

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: P675847

Luminaire Tested: **CCW-SA-1F-740-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675847
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-740-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SLL distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

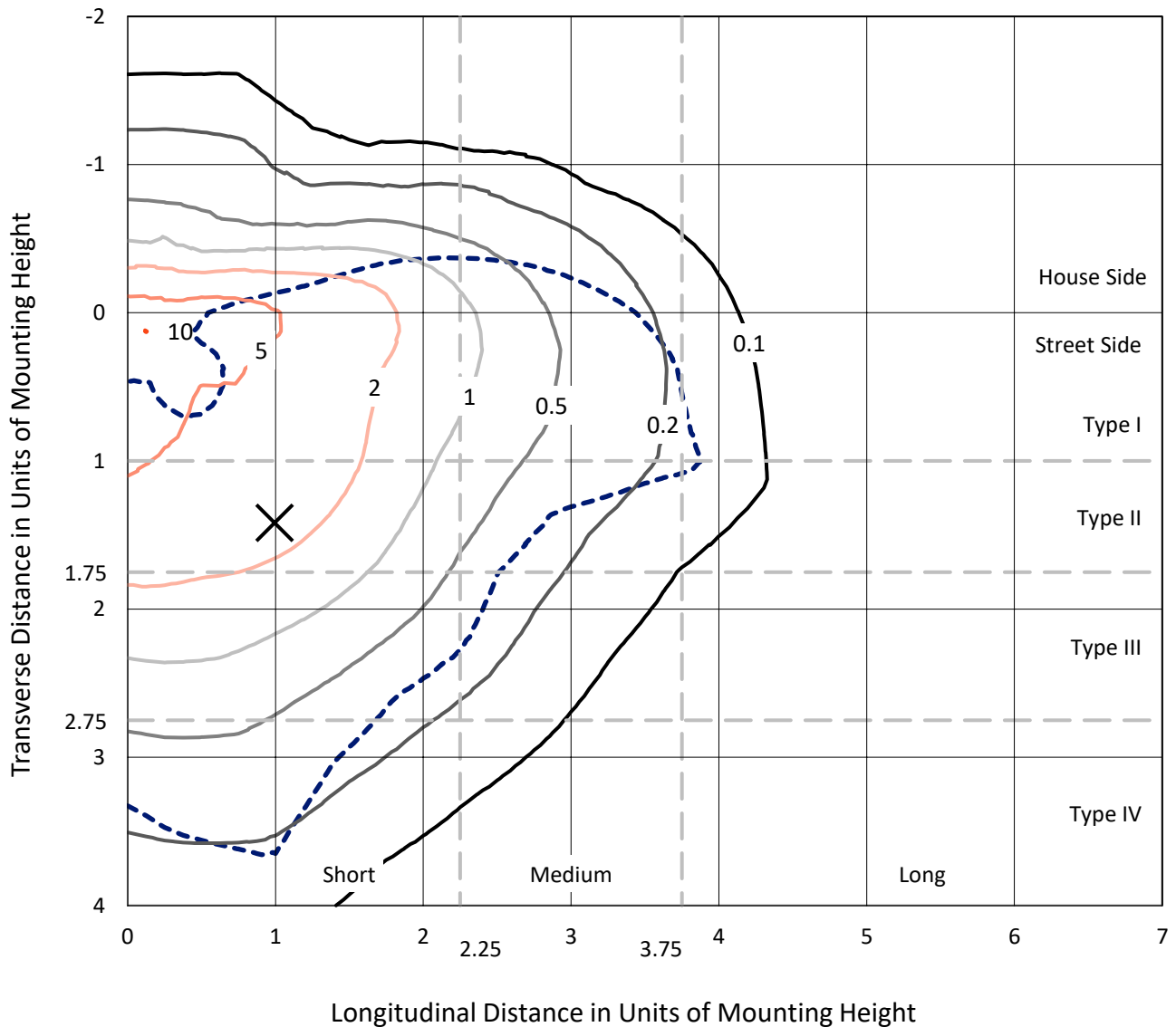
Lumens per Lamp: N/A
Luminaire Lumens: 6221 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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: P675847
 CATALOG NUMBER: CCW-SA-1F-740-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

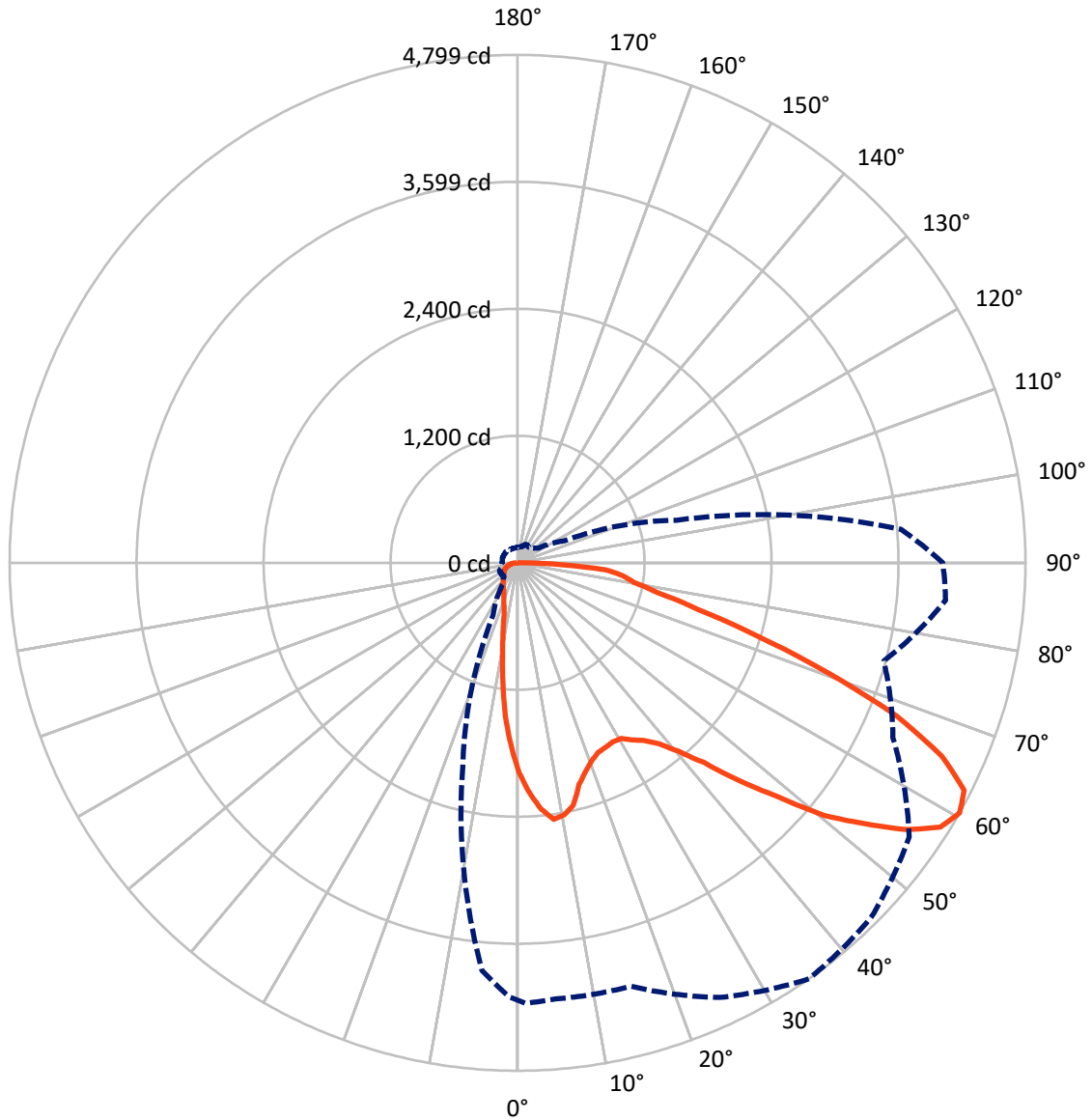
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P675847
CATALOG NUMBER: CCW-SA-1F-740-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675847
 CATALOG NUMBER: CCW-SA-1F-740-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1183.9	0.0	1183.9
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	5037.1	0.0	5037.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	6221.0	0.0	6221.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	2.5
10°-20°	325.9	5.2
20°-30°	476.8	7.7
30°-40°	671.8	10.8
40°-50°	923.3	14.8
50°-60°	1258.4	20.2
60°-70°	1377.2	22.1
70°-80°	795.1	12.8
80°-90°	238.1	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°	6221.0	100.0
0°-180°	6221.0	100.0

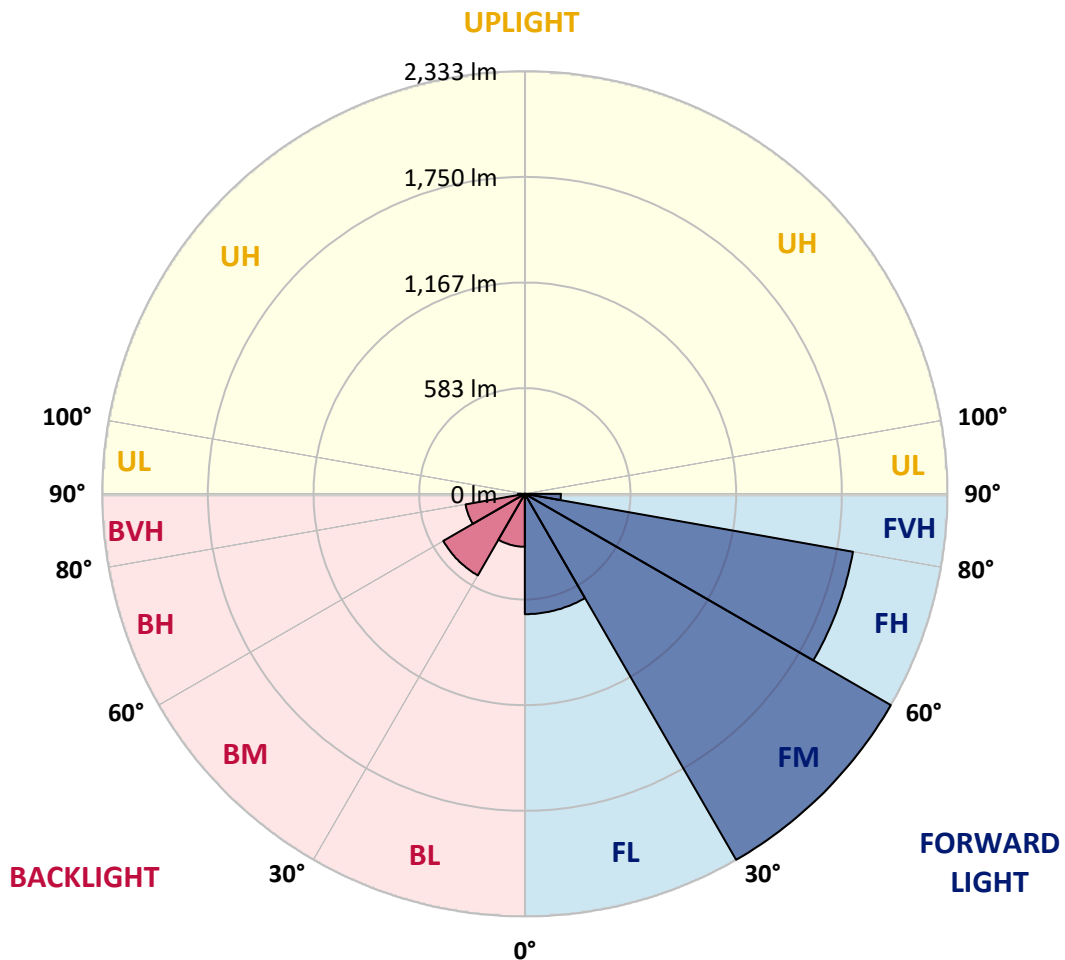


REPORT NUMBER: P675847
 CATALOG NUMBER: CCW-SA-1F-740-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.6	10.7			
FM (30°-60°)	2333.4	37.5			
FH (60°-80°)	1839.8	29.6			G2/5000
FVH (80°-90°)	199.3	3.2			G2/225
BL (0°-30°)	292.5	4.7	B1/500		
BM (30°-60°)	520.1	8.4	B1/1000		
BH (60°-80°)	332.5	5.3	B1/500		G1/500
BVH (80°-90°)	38.8	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: P675847

CATALOG NUMBER: CCW-SA-1F-740-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2127.7	2119.4	2127.7	2158.1	2166.3	2180.1	2180.1	2160.8	2124.9	2108.4	2080.8
5°	2174.6	2160.8	2229.8	2293.3	2343.0	2337.4	2290.5	2251.9	2180.1	2072.5	1970.4
7.5°	2080.8	2094.6	2144.3	2309.8	2425.7	2447.8	2373.3	2296.0	2141.5	1992.5	1854.5
10°	1904.2	1923.5	2031.1	2202.2	2384.4	2420.2	2373.3	2279.5	2094.6	1909.7	1749.6
12.5°	1818.6	1862.8	1926.2	2133.2	2262.9	2348.5	2326.4	2265.7	2058.7	1840.7	1686.2
15°	1818.6	1829.7	1923.5	2097.3	2171.9	2174.6	2182.9	2193.9	2069.7	1871.1	1664.1
17.5°	1876.6	1906.9	1987.0	2094.6	2108.4	2075.3	2075.3	2122.2	2091.8	1956.6	1744.1
20°	2017.3	2006.3	2111.1	2155.3	2080.8	1998.0	1989.7	2069.7	2116.7	2047.7	1890.4
22.5°	2158.1	2207.7	2293.3	2193.9	2056.0	1945.6	1934.5	2033.9	2191.2	2205.0	2058.7
25°	2370.6	2420.2	2464.4	2343.0	2053.2	1931.8	1940.0	2017.3	2282.2	2428.5	2340.2
27.5°	2599.6	2630.0	2693.4	2505.8	2119.4	1915.2	1923.5	2039.4	2367.8	2574.8	2561.0
30°	2729.3	2762.4	2748.6	2536.1	2163.6	1926.2	1904.2	2069.7	2320.9	2574.8	2704.5
32.5°	2856.3	2836.9	2828.7	2585.8	2218.8	1995.2	1940.0	2133.2	2348.5	2616.2	2889.4
35°	3010.8	2983.2	2961.1	2682.4	2309.8	2061.5	2036.6	2216.0	2409.2	2701.7	3038.4
37.5°	3181.9	3181.9	3074.3	2754.1	2417.5	2169.1	2141.5	2334.7	2505.8	2754.1	3242.6
40°	3383.3	3391.6	3201.2	2850.7	2538.9	2340.2	2331.9	2489.2	2599.6	2831.4	3438.5
42.5°	3532.4	3537.9	3311.6	2886.6	2679.6	2577.5	2613.4	2737.6	2707.2	2900.4	3452.3
45°	3634.5	3606.9	3388.9	2988.7	2834.2	2933.5	2944.6	2980.4	2848.0	2941.8	3507.5
47.5°	3684.2	3678.6	3422.0	3107.4	3159.8	3295.0	3358.5	3308.8	2977.7	2897.6	3507.5
50°	3733.8	3686.9	3452.3	3270.2	3477.2	3750.4	3736.6	3645.5	3157.1	2952.8	3455.1
52.5°	3766.9	3725.5	3513.1	3416.5	3780.7	4089.8	4145.0	3976.7	3366.8	3054.9	3479.9
55°	3885.6	3852.5	3695.2	3615.2	4131.2	4448.6	4456.9	4222.3	3587.6	3223.3	3642.8
57.5°	4029.1	4048.4	3946.3	3896.6	4398.9	4710.7	4680.4	4404.4	3775.2	3427.5	3830.4
60°	4131.2	4161.6	4136.7	4142.3	4531.4	4799.1	4730.1	4517.6	3913.2	3582.0	4059.5
62.5°	4076.0	4136.7	4238.8	4216.8	4536.9	4735.6	4639.0	4368.5	3929.8	3783.5	4233.3
65°	3924.2	3929.8	4128.5	4249.9	4288.5	4407.2	4280.2	4056.7	3758.7	3907.7	4208.5
67.5°	3535.1	3579.3	3758.7	3996.0	3833.2	3860.8	3849.7	3526.9	3499.3	3822.1	4018.1
70°	3121.2	3151.5	3347.5	3626.2	3237.1	3107.4	3132.2	2892.1	3005.3	3557.2	3634.5
72.5°	2580.3	2599.6	2823.1	3068.7	2596.8	2365.0	2423.0	2227.0	2387.1	3112.9	3066.0
75°	1948.3	1984.2	2158.1	2447.8	1912.4	1763.4	1821.4	1741.3	1890.4	2563.7	2378.8
77.5°	1385.4	1357.8	1573.0	1915.2	1437.8	1349.5	1355.0	1368.8	1528.9	2160.8	1708.2
80°	943.8	952.1	1145.3	1404.7	1128.7	1114.9	1101.1	1211.5	1283.2	1711.0	1241.8
82.5°	560.2	560.2	772.7	999.0	891.4	1004.5	941.0	1040.4	1004.5	1258.4	814.1
85°	262.2	262.2	397.4	720.3	689.9	827.9	703.7	786.5	742.3	877.6	367.0
87.5°	44.2	38.6	80.0	353.2	284.2	322.9	126.9	419.5	466.4	612.6	91.1
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: P675847
 CATALOG NUMBER: CCW-SA-1F-740-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2050.4	2031.1	1992.5	1942.8	1901.4	1849.0	1832.4	1796.5	1746.9	1741.3	1719.3
5°	1931.8	1865.5	1782.7	1680.6	1611.6	1539.9	1479.2	1443.3	1401.9	1396.4	1385.4
7.5°	1802.1	1719.3	1581.3	1459.9	1341.2	1228.1	1172.9	1103.9	1057.0	1021.1	1004.5
10°	1680.6	1603.4	1432.3	1266.7	1161.8	1087.3	1021.1	949.3	891.4	847.2	830.7
12.5°	1600.6	1509.5	1324.6	1167.3	1090.1	1004.5	930.0	852.7	778.2	720.3	689.9
15°	1564.7	1479.2	1291.5	1117.7	1004.5	885.9	800.3	723.0	632.0	590.6	576.8
17.5°	1650.3	1523.3	1280.5	1059.7	899.7	764.4	659.6	576.8	510.5	469.1	452.6
20°	1760.7	1603.4	1299.8	990.7	800.3	648.5	532.6	444.3	400.2	369.8	367.0
22.5°	1901.4	1722.0	1330.2	941.0	689.9	521.6	416.7	364.3	333.9	331.2	325.6
25°	2152.5	1937.3	1379.8	874.8	601.6	430.5	356.0	325.6	311.8	303.6	309.1
27.5°	2367.8	2078.0	1415.7	833.4	565.7	405.7	345.0	311.8	298.0	295.3	298.0
30°	2494.7	2207.7	1404.7	756.1	494.0	386.4	367.0	356.0	328.4	306.3	306.3
32.5°	2610.6	2290.5	1401.9	687.2	422.2	322.9	306.3	298.0	314.6	325.6	317.4
35°	2770.7	2420.2	1393.6	648.5	391.9	298.0	270.4	248.4	237.3	231.8	240.1
37.5°	2941.8	2508.5	1371.6	643.0	375.3	284.2	262.2	240.1	229.1	223.5	220.8
40°	3129.5	2602.4	1346.7	615.4	367.0	276.0	253.9	234.6	220.8	212.5	209.7
42.5°	3250.9	2676.9	1321.9	601.6	350.5	270.4	245.6	229.1	215.3	204.2	204.2
45°	3319.9	2765.2	1297.0	587.8	331.2	273.2	245.6	223.5	207.0	201.5	195.9
47.5°	3350.2	2831.4	1288.8	565.7	314.6	262.2	240.1	218.0	201.5	190.4	187.7
50°	3430.3	2972.2	1319.1	549.2	295.3	251.1	253.9	215.3	198.7	184.9	182.1
52.5°	3477.2	3085.3	1385.4	524.3	281.5	237.3	248.4	209.7	190.4	176.6	176.6
55°	3648.3	3273.0	1457.1	505.0	264.9	218.0	229.1	198.7	176.6	168.3	168.3
57.5°	3866.3	3471.7	1517.8	496.7	253.9	204.2	204.2	193.2	168.3	157.3	154.5
60°	4018.1	3634.5	1553.7	491.2	242.9	190.4	182.1	193.2	160.1	149.0	146.3
62.5°	4034.6	3540.6	1517.8	488.5	240.1	176.6	165.6	184.9	151.8	140.7	135.2
65°	3929.8	3350.2	1418.5	477.4	237.3	162.8	154.5	160.1	140.7	132.5	126.9
67.5°	3720.0	3041.2	1275.0	471.9	234.6	151.8	140.7	138.0	129.7	121.4	115.9
70°	3231.6	2638.2	1106.6	447.1	229.1	143.5	126.9	124.2	115.9	110.4	107.6
72.5°	2712.8	2158.1	913.4	413.9	218.0	129.7	115.9	110.4	107.6	99.3	96.6
75°	2078.0	1661.3	731.3	367.0	190.4	115.9	102.1	96.6	93.8	88.3	85.5
77.5°	1459.9	1236.3	540.9	298.0	160.1	104.9	91.1	85.5	82.8	74.5	74.5
80°	990.7	866.5	367.0	207.0	124.2	85.5	80.0	74.5	69.0	63.5	63.5
82.5°	615.4	607.1	264.9	135.2	91.1	69.0	63.5	63.5	55.2	49.7	49.7
85°	281.5	372.6	184.9	93.8	69.0	52.4	52.4	49.7	44.2	35.9	35.9
87.5°	88.3	124.2	96.6	41.4	38.6	30.4	30.4	27.6	27.6	22.1	22.1
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: P675847
 CATALOG NUMBER: CCW-SA-1F-740-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1741.3	1738.6	1738.6	1727.6	1755.1	1755.1	1771.7	1757.9	1766.2	1768.9	1791.0
5°	1382.6	1404.7	1421.2	1454.3	1473.7	1481.9	1481.9	1504.0	1495.7	1512.3	1545.4
7.5°	1012.8	1040.4	1090.1	1131.5	1164.6	1175.6	1172.9	1178.4	1186.7	1167.3	1172.9
10°	819.6	800.3	816.9	855.5	885.9	921.7	894.1	891.4	899.7	891.4	907.9
12.5°	684.4	662.3	648.5	648.5	670.6	687.2	678.9	692.7	723.0	731.3	750.6
15°	554.7	535.4	524.3	510.5	532.6	538.1	546.4	565.7	587.8	598.8	620.9
17.5°	444.3	444.3	444.3	433.3	441.5	449.8	452.6	477.4	480.2	491.2	499.5
20°	364.3	372.6	386.4	391.9	400.2	400.2	394.6	408.4	397.4	405.7	411.2
22.5°	328.4	339.4	345.0	347.7	358.8	361.5	347.7	350.5	353.2	345.0	347.7
25°	309.1	314.6	309.1	311.8	314.6	309.1	311.8	317.4	314.6	320.1	317.4
27.5°	300.8	295.3	292.5	289.8	289.8	284.2	287.0	287.0	292.5	295.3	295.3
30°	300.8	292.5	281.5	273.2	273.2	264.9	270.4	276.0	278.7	284.2	284.2
32.5°	309.1	292.5	273.2	264.9	256.6	251.1	256.6	264.9	276.0	278.7	281.5
35°	245.6	253.9	251.1	240.1	237.3	237.3	234.6	234.6	226.3	226.3	223.5
37.5°	220.8	218.0	223.5	226.3	229.1	220.8	220.8	209.7	207.0	209.7	209.7
40°	207.0	207.0	207.0	215.3	218.0	212.5	204.2	198.7	198.7	198.7	201.5
42.5°	201.5	195.9	193.2	198.7	207.0	201.5	193.2	190.4	190.4	193.2	193.2
45°	193.2	190.4	187.7	184.9	195.9	187.7	184.9	182.1	182.1	182.1	184.9
47.5°	184.9	182.1	176.6	176.6	179.4	176.6	173.9	173.9	173.9	179.4	179.4
50°	179.4	176.6	171.1	171.1	171.1	171.1	168.3	168.3	168.3	171.1	173.9
52.5°	171.1	168.3	165.6	162.8	162.8	162.8	162.8	162.8	162.8	165.6	168.3
55°	162.8	160.1	157.3	157.3	160.1	160.1	157.3	160.1	157.3	160.1	162.8
57.5°	154.5	151.8	149.0	151.8	154.5	151.8	151.8	151.8	151.8	151.8	154.5
60°	143.5	143.5	143.5	143.5	149.0	149.0	149.0	149.0	143.5	146.3	149.0
62.5°	138.0	135.2	135.2	138.0	140.7	140.7	143.5	140.7	138.0	140.7	140.7
65°	126.9	126.9	126.9	129.7	129.7	132.5	132.5	132.5	129.7	132.5	132.5
67.5°	118.7	118.7	118.7	118.7	124.2	124.2	124.2	124.2	121.4	121.4	124.2
70°	104.9	107.6	104.9	110.4	115.9	113.1	115.9	115.9	113.1	110.4	115.9
72.5°	96.6	96.6	96.6	96.6	104.9	104.9	104.9	107.6	104.9	102.1	104.9
75°	85.5	85.5	85.5	88.3	93.8	93.8	93.8	93.8	93.8	91.1	91.1
77.5°	74.5	77.3	74.5	77.3	82.8	80.0	82.8	85.5	82.8	80.0	80.0
80°	63.5	63.5	63.5	66.2	69.0	69.0	69.0	71.8	69.0	66.2	66.2
82.5°	49.7	49.7	52.4	52.4	55.2	55.2	55.2	58.0	55.2	52.4	52.4
85°	38.6	38.6	38.6	41.4	41.4	44.2	44.2	46.9	46.9	44.2	44.2
87.5°	24.8	22.1	24.8	24.8	27.6	27.6	24.8	22.1	24.8	22.1	19.3
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: P675847
 CATALOG NUMBER: CCW-SA-1F-740-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1813.1	1862.8	1898.6	1923.5	1959.4	2028.4	2056.0	2105.6	2119.4	2127.7
5°	1559.2	1611.6	1688.9	1744.1	1807.6	1937.3	2036.6	2111.1	2144.3	2174.6
7.5°	1222.5	1291.5	1371.6	1443.3	1548.2	1708.2	1837.9	1992.5	2050.4	2080.8
10°	954.8	1018.3	1106.6	1194.9	1341.2	1476.4	1661.3	1802.1	1882.1	1904.2
12.5°	805.8	880.3	985.2	1092.8	1183.9	1338.4	1526.1	1730.3	1804.8	1818.6
15°	684.4	786.5	894.1	1004.5	1109.4	1244.6	1446.1	1694.4	1804.8	1818.6
17.5°	565.7	656.8	783.7	902.4	1023.8	1208.7	1459.9	1724.8	1835.2	1876.6
20°	449.8	538.1	637.5	786.5	952.1	1148.0	1490.2	1826.9	1973.2	2017.3
22.5°	372.6	411.2	507.8	651.3	847.2	1106.6	1520.6	1987.0	2141.5	2158.1
25°	325.6	353.2	413.9	549.2	764.4	1079.0	1592.3	2171.9	2370.6	2370.6
27.5°	303.6	314.6	356.0	477.4	706.5	1054.2	1664.1	2376.1	2561.0	2599.6
30°	298.0	325.6	347.7	425.0	643.0	985.2	1730.3	2536.1	2726.5	2729.3
32.5°	292.5	287.0	303.6	369.8	565.7	913.4	1785.5	2699.0	2848.0	2856.3
35°	229.1	240.1	267.7	325.6	507.8	861.0	1813.1	2787.3	3002.5	3010.8
37.5°	215.3	229.1	251.1	300.8	469.1	816.9	1821.4	2958.4	3165.3	3181.9
40°	209.7	220.8	237.3	278.7	438.8	761.7	1837.9	3135.0	3405.4	3383.3
42.5°	198.7	212.5	229.1	267.7	413.9	720.3	1840.7	3231.6	3532.4	3532.4
45°	195.9	204.2	223.5	267.7	386.4	684.4	1796.5	3328.2	3678.6	3634.5
47.5°	184.9	201.5	218.0	259.4	353.2	648.5	1744.1	3377.8	3698.0	3684.2
50°	182.1	198.7	226.3	245.6	333.9	632.0	1733.1	3502.0	3736.6	3733.8
52.5°	176.6	193.2	234.6	234.6	309.1	609.9	1785.5	3557.2	3744.9	3766.9
55°	168.3	193.2	218.0	215.3	287.0	582.3	1843.5	3700.7	3891.1	3885.6
57.5°	162.8	187.7	207.0	195.9	262.2	563.0	1929.0	3838.7	4067.7	4029.1
60°	154.5	187.7	184.9	182.1	242.9	546.4	2000.8	3866.3	4106.4	4131.2
62.5°	149.0	195.9	162.8	168.3	226.3	538.1	1970.4	3659.3	4053.9	4076.0
65°	143.5	168.3	149.0	154.5	220.8	521.6	1851.7	3410.9	3827.7	3924.2
67.5°	132.5	138.0	138.0	143.5	215.3	482.9	1608.9	2963.9	3482.7	3535.1
70°	121.4	124.2	124.2	132.5	209.7	438.8	1327.4	2563.7	3021.8	3121.2
72.5°	110.4	110.4	110.4	121.4	193.2	402.9	1092.8	1970.4	2511.3	2580.3
75°	96.6	96.6	96.6	107.6	173.9	367.0	861.0	1465.4	1849.0	1948.3
77.5°	85.5	85.5	82.8	96.6	151.8	298.0	620.9	1034.9	1302.6	1385.4
80°	71.8	69.0	69.0	77.3	118.7	215.3	400.2	731.3	907.9	943.8
82.5°	58.0	55.2	52.4	58.0	85.5	135.2	248.4	510.5	582.3	560.2
85°	55.2	58.0	46.9	44.2	60.7	88.3	157.3	314.6	262.2	262.2
87.5°	22.1	19.3	19.3	16.6	30.4	33.1	69.0	58.0	44.2	44.2
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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