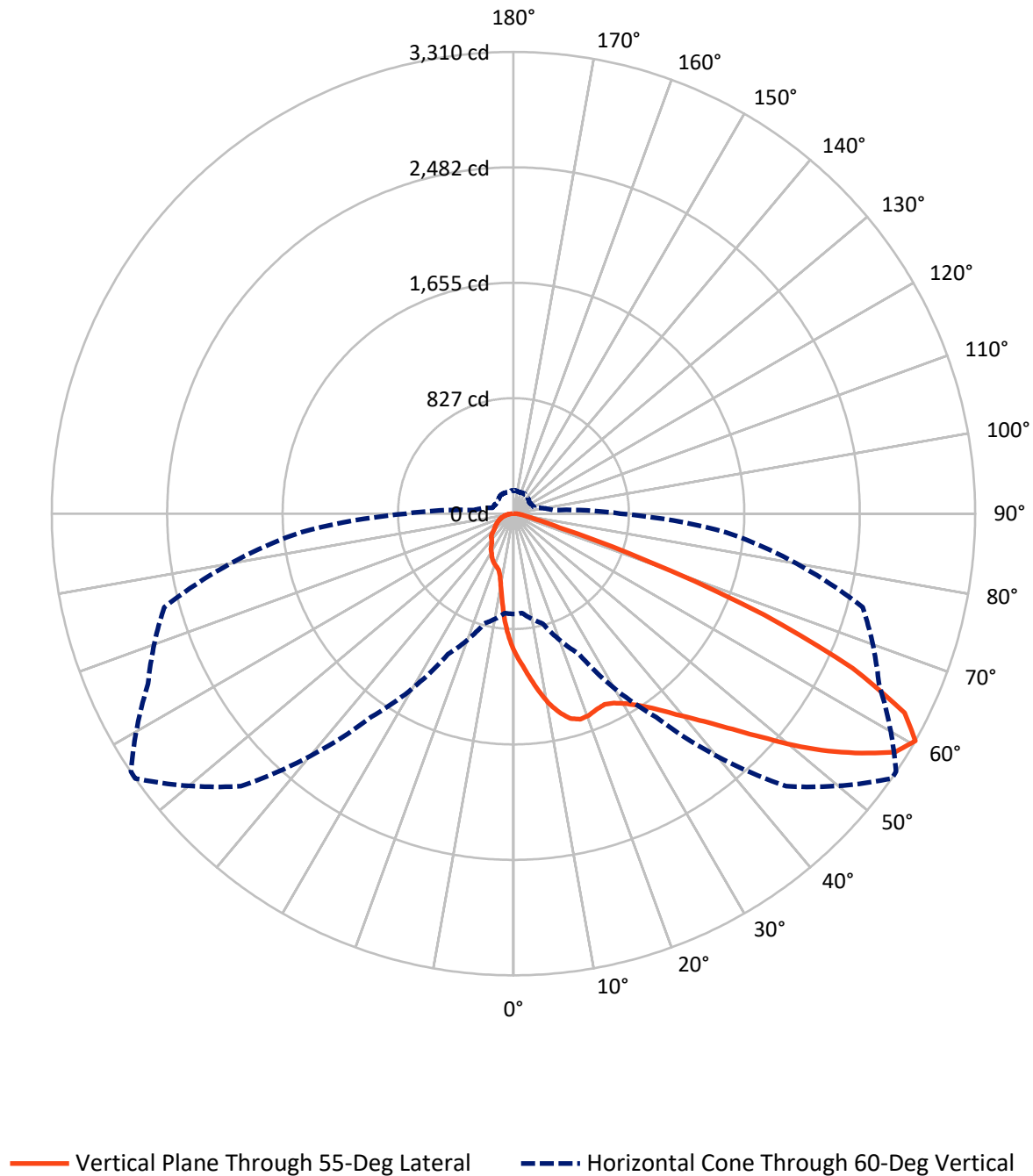
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P672013
CATALOG NUMBER: CCP-SA-1D-830-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P672013

CATALOG NUMBER: CCP-SA-1D-830-U-AFL

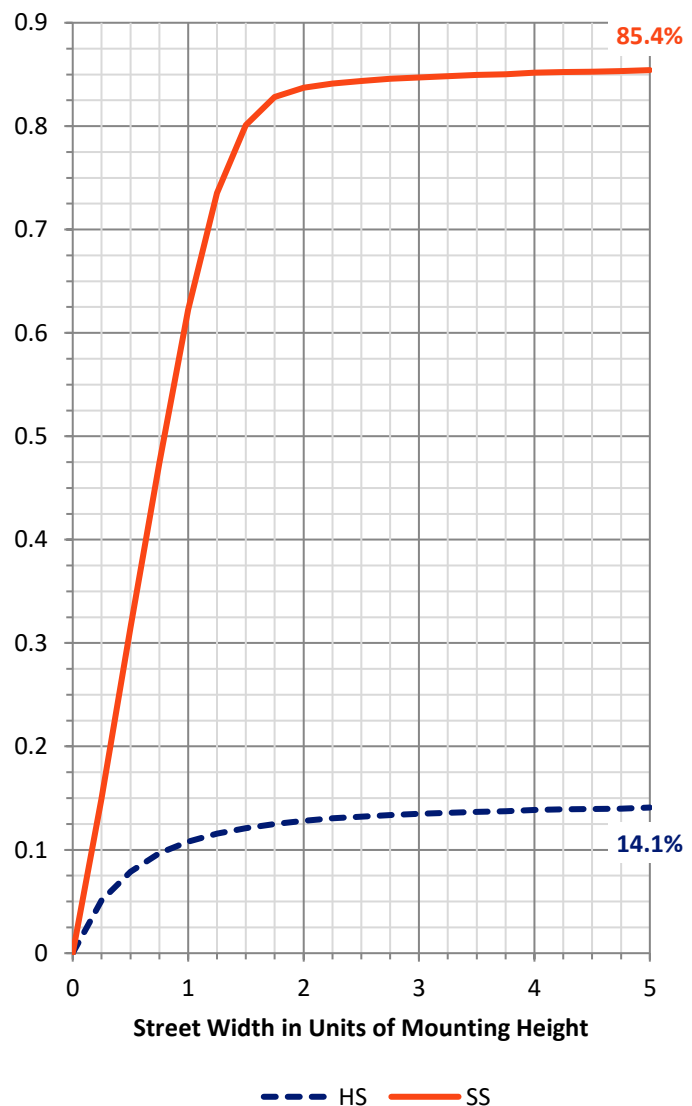
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.9	0.0	642.9
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	3829.1	0.0	3829.1
	% Fixture	85.6	0.0	85.6
Total	Lumens	4472.0	0.0	4472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	2.1
10°-20°	263.0	5.9
20°-30°	428.1	9.6
30°-40°	639.9	14.3
40°-50°	940.5	21.0
50°-60°	1102.3	24.6
60°-70°	726.8	16.3
70°-80°	231.4	5.2
80°-90°	47.1	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°	4472.0	100.0
0°-180°	4472.0	100.0

Coefficient of Utilization



REPORT NUMBER: P672013

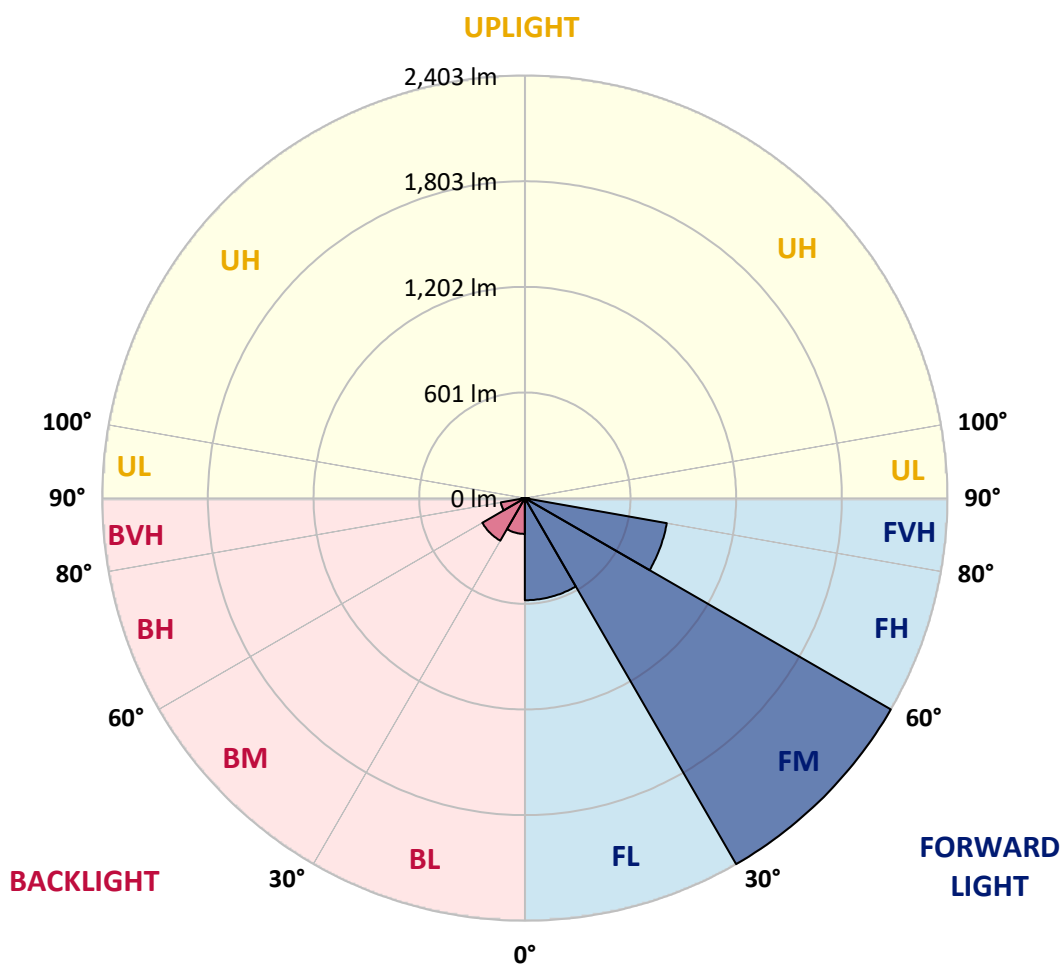
CATALOG NUMBER: CCP-SA-1D-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	580.4	13.0			
FM	(30°-60°)	2403.3	53.7			
FH	(60°-80°)	819.5	18.3			G1/1800
FVH	(80°-90°)	25.8	0.6			G1/100
BL	(0°-30°)	203.5	4.6	B1/500		
BM	(30°-60°)	279.4	6.2	B1/1000		
BH	(60°-80°)	138.7	3.1	B1/500		G1/500
BVH	(80°-90°)	21.3	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: P672013

CATALOG NUMBER: CCP-SA-1D-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	1154.2	1149.9	1149.9	1139.2	1123.4	1101.3	1075.1	1068.6	1058.5	1032.9	999.9
5°	1330.1	1325.6	1319.5	1300.7	1271.2	1227.1	1171.7	1161.6	1125.6	1072.8	1013.2
7.5°	1446.5	1443.9	1442.0	1425.8	1396.6	1353.2	1278.9	1267.6	1206.7	1119.2	1025.8
10°	1434.5	1442.3	1455.9	1467.2	1473.1	1450.7	1381.0	1367.7	1292.2	1173.0	1044.6
12.5°	1322.0	1333.1	1358.3	1404.7	1458.2	1501.3	1461.7	1454.3	1383.6	1230.0	1068.3
15°	1238.4	1243.0	1255.3	1289.6	1369.4	1484.4	1524.3	1517.5	1468.9	1303.2	1095.5
17.5°	1212.5	1214.4	1217.4	1228.7	1283.2	1418.6	1549.9	1556.4	1551.5	1379.4	1126.3
20°	1225.5	1226.8	1227.1	1229.0	1255.0	1363.5	1543.1	1554.1	1624.1	1455.6	1156.8
22.5°	1275.4	1273.8	1271.5	1264.0	1278.6	1353.8	1524.9	1542.4	1680.2	1524.9	1184.9
25°	1362.6	1360.3	1344.4	1328.9	1335.0	1388.8	1515.2	1534.0	1723.9	1590.4	1205.7
27.5°	1466.3	1464.0	1447.8	1418.3	1411.8	1447.2	1537.9	1549.6	1756.0	1648.4	1214.8
30°	1573.9	1573.9	1553.8	1519.8	1499.0	1513.9	1579.7	1589.1	1780.3	1704.5	1220.6
32.5°	1691.2	1694.5	1663.3	1624.4	1601.4	1592.7	1638.4	1646.5	1815.7	1770.6	1232.9
35°	1841.9	1834.8	1796.9	1745.7	1708.7	1688.9	1711.0	1720.4	1867.5	1852.9	1252.7
37.5°	2011.4	1998.8	1952.1	1890.9	1826.4	1793.3	1807.9	1810.2	1944.3	1960.2	1288.7
40°	2151.4	2149.2	2109.6	2051.6	1970.3	1925.9	1918.7	1920.0	2051.0	2087.3	1343.1
42.5°	2269.4	2261.0	2253.9	2233.4	2147.2	2074.3	2045.1	2045.5	2166.7	2218.5	1397.9
45°	2321.6	2320.0	2341.1	2393.6	2331.7	2245.8	2204.3	2210.1	2299.2	2353.4	1450.7
47.5°	2299.2	2300.5	2356.9	2494.7	2531.3	2465.5	2391.9	2388.4	2427.6	2456.8	1497.4
50°	2099.6	2120.7	2273.3	2504.1	2662.2	2695.0	2612.0	2598.7	2540.1	2539.1	1525.9
52.5°	1948.9	1947.9	2041.6	2408.5	2708.6	2902.1	2827.5	2797.7	2633.1	2585.4	1528.2
55°	1745.3	1744.0	1813.7	2128.8	2616.5	3046.6	3030.8	2993.5	2718.3	2600.7	1512.6
57.5°	1321.7	1346.4	1415.7	1704.2	2324.8	3023.6	3224.9	3193.8	2801.6	2593.9	1509.7
60°	719.2	716.3	816.8	1110.7	1780.0	2762.4	3309.5	3307.9	2890.1	2591.3	1527.5
62.5°	331.6	328.3	348.4	494.6	1020.6	2213.0	3146.1	3169.5	2972.1	2567.6	1525.9
65°	247.9	239.5	212.3	230.1	390.6	1321.1	2672.3	2734.5	2845.7	2470.4	1455.3
67.5°	221.0	212.9	181.2	169.8	196.1	466.1	1938.5	1995.9	2379.6	2288.2	1340.8
70°	202.6	195.4	163.7	145.8	147.1	206.5	1014.8	1127.6	1744.0	1909.7	1142.8
72.5°	184.7	178.6	149.7	128.3	123.8	136.5	345.8	417.1	1084.8	1391.7	852.1
75°	165.9	160.1	134.8	115.1	106.3	101.1	164.6	177.3	573.7	768.5	457.3
77.5°	144.2	141.0	120.2	101.4	94.0	76.5	109.5	115.1	245.7	301.7	217.8
80°	125.4	122.8	107.3	92.0	84.3	59.0	75.5	79.4	121.2	150.7	121.9
82.5°	81.7	88.2	88.8	79.1	74.2	47.3	49.9	52.8	80.4	88.8	53.2
85°	33.7	40.8	61.3	54.5	51.5	40.2	33.1	33.7	49.3	51.9	19.1
87.5°	15.2	16.9	30.1	30.5	26.6	15.2	16.5	18.2	25.3	25.0	8.4
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: P672013

CATALOG NUMBER: CCP-SA-1D-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	990.8	975.9	949.3	915.3	891.0	873.2	853.7	839.4	823.6	809.6	811.9
5°	988.5	959.7	900.1	836.9	775.3	724.7	682.6	651.5	619.4	606.7	605.1
7.5°	990.5	941.5	843.7	740.3	646.6	582.1	533.2	503.7	485.2	474.5	475.1
10°	989.8	924.4	782.7	640.1	537.7	478.7	448.9	439.2	437.5	438.8	440.8
12.5°	990.8	901.0	714.3	550.0	459.6	429.4	430.7	439.5	445.0	448.6	450.8
15°	995.0	881.9	644.3	479.0	418.8	419.7	433.7	447.3	455.4	459.3	461.2
17.5°	1001.2	857.9	582.1	425.2	401.6	416.5	434.6	449.2	455.4	457.6	459.3
20°	1001.8	830.4	519.2	388.3	390.2	409.7	425.6	437.2	445.0	447.6	448.9
22.5°	998.9	793.1	454.7	361.4	377.3	396.7	410.3	423.6	413.2	404.8	402.5
25°	986.6	746.1	399.6	339.3	361.1	379.2	394.8	380.2	375.3	368.8	369.5
27.5°	960.0	687.4	347.8	318.6	341.9	367.9	356.5	354.6	348.4	341.9	341.9
30°	925.0	625.5	304.3	296.9	318.9	331.9	334.5	331.6	328.0	319.6	320.2
32.5°	893.6	560.1	273.5	278.7	304.3	304.3	315.7	315.7	302.7	279.1	279.1
35°	862.5	498.5	250.9	263.5	280.4	285.9	301.4	281.0	262.5	251.8	251.2
37.5°	838.2	446.0	236.0	250.5	257.0	271.0	271.3	256.4	250.2	240.5	239.5
40°	823.9	401.9	226.9	244.1	244.7	257.7	236.3	240.5	239.2	231.7	230.8
42.5°	816.1	367.9	220.1	238.5	235.3	222.7	218.8	225.9	228.2	224.3	222.7
45°	810.0	341.3	214.6	219.4	227.8	204.8	203.2	208.7	213.6	213.3	212.0
47.5°	806.7	322.8	209.7	207.4	209.1	194.1	190.9	193.5	199.7	203.5	203.2
50°	794.1	308.6	202.6	195.1	184.7	184.7	183.1	183.1	190.6	198.4	199.0
52.5°	771.7	291.7	192.2	183.4	171.5	176.6	177.3	176.0	183.8	192.2	192.8
55°	747.1	279.1	178.3	172.8	160.4	169.2	172.1	170.8	176.0	181.8	181.5
57.5°	747.4	278.7	166.3	162.1	150.1	159.8	166.9	167.2	166.9	171.1	171.1
60°	766.2	285.2	156.9	147.8	138.1	149.7	161.4	161.4	159.1	165.3	165.9
62.5°	771.7	284.6	151.0	134.2	127.4	140.7	153.3	155.2	153.6	162.4	163.4
65°	723.1	269.3	145.2	121.9	117.7	130.6	143.3	148.8	147.1	158.5	159.8
67.5°	655.7	249.6	136.1	110.8	107.6	120.9	132.9	138.7	138.4	153.3	154.0
70°	565.2	225.3	124.8	99.5	97.9	109.5	120.2	126.4	129.3	146.5	146.2
72.5°	437.9	193.2	107.6	87.5	87.2	97.9	107.3	114.1	119.6	136.1	136.1
75°	282.3	152.0	87.8	75.8	74.5	84.6	94.3	102.1	118.9	145.2	144.9
77.5°	172.4	116.0	70.7	63.2	62.9	72.0	81.7	95.0	130.0	129.3	125.8
80°	103.4	83.3	56.4	50.6	50.6	59.0	69.7	101.8	107.9	123.2	116.4
82.5°	53.8	51.2	42.1	37.3	38.9	46.3	63.5	81.4	88.2	74.9	68.7
85°	22.0	27.2	25.9	23.7	24.6	32.1	61.3	65.1	52.2	54.8	55.1
87.5°	7.5	12.0	12.0	9.4	10.4	22.7	36.3	21.7	26.3	15.6	11.7
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)