

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: P675779

Luminaire Tested: **CCW-SA-1E-850-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675779
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

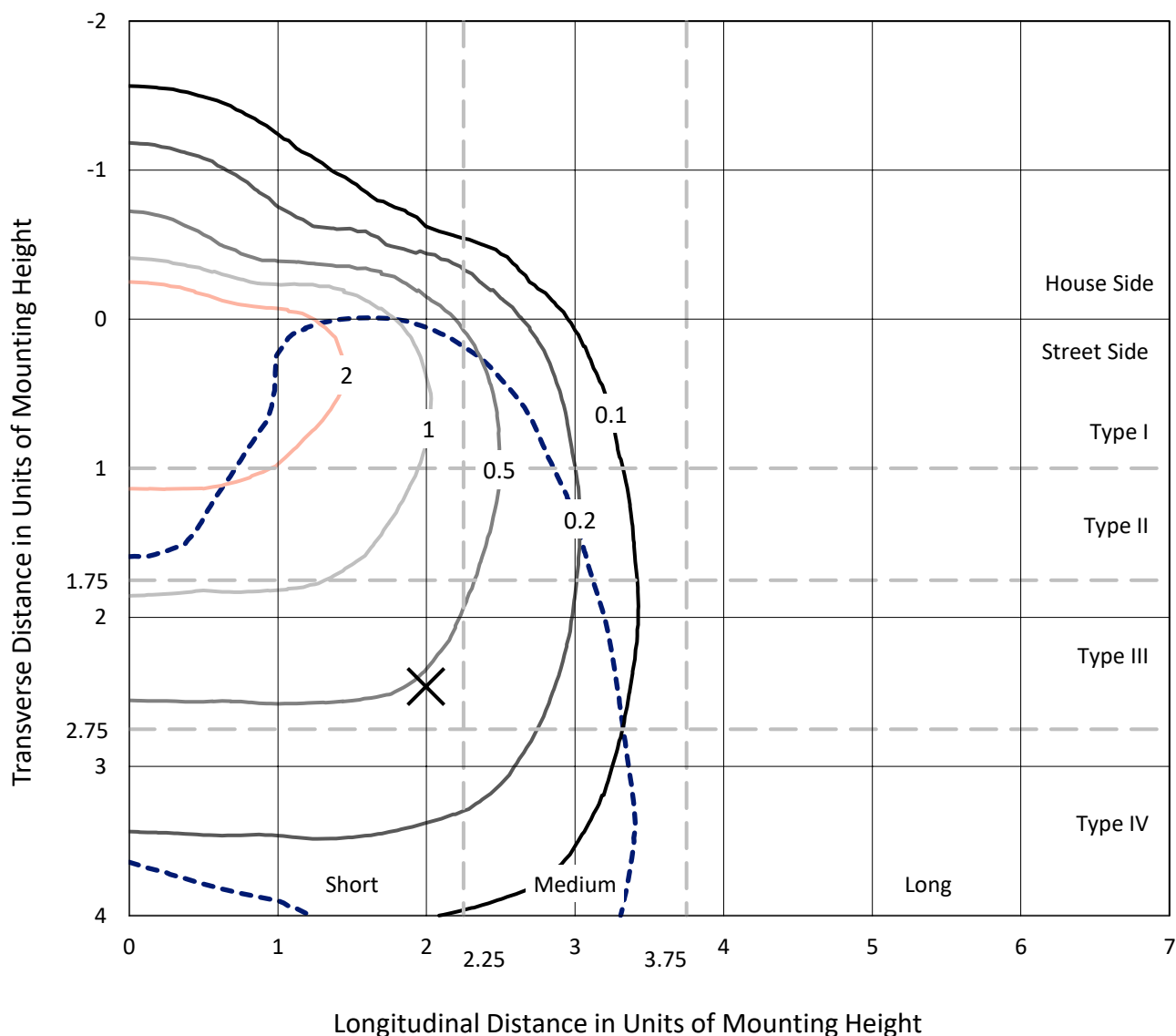
Lumens per Lamp: N/A
Luminaire Lumens: 5846.2 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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: P675779
 CATALOG NUMBER: CCW-SA-1E-850-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

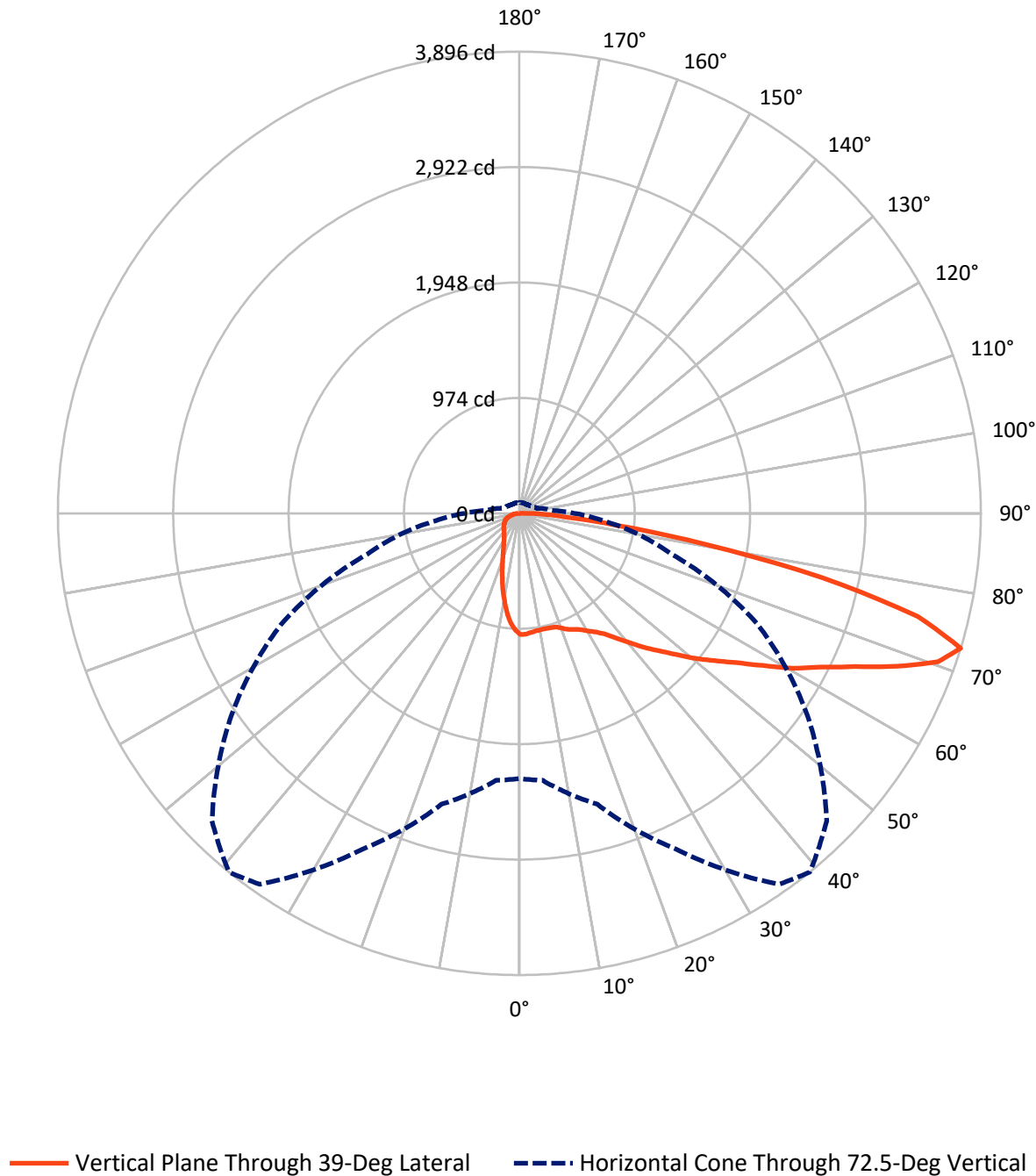
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P675779
CATALOG NUMBER: CCW-SA-1E-850-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P675779

CATALOG NUMBER: CCW-SA-1E-850-U-SL4

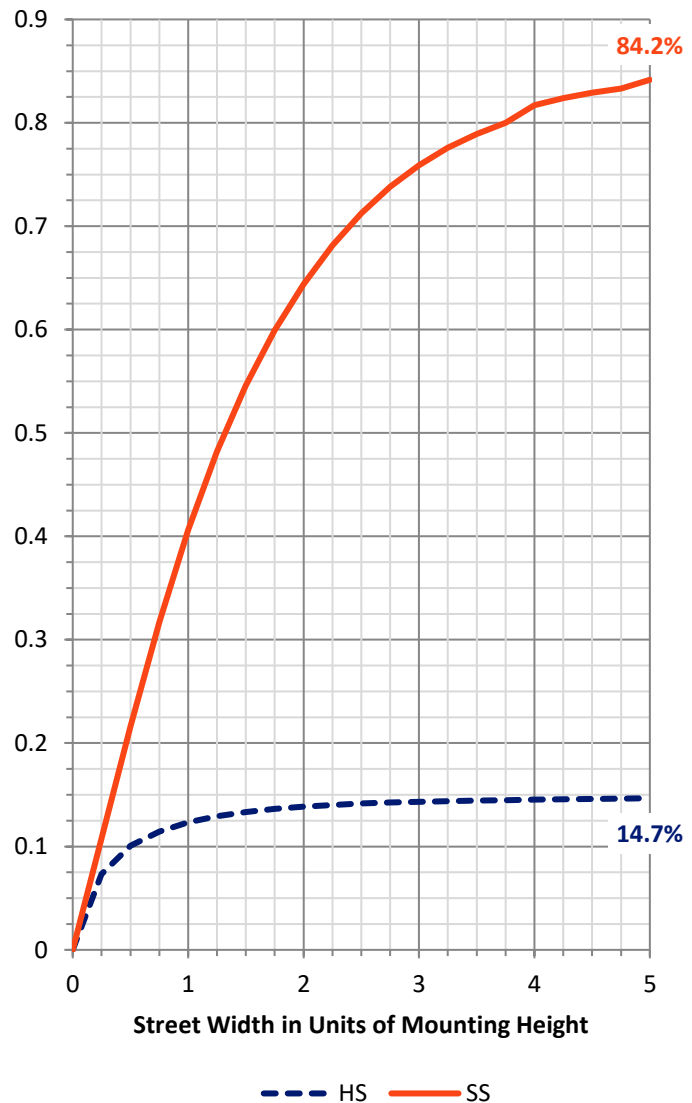
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	868.9	0.0	868.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4977.3	0.0	4977.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	5846.2	0.0	5846.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	1.5
10°-20°	230.8	3.9
20°-30°	351.6	6.0
30°-40°	514.3	8.8
40°-50°	787.5	13.5
50°-60°	1154.9	19.8
60°-70°	1472.9	25.2
70°-80°	1064.2	18.2
80°-90°	179.5	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°	5846.2	100.0
0°-180°	5846.2	100.0

Coefficient of Utilization



REPORT NUMBER: P675779

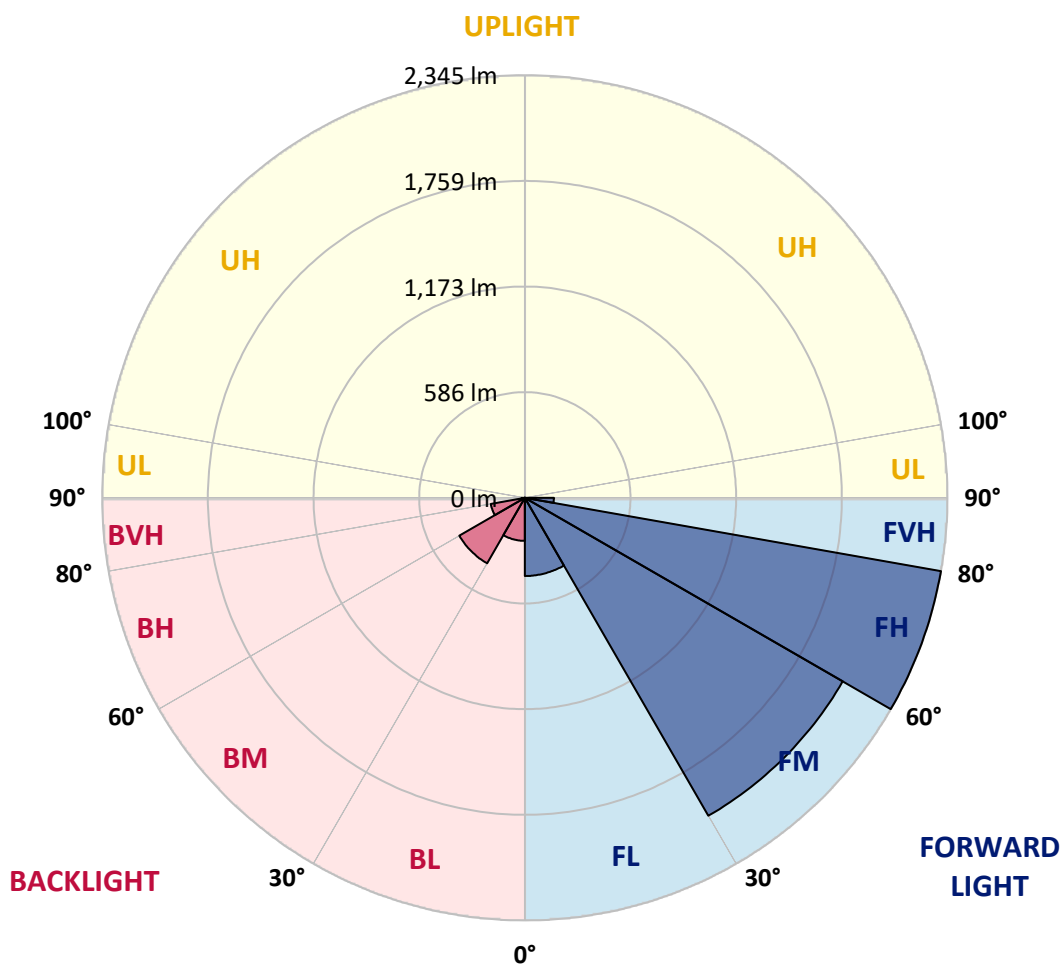
CATALOG NUMBER: CCW-SA-1E-850-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.9	7.4			
FM	(30°-60°)	2037.0	34.8			
FH	(60°-80°)	2345.2	40.1			G2/5000
FVH	(80°-90°)	161.3	2.8			G2/225
BL	(0°-30°)	238.9	4.1	B1/500		
BM	(30°-60°)	419.7	7.2	B1/1000		
BH	(60°-80°)	192.0	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: P675779

CATALOG NUMBER: CCW-SA-1E-850-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1038.7	1040.9	1036.5	1032.1	1029.9	1021.1	1029.9	1025.5	1021.1	1021.1	1021.1
5°	1025.5	1027.7	1027.7	1023.3	1025.5	1010.2	1008.0	1010.2	1003.6	999.2	997.0
7.5°	1005.8	1010.2	1019.0	1016.8	1008.0	1001.4	1003.6	1001.4	990.4	983.8	966.2
10°	990.4	994.8	999.2	1003.6	1001.4	999.2	997.0	988.2	986.0	970.6	953.1
12.5°	975.0	975.0	977.2	994.8	997.0	997.0	983.8	983.8	977.2	975.0	948.7
15°	959.7	966.2	983.8	988.2	997.0	1001.4	994.8	994.8	983.8	968.4	948.7
17.5°	964.1	975.0	992.6	1003.6	1008.0	1008.0	1016.8	1010.2	994.8	986.0	966.2
20°	986.0	988.2	1010.2	1029.9	1034.3	1034.3	1025.5	1019.0	1008.0	992.6	966.2
22.5°	999.2	1014.6	1040.9	1051.9	1065.1	1065.1	1054.1	1038.7	1023.3	1008.0	979.4
25°	1056.3	1058.5	1069.5	1087.0	1093.6	1084.8	1073.9	1056.3	1036.5	1021.1	994.8
27.5°	1095.8	1106.8	1120.0	1128.8	1117.8	1111.2	1102.4	1082.6	1067.3	1054.1	1016.8
30°	1168.3	1155.1	1163.9	1168.3	1148.5	1152.9	1128.8	1111.2	1093.6	1093.6	1051.9
32.5°	1212.2	1223.2	1214.4	1212.2	1196.8	1194.6	1179.3	1159.5	1148.5	1161.7	1104.6
35°	1289.1	1282.5	1282.5	1280.3	1262.7	1251.7	1251.7	1216.6	1227.6	1256.1	1185.8
37.5°	1328.6	1326.4	1339.6	1350.6	1333.0	1339.6	1333.0	1317.6	1322.0	1372.5	1286.9
40°	1368.1	1383.5	1409.8	1414.2	1425.2	1434.0	1429.6	1427.4	1445.0	1526.2	1423.0
42.5°	1405.5	1418.6	1458.2	1493.3	1519.6	1548.2	1550.4	1550.4	1607.5	1723.9	1587.7
45°	1453.8	1464.7	1519.6	1589.9	1633.8	1653.6	1671.2	1690.9	1767.8	1906.1	1763.4
47.5°	1519.6	1528.4	1594.3	1682.1	1767.8	1778.8	1813.9	1835.9	1952.3	2092.8	1943.5
50°	1614.1	1607.5	1660.2	1787.6	1871.0	1923.7	1974.2	2013.7	2127.9	2281.7	2084.0
52.5°	1690.9	1690.9	1730.5	1899.6	2013.7	2064.3	2117.0	2171.9	2303.6	2470.5	2198.2
55°	1822.7	1809.5	1833.7	2009.4	2174.1	2222.4	2323.4	2369.5	2496.9	2611.1	2294.8
57.5°	1912.7	1919.3	1947.9	2154.3	2362.9	2422.2	2523.2	2556.2	2668.2	2758.2	2365.1
60°	2031.3	2009.4	2070.8	2314.6	2571.5	2655.0	2738.4	2758.2	2841.6	2852.6	2398.1
62.5°	2145.5	2141.1	2193.8	2474.9	2795.5	2854.8	2940.5	2962.4	2997.6	2927.3	2351.9
65°	2215.8	2244.3	2343.2	2650.6	3050.3	3116.1	3201.8	3157.9	3118.3	2861.4	2125.7
67.5°	2312.4	2325.6	2477.1	2841.6	3344.5	3443.4	3518.0	3344.5	3050.3	2591.3	1789.8
70°	2334.4	2369.5	2567.1	3041.5	3647.6	3748.6	3753.0	3280.8	2802.1	2108.2	1297.8
72.5°	2237.7	2261.9	2540.8	3124.9	3821.1	3895.7	3669.5	2966.8	2220.2	1328.6	707.1
75°	1882.0	1950.1	2211.4	2868.0	3502.6	3474.1	3109.6	2264.1	1333.0	588.5	298.7
77.5°	1311.0	1313.2	1585.5	2086.2	2622.0	2615.5	2218.0	1313.2	571.0	237.2	175.7
80°	581.9	623.7	788.4	1124.4	1592.1	1592.1	1293.5	652.2	285.5	153.7	120.8
82.5°	342.6	355.8	421.6	524.8	775.2	816.9	619.3	434.8	195.4	96.6	74.7
85°	252.5	274.5	314.0	316.2	366.7	373.3	342.6	377.7	134.0	52.7	61.5
87.5°	188.9	202.0	250.3	208.6	195.4	184.5	210.8	386.5	50.5	26.4	19.8
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: P675779

CATALOG NUMBER: CCW-SA-1E-850-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1012.4	1012.4	1008.0	999.2	999.2	981.6	986.0	990.4	979.4	979.4	981.6
5°	997.0	988.2	977.2	964.1	955.3	931.1	926.7	911.3	909.2	904.8	898.2
7.5°	966.2	953.1	933.3	913.5	885.0	863.0	836.7	814.7	805.9	799.4	797.2
10°	937.7	935.5	902.6	863.0	819.1	777.4	737.9	709.3	691.7	680.8	678.6
12.5°	937.7	920.1	874.0	819.1	755.4	693.9	643.4	603.9	579.7	562.2	555.6
15°	933.3	915.7	854.3	770.8	698.3	614.9	544.6	502.9	467.8	450.2	452.4
17.5°	937.7	911.3	825.7	735.7	634.6	544.6	461.2	410.7	375.5	362.3	360.1
20°	939.9	907.0	803.7	687.4	568.8	467.8	388.7	340.4	314.0	305.2	305.2
22.5°	935.5	893.8	770.8	630.3	511.7	404.1	338.2	296.5	278.9	267.9	272.3
25°	955.3	891.6	740.1	581.9	445.8	351.4	300.9	270.1	259.1	252.5	254.7
27.5°	959.7	891.6	715.9	527.0	388.7	311.8	272.3	252.5	243.8	239.4	237.2
30°	977.2	896.0	687.4	472.1	342.6	281.1	250.3	239.4	232.8	230.6	230.6
32.5°	1025.5	909.2	656.6	426.0	303.1	254.7	235.0	226.2	221.8	219.6	221.8
35°	1082.6	944.3	623.7	377.7	274.5	237.2	221.8	215.2	213.0	213.0	213.0
37.5°	1170.5	997.0	595.1	338.2	250.3	219.6	208.6	206.4	204.2	206.4	206.4
40°	1271.5	1054.1	568.8	307.4	232.8	208.6	197.6	197.6	195.4	197.6	199.8
42.5°	1387.9	1124.4	542.4	276.7	217.4	199.8	191.1	188.9	186.7	191.1	193.2
45°	1548.2	1221.0	524.8	259.1	206.4	191.1	182.3	182.3	180.1	180.1	184.5
47.5°	1682.1	1313.2	524.8	241.6	199.8	184.5	175.7	175.7	171.3	173.5	173.5
50°	1794.1	1392.3	535.8	237.2	191.1	177.9	171.3	166.9	164.7	164.7	164.7
52.5°	1868.8	1440.6	544.6	232.8	186.7	169.1	164.7	162.5	158.1	155.9	158.1
55°	1943.5	1473.5	546.8	232.8	180.1	160.3	155.9	155.9	151.5	149.3	149.3
57.5°	1972.0	1460.4	516.1	228.4	175.7	153.7	149.3	147.1	144.9	142.7	142.7
60°	1958.8	1412.0	448.0	217.4	171.3	149.3	140.5	140.5	140.5	136.2	138.3
62.5°	1868.8	1247.3	360.1	199.8	164.7	140.5	131.8	136.2	136.2	134.0	134.0
65°	1631.6	1029.9	292.1	184.5	155.9	134.0	125.2	131.8	134.0	131.8	129.6
67.5°	1304.4	792.8	241.6	166.9	144.9	123.0	116.4	123.0	125.2	123.0	123.0
70°	896.0	511.7	195.4	149.3	129.6	112.0	105.4	109.8	109.8	112.0	112.0
72.5°	463.4	276.7	160.3	127.4	112.0	101.0	94.4	94.4	92.2	92.2	92.2
75°	230.6	188.9	134.0	107.6	94.4	85.6	81.3	76.9	76.9	76.9	76.9
77.5°	160.3	144.9	109.8	85.6	76.9	70.3	70.3	63.7	63.7	63.7	63.7
80°	120.8	114.2	83.4	65.9	59.3	54.9	54.9	52.7	52.7	50.5	50.5
82.5°	85.6	92.2	63.7	48.3	43.9	41.7	41.7	39.5	39.5	35.1	35.1
85°	68.1	76.9	48.3	35.1	32.9	28.5	28.5	26.4	26.4	24.2	22.0
87.5°	19.8	41.7	19.8	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)