

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: P675740

Luminaire Tested: **CCW-SA-2D-827-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675740
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

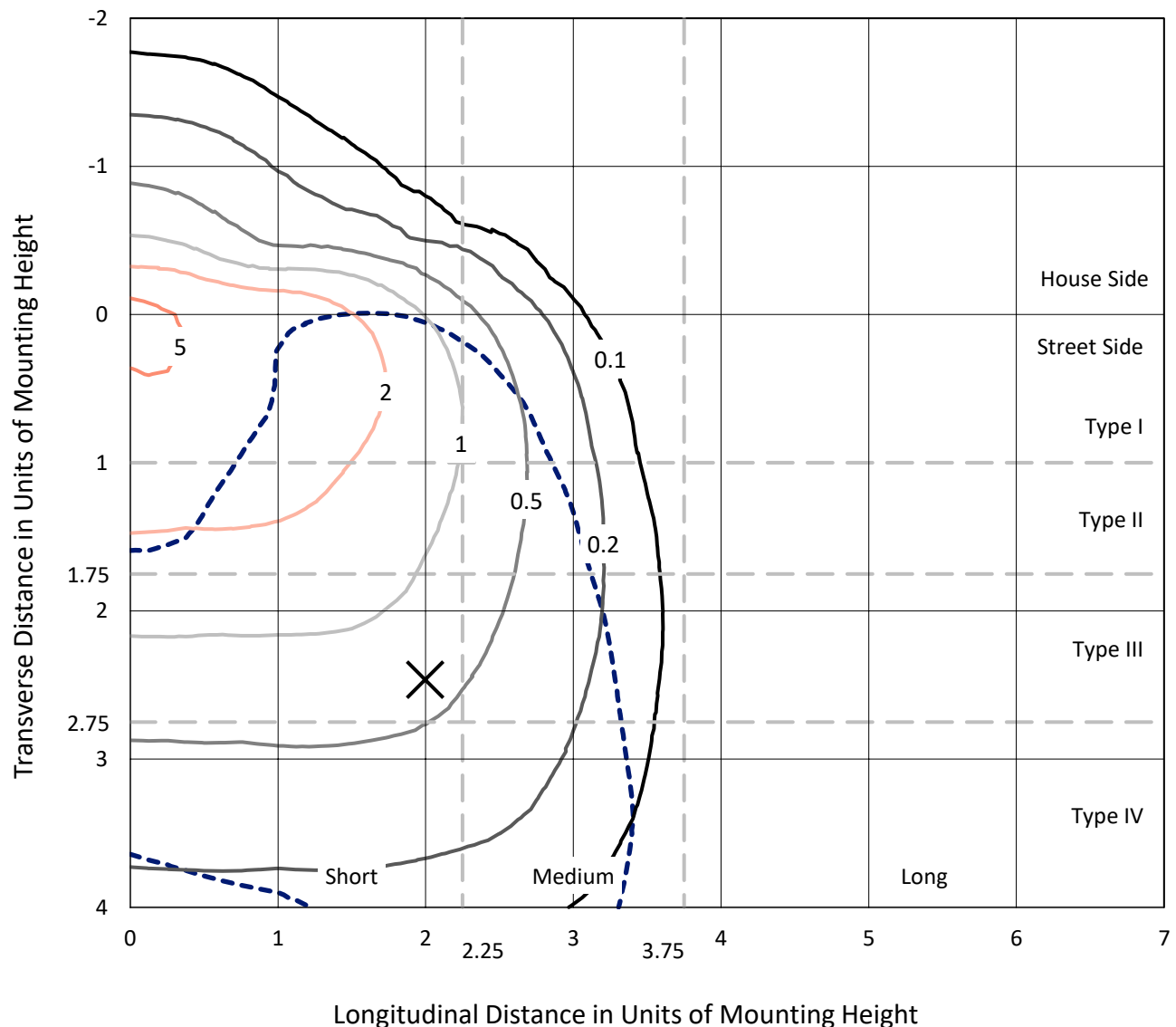
Lumens per Lamp: N/A
Luminaire Lumens: 8033.8 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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: P675740
 CATALOG NUMBER: CCW-SA-2D-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

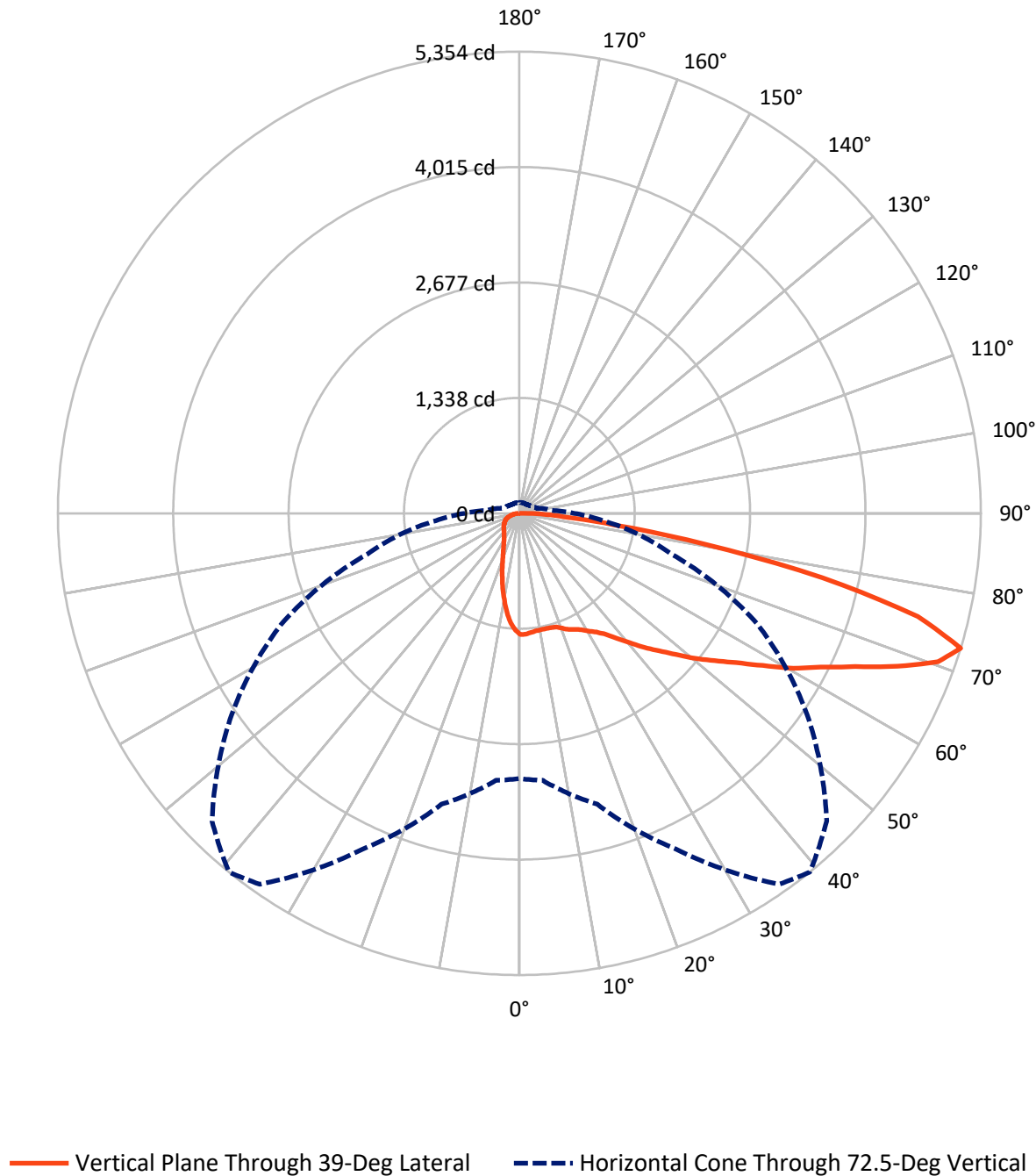
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P675740
CATALOG NUMBER: CCW-SA-2D-827-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P675740

CATALOG NUMBER: CCW-SA-2D-827-U-SL4

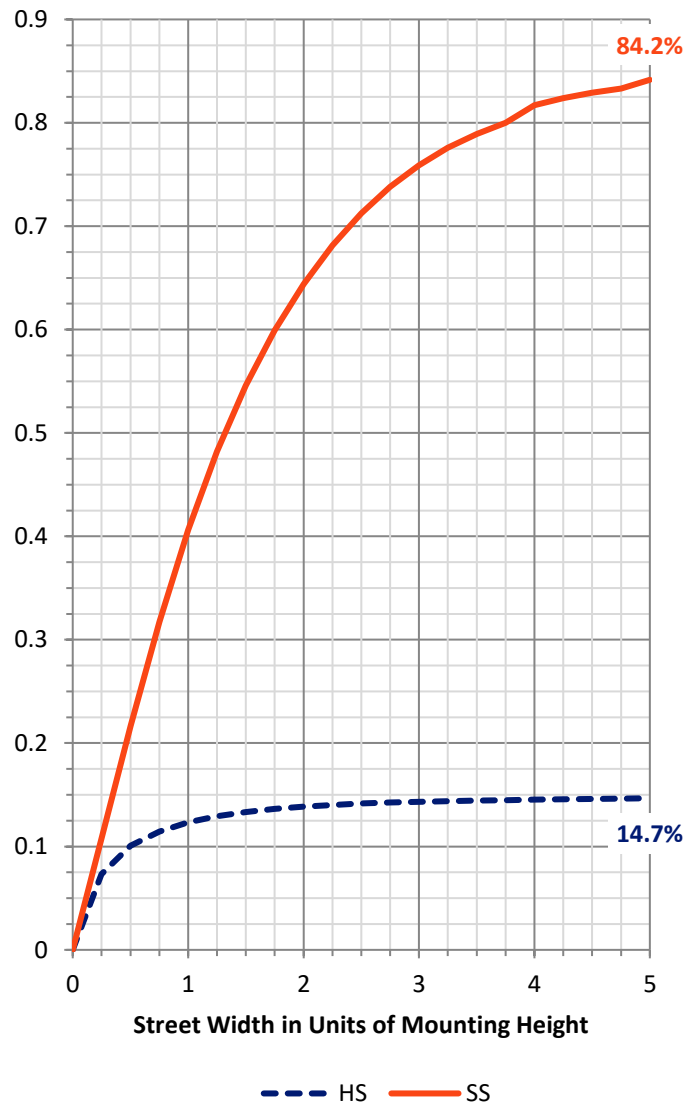
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1194.0	0.0	1194.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	6839.8	0.0	6839.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	8033.8	0.0	8033.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.5
10°-20°	317.2	3.9
20°-30°	483.2	6.0
30°-40°	706.8	8.8
40°-50°	1082.1	13.5
50°-60°	1587.1	19.8
60°-70°	2024.1	25.2
70°-80°	1462.4	18.2
80°-90°	246.7	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°	8033.8	100.0
0°-180°	8033.8	100.0

Coefficient of Utilization



REPORT NUMBER: P675740

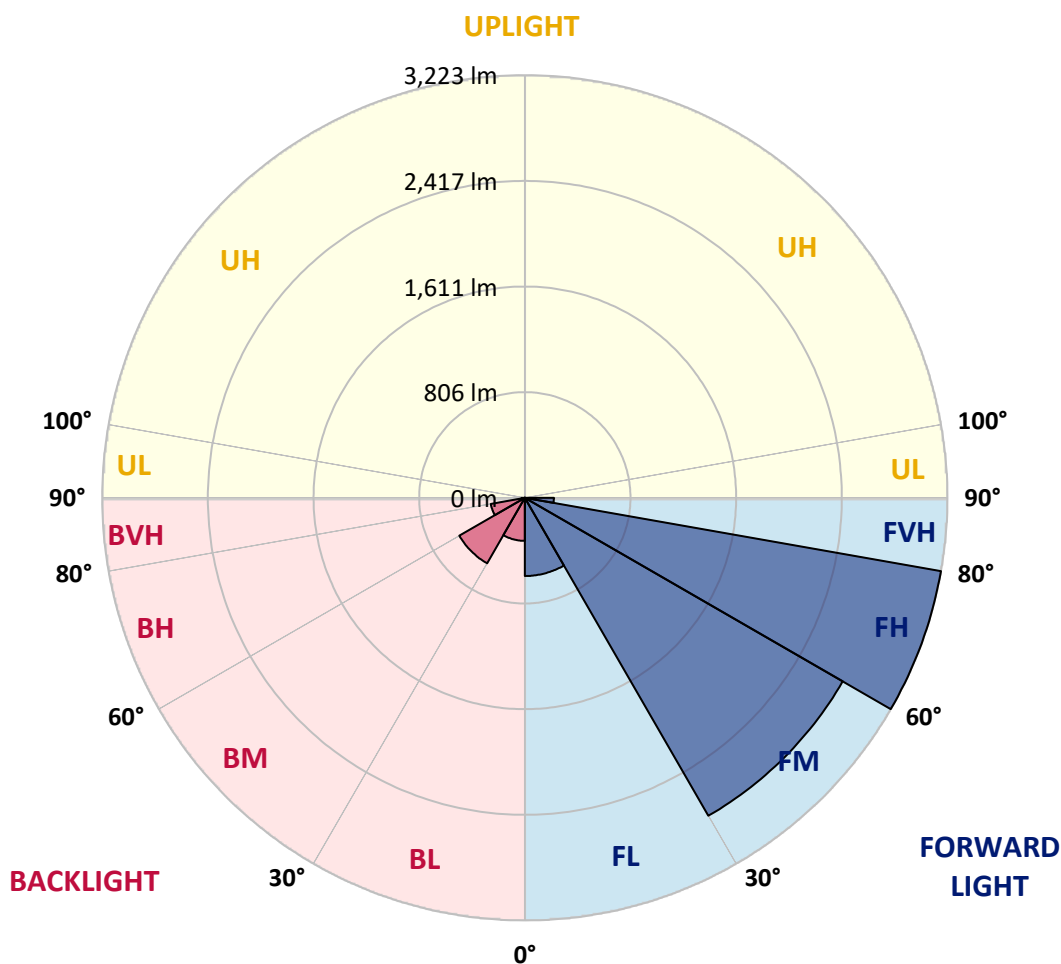
CATALOG NUMBER: CCW-SA-2D-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	596.2	7.4			
FM	(30°-60°)	2799.2	34.8			
FH	(60°-80°)	3222.7	40.1			G2/5000
FVH	(80°-90°)	221.7	2.8			G2/225
BL	(0°-30°)	328.4	4.1	B1/500		
BM	(30°-60°)	576.8	7.2	B1/1000		
BH	(60°-80°)	263.8	3.3	B1/500		G1/500
BVH	(80°-90°)	25.0	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-G2

Type IV Short





REPORT NUMBER: P675740

CATALOG NUMBER: CCW-SA-2D-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1427.4	1430.4	1424.4	1418.3	1415.3	1403.3	1415.3	1409.3	1403.3	1403.3	1403.3
5°	1409.3	1412.3	1412.3	1406.3	1409.3	1388.2	1385.1	1388.2	1379.1	1373.1	1370.1
7.5°	1382.1	1388.2	1400.2	1397.2	1385.1	1376.1	1379.1	1376.1	1361.0	1351.9	1327.8
10°	1361.0	1367.0	1373.1	1379.1	1376.1	1373.1	1370.1	1358.0	1355.0	1333.8	1309.7
12.5°	1339.9	1339.9	1342.9	1367.0	1370.1	1370.1	1351.9	1351.9	1342.9	1339.9	1303.7
15°	1318.8	1327.8	1351.9	1358.0	1370.1	1376.1	1367.0	1367.0	1351.9	1330.8	1303.7
17.5°	1324.8	1339.9	1364.0	1379.1	1385.1	1385.1	1397.2	1388.2	1367.0	1355.0	1327.8
20°	1355.0	1358.0	1388.2	1415.3	1421.4	1421.4	1409.3	1400.2	1385.1	1364.0	1327.8
22.5°	1373.1	1394.2	1430.4	1445.5	1463.6	1463.6	1448.5	1427.4	1406.3	1385.1	1345.9
25°	1451.5	1454.6	1469.6	1493.8	1502.8	1490.8	1475.7	1451.5	1424.4	1403.3	1367.0
27.5°	1505.9	1520.9	1539.0	1551.1	1536.0	1527.0	1514.9	1487.7	1466.6	1448.5	1397.2
30°	1605.4	1587.3	1599.4	1605.4	1578.3	1584.3	1551.1	1527.0	1502.8	1502.8	1445.5
32.5°	1665.8	1680.9	1668.8	1665.8	1644.7	1641.7	1620.5	1593.4	1578.3	1596.4	1517.9
35°	1771.4	1762.4	1762.4	1759.3	1735.2	1720.1	1720.1	1671.8	1686.9	1726.2	1629.6
37.5°	1825.7	1822.7	1840.8	1855.9	1831.8	1840.8	1831.8	1810.6	1816.7	1886.1	1768.4
40°	1880.1	1901.2	1937.4	1943.4	1958.5	1970.6	1964.6	1961.5	1985.7	2097.3	1955.5
42.5°	1931.4	1949.5	2003.8	2052.1	2088.3	2127.5	2130.5	2130.5	2209.0	2368.9	2181.8
45°	1997.7	2012.8	2088.3	2184.8	2245.2	2272.4	2296.5	2323.7	2429.3	2619.4	2423.2
47.5°	2088.3	2100.4	2190.9	2311.6	2429.3	2444.4	2492.7	2522.8	2682.8	2875.9	2670.7
50°	2218.0	2209.0	2281.4	2456.4	2571.1	2643.5	2713.0	2767.3	2924.2	3135.4	2863.8
52.5°	2323.7	2323.7	2378.0	2610.3	2767.3	2836.7	2909.1	2984.5	3165.6	3395.0	3020.8
55°	2504.7	2486.6	2519.8	2761.2	2987.6	3054.0	3192.8	3256.1	3431.2	3588.1	3153.5
57.5°	2628.5	2637.5	2676.7	2960.4	3247.1	3328.6	3467.4	3512.7	3666.6	3790.3	3250.1
60°	2791.4	2761.2	2845.7	3180.7	3533.8	3648.5	3763.1	3790.3	3905.0	3920.1	3295.4
62.5°	2948.3	2942.3	3014.7	3401.0	3841.6	3923.1	4040.8	4070.9	4119.2	4022.7	3232.0
65°	3044.9	3084.1	3219.9	3642.4	4191.6	4282.2	4399.9	4339.5	4285.2	3932.1	2921.2
67.5°	3177.7	3195.8	3404.0	3905.0	4596.0	4731.8	4834.4	4596.0	4191.6	3560.9	2459.5
70°	3207.9	3256.1	3527.7	4179.6	5012.5	5151.3	5157.3	4508.5	3850.6	2897.0	1783.5
72.5°	3075.1	3108.3	3491.5	4294.3	5250.9	5353.5	5042.7	4077.0	3050.9	1825.7	971.7
75°	2586.2	2679.8	3038.9	3941.2	4813.3	4774.1	4273.1	3111.3	1831.8	808.8	410.4
77.5°	1801.6	1804.6	2178.8	2866.9	3603.2	3594.1	3047.9	1804.6	784.6	325.9	241.4
80°	799.7	857.0	1083.4	1545.1	2187.9	2187.9	1777.5	896.3	392.3	211.2	166.0
82.5°	470.8	488.9	579.4	721.2	1065.3	1122.6	851.0	597.5	268.6	132.8	102.6
85°	347.0	377.2	431.5	434.6	504.0	513.0	470.8	519.1	184.1	72.4	84.5
87.5°	259.5	277.6	344.0	286.7	268.6	253.5	289.7	531.1	69.4	36.2	27.2
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: P675740

CATALOG NUMBER: CCW-SA-2D-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1391.2	1391.2	1385.1	1373.1	1373.1	1348.9	1355.0	1361.0	1345.9	1345.9	1348.9
5°	1370.1	1358.0	1342.9	1324.8	1312.7	1279.5	1273.5	1252.4	1249.3	1243.3	1234.3
7.5°	1327.8	1309.7	1282.5	1255.4	1216.2	1186.0	1149.8	1119.6	1107.5	1098.5	1095.4
10°	1288.6	1285.6	1240.3	1186.0	1125.6	1068.3	1014.0	974.7	950.6	935.5	932.5
12.5°	1288.6	1264.4	1201.1	1125.6	1038.1	953.6	884.2	829.9	796.7	772.5	763.5
15°	1282.5	1258.4	1173.9	1059.2	959.6	845.0	748.4	691.1	642.8	618.6	621.7
17.5°	1288.6	1252.4	1134.7	1010.9	872.1	748.4	633.7	564.3	516.0	497.9	494.9
20°	1291.6	1246.3	1104.5	944.6	781.6	642.8	534.1	467.8	431.5	419.5	419.5
22.5°	1285.6	1228.2	1059.2	866.1	703.1	555.3	464.7	407.4	383.3	368.2	374.2
25°	1312.7	1225.2	1017.0	799.7	612.6	482.8	413.4	371.2	356.1	347.0	350.1
27.5°	1318.8	1225.2	983.8	724.3	534.1	428.5	374.2	347.0	335.0	328.9	325.9
30°	1342.9	1231.2	944.6	648.8	470.8	386.3	344.0	328.9	319.9	316.9	316.9
32.5°	1409.3	1249.3	902.3	585.4	416.4	350.1	322.9	310.8	304.8	301.8	304.8
35°	1487.7	1297.6	857.0	519.1	377.2	325.9	304.8	295.7	292.7	292.7	292.7
37.5°	1608.5	1370.1	817.8	464.7	344.0	301.8	286.7	283.7	280.7	283.7	283.7
40°	1747.3	1448.5	781.6	422.5	319.9	286.7	271.6	271.6	268.6	271.6	274.6
42.5°	1907.2	1545.1	745.4	380.2	298.8	274.6	262.5	259.5	256.5	262.5	265.6
45°	2127.5	1677.9	721.2	356.1	283.7	262.5	250.5	250.5	247.5	247.5	253.5
47.5°	2311.6	1804.6	721.2	332.0	274.6	253.5	241.4	241.4	235.4	238.4	238.4
50°	2465.5	1913.3	736.3	325.9	262.5	244.4	235.4	229.3	226.3	226.3	226.3
52.5°	2568.1	1979.6	748.4	319.9	256.5	232.4	226.3	223.3	217.3	214.3	217.3
55°	2670.7	2024.9	751.4	319.9	247.5	220.3	214.3	214.3	208.2	205.2	205.2
57.5°	2709.9	2006.8	709.2	313.8	241.4	211.2	205.2	202.2	199.2	196.2	196.2
60°	2691.8	1940.4	615.6	298.8	235.4	205.2	193.1	193.1	193.1	187.1	190.1
62.5°	2568.1	1714.1	494.9	274.6	226.3	193.1	181.1	187.1	187.1	184.1	184.1
65°	2242.2	1415.3	401.4	253.5	214.3	184.1	172.0	181.1	184.1	181.1	178.0
67.5°	1792.5	1089.4	332.0	229.3	199.2	169.0	159.9	169.0	172.0	169.0	169.0
70°	1231.2	703.1	268.6	205.2	178.0	153.9	144.9	150.9	150.9	153.9	153.9
72.5°	636.7	380.2	220.3	175.0	153.9	138.8	129.8	129.8	126.7	126.7	126.7
75°	316.9	259.5	184.1	147.9	129.8	117.7	111.7	105.6	105.6	105.6	105.6
77.5°	220.3	199.2	150.9	117.7	105.6	96.6	96.6	87.5	87.5	87.5	87.5
80°	166.0	156.9	114.7	90.5	81.5	75.4	75.4	72.4	72.4	69.4	69.4
82.5°	117.7	126.7	87.5	66.4	60.4	57.3	57.3	54.3	54.3	48.3	48.3
85°	93.6	105.6	66.4	48.3	45.3	39.2	39.2	36.2	36.2	33.2	30.2
87.5°	27.2	57.3	27.2	18.1	18.1	18.1	18.1	15.1	15.1	12.1	12.1
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)