

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: P675915

Luminaire Tested: **CCW-SA-2B-840-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675915
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-840-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SLL distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

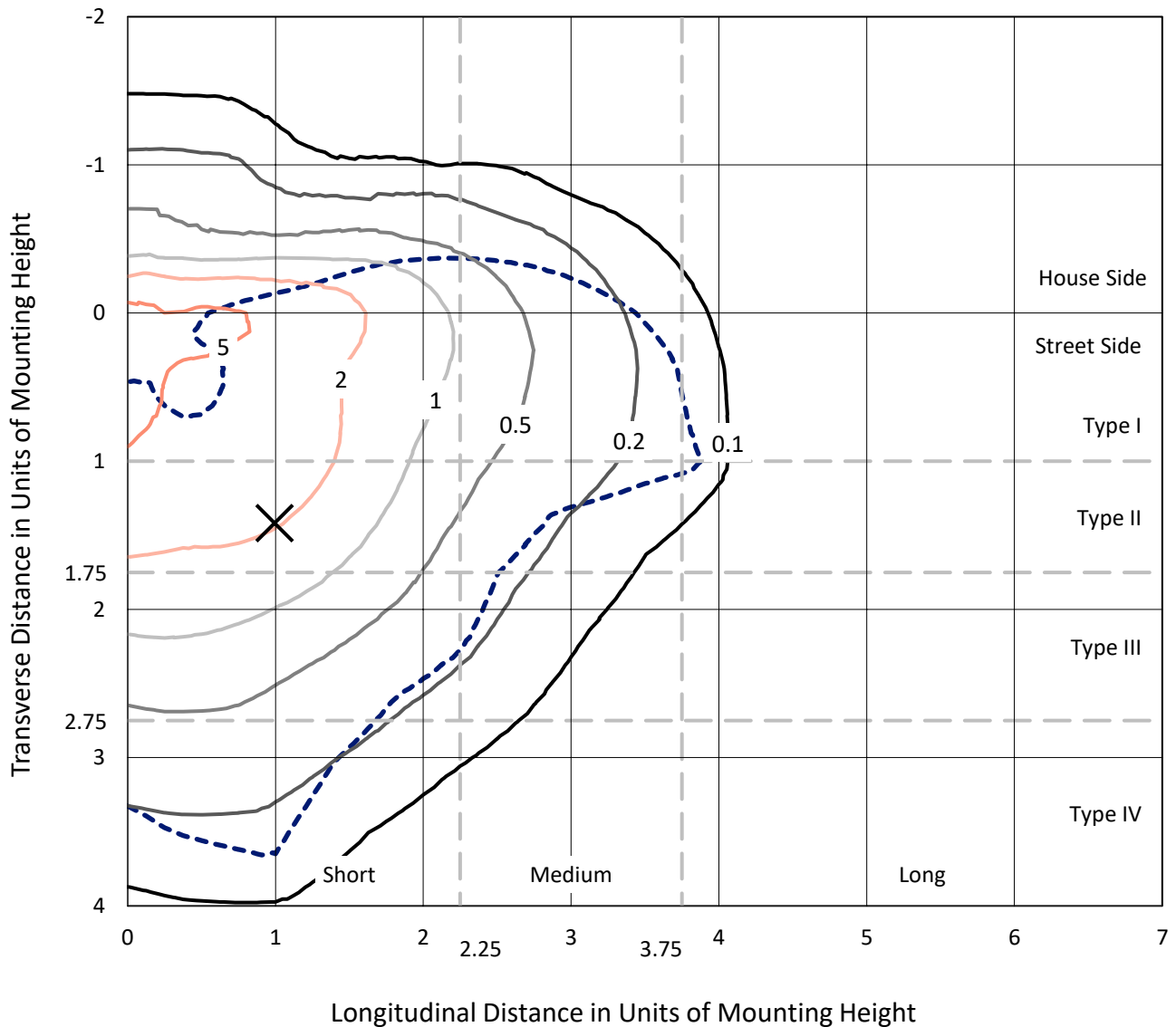
Lumens per Lamp: N/A
Luminaire Lumens: 4885.6 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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: P675915
 CATALOG NUMBER: CCW-SA-2B-840-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

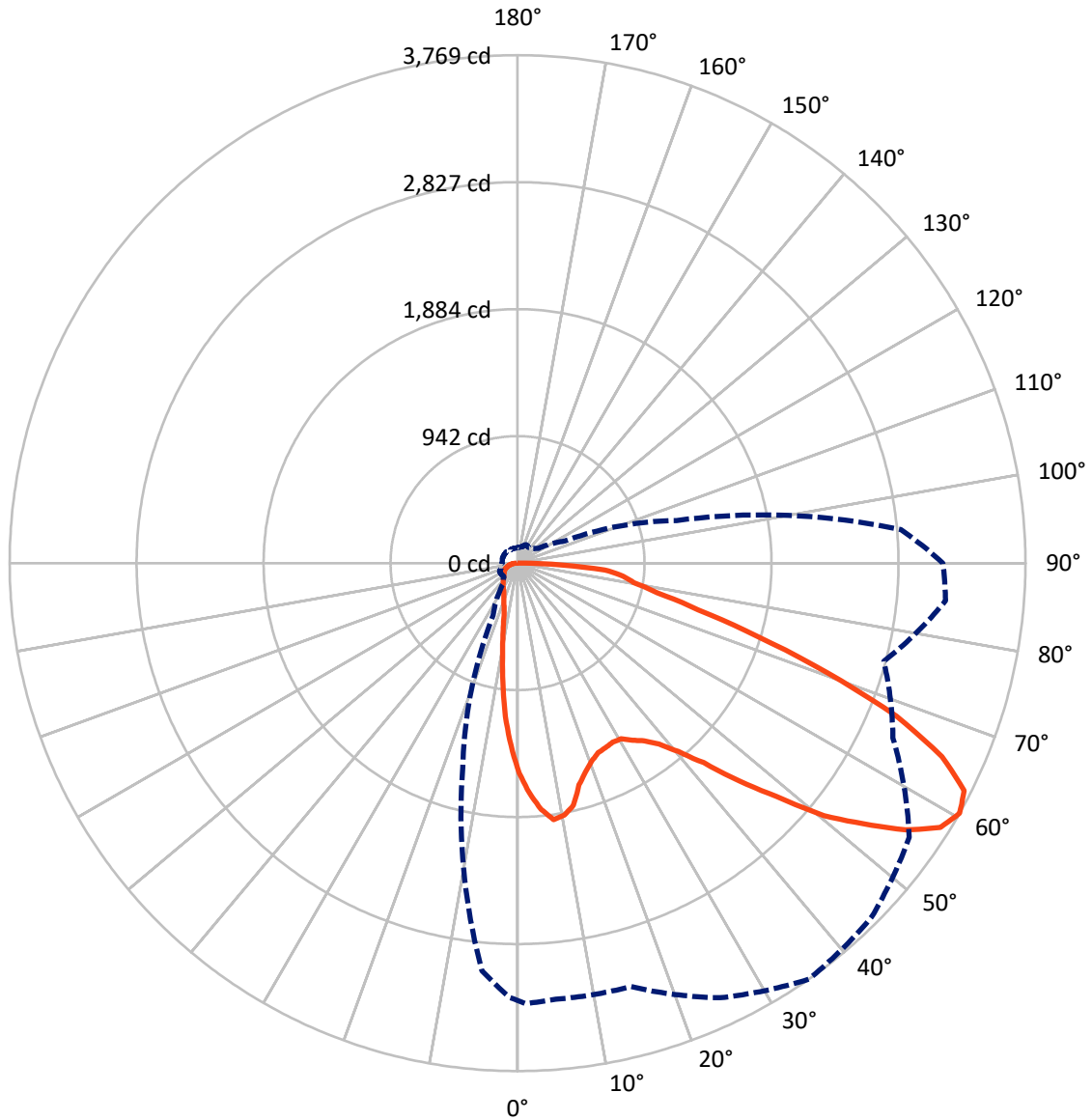
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P675915
CATALOG NUMBER: CCW-SA-2B-840-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675915
 CATALOG NUMBER: CCW-SA-2B-840-U-SLL

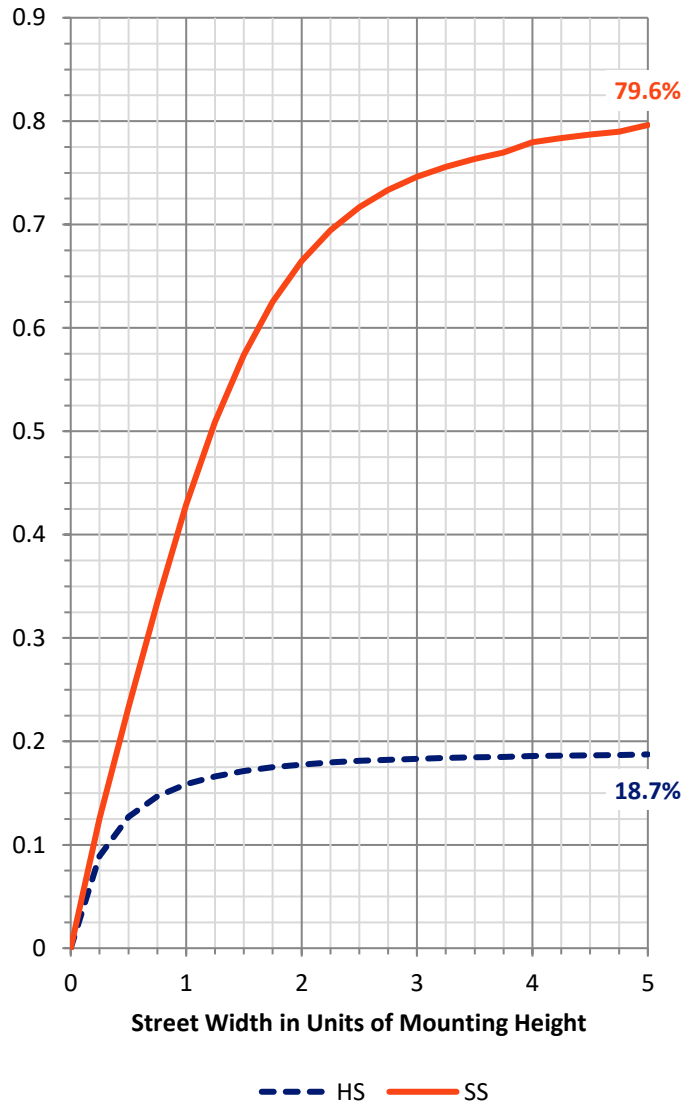
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.8	0.0	929.8
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	3955.8	0.0	3955.8
	% Fixture	81.0	0.0	81.0
Total	Lumens	4885.6	0.0	4885.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	2.5
10°-20°	255.9	5.2
20°-30°	374.5	7.7
30°-40°	527.6	10.8
40°-50°	725.1	14.8
50°-60°	988.2	20.2
60°-70°	1081.6	22.1
70°-80°	624.4	12.8
80°-90°	187.0	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°	4885.6	100.0
0°-180°	4885.6	100.0



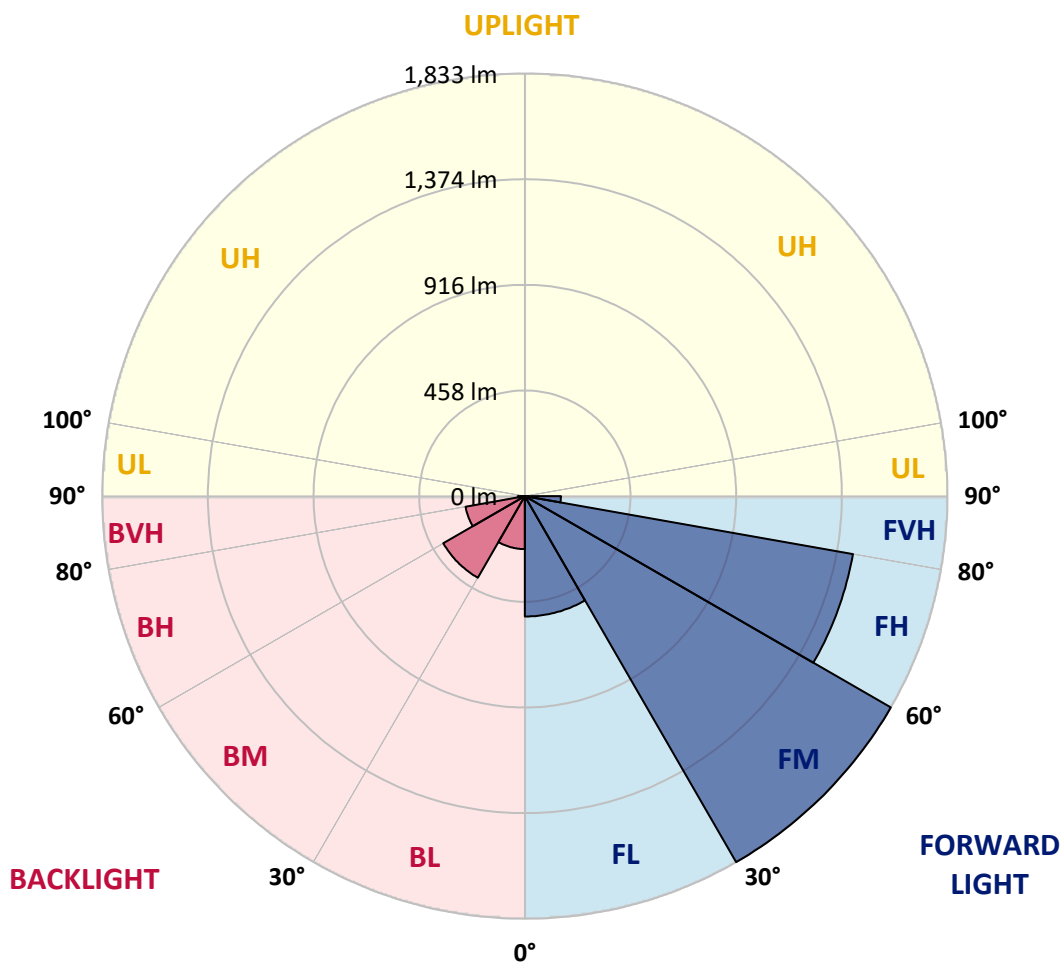
REPORT NUMBER: P675915
 CATALOG NUMBER: CCW-SA-2B-840-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.9	10.7			
FM (30°-60°)	1832.5	37.5			
FH (60°-80°)	1444.9	29.6			G1/1800
FVH (80°-90°)	156.5	3.2			G2/225
BL (0°-30°)	229.7	4.7	B1/500		
BM (30°-60°)	408.4	8.4	B1/1000		
BH (60°-80°)	261.2	5.3	B1/500		G1/500
BVH (80°-90°)	30.5	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: P675915

CATALOG NUMBER: CCW-SA-2B-840-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1671.0	1664.5	1671.0	1694.8	1701.3	1712.1	1712.1	1697.0	1668.8	1655.8	1634.1
5°	1707.8	1697.0	1751.2	1801.0	1840.0	1835.7	1798.8	1768.5	1712.1	1627.6	1547.4
7.5°	1634.1	1645.0	1684.0	1814.0	1905.0	1922.4	1863.9	1803.2	1681.8	1564.8	1456.4
10°	1495.4	1510.6	1595.1	1729.5	1872.5	1900.7	1863.9	1790.2	1645.0	1499.8	1374.1
12.5°	1428.2	1462.9	1512.8	1675.3	1777.2	1844.4	1827.0	1779.3	1616.8	1445.6	1324.2
15°	1428.2	1436.9	1510.6	1647.1	1705.6	1707.8	1714.3	1723.0	1625.5	1469.4	1306.9
17.5°	1473.7	1497.6	1560.4	1645.0	1655.8	1629.8	1629.8	1666.6	1642.8	1536.6	1369.7
20°	1584.3	1575.6	1658.0	1692.6	1634.1	1569.1	1562.6	1625.5	1662.3	1608.1	1484.6
22.5°	1694.8	1733.8	1801.0	1723.0	1614.6	1527.9	1519.3	1597.3	1720.8	1731.7	1616.8
25°	1861.7	1900.7	1935.4	1840.0	1612.5	1517.1	1523.6	1584.3	1792.3	1907.2	1837.9
27.5°	2041.6	2065.4	2115.3	1967.9	1664.5	1504.1	1510.6	1601.6	1859.5	2022.1	2011.2
30°	2143.4	2169.4	2158.6	1991.7	1699.1	1512.8	1495.4	1625.5	1822.7	2022.1	2123.9
32.5°	2243.1	2228.0	2221.5	2030.7	1742.5	1566.9	1523.6	1675.3	1844.4	2054.6	2269.1
35°	2364.5	2342.8	2325.5	2106.6	1814.0	1619.0	1599.4	1740.3	1892.0	2121.8	2386.2
37.5°	2498.9	2498.9	2414.3	2162.9	1898.5	1703.5	1681.8	1833.5	1967.9	2162.9	2546.5
40°	2657.1	2663.6	2514.0	2238.8	1993.9	1837.9	1831.3	1954.9	2041.6	2223.6	2700.4
42.5°	2774.1	2778.4	2600.7	2267.0	2104.4	2024.2	2052.4	2149.9	2126.1	2277.8	2711.3
45°	2854.3	2832.6	2661.4	2347.2	2225.8	2303.8	2312.5	2340.7	2236.6	2310.3	2754.6
47.5°	2893.3	2889.0	2687.4	2440.4	2481.5	2587.7	2637.6	2598.6	2338.5	2275.6	2754.6
50°	2932.3	2895.5	2711.3	2568.2	2730.8	2945.3	2934.5	2863.0	2479.4	2319.0	2713.4
52.5°	2958.3	2925.8	2758.9	2683.1	2969.2	3211.9	3255.2	3123.0	2644.1	2399.2	2732.9
55°	3051.5	3025.5	2902.0	2839.1	3244.4	3493.6	3500.2	3315.9	2817.5	2531.4	2860.8
57.5°	3164.2	3179.4	3099.2	3060.2	3454.6	3699.5	3675.7	3459.0	2964.8	2691.8	3008.2
60°	3244.4	3268.3	3248.7	3253.1	3558.7	3768.9	3714.7	3547.8	3073.2	2813.1	3188.1
62.5°	3201.1	3248.7	3328.9	3311.6	3563.0	3719.0	3643.2	3430.8	3086.2	2971.3	3324.6
65°	3081.9	3086.2	3242.2	3337.6	3367.9	3461.1	3361.4	3185.9	2951.8	3068.9	3305.1
67.5°	2776.3	2811.0	2951.8	3138.2	3010.3	3032.0	3023.4	2769.8	2748.1	3001.7	3155.6
70°	2451.2	2475.0	2628.9	2847.8	2542.2	2440.4	2459.9	2271.3	2360.2	2793.6	2854.3
72.5°	2026.4	2041.6	2217.1	2410.0	2039.4	1857.4	1902.9	1749.0	1874.7	2444.7	2407.8
75°	1530.1	1558.3	1694.8	1922.4	1501.9	1384.9	1430.4	1367.6	1484.6	2013.4	1868.2
77.5°	1088.0	1066.3	1235.3	1504.1	1129.2	1059.8	1064.1	1075.0	1200.7	1697.0	1341.5
80°	741.2	747.7	899.4	1103.1	886.4	875.6	864.7	951.4	1007.8	1343.7	975.3
82.5°	440.0	440.0	606.8	784.6	700.0	788.9	739.0	817.1	788.9	988.3	639.3
85°	205.9	205.9	312.1	565.7	541.8	650.2	552.7	617.7	583.0	689.2	288.2
87.5°	34.7	30.3	62.9	277.4	223.2	253.6	99.7	329.4	366.3	481.1	71.5
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: P675915
 CATALOG NUMBER: CCW-SA-2B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1610.3	1595.1	1564.8	1525.8	1493.3	1452.1	1439.1	1410.9	1371.9	1367.6	1350.2
5°	1517.1	1465.1	1400.1	1319.9	1265.7	1209.3	1161.7	1133.5	1101.0	1096.6	1088.0
7.5°	1415.2	1350.2	1241.8	1146.5	1053.3	964.4	921.1	866.9	830.1	801.9	788.9
10°	1319.9	1259.2	1124.8	994.8	912.4	853.9	801.9	745.5	700.0	665.4	652.4
12.5°	1257.0	1185.5	1040.3	916.8	856.1	788.9	730.4	669.7	611.2	565.7	541.8
15°	1228.8	1161.7	1014.3	877.7	788.9	695.7	628.5	567.8	496.3	463.8	453.0
17.5°	1296.0	1196.3	1005.6	832.2	706.5	600.3	518.0	453.0	400.9	368.4	355.4
20°	1382.7	1259.2	1020.8	778.1	628.5	509.3	418.3	348.9	314.3	290.4	288.2
22.5°	1493.3	1352.4	1044.6	739.0	541.8	409.6	327.3	286.1	262.2	260.1	255.7
25°	1690.5	1521.4	1083.6	687.0	472.5	338.1	279.6	255.7	244.9	238.4	242.7
27.5°	1859.5	1632.0	1111.8	654.5	444.3	318.6	270.9	244.9	234.1	231.9	234.1
30°	1959.2	1733.8	1103.1	593.8	387.9	303.4	288.2	279.6	257.9	240.6	240.6
32.5°	2050.2	1798.8	1101.0	539.7	331.6	253.6	240.6	234.1	247.1	255.7	249.2
35°	2175.9	1900.7	1094.5	509.3	307.8	234.1	212.4	195.1	186.4	182.1	188.6
37.5°	2310.3	1970.1	1077.1	505.0	294.7	223.2	205.9	188.6	179.9	175.5	173.4
40°	2457.7	2043.7	1057.6	483.3	288.2	216.7	199.4	184.2	173.4	166.9	164.7
42.5°	2553.1	2102.3	1038.1	472.5	275.2	212.4	192.9	179.9	169.0	160.4	160.4
45°	2607.2	2171.6	1018.6	461.6	260.1	214.6	192.9	175.5	162.5	158.2	153.9
47.5°	2631.1	2223.6	1012.1	444.3	247.1	205.9	188.6	171.2	158.2	149.5	147.4
50°	2693.9	2334.2	1036.0	431.3	231.9	197.2	199.4	169.0	156.0	145.2	143.0
52.5°	2730.8	2423.0	1088.0	411.8	221.1	186.4	195.1	164.7	149.5	138.7	138.7
55°	2865.1	2570.4	1144.3	396.6	208.1	171.2	179.9	156.0	138.7	132.2	132.2
57.5°	3036.4	2726.4	1192.0	390.1	199.4	160.4	160.4	151.7	132.2	123.5	121.4
60°	3155.6	2854.3	1220.2	385.8	190.7	149.5	143.0	151.7	125.7	117.0	114.9
62.5°	3168.6	2780.6	1192.0	383.6	188.6	138.7	130.0	145.2	119.2	110.5	106.2
65°	3086.2	2631.1	1114.0	374.9	186.4	127.9	121.4	125.7	110.5	104.0	99.7
67.5°	2921.5	2388.3	1001.3	370.6	184.2	119.2	110.5	108.4	101.9	95.4	91.0
70°	2537.9	2071.9	869.1	351.1	179.9	112.7	99.7	97.5	91.0	86.7	84.5
72.5°	2130.4	1694.8	717.4	325.1	171.2	101.9	91.0	86.7	84.5	78.0	75.9
75°	1632.0	1304.7	574.3	288.2	149.5	91.0	80.2	75.9	73.7	69.4	67.2
77.5°	1146.5	970.9	424.8	234.1	125.7	82.4	71.5	67.2	65.0	58.5	58.5
80°	778.1	680.5	288.2	162.5	97.5	67.2	62.9	58.5	54.2	49.8	49.8
82.5°	483.3	476.8	208.1	106.2	71.5	54.2	49.8	49.8	43.3	39.0	39.0
85°	221.1	292.6	145.2	73.7	54.2	41.2	41.2	39.0	34.7	28.2	28.2
87.5°	69.4	97.5	75.9	32.5	30.3	23.8	23.8	21.7	21.7	17.3	17.3
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: P675915
 CATALOG NUMBER: CCW-SA-2B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1367.6	1365.4	1365.4	1356.7	1378.4	1378.4	1391.4	1380.6	1387.1	1389.2	1406.6
5°	1085.8	1103.1	1116.1	1142.2	1157.3	1163.8	1163.8	1181.2	1174.7	1187.7	1213.7
7.5°	795.4	817.1	856.1	888.6	914.6	923.3	921.1	925.4	931.9	916.8	921.1
10°	643.7	628.5	641.5	671.9	695.7	723.9	702.2	700.0	706.5	700.0	713.0
12.5°	537.5	520.1	509.3	509.3	526.6	539.7	533.1	544.0	567.8	574.3	589.5
15°	435.6	420.5	411.8	400.9	418.3	422.6	429.1	444.3	461.6	470.3	487.6
17.5°	348.9	348.9	348.9	340.3	346.8	353.3	355.4	374.9	377.1	385.8	392.3
20°	286.1	292.6	303.4	307.8	314.3	314.3	309.9	320.8	312.1	318.6	322.9
22.5°	257.9	266.6	270.9	273.1	281.7	283.9	273.1	275.2	277.4	270.9	273.1
25°	242.7	247.1	242.7	244.9	247.1	242.7	244.9	249.2	247.1	251.4	249.2
27.5°	236.2	231.9	229.7	227.6	227.6	223.2	225.4	225.4	229.7	231.9	231.9
30°	236.2	229.7	221.1	214.6	214.6	208.1	212.4	216.7	218.9	223.2	223.2
32.5°	242.7	229.7	214.6	208.1	201.6	197.2	201.6	208.1	216.7	218.9	221.1
35°	192.9	199.4	197.2	188.6	186.4	186.4	184.2	184.2	177.7	177.7	175.5
37.5°	173.4	171.2	175.5	177.7	179.9	173.4	173.4	164.7	162.5	164.7	164.7
40°	162.5	162.5	162.5	169.0	171.2	166.9	160.4	156.0	156.0	156.0	158.2
42.5°	158.2	153.9	151.7	156.0	162.5	158.2	151.7	149.5	149.5	151.7	151.7
45°	151.7	149.5	147.4	145.2	153.9	147.4	145.2	143.0	143.0	143.0	145.2
47.5°	145.2	143.0	138.7	138.7	140.9	138.7	136.5	136.5	136.5	140.9	140.9
50°	140.9	138.7	134.4	134.4	134.4	134.4	132.2	132.2	132.2	134.4	136.5
52.5°	134.4	132.2	130.0	127.9	127.9	127.9	127.9	127.9	127.9	130.0	132.2
55°	127.9	125.7	123.5	123.5	125.7	125.7	123.5	125.7	123.5	125.7	127.9
57.5°	121.4	119.2	117.0	119.2	121.4	119.2	119.2	119.2	119.2	119.2	121.4
60°	112.7	112.7	112.7	112.7	117.0	117.0	117.0	117.0	112.7	114.9	117.0
62.5°	108.4	106.2	106.2	108.4	110.5	110.5	112.7	110.5	108.4	110.5	110.5
65°	99.7	99.7	99.7	101.9	101.9	104.0	104.0	104.0	101.9	104.0	104.0
67.5°	93.2	93.2	93.2	93.2	97.5	97.5	97.5	97.5	95.4	95.4	97.5
70°	82.4	84.5	82.4	86.7	91.0	88.9	91.0	91.0	88.9	86.7	91.0
72.5°	75.9	75.9	75.9	75.9	82.4	82.4	82.4	84.5	82.4	80.2	82.4
75°	67.2	67.2	67.2	69.4	73.7	73.7	73.7	73.7	73.7	71.5	71.5
77.5°	58.5	60.7	58.5	60.7	65.0	62.9	65.0	67.2	65.0	62.9	62.9
80°	49.8	49.8	49.8	52.0	54.2	54.2	54.2	56.3	54.2	52.0	52.0
82.5°	39.0	39.0	41.2	41.2	43.3	43.3	43.3	45.5	43.3	41.2	41.2
85°	30.3	30.3	30.3	32.5	32.5	34.7	34.7	36.8	36.8	34.7	34.7
87.5°	19.5	17.3	19.5	19.5	21.7	21.7	19.5	17.3	19.5	17.3	15.2
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: P675915
 CATALOG NUMBER: CCW-SA-2B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4	1560.4
2.5°	1423.9	1462.9	1491.1	1510.6	1538.8	1592.9	1614.6	1653.6	1664.5	1671.0
5°	1224.5	1265.7	1326.4	1369.7	1419.6	1521.4	1599.4	1658.0	1684.0	1707.8
7.5°	960.1	1014.3	1077.1	1133.5	1215.8	1341.5	1443.4	1564.8	1610.3	1634.1
10°	749.9	799.7	869.1	938.4	1053.3	1159.5	1304.7	1415.2	1478.1	1495.4
12.5°	632.8	691.4	773.7	858.2	929.8	1051.1	1198.5	1358.9	1417.4	1428.2
15°	537.5	617.7	702.2	788.9	871.2	977.4	1135.7	1330.7	1417.4	1428.2
17.5°	444.3	515.8	615.5	708.7	804.1	949.3	1146.5	1354.5	1441.2	1473.7
20°	353.3	422.6	500.6	617.7	747.7	901.6	1170.3	1434.7	1549.6	1584.3
22.5°	292.6	322.9	398.8	511.5	665.4	869.1	1194.2	1560.4	1681.8	1694.8
25°	255.7	277.4	325.1	431.3	600.3	847.4	1250.5	1705.6	1861.7	1861.7
27.5°	238.4	247.1	279.6	374.9	554.8	827.9	1306.9	1866.0	2011.2	2041.6
30°	234.1	255.7	273.1	333.8	505.0	773.7	1358.9	1991.7	2141.3	2143.4
32.5°	229.7	225.4	238.4	290.4	444.3	717.4	1402.2	2119.6	2236.6	2243.1
35°	179.9	188.6	210.2	255.7	398.8	676.2	1423.9	2188.9	2358.0	2364.5
37.5°	169.0	179.9	197.2	236.2	368.4	641.5	1430.4	2323.3	2485.9	2498.9
40°	164.7	173.4	186.4	218.9	344.6	598.2	1443.4	2462.0	2674.4	2657.1
42.5°	156.0	166.9	179.9	210.2	325.1	565.7	1445.6	2537.9	2774.1	2774.1
45°	153.9	160.4	175.5	210.2	303.4	537.5	1410.9	2613.7	2889.0	2854.3
47.5°	145.2	158.2	171.2	203.7	277.4	509.3	1369.7	2652.7	2904.2	2893.3
50°	143.0	156.0	177.7	192.9	262.2	496.3	1361.0	2750.3	2934.5	2932.3
52.5°	138.7	151.7	184.2	184.2	242.7	479.0	1402.2	2793.6	2941.0	2958.3
55°	132.2	151.7	171.2	169.0	225.4	457.3	1447.7	2906.3	3055.9	3051.5
57.5°	127.9	147.4	162.5	153.9	205.9	442.1	1514.9	3014.7	3194.6	3164.2
60°	121.4	147.4	145.2	143.0	190.7	429.1	1571.3	3036.4	3224.9	3244.4
62.5°	117.0	153.9	127.9	132.2	177.7	422.6	1547.4	2873.8	3183.7	3201.1
65°	112.7	132.2	117.0	121.4	173.4	409.6	1454.2	2678.8	3006.0	3081.9
67.5°	104.0	108.4	108.4	112.7	169.0	379.3	1263.5	2327.7	2735.1	2776.3
70°	95.4	97.5	97.5	104.0	164.7	344.6	1042.5	2013.4	2373.2	2451.2
72.5°	86.7	86.7	86.7	95.4	151.7	316.4	858.2	1547.4	1972.2	2026.4
75°	75.9	75.9	75.9	84.5	136.5	288.2	676.2	1150.8	1452.1	1530.1
77.5°	67.2	67.2	65.0	75.9	119.2	234.1	487.6	812.7	1023.0	1088.0
80°	56.3	54.2	54.2	60.7	93.2	169.0	314.3	574.3	713.0	741.2
82.5°	45.5	43.3	41.2	45.5	67.2	106.2	195.1	400.9	457.3	440.0
85°	43.3	45.5	36.8	34.7	47.7	69.4	123.5	247.1	205.9	205.9
87.5°	17.3	15.2	15.2	13.0	23.8	26.0	54.2	45.5	34.7	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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