

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: P677398

Luminaire Tested: **CCW-SA-1F-727-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677398
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

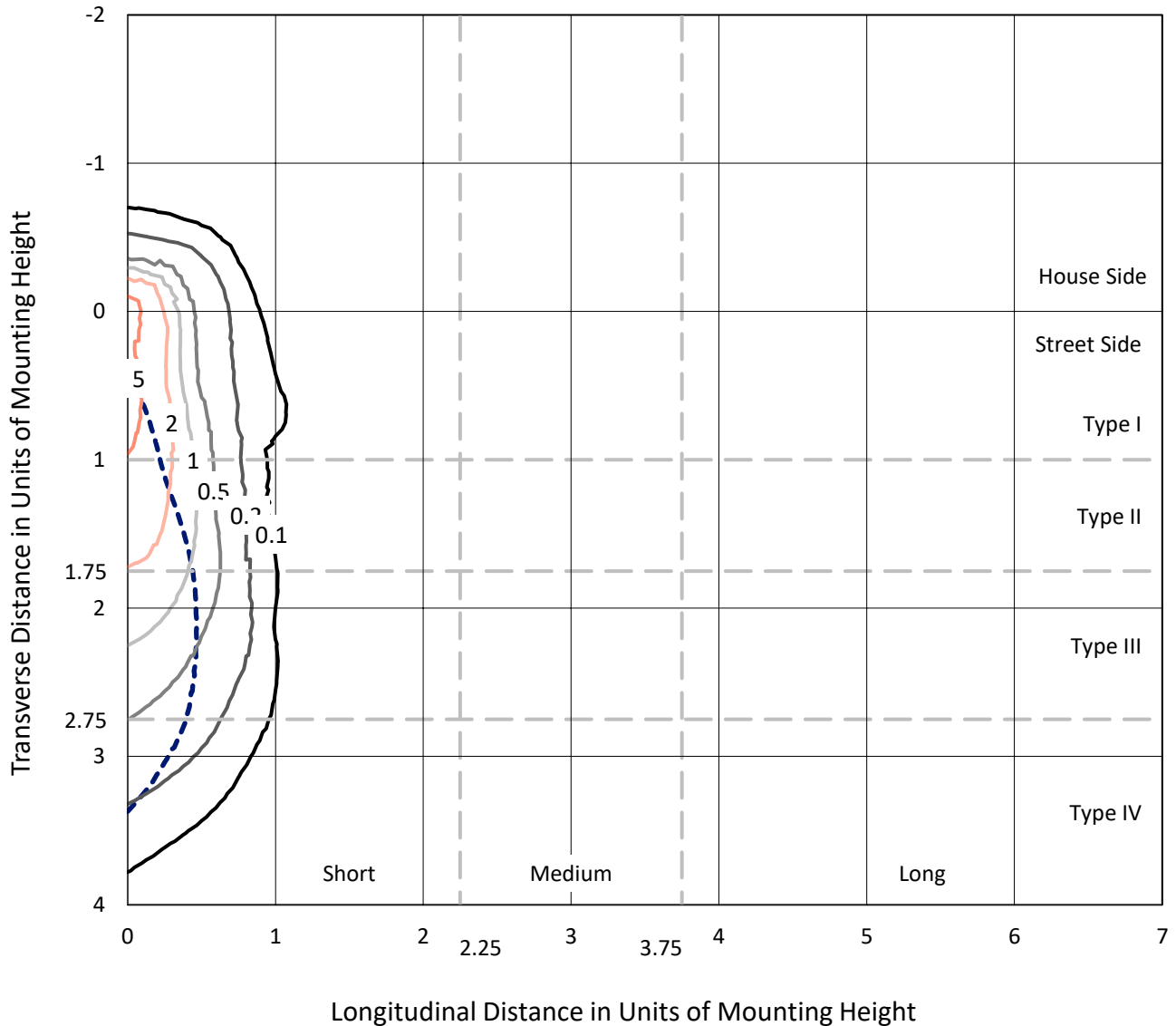
Input Watts (W): 67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P677398
 CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

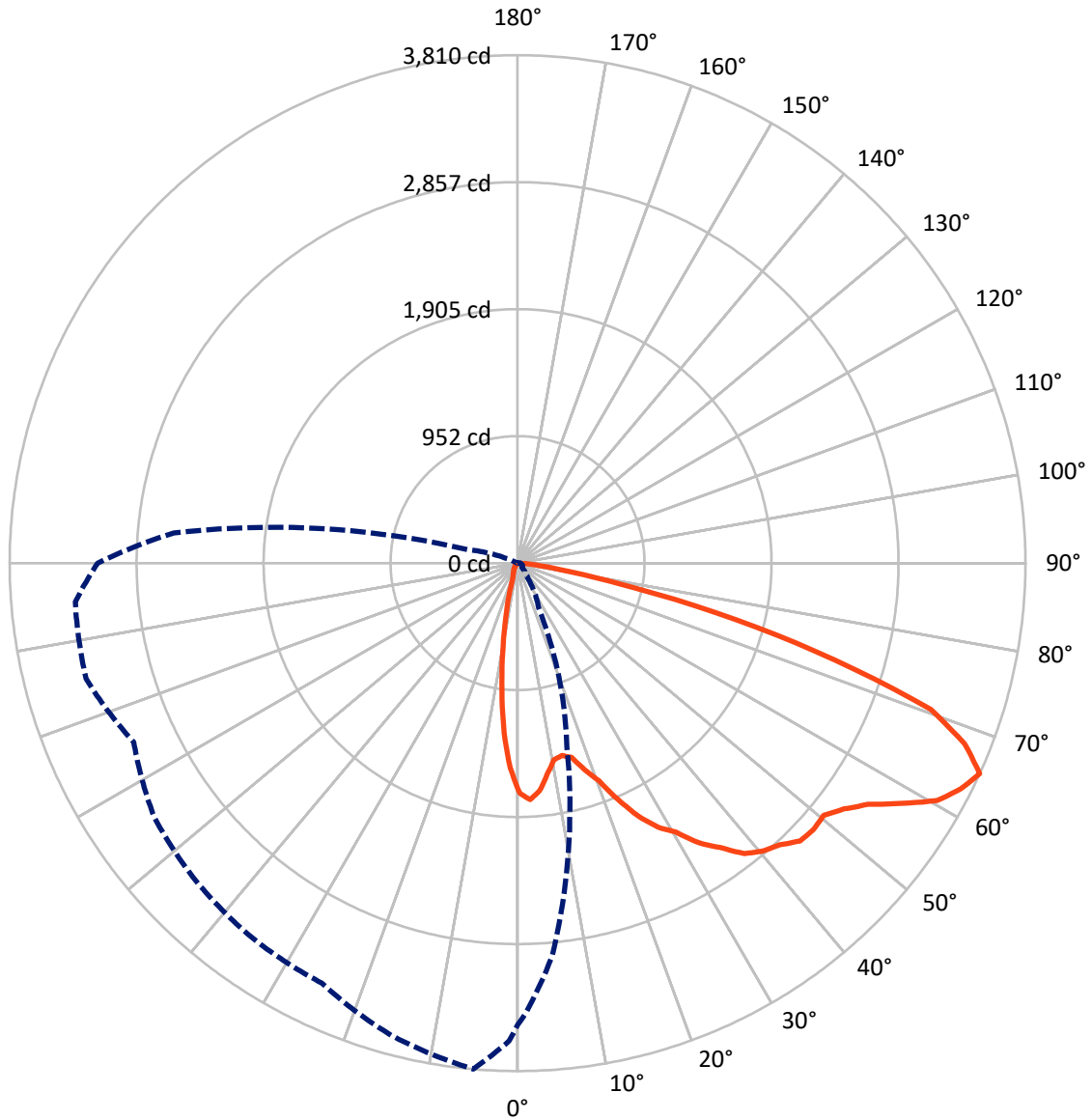
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P677398
CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P677398
 CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

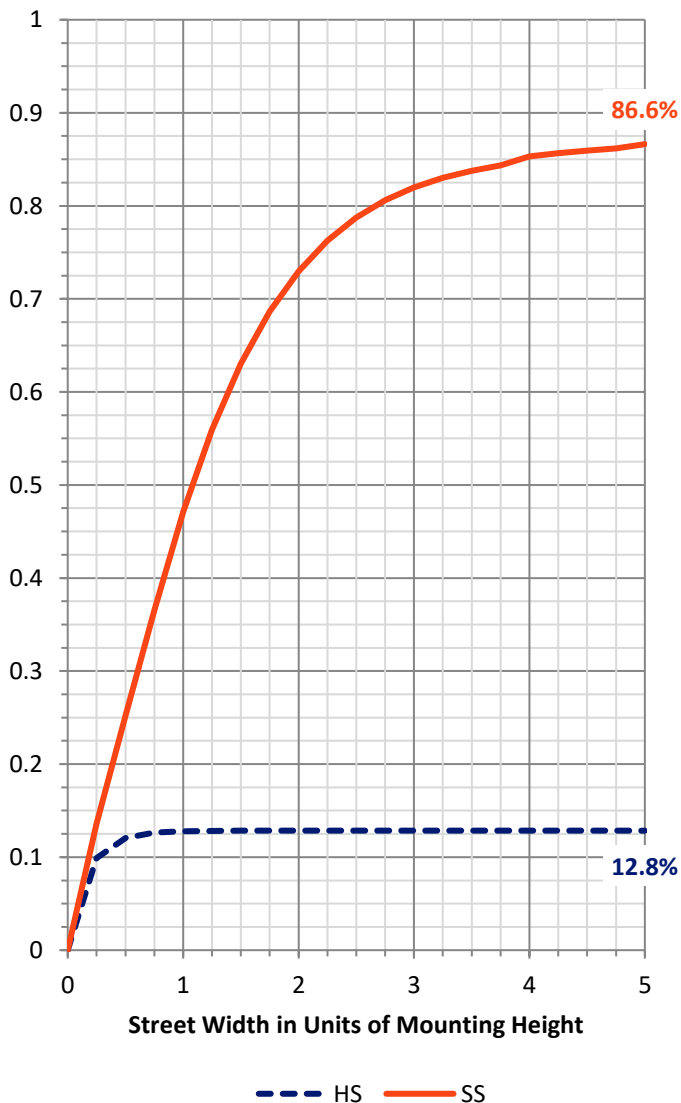
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.1	0.0	585.1
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	3921.0	0.0	3921.0
	% Fixture	87.0	0.0	87.0
Total	Lumens	4506.0	0.0	4506.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	2.9
10°-20°	252.7	5.6
20°-30°	351.9	7.8
30°-40°	500.0	11.1
40°-50°	693.4	15.4
50°-60°	944.8	21.0
60°-70°	1038.8	23.1
70°-80°	510.5	11.3
80°-90°	83.4	1.9
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°	4506.0	100.0
0°-180°	4506.0	100.0



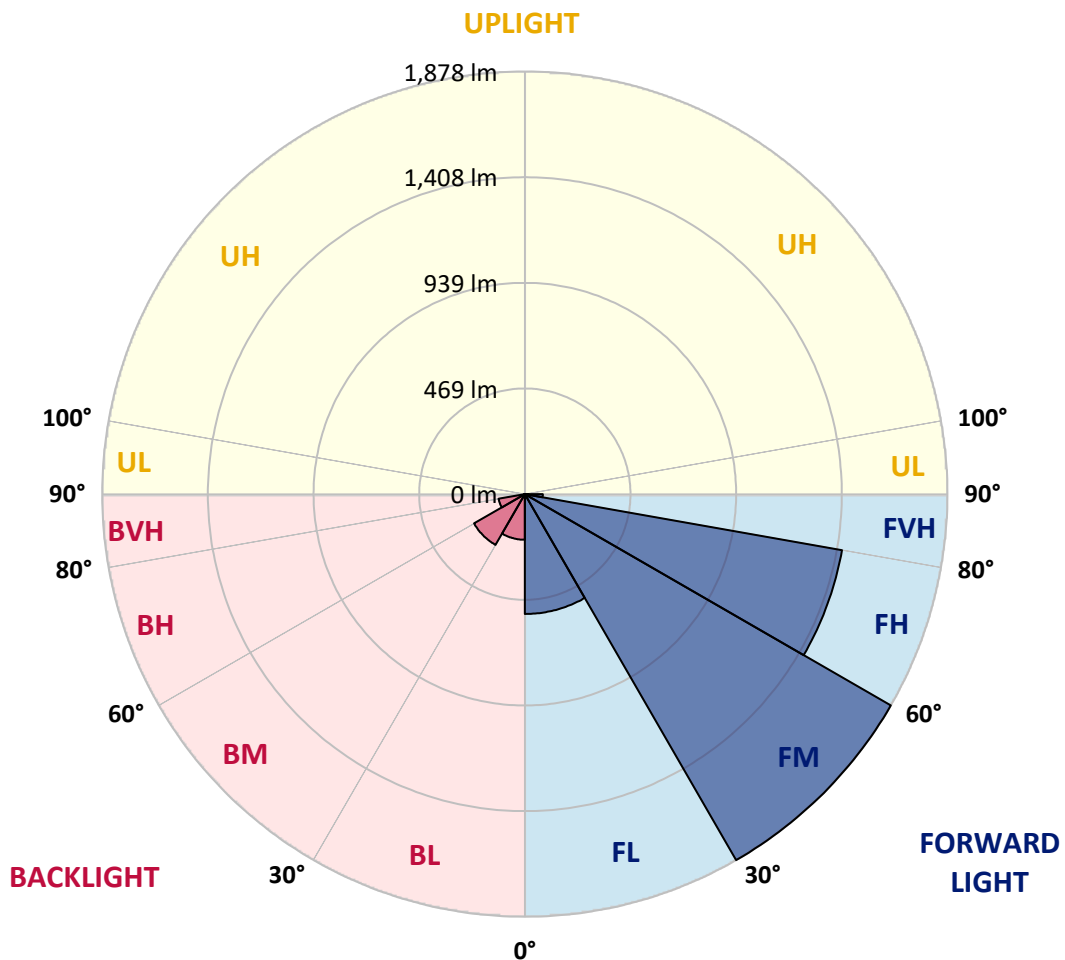
REPORT NUMBER: P677398
 CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.5	11.8			
FM (30°-60°)	1877.8	41.7			
FH (60°-80°)	1431.1	31.8			G1/1800
FVH (80°-90°)	79.6	1.8			G1/100
BL (0°-30°)	202.6	4.5	B1/500		
BM (30°-60°)	260.5	5.8	B1/1000		
BH (60°-80°)	118.2	2.6	B1/500		G1/500
BVH (80°-90°)	3.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P677398

CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7
2.5°	1757.9	1778.5	1759.1	1691.1	1678.9	1646.1	1596.3	1592.7	1540.4	1546.5	1518.6
5°	1652.2	1672.8	1631.5	1541.6	1457.8	1391.0	1350.9	1279.2	1263.4	1228.2	1228.2
7.5°	1544.1	1542.9	1472.4	1397.1	1271.9	1149.2	1093.4	990.1	929.4	896.6	865.0
10°	1454.2	1434.7	1391.0	1235.5	1099.4	971.9	902.6	834.6	771.4	716.8	662.1
12.5°	1391.0	1403.2	1333.9	1165.0	988.9	900.2	826.1	754.4	679.1	617.1	556.4
15°	1423.8	1404.4	1323.0	1149.2	970.7	849.2	750.8	663.3	579.5	498.1	451.9
17.5°	1525.9	1476.0	1380.1	1149.2	933.0	771.4	652.4	549.1	459.2	386.3	329.2
20°	1663.1	1606.0	1502.8	1191.8	905.1	714.3	551.5	421.6	328.0	260.0	216.2
22.5°	1804.1	1759.1	1603.6	1208.8	872.3	637.8	434.9	304.9	218.7	174.9	153.1
25°	1972.9	1909.7	1739.7	1276.8	823.7	563.7	342.6	212.6	162.8	139.7	126.3
27.5°	2107.8	2096.8	1867.2	1318.1	787.2	502.9	270.9	168.9	134.8	117.8	109.3
30°	2277.8	2218.3	2022.7	1400.7	745.9	433.7	226.0	151.9	123.9	105.7	99.6
32.5°	2379.9	2351.9	2104.1	1446.9	699.8	376.6	194.4	133.6	113.0	99.6	93.5
35°	2528.1	2472.2	2220.7	1476.0	675.5	343.8	174.9	121.5	94.8	81.4	74.1
37.5°	2693.3	2672.7	2360.5	1474.8	640.2	324.4	161.6	113.0	89.9	75.3	66.8
40°	2862.2	2778.4	2445.5	1508.8	622.0	309.8	151.9	108.1	85.0	71.7	60.7
42.5°	2988.5	2892.6	2543.9	1496.7	600.1	284.3	148.2	100.8	81.4	65.6	55.9
45°	3022.5	2988.5	2632.6	1493.1	584.3	263.6	142.1	99.6	79.0	62.0	52.2
47.5°	3088.1	3065.1	2741.9	1499.1	572.2	247.8	127.6	102.0	75.3	58.3	49.8
50°	3117.3	3076.0	2830.6	1513.7	544.3	228.4	114.2	106.9	74.1	57.1	47.4
52.5°	3237.6	3201.1	2952.1	1555.0	521.2	202.9	100.8	102.0	76.5	53.5	44.9
55°	3355.4	3314.1	3139.2	1649.8	488.4	182.2	86.3	89.9	72.9	48.6	40.1
57.5°	3517.0	3449.0	3264.3	1688.6	459.2	154.3	76.5	74.1	68.0	43.7	35.2
60°	3541.3	3569.2	3246.1	1664.3	428.8	136.1	66.8	57.1	72.9	38.9	30.4
62.5°	3622.7	3506.1	3161.0	1608.5	407.0	125.1	59.5	47.4	63.2	34.0	25.5
65°	3466.0	3379.7	2961.8	1428.7	379.0	126.3	52.2	38.9	40.1	27.9	20.7
67.5°	3236.4	3168.3	2631.4	1233.1	351.1	123.9	46.2	34.0	30.4	24.3	18.2
70°	2840.3	2693.3	2235.3	1001.0	309.8	115.4	38.9	30.4	25.5	19.4	13.4
72.5°	2066.5	2006.9	1603.6	773.9	278.2	104.5	36.4	25.5	21.9	14.6	10.9
75°	1391.0	1292.6	1012.0	507.8	223.5	91.1	30.4	23.1	17.0	10.9	8.5
77.5°	735.0	694.9	573.4	241.8	123.9	42.5	17.0	13.4	9.7	8.5	4.9
80°	318.3	283.1	247.8	98.4	43.7	19.4	10.9	7.3	6.1	4.9	2.4
82.5°	162.8	155.5	128.8	42.5	25.5	14.6	6.1	4.9	3.6	2.4	1.2
85°	80.2	82.6	68.0	13.4	14.6	8.5	1.2	1.2	0.0	0.0	0.0
87.5°	6.1	6.1	4.9	2.4	3.6	1.2	0.0	0.0	0.0	0.0	0.0
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: P677398

CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7
2.5°	1507.6	1524.6	1495.5	1513.7	1505.2	1508.8	1512.5	1502.8	1505.2	1539.2	1540.4
5°	1207.6	1240.4	1228.2	1245.2	1274.4	1259.8	1273.2	1270.7	1273.2	1278.0	1299.9
7.5°	861.3	851.6	874.7	919.6	971.9	1003.5	987.7	979.2	974.3	962.2	976.7
10°	649.9	645.1	639.0	652.4	686.4	721.6	741.1	708.3	690.0	667.0	658.4
12.5°	539.4	509.0	492.0	471.4	481.1	512.7	513.9	482.3	453.1	441.0	454.4
15°	425.2	404.5	374.2	345.0	330.4	354.7	334.1	303.7	266.1	261.2	260.0
17.5°	303.7	291.6	269.7	257.5	240.5	234.5	212.6	166.4	139.7	132.4	134.8
20°	206.5	196.8	195.6	184.7	177.4	172.5	137.3	106.9	98.4	99.6	100.8
22.5°	153.1	148.2	142.1	140.9	134.8	128.8	100.8	89.9	83.8	83.8	87.5
25°	125.1	122.7	116.6	114.2	111.8	103.3	85.0	76.5	74.1	71.7	75.3
27.5°	106.9	105.7	102.0	98.4	96.0	87.5	74.1	66.8	64.4	64.4	64.4
30°	96.0	96.0	91.1	83.8	83.8	74.1	63.2	58.3	55.9	55.9	54.7
32.5°	89.9	87.5	81.4	76.5	72.9	63.2	55.9	51.0	47.4	47.4	48.6
35°	72.9	72.9	71.7	68.0	63.2	53.5	47.4	42.5	40.1	38.9	40.1
37.5°	64.4	60.7	55.9	57.1	54.7	46.2	40.1	36.4	32.8	32.8	32.8
40°	58.3	54.7	49.8	46.2	44.9	41.3	35.2	29.2	25.5	24.3	24.3
42.5°	52.2	49.8	42.5	36.4	35.2	35.2	26.7	21.9	18.2	18.2	18.2
45°	48.6	44.9	38.9	31.6	25.5	26.7	21.9	15.8	13.4	12.1	12.1
47.5°	46.2	42.5	34.0	26.7	19.4	19.4	15.8	10.9	8.5	7.3	7.3
50°	42.5	38.9	30.4	21.9	14.6	12.1	9.7	6.1	3.6	2.4	2.4
52.5°	40.1	36.4	26.7	18.2	12.1	8.5	6.1	1.2	0.0	0.0	0.0
55°	36.4	31.6	23.1	14.6	9.7	4.9	1.2	0.0	0.0	0.0	0.0
57.5°	31.6	27.9	18.2	10.9	6.1	1.2	0.0	0.0	0.0	0.0	0.0
60°	26.7	23.1	14.6	8.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	21.9	19.4	10.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18.2	14.6	8.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15.8	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.1	8.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.5	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P677398
 CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7
2.5°	1545.3	1581.7	1615.7	1625.5	1652.2	1726.3	1726.3	1761.5	1824.7	1847.8	1852.6
5°	1303.5	1342.4	1349.7	1425.0	1460.2	1535.6	1585.4	1704.4	1776.1	1821.1	1849.0
7.5°	991.3	1004.7	1032.6	1103.1	1172.3	1263.4	1358.2	1510.1	1636.4	1687.4	1782.2
10°	681.5	721.6	782.4	845.5	953.7	1054.5	1177.2	1320.5	1476.0	1539.2	1620.6
12.5°	459.2	515.1	612.3	702.2	801.8	903.8	1020.5	1212.4	1388.6	1476.0	1557.4
15°	268.5	336.5	420.3	566.1	698.5	812.7	929.4	1123.7	1337.5	1450.5	1550.1
17.5°	136.1	156.7	226.0	352.3	527.2	714.3	888.1	1135.9	1376.4	1514.9	1597.5
20°	102.0	108.1	127.6	187.1	360.8	590.4	849.2	1154.1	1484.5	1653.4	1698.4
22.5°	88.7	93.5	102.0	121.5	202.9	451.9	794.5	1199.1	1631.5	1790.7	1885.4
25°	75.3	80.2	87.5	99.6	130.0	307.4	727.7	1246.4	1762.7	1963.2	2051.9
27.5°	65.6	69.2	76.5	86.3	105.7	195.6	612.3	1309.6	1963.2	2172.2	2195.2
30°	55.9	59.5	65.6	76.5	89.9	138.5	449.5	1318.1	2073.7	2263.3	2327.7
32.5°	48.6	49.8	57.1	66.8	75.3	109.3	315.9	1326.6	2155.1	2381.1	2394.5
35°	40.1	42.5	49.8	55.9	65.6	86.3	239.3	1284.1	2260.8	2502.6	2498.9
37.5°	32.8	36.4	41.3	46.2	53.5	72.9	190.7	1205.1	2393.3	2690.9	2576.7
40°	25.5	29.2	34.0	40.1	44.9	65.6	143.4	1086.1	2531.7	2783.2	2661.7
42.5°	18.2	20.7	25.5	31.6	40.1	54.7	103.3	945.2	2586.4	2891.3	2763.8
45°	13.4	15.8	19.4	26.7	41.3	43.7	71.7	816.4	2644.7	2938.7	2740.7
47.5°	7.3	9.7	14.6	23.1	36.4	32.8	51.0	701.0	2711.5	2981.2	2758.9
50°	2.4	3.6	8.5	24.3	29.2	25.5	40.1	639.0	2777.1	2989.7	2795.4
52.5°	0.0	0.0	4.9	25.5	21.9	19.4	35.2	614.7	2760.1	3016.5	2772.3
55°	0.0	0.0	1.2	10.9	12.1	14.6	29.2	613.5	2880.4	3025.0	2898.6
57.5°	0.0	0.0	0.0	3.6	7.3	12.1	25.5	574.6	2956.9	3236.4	3068.7
60°	0.0	0.0	0.0	1.2	4.9	8.5	19.4	540.6	3034.7	3331.1	3250.9
62.5°	0.0	0.0	0.0	0.0	1.2	3.6	13.4	488.4	2878.0	3323.8	3427.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	8.5	386.3	2588.8	3150.1	3329.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.9	267.3	2266.9	2931.4	3151.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	161.6	1829.6	2570.6	2672.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.2	1306.0	2040.9	2192.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9	807.9	1491.8	1678.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	523.6	1129.8	1274.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	279.4	708.3	823.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.5	430.1	495.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.9	261.2	297.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.1	53.5
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: P677398

CATALOG NUMBER: CCW-SA-1F-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7	1722.7
2.5°	1855.1	1890.3	1903.7	1883.0	1885.4	1842.9	1836.9	1777.3	1753.0	1757.9
5°	1940.1	1991.1	2019.1	1996.0	1943.8	1862.4	1788.3	1717.8	1674.1	1652.2
7.5°	1920.7	1977.8	2013.0	2034.9	1975.3	1844.1	1731.2	1598.7	1542.9	1544.1
10°	1813.8	1932.8	2004.5	1976.6	1948.6	1817.4	1642.5	1499.1	1449.3	1454.2
12.5°	1727.5	1859.9	1902.5	1924.3	1867.2	1762.7	1644.9	1480.9	1425.0	1391.0
15°	1674.1	1772.5	1774.9	1808.9	1785.8	1785.8	1670.4	1510.1	1461.5	1423.8
17.5°	1674.1	1695.9	1693.5	1705.6	1744.5	1790.7	1734.8	1627.9	1531.9	1525.9
20°	1711.7	1643.7	1627.9	1632.8	1665.6	1802.8	1876.9	1743.3	1682.6	1663.1
22.5°	1799.2	1649.8	1553.8	1536.8	1637.6	1801.6	1968.1	1925.5	1819.8	1804.1
25°	1919.5	1638.8	1534.4	1512.5	1589.0	1845.4	2093.2	2101.7	2005.7	1972.9
27.5°	2033.7	1687.4	1531.9	1527.1	1627.9	1835.6	2179.4	2242.6	2134.5	2107.8
30°	2072.5	1736.0	1576.9	1512.5	1642.5	1870.9	2177.0	2342.2	2271.8	2277.8
32.5°	2118.7	1784.6	1581.7	1556.2	1704.4	1928.0	2246.3	2502.6	2451.6	2379.9
35°	2186.7	1850.2	1627.9	1604.8	1748.2	1979.0	2260.8	2620.4	2611.9	2528.1
37.5°	2245.0	1914.6	1723.9	1727.5	1881.8	2061.6	2325.2	2765.0	2750.4	2693.3
40°	2286.3	2004.5	1873.3	1883.0	1998.4	2153.9	2439.4	2837.9	2946.0	2862.2
42.5°	2292.4	2084.7	2044.6	2122.3	2230.5	2297.3	2485.6	2887.7	3043.2	2988.5
45°	2315.5	2212.2	2324.0	2381.1	2469.8	2423.6	2483.2	2972.7	3050.5	3022.5
47.5°	2405.4	2444.3	2585.2	2758.9	2790.5	2638.7	2541.5	2986.1	3091.8	3088.1
50°	2498.9	2693.3	2891.3	3006.8	3046.8	2786.9	2596.1	2975.2	3146.5	3117.3
52.5°	2603.4	2909.6	3195.1	3337.2	3315.3	2950.9	2658.1	3063.9	3247.3	3237.6
55°	2669.0	3006.8	3390.6	3588.7	3571.7	3134.3	2854.9	3191.4	3379.7	3355.4
57.5°	2842.7	3164.7	3585.0	3677.3	3722.3	3374.9	2992.2	3400.4	3490.3	3517.0
60°	2986.1	3267.9	3636.0	3769.7	3785.5	3518.2	3232.7	3615.4	3631.2	3541.3
62.5°	3196.3	3308.0	3527.9	3648.2	3729.6	3599.6	3449.0	3730.8	3628.8	3622.7
65°	3350.6	3176.8	3326.3	3393.1	3445.3	3475.7	3666.4	3809.8	3583.8	3466.0
67.5°	3264.3	2929.0	2901.1	2904.7	2920.5	3103.9	3593.5	3616.6	3333.5	3236.4
70°	2873.1	2403.0	2365.3	2394.5	2315.5	2536.6	3298.3	3287.4	2941.2	2840.3
72.5°	2324.0	1751.8	1687.4	1727.5	1745.7	1980.2	2774.7	2492.9	2145.4	2066.5
75°	1846.6	1284.1	1083.6	1180.8	1242.8	1442.0	2167.3	1693.5	1497.9	1391.0
77.5°	1450.5	971.9	843.1	804.2	861.3	1048.4	1576.9	889.3	784.8	735.0
80°	919.6	714.3	775.1	719.2	743.5	748.3	821.2	404.5	321.9	318.3
82.5°	554.0	488.4	580.7	319.5	581.9	520.0	341.4	183.4	162.8	162.8
85°	392.4	302.5	200.5	130.0	258.8	285.5	132.4	94.8	82.6	80.2
87.5°	196.8	93.5	44.9	29.2	32.8	53.5	15.8	7.3	7.3	6.1
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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