

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: P675890

Luminaire Tested: **CCW-SA-1E-830-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675890
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

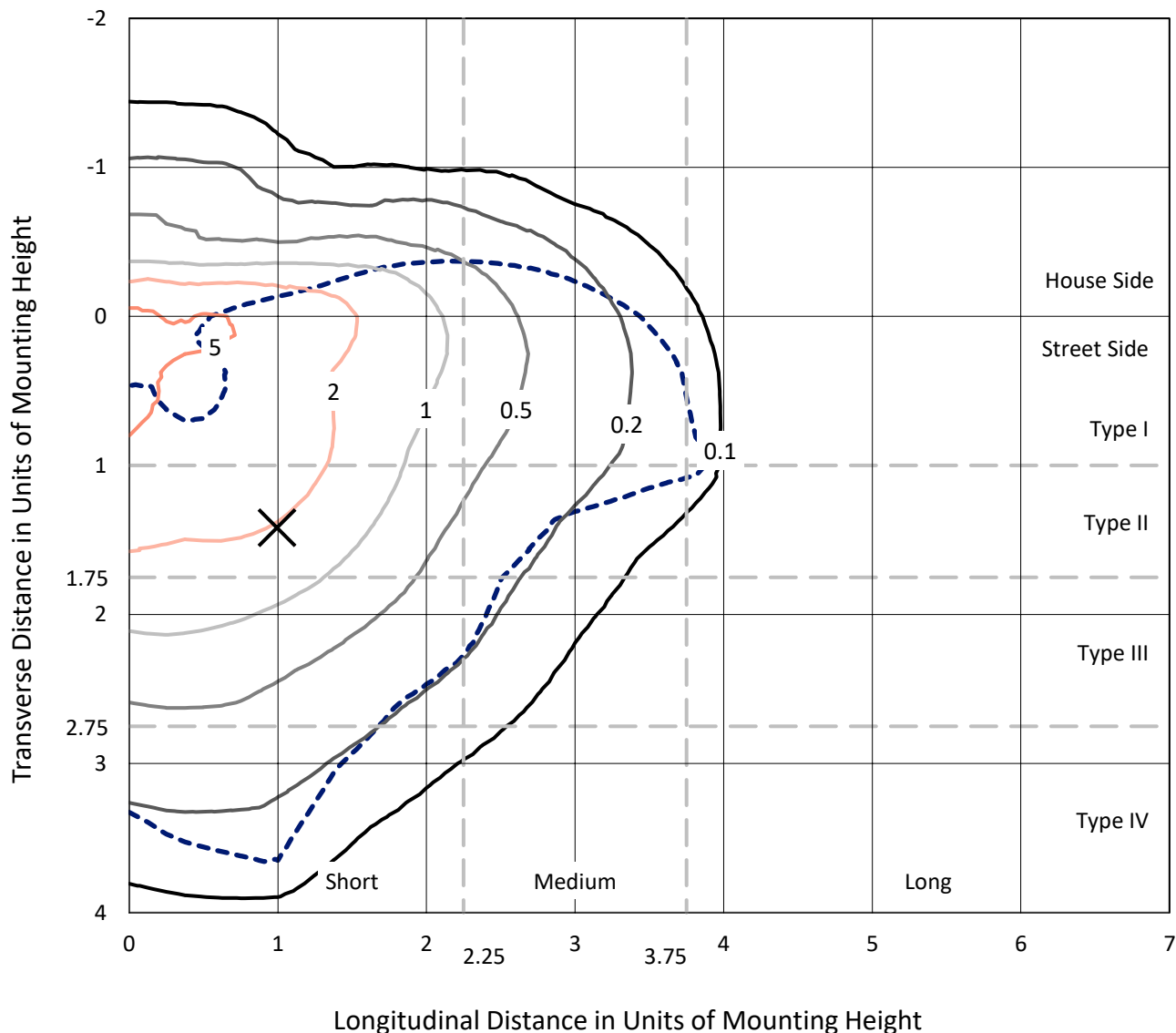
Lumens per Lamp: N/A
Luminaire Lumens: 4507.7 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P675890
 CATALOG NUMBER: CCW-SA-1E-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

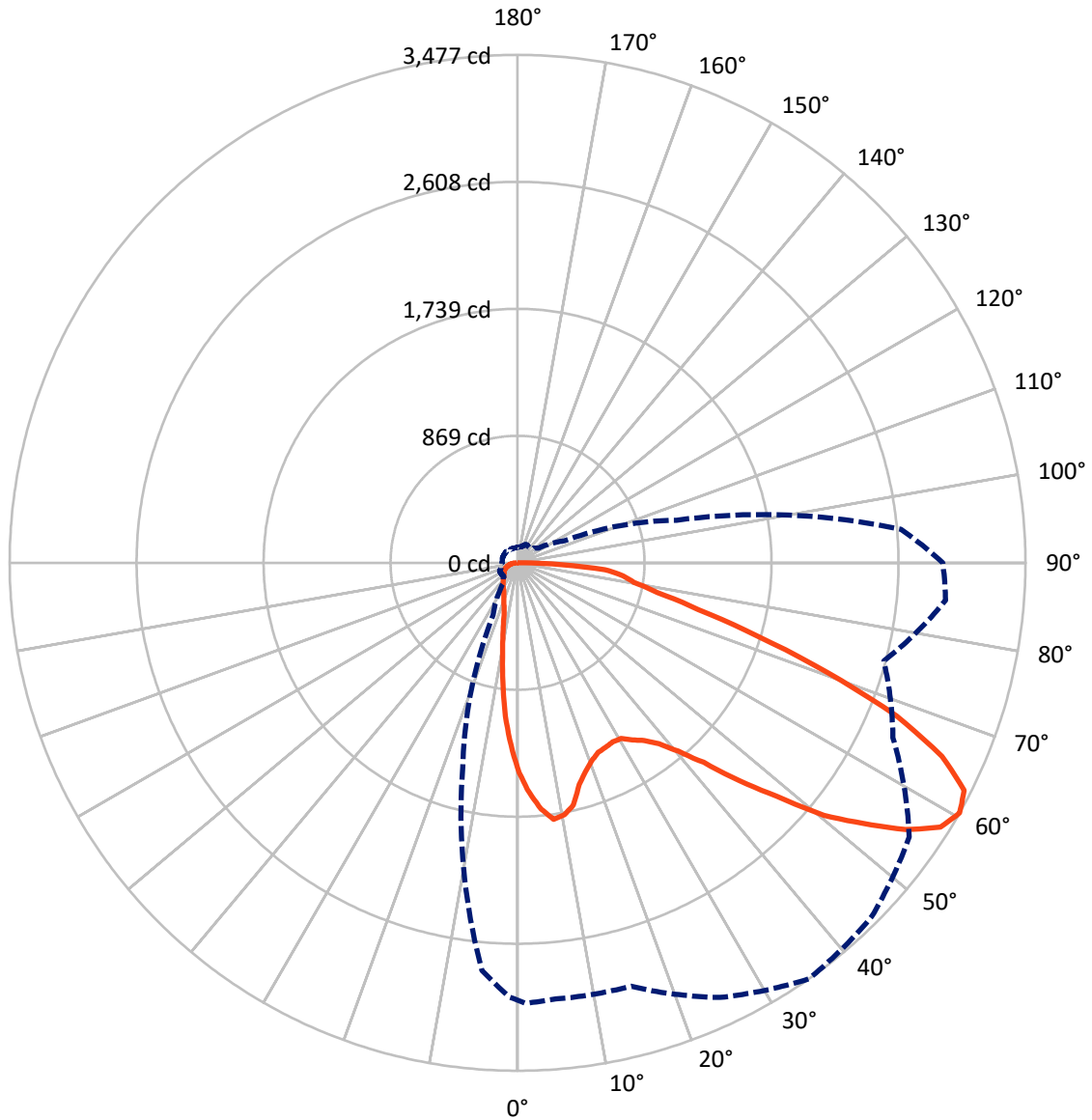
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P675890
CATALOG NUMBER: CCW-SA-1E-830-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P675890
 CATALOG NUMBER: CCW-SA-1E-830-U-SLL

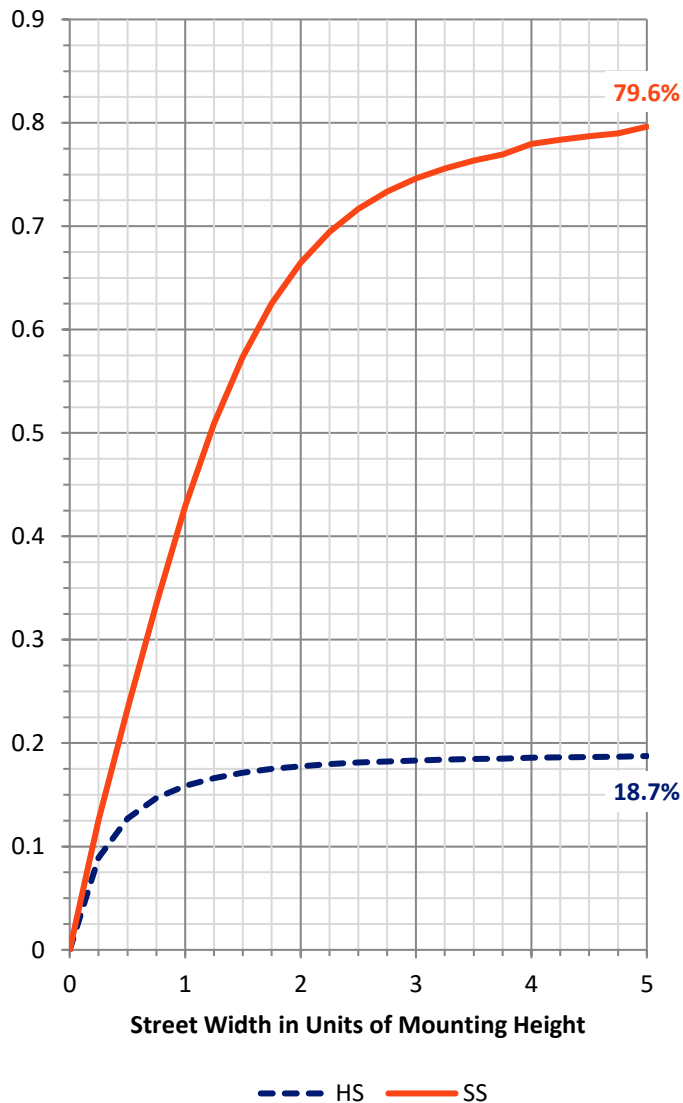
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.9	0.0	857.9
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3649.8	0.0	3649.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	4507.7	0.0	4507.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	2.5
10°-20°	236.1	5.2
20°-30°	345.5	7.7
30°-40°	486.8	10.8
40°-50°	669.0	14.8
50°-60°	911.8	20.2
60°-70°	997.9	22.1
70°-80°	576.1	12.8
80°-90°	172.5	3.8
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°	4507.7	100.0
0°-180°	4507.7	100.0

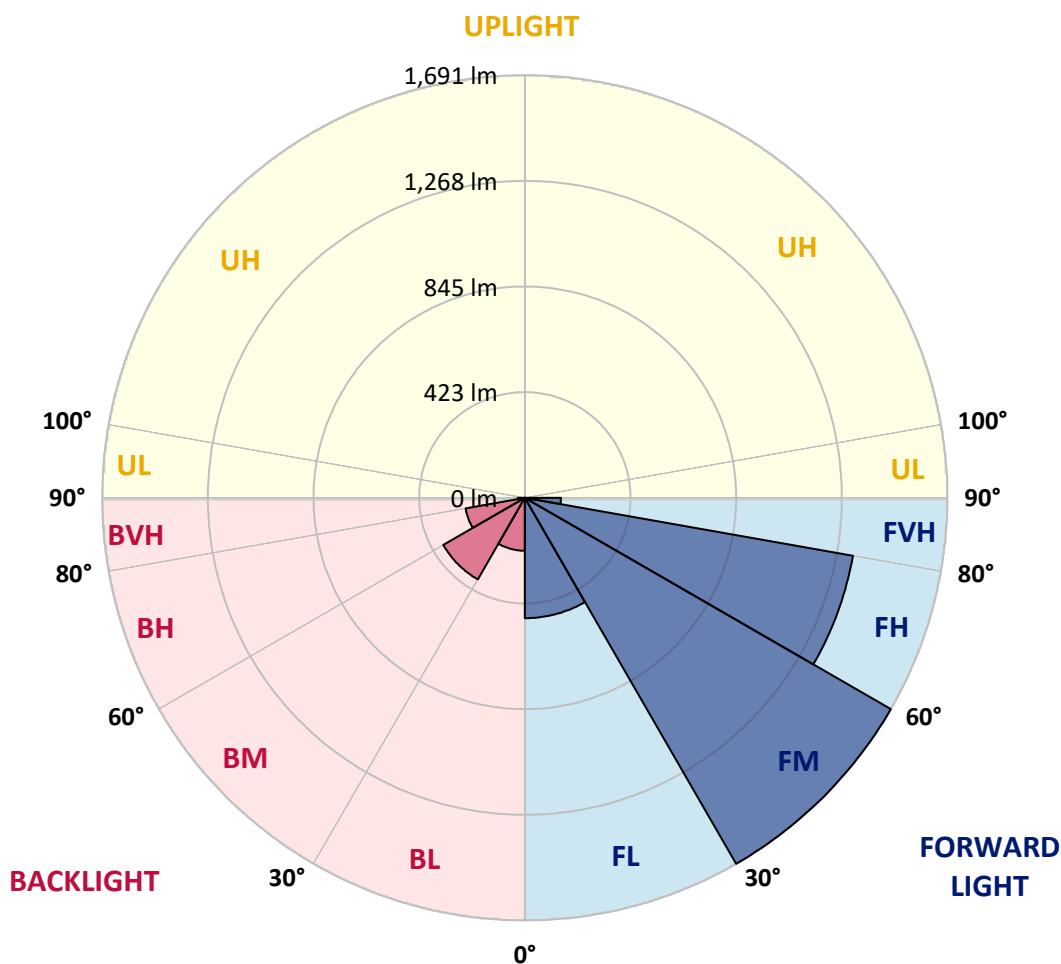


REPORT NUMBER: P675890
 CATALOG NUMBER: CCW-SA-1E-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.6	10.7			
FM (30°-60°)	1690.7	37.5			
FH (60°-80°)	1333.1	29.6			G1/1800
FVH (80°-90°)	144.4	3.2			G2/225
BL (0°-30°)	212.0	4.7	B1/500		
BM (30°-60°)	376.9	8.4	B1/1000		
BH (60°-80°)	241.0	5.3	B1/500		G1/500
BVH (80°-90°)	28.1	0.6			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: P675890

CATALOG NUMBER: CCW-SA-1E-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7
2.5°	1541.7	1535.7	1541.7	1563.7	1569.7	1579.7	1579.7	1565.7	1539.7	1527.7	1507.7
5°	1575.7	1565.7	1615.7	1661.7	1697.7	1693.7	1659.7	1631.7	1579.7	1501.7	1427.7
7.5°	1507.7	1517.7	1553.7	1673.7	1757.7	1773.7	1719.7	1663.7	1551.7	1443.7	1343.7
10°	1379.7	1393.7	1471.7	1595.7	1727.7	1753.7	1719.7	1651.7	1517.7	1383.7	1267.8
12.5°	1317.7	1349.7	1395.7	1545.7	1639.7	1701.7	1685.7	1641.7	1491.7	1333.7	1221.8
15°	1317.7	1325.7	1393.7	1519.7	1573.7	1575.7	1581.7	1589.7	1499.7	1355.7	1205.8
17.5°	1359.7	1381.7	1439.7	1517.7	1527.7	1503.7	1503.7	1537.7	1515.7	1417.7	1263.8
20°	1461.7	1453.7	1529.7	1561.7	1507.7	1447.7	1441.7	1499.7	1533.7	1483.7	1369.7
22.5°	1563.7	1599.7	1661.7	1589.7	1489.7	1409.7	1401.7	1473.7	1587.7	1597.7	1491.7
25°	1717.7	1753.7	1785.7	1697.7	1487.7	1399.7	1405.7	1461.7	1653.7	1759.7	1695.7
27.5°	1883.6	1905.6	1951.6	1815.6	1535.7	1387.7	1393.7	1477.7	1715.7	1865.6	1855.6
30°	1977.6	2001.6	1991.6	1837.6	1567.7	1395.7	1379.7	1499.7	1681.7	1865.6	1959.6
32.5°	2069.6	2055.6	2049.6	1873.6	1607.7	1445.7	1405.7	1545.7	1701.7	1895.6	2093.6
35°	2181.6	2161.6	2145.6	1943.6	1673.7	1493.7	1475.7	1605.7	1745.7	1957.6	2201.6
37.5°	2305.6	2305.6	2227.6	1995.6	1751.7	1571.7	1551.7	1691.7	1815.6	1995.6	2349.5
40°	2451.5	2457.5	2319.5	2065.6	1839.6	1695.7	1689.7	1803.6	1883.6	2051.6	2491.5
42.5°	2559.5	2563.5	2399.5	2091.6	1941.6	1867.6	1893.6	1983.6	1961.6	2101.6	2501.5
45°	2633.5	2613.5	2455.5	2165.6	2053.6	2125.6	2133.6	2159.6	2063.6	2131.6	2541.5
47.5°	2669.5	2665.5	2479.5	2251.6	2289.6	2387.5	2433.5	2397.5	2157.6	2099.6	2541.5
50°	2705.5	2671.5	2501.5	2369.5	2519.5	2717.5	2707.5	2641.5	2287.6	2139.6	2503.5
52.5°	2729.5	2699.5	2545.5	2475.5	2739.5	2963.4	3003.4	2881.4	2439.5	2213.6	2521.5
55°	2815.5	2791.5	2677.5	2619.5	2993.4	3223.4	3229.4	3059.4	2599.5	2335.5	2639.5
57.5°	2919.4	2933.4	2859.4	2823.5	3187.4	3413.3	3391.3	3191.4	2735.5	2483.5	2775.5
60°	2993.4	3015.4	2997.4	3001.4	3283.4	3477.3	3427.3	3273.4	2835.4	2595.5	2941.4
62.5°	2953.4	2997.4	3071.4	3055.4	3287.4	3431.3	3361.3	3165.4	2847.4	2741.5	3067.4
65°	2843.4	2847.4	2991.4	3079.4	3107.4	3193.4	3101.4	2939.4	2723.5	2831.5	3049.4
67.5°	2561.5	2593.5	2723.5	2895.4	2777.5	2797.5	2789.5	2555.5	2535.5	2769.5	2911.4
70°	2261.6	2283.6	2425.5	2627.5	2345.5	2251.6	2269.6	2095.6	2177.6	2577.5	2633.5
72.5°	1869.6	1883.6	2045.6	2223.6	1881.6	1713.7	1755.7	1613.7	1729.7	2255.6	2221.6
75°	1411.7	1437.7	1563.7	1773.7	1385.7	1277.8	1319.7	1261.8	1369.7	1857.6	1723.7
77.5°	1003.8	983.8	1139.8	1387.7	1041.8	977.8	981.8	991.8	1107.8	1565.7	1237.8
80°	683.9	689.9	829.8	1017.8	817.8	807.8	797.8	877.8	929.8	1239.8	899.8
82.5°	405.9	405.9	559.9	723.9	645.9	727.9	681.9	753.9	727.9	911.8	589.9
85°	190.0	190.0	287.9	521.9	499.9	599.9	509.9	569.9	537.9	635.9	265.9
87.5°	32.0	28.0	58.0	256.0	206.0	234.0	92.0	303.9	337.9	443.9	66.0
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: P675890

CATALOG NUMBER: CCW-SA-1E-830-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7
2.5°	1485.7	1471.7	1443.7	1407.7	1377.7	1339.7	1327.7	1301.7	1265.8	1261.8	1245.8
5°	1399.7	1351.7	1291.7	1217.8	1167.8	1115.8	1071.8	1045.8	1015.8	1011.8	1003.8
7.5°	1305.7	1245.8	1145.8	1057.8	971.8	889.8	849.8	799.8	765.9	739.9	727.9
10°	1217.8	1161.8	1037.8	917.8	841.8	787.8	739.9	687.9	645.9	613.9	601.9
12.5°	1159.8	1093.8	959.8	845.8	789.8	727.9	673.9	617.9	563.9	521.9	499.9
15°	1133.8	1071.8	935.8	809.8	727.9	641.9	579.9	523.9	457.9	427.9	417.9
17.5°	1195.8	1103.8	927.8	767.9	651.9	553.9	477.9	417.9	369.9	339.9	327.9
20°	1275.8	1161.8	941.8	717.9	579.9	469.9	385.9	321.9	289.9	267.9	265.9
22.5°	1377.7	1247.8	963.8	681.9	499.9	377.9	301.9	263.9	242.0	240.0	236.0
25°	1559.7	1403.7	999.8	633.9	435.9	311.9	257.9	236.0	226.0	220.0	224.0
27.5°	1715.7	1505.7	1025.8	603.9	409.9	293.9	250.0	226.0	216.0	214.0	216.0
30°	1807.6	1599.7	1017.8	547.9	357.9	279.9	265.9	257.9	238.0	222.0	222.0
32.5°	1891.6	1659.7	1015.8	497.9	305.9	234.0	222.0	216.0	228.0	236.0	230.0
35°	2007.6	1753.7	1009.8	469.9	283.9	216.0	196.0	180.0	172.0	168.0	174.0
37.5°	2131.6	1817.6	993.8	465.9	271.9	206.0	190.0	174.0	166.0	162.0	160.0
40°	2267.6	1885.6	975.8	445.9	265.9	200.0	184.0	170.0	160.0	154.0	152.0
42.5°	2355.5	1939.6	957.8	435.9	254.0	196.0	178.0	166.0	156.0	148.0	148.0
45°	2405.5	2003.6	939.8	425.9	240.0	198.0	178.0	162.0	150.0	146.0	142.0
47.5°	2427.5	2051.6	933.8	409.9	228.0	190.0	174.0	158.0	146.0	138.0	136.0
50°	2485.5	2153.6	955.8	397.9	214.0	182.0	184.0	156.0	144.0	134.0	132.0
52.5°	2519.5	2235.6	1003.8	379.9	204.0	172.0	180.0	152.0	138.0	128.0	128.0
55°	2643.5	2371.5	1055.8	365.9	192.0	158.0	166.0	144.0	128.0	122.0	122.0
57.5°	2801.5	2515.5	1099.8	359.9	184.0	148.0	148.0	140.0	122.0	114.0	112.0
60°	2911.4	2633.5	1125.8	355.9	176.0	138.0	132.0	140.0	116.0	108.0	106.0
62.5°	2923.4	2565.5	1099.8	353.9	174.0	128.0	120.0	134.0	110.0	102.0	98.0
65°	2847.4	2427.5	1027.8	345.9	172.0	118.0	112.0	116.0	102.0	96.0	92.0
67.5°	2695.5	2203.6	923.8	341.9	170.0	110.0	102.0	100.0	94.0	88.0	84.0
70°	2341.5	1911.6	801.8	323.9	166.0	104.0	92.0	90.0	84.0	80.0	78.0
72.5°	1965.6	1563.7	661.9	299.9	158.0	94.0	84.0	80.0	78.0	72.0	70.0
75°	1505.7	1203.8	529.9	265.9	138.0	84.0	74.0	70.0	68.0	64.0	62.0
77.5°	1057.8	895.8	391.9	216.0	116.0	76.0	66.0	62.0	60.0	54.0	54.0
80°	717.9	627.9	265.9	150.0	90.0	62.0	58.0	54.0	50.0	46.0	46.0
82.5°	445.9	439.9	192.0	98.0	66.0	50.0	46.0	46.0	40.0	36.0	36.0
85°	204.0	269.9	134.0	68.0	50.0	38.0	38.0	36.0	32.0	26.0	26.0
87.5°	64.0	90.0	70.0	30.0	28.0	22.0	22.0	20.0	20.0	16.0	16.0
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: P675890
 CATALOG NUMBER: CCW-SA-1E-830-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7
2.5°	1261.8	1259.8	1259.8	1251.8	1271.8	1271.8	1283.8	1273.8	1279.8	1281.8	1297.7
5°	1001.8	1017.8	1029.8	1053.8	1067.8	1073.8	1073.8	1089.8	1083.8	1095.8	1119.8
7.5°	733.9	753.9	789.8	819.8	843.8	851.8	849.8	853.8	859.8	845.8	849.8
10°	593.9	579.9	591.9	619.9	641.9	667.9	647.9	645.9	651.9	645.9	657.9
12.5°	495.9	479.9	469.9	469.9	485.9	497.9	491.9	501.9	523.9	529.9	543.9
15°	401.9	387.9	379.9	369.9	385.9	389.9	395.9	409.9	425.9	433.9	449.9
17.5°	321.9	321.9	321.9	313.9	319.9	325.9	327.9	345.9	347.9	355.9	361.9
20°	263.9	269.9	279.9	283.9	289.9	289.9	285.9	295.9	287.9	293.9	297.9
22.5°	238.0	246.0	250.0	252.0	259.9	261.9	252.0	254.0	256.0	250.0	252.0
25°	224.0	228.0	224.0	226.0	228.0	224.0	226.0	230.0	228.0	232.0	230.0
27.5°	218.0	214.0	212.0	210.0	210.0	206.0	208.0	208.0	212.0	214.0	214.0
30°	218.0	212.0	204.0	198.0	198.0	192.0	196.0	200.0	202.0	206.0	206.0
32.5°	224.0	212.0	198.0	192.0	186.0	182.0	186.0	192.0	200.0	202.0	204.0
35°	178.0	184.0	182.0	174.0	172.0	172.0	170.0	170.0	164.0	164.0	162.0
37.5°	160.0	158.0	162.0	164.0	166.0	160.0	160.0	152.0	150.0	152.0	152.0
40°	150.0	150.0	150.0	156.0	158.0	154.0	148.0	144.0	144.0	144.0	146.0
42.5°	146.0	142.0	140.0	144.0	150.0	146.0	140.0	138.0	138.0	140.0	140.0
45°	140.0	138.0	136.0	134.0	142.0	136.0	134.0	132.0	132.0	132.0	134.0
47.5°	134.0	132.0	128.0	128.0	130.0	128.0	126.0	126.0	126.0	130.0	130.0
50°	130.0	128.0	124.0	124.0	124.0	124.0	122.0	122.0	122.0	124.0	126.0
52.5°	124.0	122.0	120.0	118.0	118.0	118.0	118.0	118.0	118.0	120.0	122.0
55°	118.0	116.0	114.0	114.0	116.0	116.0	114.0	116.0	114.0	116.0	118.0
57.5°	112.0	110.0	108.0	110.0	112.0	110.0	110.0	110.0	110.0	110.0	112.0
60°	104.0	104.0	104.0	104.0	108.0	108.0	108.0	108.0	104.0	106.0	108.0
62.5°	100.0	98.0	98.0	100.0	102.0	102.0	104.0	102.0	100.0	102.0	102.0
65°	92.0	92.0	92.0	94.0	94.0	96.0	96.0	96.0	94.0	96.0	96.0
67.5°	86.0	86.0	86.0	86.0	90.0	90.0	90.0	90.0	88.0	88.0	90.0
70°	76.0	78.0	76.0	80.0	84.0	82.0	84.0	84.0	82.0	80.0	84.0
72.5°	70.0	70.0	70.0	70.0	76.0	76.0	76.0	78.0	76.0	74.0	76.0
75°	62.0	62.0	62.0	64.0	68.0	68.0	68.0	68.0	68.0	66.0	66.0
77.5°	54.0	56.0	54.0	56.0	60.0	58.0	60.0	62.0	60.0	58.0	58.0
80°	46.0	46.0	46.0	48.0	50.0	50.0	50.0	52.0	50.0	48.0	48.0
82.5°	36.0	36.0	38.0	38.0	40.0	40.0	40.0	42.0	40.0	38.0	38.0
85°	28.0	28.0	28.0	30.0	30.0	32.0	32.0	34.0	34.0	32.0	32.0
87.5°	18.0	16.0	18.0	18.0	20.0	20.0	18.0	16.0	18.0	16.0	14.0
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: P675890
 CATALOG NUMBER: CCW-SA-1E-830-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7	1439.7
2.5°	1313.7	1349.7	1375.7	1393.7	1419.7	1469.7	1489.7	1525.7	1535.7	1541.7
5°	1129.8	1167.8	1223.8	1263.8	1309.7	1403.7	1475.7	1529.7	1553.7	1575.7
7.5°	885.8	935.8	993.8	1045.8	1121.8	1237.8	1331.7	1443.7	1485.7	1507.7
10°	691.9	737.9	801.8	865.8	971.8	1069.8	1203.8	1305.7	1363.7	1379.7
12.5°	583.9	637.9	713.9	791.8	857.8	969.8	1105.8	1253.8	1307.7	1317.7
15°	495.9	569.9	647.9	727.9	803.8	901.8	1047.8	1227.8	1307.7	1317.7
17.5°	409.9	475.9	567.9	653.9	741.9	875.8	1057.8	1249.8	1329.7	1359.7
20°	325.9	389.9	461.9	569.9	689.9	831.8	1079.8	1323.7	1429.7	1461.7
22.5°	269.9	297.9	367.9	471.9	613.9	801.8	1101.8	1439.7	1551.7	1563.7
25°	236.0	256.0	299.9	397.9	553.9	781.8	1153.8	1573.7	1717.7	1717.7
27.5°	220.0	228.0	257.9	345.9	511.9	763.9	1205.8	1721.7	1855.6	1883.6
30°	216.0	236.0	252.0	307.9	465.9	713.9	1253.8	1837.6	1975.6	1977.6
32.5°	212.0	208.0	220.0	267.9	409.9	661.9	1293.7	1955.6	2063.6	2069.6
35°	166.0	174.0	194.0	236.0	367.9	623.9	1313.7	2019.6	2175.6	2181.6
37.5°	156.0	166.0	182.0	218.0	339.9	591.9	1319.7	2143.6	2293.6	2305.6
40°	152.0	160.0	172.0	202.0	317.9	551.9	1331.7	2271.6	2467.5	2451.5
42.5°	144.0	154.0	166.0	194.0	299.9	521.9	1333.7	2341.5	2559.5	2559.5
45°	142.0	148.0	162.0	194.0	279.9	495.9	1301.7	2411.5	2665.5	2633.5
47.5°	134.0	146.0	158.0	188.0	256.0	469.9	1263.8	2447.5	2679.5	2669.5
50°	132.0	144.0	164.0	178.0	242.0	457.9	1255.8	2537.5	2707.5	2705.5
52.5°	128.0	140.0	170.0	170.0	224.0	441.9	1293.7	2577.5	2713.5	2729.5
55°	122.0	140.0	158.0	156.0	208.0	421.9	1335.7	2681.5	2819.5	2815.5
57.5°	118.0	136.0	150.0	142.0	190.0	407.9	1397.7	2781.5	2947.4	2919.4
60°	112.0	136.0	134.0	132.0	176.0	395.9	1449.7	2801.5	2975.4	2993.4
62.5°	108.0	142.0	118.0	122.0	164.0	389.9	1427.7	2651.5	2937.4	2953.4
65°	104.0	122.0	108.0	112.0	160.0	377.9	1341.7	2471.5	2773.5	2843.4
67.5°	96.0	100.0	100.0	104.0	156.0	349.9	1165.8	2147.6	2523.5	2561.5
70°	88.0	90.0	90.0	96.0	152.0	317.9	961.8	1857.6	2189.6	2261.6
72.5°	80.0	80.0	80.0	88.0	140.0	291.9	791.8	1427.7	1819.6	1869.6
75°	70.0	70.0	70.0	78.0	126.0	265.9	623.9	1061.8	1339.7	1411.7
77.5°	62.0	62.0	60.0	70.0	110.0	216.0	449.9	749.9	943.8	1003.8
80°	52.0	50.0	50.0	56.0	86.0	156.0	289.9	529.9	657.9	683.9
82.5°	42.0	40.0	38.0	42.0	62.0	98.0	180.0	369.9	421.9	405.9
85°	40.0	42.0	34.0	32.0	44.0	64.0	114.0	228.0	190.0	190.0
87.5°	16.0	14.0	14.0	12.0	22.0	24.0	50.0	42.0	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)