

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: P675747

Luminaire Tested: **CCW-SA-1F-830-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675747
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

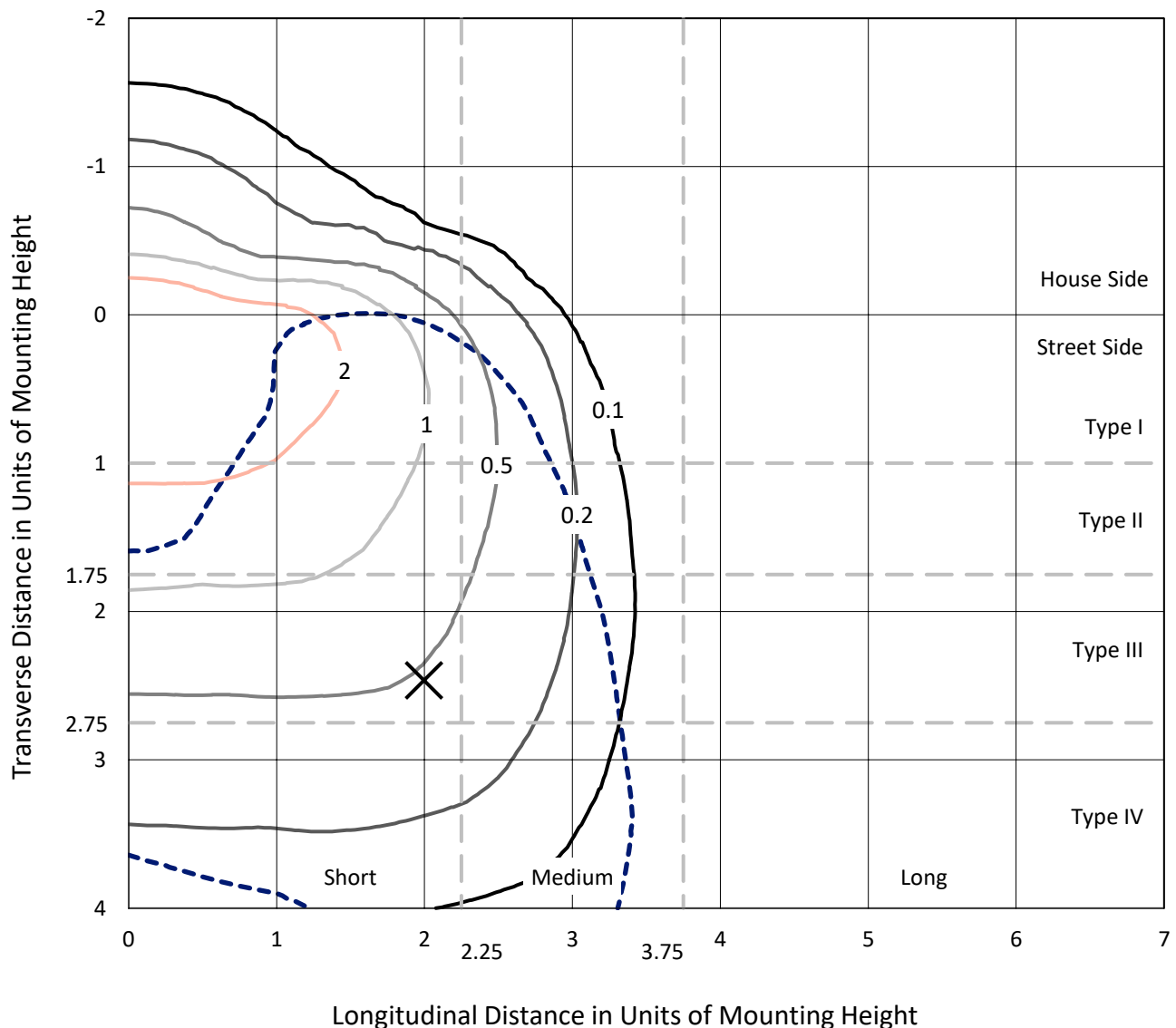
Lumens per Lamp: N/A
Luminaire Lumens: 5838 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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: P675747
 CATALOG NUMBER: CCW-SA-1F-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

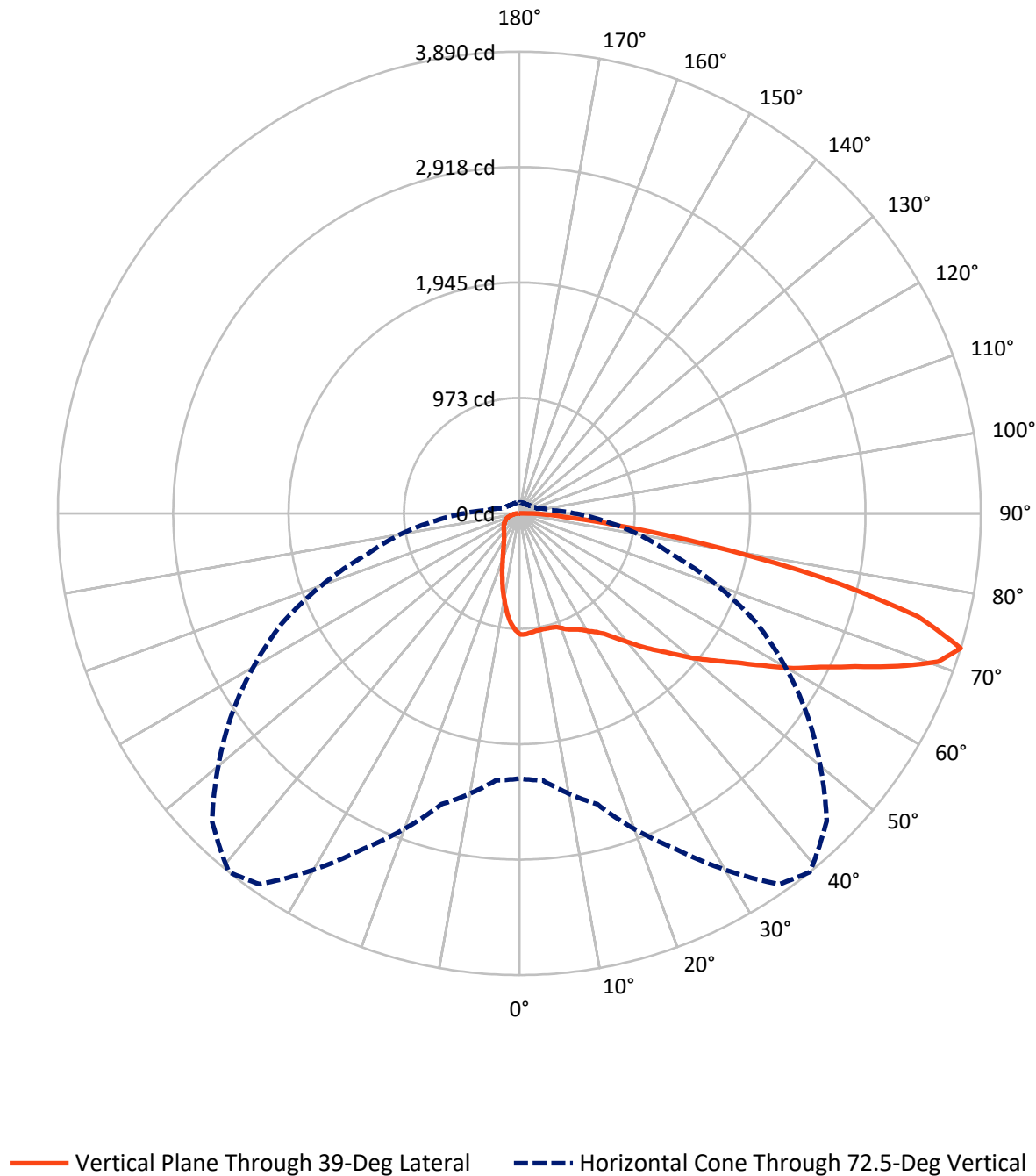
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P675747
CATALOG NUMBER: CCW-SA-1F-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P675747

CATALOG NUMBER: CCW-SA-1F-830-U-SL4

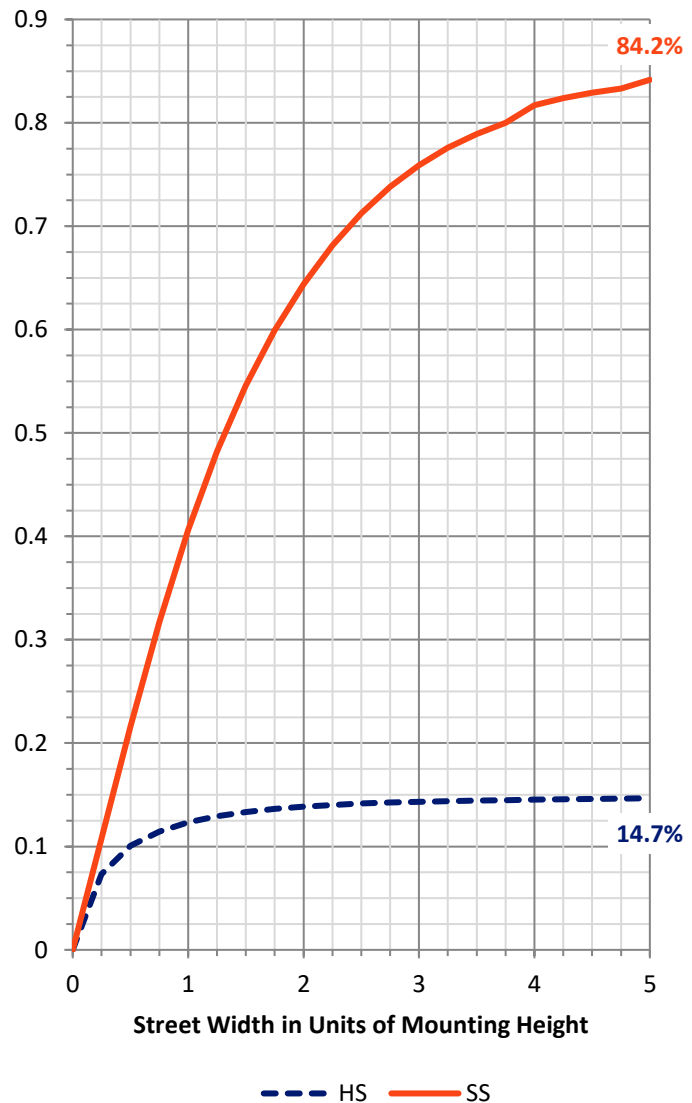
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.6	0.0	867.6
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4970.4	0.0	4970.4
	% Fixture	85.1	0.0	85.1
Total	Lumens	5838.0	0.0	5838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.5
10°-20°	230.5	3.9
20°-30°	351.1	6.0
30°-40°	513.6	8.8
40°-50°	786.4	13.5
50°-60°	1153.3	19.8
60°-70°	1470.9	25.2
70°-80°	1062.7	18.2
80°-90°	179.3	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°	5838.0	100.0
0°-180°	5838.0	100.0

Coefficient of Utilization



REPORT NUMBER: P675747

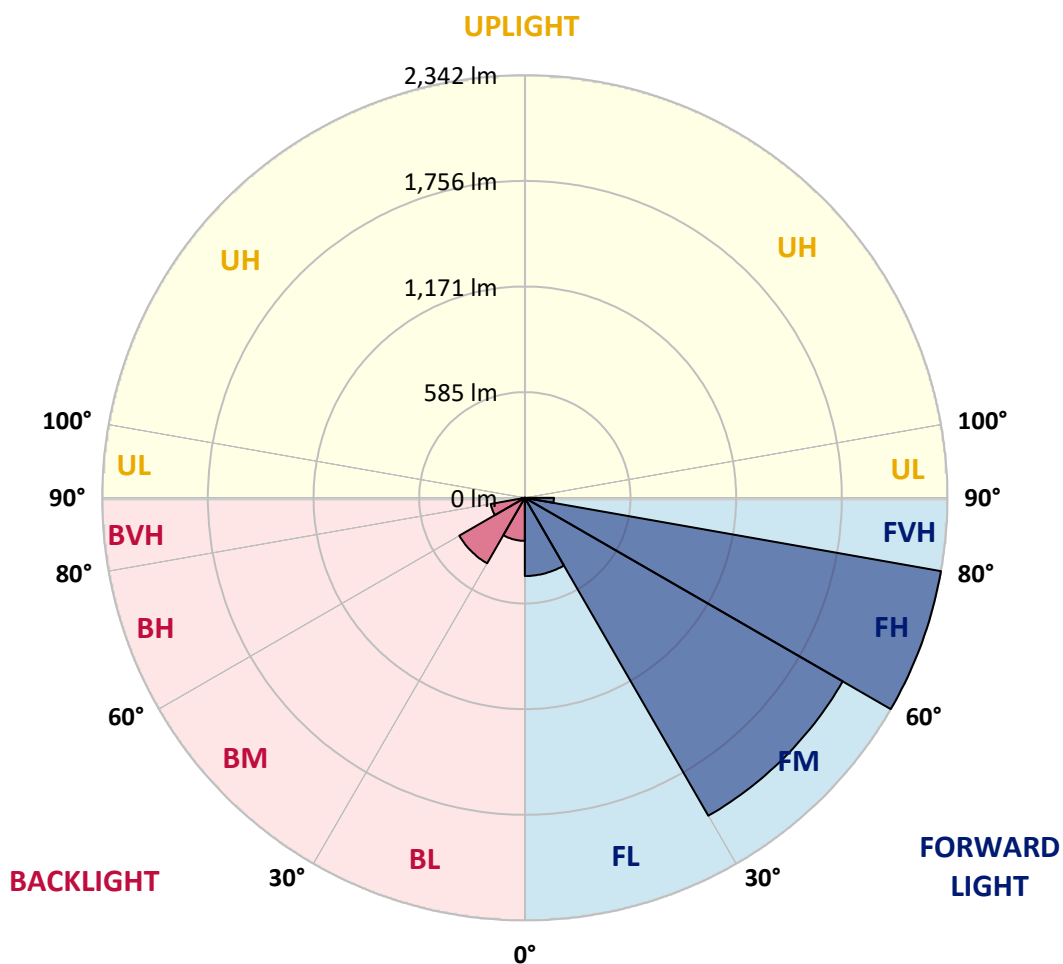
CATALOG NUMBER: CCW-SA-1F-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.3	7.4			
FM	(30°-60°)	2034.1	34.8			
FH	(60°-80°)	2341.9	40.1			G2/5000
FVH	(80°-90°)	161.1	2.8			G2/225
BL	(0°-30°)	238.6	4.1	B1/500		
BM	(30°-60°)	419.2	7.2	B1/1000		
BH	(60°-80°)	191.7	3.3	B1/500		G1/500
BVH	(80°-90°)	18.2	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: P675747

CATALOG NUMBER: CCW-SA-1F-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1037.3	1039.5	1035.1	1030.7	1028.5	1019.7	1028.5	1024.1	1019.7	1019.7	1019.7
5°	1024.1	1026.3	1026.3	1021.9	1024.1	1008.8	1006.6	1008.8	1002.2	997.8	995.6
7.5°	1004.4	1008.8	1017.5	1015.3	1006.6	1000.0	1002.2	1000.0	989.0	982.4	964.9
10°	989.0	993.4	997.8	1002.2	1000.0	997.8	995.6	986.8	984.6	969.3	951.7
12.5°	973.7	973.7	975.9	993.4	995.6	995.6	982.4	982.4	975.9	973.7	947.4
15°	958.3	964.9	982.4	986.8	995.6	1000.0	993.4	993.4	982.4	967.1	947.4
17.5°	962.7	973.7	991.2	1002.2	1006.6	1006.6	1015.3	1008.8	993.4	984.6	964.9
20°	984.6	986.8	1008.8	1028.5	1032.9	1032.9	1024.1	1017.5	1006.6	991.2	964.9
22.5°	997.8	1013.1	1039.5	1050.4	1063.6	1063.6	1052.6	1037.3	1021.9	1006.6	978.1
25°	1054.8	1057.0	1068.0	1085.5	1092.1	1083.3	1072.4	1054.8	1035.1	1019.7	993.4
27.5°	1094.3	1105.2	1118.4	1127.2	1116.2	1109.6	1100.9	1081.1	1065.8	1052.6	1015.3
30°	1166.6	1153.5	1162.3	1166.6	1146.9	1151.3	1127.2	1109.6	1092.1	1092.1	1050.4
32.5°	1210.5	1221.5	1212.7	1210.5	1195.2	1193.0	1177.6	1157.9	1146.9	1160.1	1103.1
35°	1287.3	1280.7	1280.7	1278.5	1260.9	1250.0	1250.0	1214.9	1225.9	1254.4	1184.2
37.5°	1326.7	1324.5	1337.7	1348.7	1331.1	1337.7	1331.1	1315.8	1320.2	1370.6	1285.1
40°	1366.2	1381.6	1407.9	1412.3	1423.2	1432.0	1427.6	1425.4	1443.0	1524.1	1421.0
42.5°	1403.5	1416.6	1456.1	1491.2	1517.5	1546.0	1548.2	1548.2	1605.2	1721.5	1585.5
45°	1451.7	1462.7	1517.5	1587.7	1631.6	1651.3	1668.8	1688.6	1765.3	1903.5	1760.9
47.5°	1517.5	1526.3	1592.1	1679.8	1765.3	1776.3	1811.4	1833.3	1949.5	2089.9	1940.8
50°	1611.8	1605.2	1657.9	1785.1	1868.4	1921.0	1971.5	2010.9	2125.0	2278.5	2081.1
52.5°	1688.6	1688.6	1728.0	1896.9	2010.9	2061.4	2114.0	2168.8	2300.4	2467.1	2195.1
55°	1820.1	1807.0	1831.1	2006.5	2171.0	2219.3	2320.1	2366.2	2493.4	2607.4	2291.6
57.5°	1910.1	1916.6	1945.1	2151.3	2359.6	2418.8	2519.7	2552.6	2664.4	2754.3	2361.8
60°	2028.5	2006.5	2067.9	2311.4	2567.9	2651.3	2734.6	2754.3	2837.7	2848.6	2394.7
62.5°	2142.5	2138.1	2190.8	2471.5	2791.6	2850.8	2936.4	2958.3	2993.4	2923.2	2348.6
65°	2212.7	2241.2	2339.9	2646.9	3046.0	3111.8	3197.3	3153.5	3114.0	2857.4	2122.8
67.5°	2309.2	2322.3	2473.6	2837.7	3339.9	3438.5	3513.1	3339.9	3046.0	2587.7	1787.3
70°	2331.1	2366.2	2563.6	3037.2	3642.5	3743.4	3747.7	3276.3	2798.2	2105.2	1296.0
72.5°	2234.6	2258.7	2537.2	3120.6	3815.7	3890.3	3664.4	2962.7	2217.1	1326.7	706.1
75°	1879.4	1947.3	2208.3	2864.0	3497.8	3469.2	3105.2	2260.9	1331.1	587.7	298.2
77.5°	1309.2	1311.4	1583.3	2083.3	2618.4	2611.8	2214.9	1311.4	570.2	236.8	175.4
80°	581.1	622.8	787.3	1122.8	1589.9	1589.9	1291.6	651.3	285.1	153.5	120.6
82.5°	342.1	355.3	421.0	524.1	774.1	815.8	618.4	434.2	195.2	96.5	74.6
85°	252.2	274.1	313.6	315.8	366.2	372.8	342.1	377.2	133.8	52.6	61.4
87.5°	188.6	201.8	250.0	208.3	195.2	184.2	210.5	386.0	50.4	26.3	19.7
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: P675747

CATALOG NUMBER: CCW-SA-1F-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9	1021.9
2.5°	1010.9	1010.9	1006.6	997.8	997.8	980.2	984.6	989.0	978.1	978.1	980.2
5°	995.6	986.8	975.9	962.7	953.9	929.8	925.4	910.1	907.9	903.5	896.9
7.5°	964.9	951.7	932.0	912.3	883.8	861.8	835.5	813.6	804.8	798.2	796.0
10°	936.4	934.2	901.3	861.8	818.0	776.3	736.8	708.3	690.8	679.8	677.6
12.5°	936.4	918.8	872.8	818.0	754.4	693.0	642.5	603.1	578.9	561.4	554.8
15°	932.0	914.5	853.1	769.7	697.4	614.0	543.9	502.2	467.1	449.6	451.7
17.5°	936.4	910.1	824.5	734.6	633.8	543.9	460.5	410.1	375.0	361.8	359.6
20°	938.6	905.7	802.6	686.4	568.0	467.1	388.2	339.9	313.6	304.8	304.8
22.5°	934.2	892.5	769.7	629.4	511.0	403.5	337.7	296.0	278.5	267.5	271.9
25°	953.9	890.3	739.0	581.1	445.2	350.9	300.4	269.7	258.8	252.2	254.4
27.5°	958.3	890.3	714.9	526.3	388.2	311.4	271.9	252.2	243.4	239.0	236.8
30°	975.9	894.7	686.4	471.5	342.1	280.7	250.0	239.0	232.5	230.3	230.3
32.5°	1024.1	907.9	655.7	425.4	302.6	254.4	234.6	225.9	221.5	219.3	221.5
35°	1081.1	943.0	622.8	377.2	274.1	236.8	221.5	214.9	212.7	212.7	212.7
37.5°	1168.8	995.6	594.3	337.7	250.0	219.3	208.3	206.1	203.9	206.1	206.1
40°	1269.7	1052.6	568.0	307.0	232.5	208.3	197.4	197.4	195.2	197.4	199.6
42.5°	1385.9	1122.8	541.7	276.3	217.1	199.6	190.8	188.6	186.4	190.8	193.0
45°	1546.0	1219.3	524.1	258.8	206.1	190.8	182.0	182.0	179.8	179.8	184.2
47.5°	1679.8	1311.4	524.1	241.2	199.6	184.2	175.4	175.4	171.0	173.2	173.2
50°	1791.6	1390.3	535.1	236.8	190.8	177.6	171.0	166.7	164.5	164.5	164.5
52.5°	1866.2	1438.6	543.9	232.5	186.4	168.9	164.5	162.3	157.9	155.7	157.9
55°	1940.8	1471.5	546.0	232.5	179.8	160.1	155.7	155.7	151.3	149.1	149.1
57.5°	1969.3	1458.3	515.3	228.1	175.4	153.5	149.1	146.9	144.7	142.5	142.5
60°	1956.1	1410.1	447.4	217.1	171.0	149.1	140.3	140.3	140.3	136.0	138.2
62.5°	1866.2	1245.6	359.6	199.6	164.5	140.3	131.6	136.0	136.0	133.8	133.8
65°	1629.4	1028.5	291.7	184.2	155.7	133.8	125.0	131.6	133.8	131.6	129.4
67.5°	1302.6	791.7	241.2	166.7	144.7	122.8	116.2	122.8	125.0	122.8	122.8
70°	894.7	511.0	195.2	149.1	129.4	111.8	105.3	109.6	109.6	111.8	111.8
72.5°	462.7	276.3	160.1	127.2	111.8	100.9	94.3	94.3	92.1	92.1	92.1
75°	230.3	188.6	133.8	107.5	94.3	85.5	81.1	76.8	76.8	76.8	76.8
77.5°	160.1	144.7	109.6	85.5	76.8	70.2	70.2	63.6	63.6	63.6	63.6
80°	120.6	114.0	83.3	65.8	59.2	54.8	54.8	52.6	52.6	50.4	50.4
82.5°	85.5	92.1	63.6	48.2	43.9	41.7	41.7	39.5	39.5	35.1	35.1
85°	68.0	76.8	48.2	35.1	32.9	28.5	28.5	26.3	26.3	24.1	21.9
87.5°	19.7	41.7	19.7	13.2	13.2	13.2	13.2	11.0	11.0	8.8	8.8
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)