

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: P675751

Luminaire Tested: **CCW-SA-2D-830-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675751
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

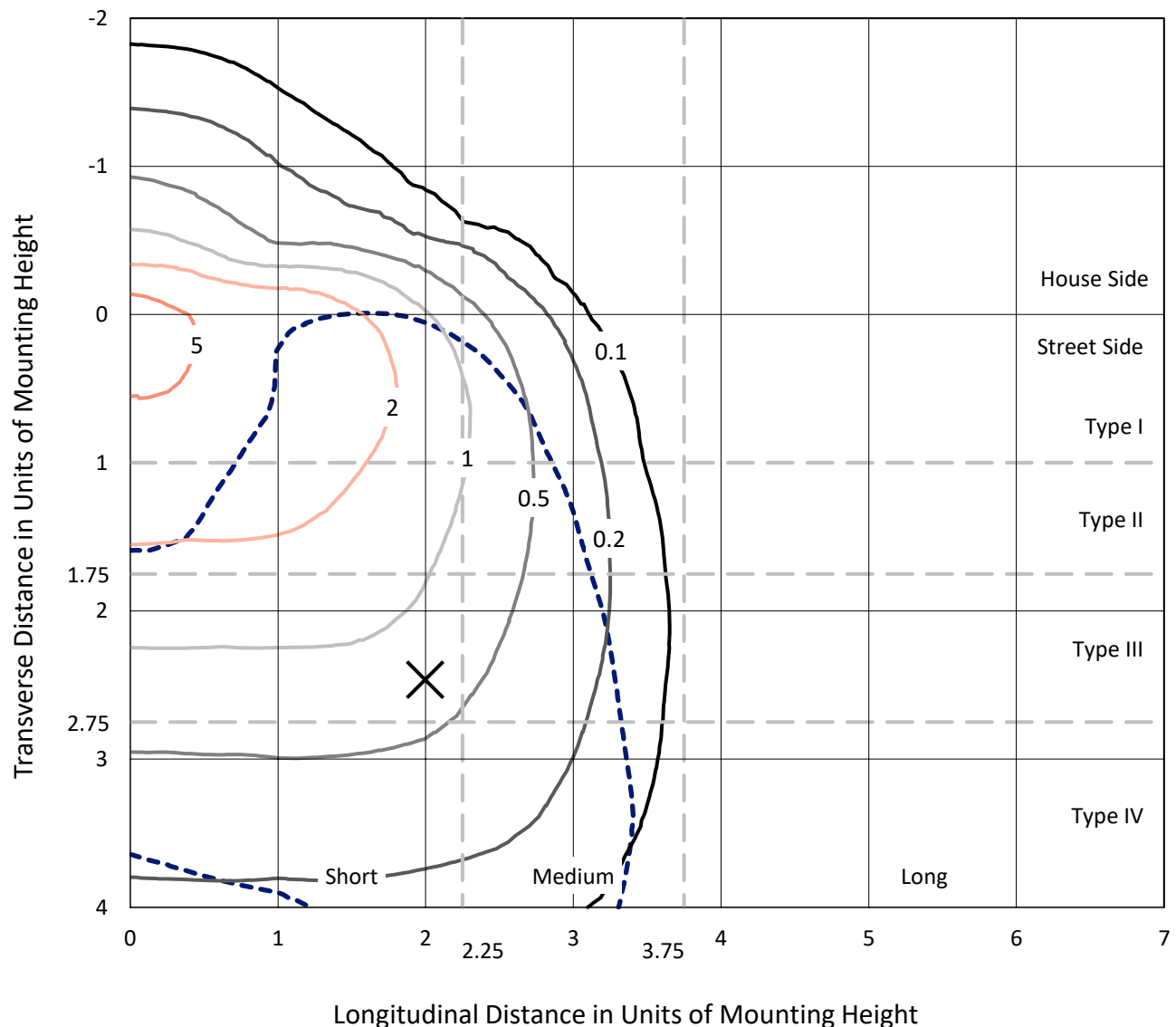
Lumens per Lamp: N/A
Luminaire Lumens: 8684 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
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: P675751
 CATALOG NUMBER: CCW-SA-2D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

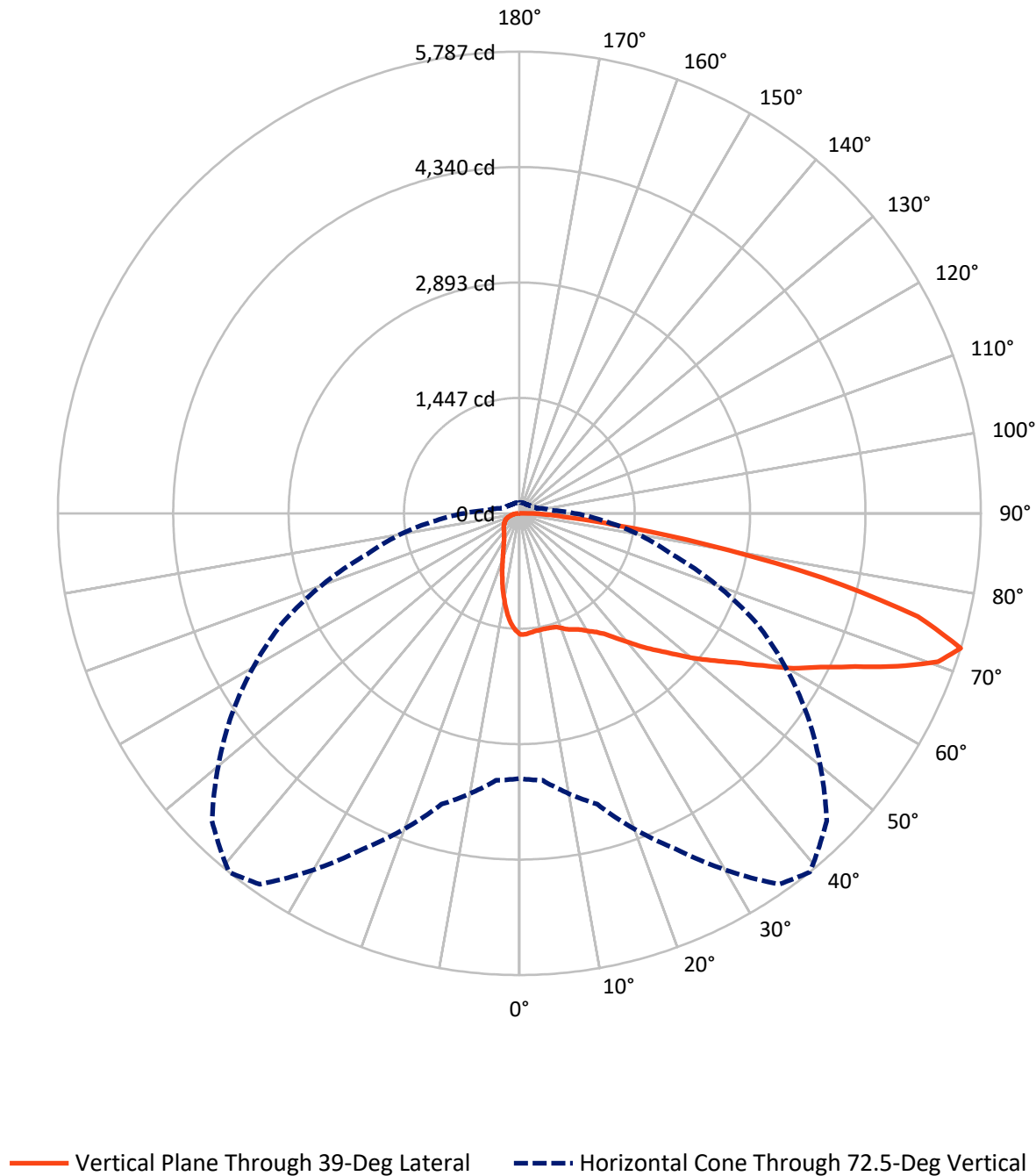
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P675751
CATALOG NUMBER: CCW-SA-2D-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P675751

CATALOG NUMBER: CCW-SA-2D-830-U-SL4

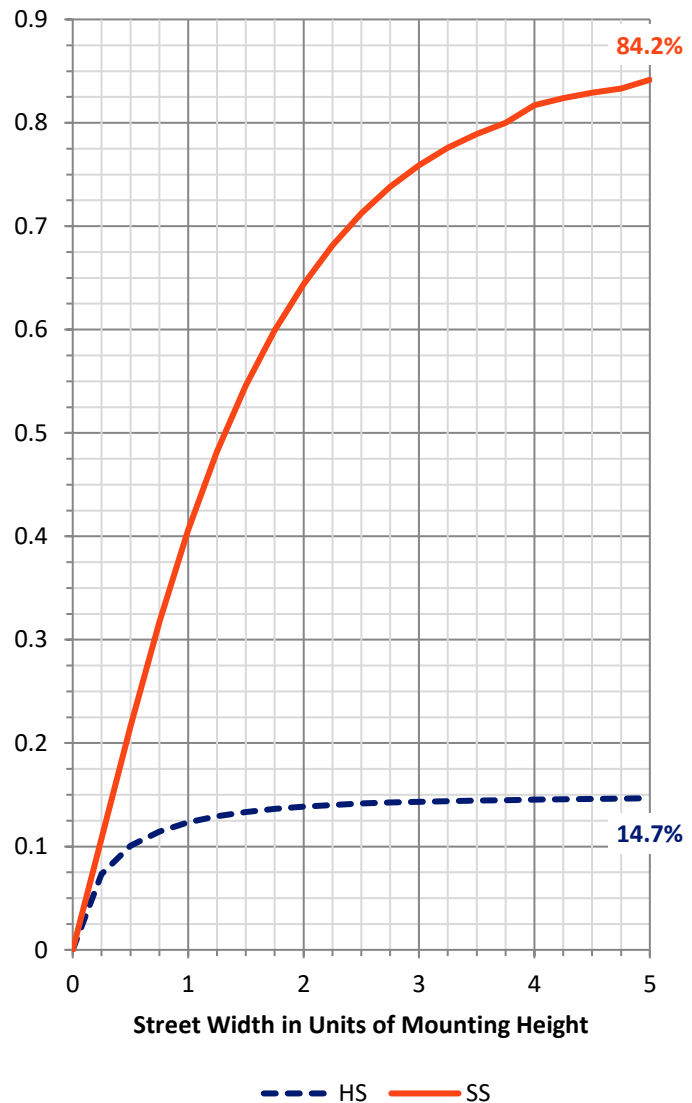
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1290.6	0.0	1290.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	7393.4	0.0	7393.4
	% Fixture	85.1	0.0	85.1
Total	Lumens	8684.0	0.0	8684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.5
10°-20°	342.8	3.9
20°-30°	522.3	6.0
30°-40°	764.0	8.8
40°-50°	1169.7	13.5
50°-60°	1715.5	19.8
60°-70°	2187.9	25.2
70°-80°	1580.8	18.2
80°-90°	266.7	3.1
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°	8684.0	100.0
0°-180°	8684.0	100.0

Coefficient of Utilization



REPORT NUMBER: P675751

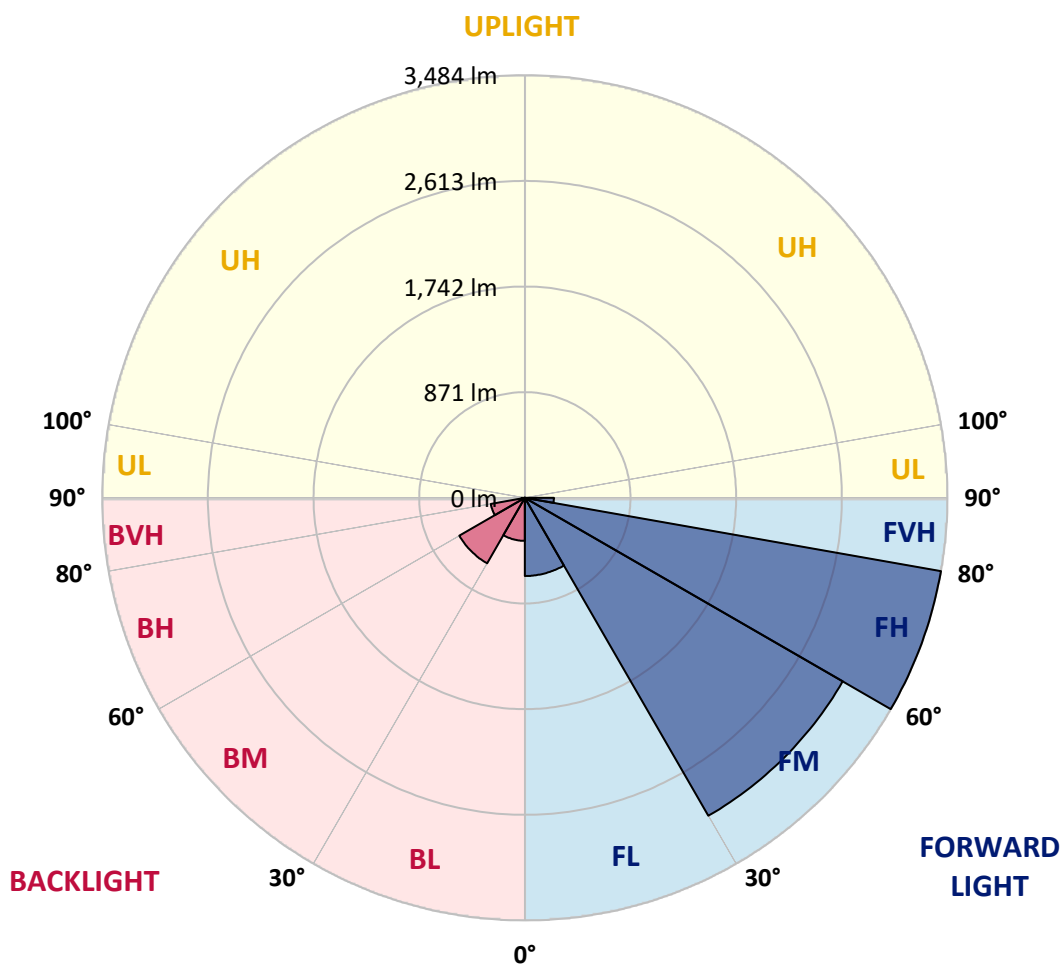
CATALOG NUMBER: CCW-SA-2D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.5	7.4			
FM	(30°-60°)	3025.7	34.8			
FH	(60°-80°)	3483.5	40.1			G2/5000
FVH	(80°-90°)	239.6	2.8			G3/500
BL	(0°-30°)	354.9	4.1	B1/500		
BM	(30°-60°)	623.5	7.2	B1/1000		
BH	(60°-80°)	285.2	3.3	B1/500		G1/500
BVH	(80°-90°)	27.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P675751

CATALOG NUMBER: CCW-SA-2D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1542.9	1546.2	1539.7	1533.1	1529.9	1516.8	1529.9	1523.4	1516.8	1516.8	1516.8
5°	1523.4	1526.6	1526.6	1520.1	1523.4	1500.5	1497.3	1500.5	1490.7	1484.2	1481.0
7.5°	1494.0	1500.5	1513.6	1510.3	1497.3	1487.5	1490.7	1487.5	1471.2	1461.4	1435.3
10°	1471.2	1477.7	1484.2	1490.7	1487.5	1484.2	1481.0	1467.9	1464.6	1441.8	1415.7
12.5°	1448.3	1448.3	1451.6	1477.7	1481.0	1481.0	1461.4	1461.4	1451.6	1448.3	1409.2
15°	1425.5	1435.3	1461.4	1467.9	1481.0	1487.5	1477.7	1477.7	1461.4	1438.5	1409.2
17.5°	1432.0	1448.3	1474.4	1490.7	1497.3	1497.3	1510.3	1500.5	1477.7	1464.6	1435.3
20°	1464.6	1467.9	1500.5	1529.9	1536.4	1536.4	1523.4	1513.6	1497.3	1474.4	1435.3
22.5°	1484.2	1507.0	1546.2	1562.5	1582.1	1582.1	1565.8	1542.9	1520.1	1497.3	1454.9
25°	1569.0	1572.3	1588.6	1614.7	1624.5	1611.4	1595.1	1569.0	1539.7	1516.8	1477.7
27.5°	1627.7	1644.1	1663.6	1676.7	1660.4	1650.6	1637.5	1608.2	1585.3	1565.8	1510.3
30°	1735.4	1715.8	1728.9	1735.4	1706.0	1712.6	1676.7	1650.6	1624.5	1624.5	1562.5
32.5°	1800.6	1816.9	1803.9	1800.6	1777.8	1774.5	1751.7	1722.3	1706.0	1725.6	1640.8
35°	1914.8	1905.0	1905.0	1901.7	1875.7	1859.3	1859.3	1807.2	1823.5	1865.9	1761.5
37.5°	1973.5	1970.3	1989.8	2006.1	1980.0	1989.8	1980.0	1957.2	1963.7	2038.8	1911.5
40°	2032.2	2055.1	2094.2	2100.7	2117.0	2130.1	2123.6	2120.3	2146.4	2267.1	2113.8
42.5°	2087.7	2107.3	2166.0	2218.2	2257.3	2299.7	2303.0	2303.0	2387.8	2560.7	2358.4
45°	2159.4	2175.8	2257.3	2361.7	2426.9	2456.3	2482.4	2511.7	2625.9	2831.4	2619.4
47.5°	2257.3	2270.4	2368.2	2498.7	2625.9	2642.2	2694.4	2727.0	2899.9	3108.7	2886.9
50°	2397.6	2387.8	2466.1	2655.3	2779.2	2857.5	2932.5	2991.3	3160.9	3389.2	3095.6
52.5°	2511.7	2511.7	2570.5	2821.6	2991.3	3066.3	3144.6	3226.1	3421.8	3669.8	3265.3
55°	2707.5	2687.9	2723.8	2984.7	3229.4	3301.1	3451.2	3519.7	3708.9	3878.5	3408.8
57.5°	2841.2	2851.0	2893.4	3200.0	3509.9	3598.0	3748.0	3797.0	3963.3	4097.1	3513.2
60°	3017.4	2984.7	3076.1	3438.2	3819.8	3943.8	4067.7	4097.1	4221.0	4237.3	3562.1
62.5°	3187.0	3180.5	3258.7	3676.3	4152.5	4240.6	4367.8	4400.4	4452.6	4348.3	3493.6
65°	3291.4	3333.8	3480.6	3937.2	4530.9	4628.8	4756.0	4690.8	4632.0	4250.4	3157.6
67.5°	3434.9	3454.5	3679.5	4221.0	4968.0	5114.8	5225.7	4968.0	4530.9	3849.2	2658.5
70°	3467.5	3519.7	3813.3	4517.9	5418.2	5568.2	5574.8	4873.4	4162.3	3131.5	1927.8
72.5°	3324.0	3359.9	3774.1	4641.8	5675.9	5786.8	5450.8	4407.0	3297.9	1973.5	1050.4
75°	2795.5	2896.7	3284.8	4260.2	5202.9	5160.5	4619.0	3363.1	1980.0	874.2	443.6
77.5°	1947.4	1950.7	2355.2	3098.9	3894.8	3885.0	3294.6	1950.7	848.1	352.3	261.0
80°	864.4	926.4	1171.1	1670.1	2365.0	2365.0	1921.3	968.8	424.1	228.3	179.4
82.5°	508.9	528.4	626.3	779.6	1151.5	1213.5	919.9	645.9	290.3	143.5	110.9
85°	375.1	407.8	466.5	469.7	544.8	554.5	508.9	561.1	199.0	78.3	91.3
87.5°	280.5	300.1	371.9	309.9	290.3	274.0	313.2	574.1	75.0	39.1	29.4
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: P675751

CATALOG NUMBER: CCW-SA-2D-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1503.8	1503.8	1497.3	1484.2	1484.2	1458.1	1464.6	1471.2	1454.9	1454.9	1458.1
5°	1481.0	1467.9	1451.6	1432.0	1419.0	1383.1	1376.6	1353.7	1350.5	1343.9	1334.2
7.5°	1435.3	1415.7	1386.4	1357.0	1314.6	1282.0	1242.8	1210.2	1197.2	1187.4	1184.1
10°	1392.9	1389.6	1340.7	1282.0	1216.7	1154.7	1096.0	1053.6	1027.5	1011.2	1008.0
12.5°	1392.9	1366.8	1298.3	1216.7	1122.1	1030.8	955.8	897.1	861.2	835.1	825.3
15°	1386.4	1360.3	1268.9	1145.0	1037.3	913.4	809.0	747.0	694.8	668.7	672.0
17.5°	1392.9	1353.7	1226.5	1092.8	942.7	809.0	685.0	610.0	557.8	538.2	535.0
20°	1396.1	1347.2	1193.9	1021.0	844.9	694.8	577.4	505.6	466.5	453.4	453.4
22.5°	1389.6	1327.6	1145.0	936.2	760.0	600.2	502.3	440.4	414.3	398.0	404.5
25°	1419.0	1324.4	1099.3	864.4	662.2	521.9	446.9	401.2	384.9	375.1	378.4
27.5°	1425.5	1324.4	1063.4	782.9	577.4	463.2	404.5	375.1	362.1	355.6	352.3
30°	1451.6	1330.9	1021.0	701.3	508.9	417.5	371.9	355.6	345.8	342.5	342.5
32.5°	1523.4	1350.5	975.3	632.8	450.2	378.4	349.0	336.0	329.5	326.2	329.5
35°	1608.2	1402.7	926.4	561.1	407.8	352.3	329.5	319.7	316.4	316.4	316.4
37.5°	1738.6	1481.0	884.0	502.3	371.9	326.2	309.9	306.6	303.4	306.6	306.6
40°	1888.7	1565.8	844.9	456.7	345.8	309.9	293.6	293.6	290.3	293.6	296.8
42.5°	2061.6	1670.1	805.7	411.0	322.9	296.8	283.8	280.5	277.3	283.8	287.1
45°	2299.7	1813.7	779.6	384.9	306.6	283.8	270.7	270.7	267.5	267.5	274.0
47.5°	2498.7	1950.7	779.6	358.8	296.8	274.0	261.0	261.0	254.4	257.7	257.7
50°	2665.1	2068.1	795.9	352.3	283.8	264.2	254.4	247.9	244.7	244.7	244.7
52.5°	2776.0	2139.9	809.0	345.8	277.3	251.2	244.7	241.4	234.9	231.6	234.9
55°	2886.9	2188.8	812.2	345.8	267.5	238.1	231.6	231.6	225.1	221.8	221.8
57.5°	2929.3	2169.2	766.6	339.2	261.0	228.3	221.8	218.6	215.3	212.0	212.0
60°	2909.7	2097.5	665.4	322.9	254.4	221.8	208.8	208.8	208.8	202.2	205.5
62.5°	2776.0	1852.8	535.0	296.8	244.7	208.8	195.7	202.2	202.2	199.0	199.0
65°	2423.7	1529.9	433.8	274.0	231.6	199.0	185.9	195.7	199.0	195.7	192.5
67.5°	1937.6	1177.6	358.8	247.9	215.3	182.7	172.9	182.7	185.9	182.7	182.7
70°	1330.9	760.0	290.3	221.8	192.5	166.4	156.6	163.1	163.1	166.4	166.4
72.5°	688.3	411.0	238.1	189.2	166.4	150.1	140.3	140.3	137.0	137.0	137.0
75°	342.5	280.5	199.0	159.8	140.3	127.2	120.7	114.2	114.2	114.2	114.2
77.5°	238.1	215.3	163.1	127.2	114.2	104.4	104.4	94.6	94.6	94.6	94.6
80°	179.4	169.6	124.0	97.9	88.1	81.6	81.6	78.3	78.3	75.0	75.0
82.5°	127.2	137.0	94.6	71.8	65.2	62.0	62.0	58.7	58.7	52.2	52.2
85°	101.1	114.2	71.8	52.2	48.9	42.4	42.4	39.1	39.1	35.9	32.6
87.5°	29.4	62.0	29.4	19.6	19.6	19.6	19.6	16.3	16.3	13.0	13.0
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)