

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: P676312

Luminaire Tested: **CCW-SA-1F-827-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676312
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

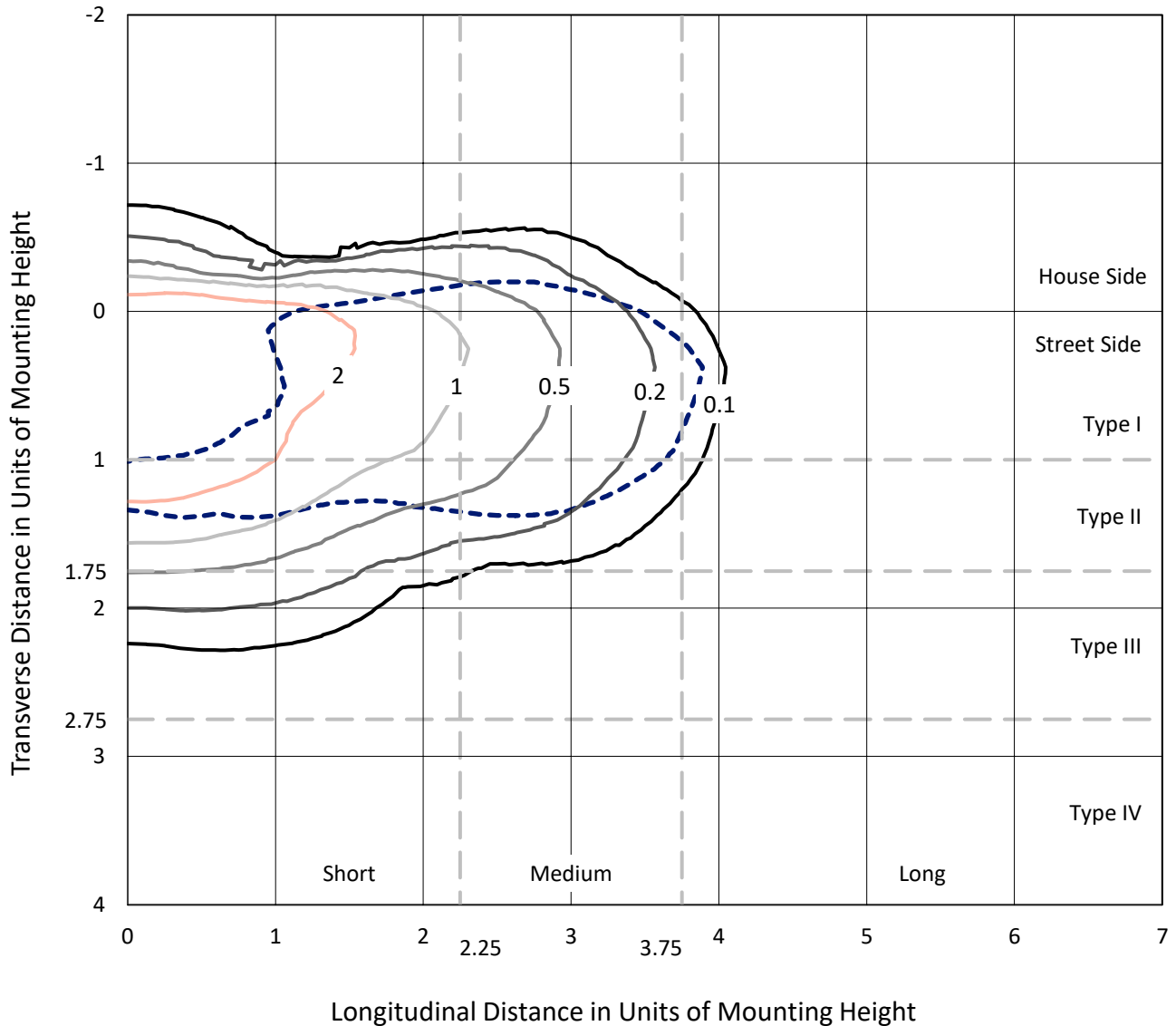
Lumens per Lamp: N/A
Luminaire Lumens: 4255.1 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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: P676312
 CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

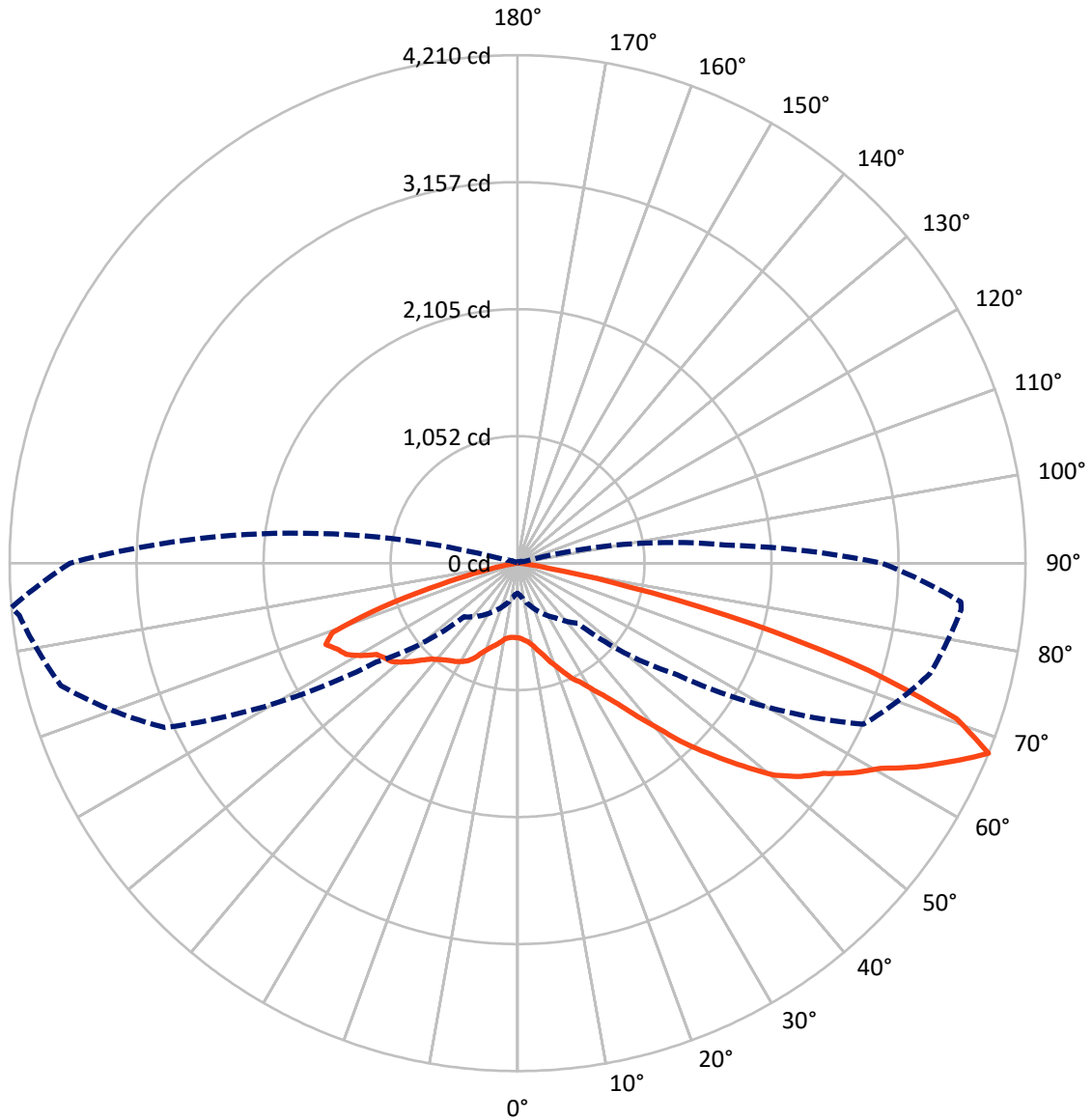
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

REPORT NUMBER: P676312
CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P676312
 CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

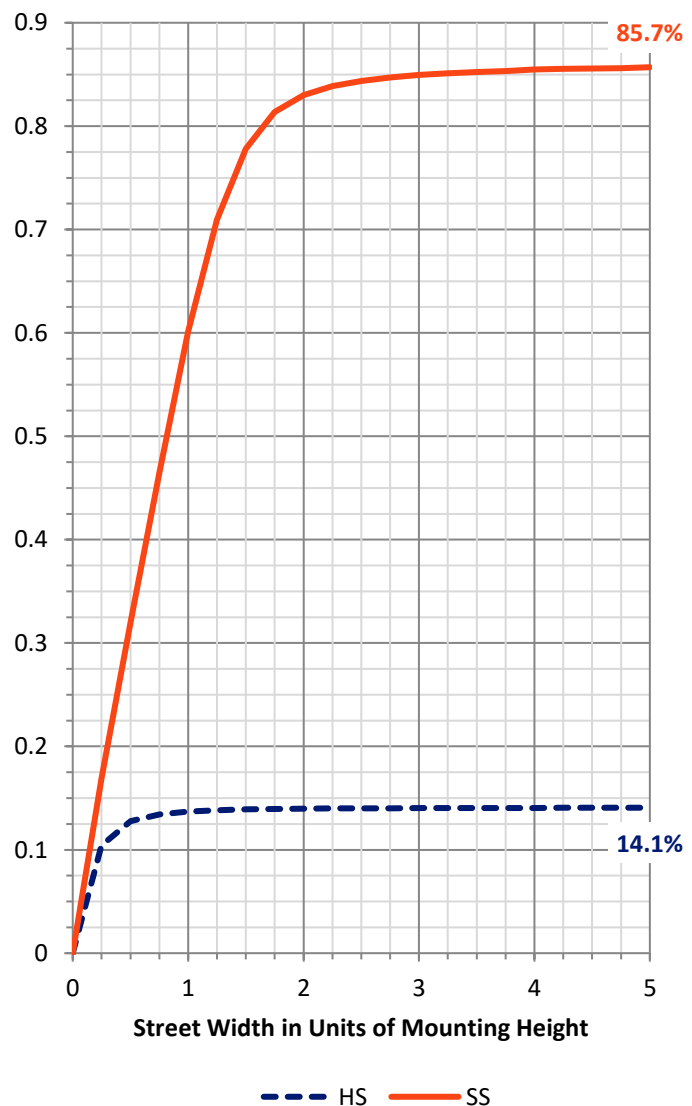
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.5	0.0	604.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3650.6	0.0	3650.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	4255.1	0.0	4255.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.3
10°-20°	151.7	3.6
20°-30°	252.0	5.9
30°-40°	433.5	10.2
40°-50°	779.0	18.3
50°-60°	1109.0	26.1
60°-70°	1011.0	23.8
70°-80°	430.5	10.1
80°-90°	32.1	0.8
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°	4255.1	100.0
0°-180°	4255.1	100.0



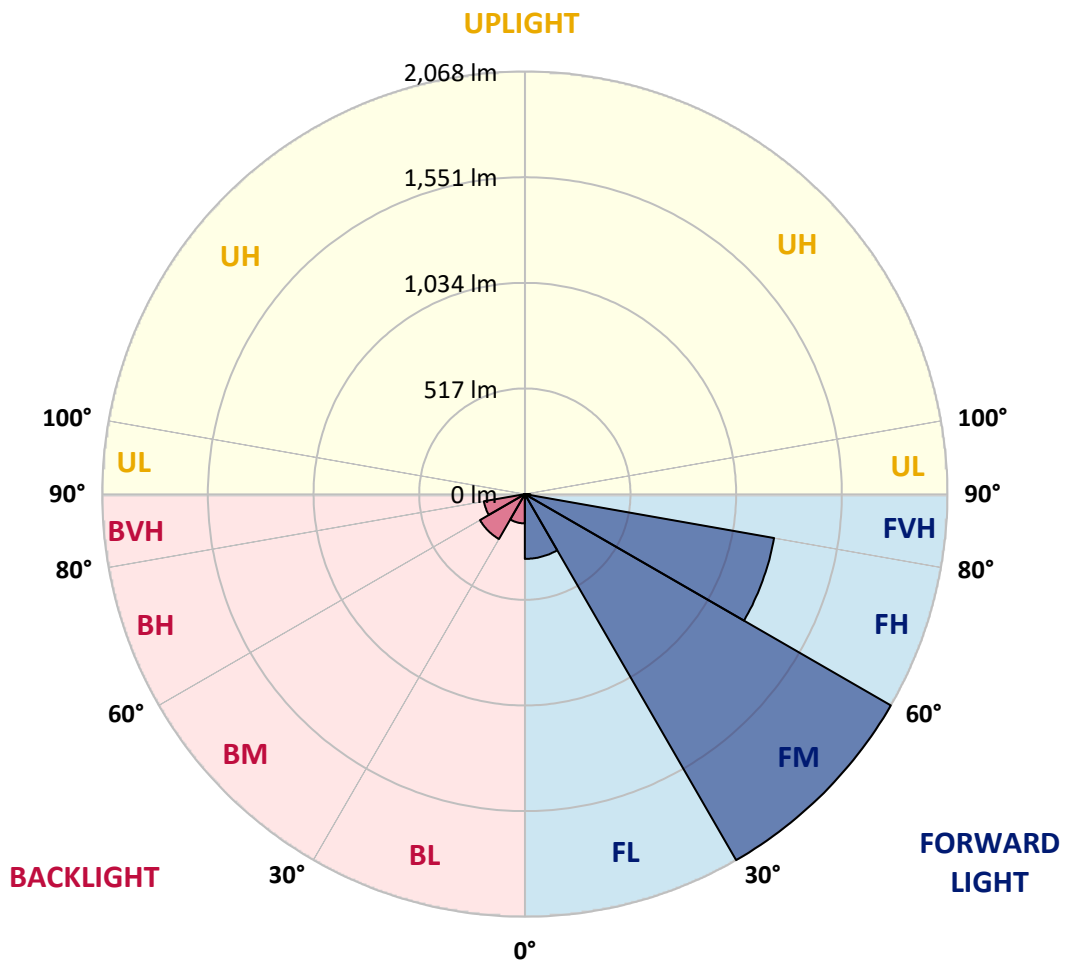
REPORT NUMBER: P676312
 CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.0	7.4			
FM (30°-60°)	2068.0	48.6			
FH (60°-80°)	1238.4	29.1			G1/1800
FVH (80°-90°)	27.2	0.6			G1/100
BL (0°-30°)	143.1	3.4	B1/500		
BM (30°-60°)	253.4	6.0	B1/1000		
BH (60°-80°)	203.1	4.8	B1/500		G1/500
BVH (80°-90°)	4.8	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 II Short





REPORT NUMBER: P676312
 CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
2.5°	641.1	647.2	647.2	645.1	639.0	635.0	633.0	628.9	624.8	624.8	626.9
5°	647.2	641.1	649.2	639.0	639.0	639.0	647.2	643.1	641.1	630.9	630.9
7.5°	647.2	641.1	641.1	647.2	641.1	645.1	655.3	651.2	659.3	641.1	645.1
10°	628.9	626.9	630.9	639.0	641.1	649.2	659.3	679.6	681.6	669.5	667.4
12.5°	592.4	590.4	604.6	608.6	633.0	653.2	683.7	699.9	718.2	712.1	699.9
15°	566.0	570.1	580.2	596.4	618.8	655.3	689.8	726.3	758.7	750.6	746.6
17.5°	576.2	574.1	576.2	586.3	614.7	651.2	710.0	752.7	799.3	799.3	803.4
20°	606.6	612.7	610.6	604.6	618.8	649.2	710.0	785.1	862.2	856.1	856.1
22.5°	659.3	661.4	649.2	645.1	643.1	661.4	722.2	825.7	914.9	927.1	923.1
25°	714.1	716.1	712.1	699.9	683.7	687.7	744.5	858.1	988.0	1008.3	1004.2
27.5°	805.4	803.4	793.2	779.0	754.7	736.4	779.0	882.5	1044.8	1079.3	1069.1
30°	896.7	890.6	876.4	858.1	835.8	801.3	821.6	929.1	1115.8	1148.3	1125.9
32.5°	1008.3	996.1	1000.2	971.8	925.1	870.3	866.3	971.8	1172.6	1219.3	1201.0
35°	1150.3	1136.1	1115.8	1089.4	1044.8	971.8	949.4	1040.7	1267.9	1302.4	1302.4
37.5°	1336.9	1351.1	1326.8	1217.2	1168.5	1099.6	1052.9	1111.7	1351.1	1434.3	1414.0
40°	1527.6	1539.8	1495.2	1414.0	1308.5	1223.3	1194.9	1227.4	1476.9	1576.3	1537.8
42.5°	1681.8	1698.0	1681.8	1576.3	1493.1	1383.6	1332.9	1363.3	1639.2	1758.9	1708.2
45°	1844.1	1860.3	1842.1	1773.1	1691.9	1629.1	1501.2	1539.8	1809.6	1988.1	1931.3
47.5°	1965.8	1986.1	1953.6	1939.4	1874.5	1864.4	1647.3	1689.9	1988.1	2219.4	2148.4
50°	1994.2	2016.5	2044.9	2061.2	2038.9	2063.2	1844.1	1880.6	2174.8	2432.4	2363.4
52.5°	1927.3	1949.6	2012.5	2087.5	2191.0	2264.0	2042.9	2073.3	2369.5	2608.9	2572.4
55°	1730.5	1750.8	1878.6	1980.0	2227.5	2347.2	2233.6	2361.4	2509.5	2793.5	2704.3
57.5°	1399.8	1424.2	1592.5	1748.7	2105.8	2300.6	2347.2	2600.8	2740.8	2929.5	2826.0
60°	994.1	1008.3	1154.3	1430.2	1769.0	2067.3	2324.9	2779.3	2923.4	3112.0	3057.3
62.5°	572.1	584.3	736.4	996.1	1334.9	1726.4	2225.5	2947.7	3120.2	3312.9	3282.5
65°	379.4	383.4	486.9	628.9	868.3	1272.0	1973.9	3097.8	3314.9	3473.2	3438.7
67.5°	249.5	271.8	353.0	450.4	555.9	704.0	1608.8	3160.7	3538.1	3696.3	3688.2
70°	178.5	186.6	253.6	346.9	417.9	395.6	941.3	2716.4	3527.9	3757.2	3690.2
72.5°	105.5	113.6	168.4	259.7	328.7	251.6	440.2	1921.2	2923.4	2998.4	2980.2
75°	77.1	77.1	103.5	186.6	239.4	180.6	206.9	1215.2	1941.5	2107.8	2105.8
77.5°	54.8	56.8	71.0	111.6	184.6	131.9	113.6	675.6	1061.0	1160.4	1105.6
80°	32.5	34.5	48.7	66.9	133.9	95.3	75.1	308.4	407.8	411.8	391.5
82.5°	24.3	24.3	32.5	46.7	93.3	64.9	46.7	117.7	131.9	119.7	101.4
85°	14.2	12.2	24.3	34.5	54.8	36.5	32.5	54.8	60.9	44.6	40.6
87.5°	4.1	4.1	10.1	12.2	24.3	20.3	14.2	20.3	28.4	16.2	12.2
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: P676312
 CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
2.5°	622.8	616.7	606.6	602.5	588.3	582.2	578.2	568.0	570.1	564.0	564.0
5°	616.7	616.7	596.4	574.1	551.8	537.6	521.4	501.1	501.1	493.0	495.0
7.5°	639.0	622.8	596.4	555.9	519.4	486.9	472.7	452.4	440.2	434.1	434.1
10°	653.2	637.0	592.4	543.7	497.0	456.5	426.0	397.6	381.4	381.4	379.4
12.5°	691.8	667.4	608.6	541.7	472.7	411.8	365.2	332.7	310.4	294.2	298.2
15°	724.2	697.9	616.7	525.4	430.1	344.9	288.1	227.2	196.8	180.6	174.5
17.5°	775.0	726.3	635.0	497.0	365.2	269.8	186.6	135.9	123.8	121.7	121.7
20°	817.6	760.8	637.0	442.3	300.2	172.4	119.7	111.6	105.5	103.5	101.4
22.5°	876.4	805.4	628.9	379.4	215.0	115.6	101.4	93.3	89.3	83.2	83.2
25°	937.3	864.2	612.7	320.5	131.9	99.4	89.3	81.1	73.0	69.0	71.0
27.5°	1002.2	908.9	566.0	249.5	101.4	87.2	73.0	66.9	62.9	60.9	60.9
30°	1054.9	937.3	497.0	166.4	91.3	77.1	64.9	58.8	54.8	52.7	52.7
32.5°	1093.5	961.6	419.9	111.6	83.2	69.0	58.8	52.7	48.7	46.7	46.7
35°	1158.4	979.9	348.9	95.3	75.1	60.9	50.7	46.7	42.6	42.6	42.6
37.5°	1257.8	1004.2	277.9	87.2	69.0	54.8	48.7	42.6	40.6	38.5	38.5
40°	1345.0	1034.6	198.8	79.1	62.9	50.7	42.6	38.5	36.5	34.5	34.5
42.5°	1470.8	1069.1	129.8	71.0	56.8	46.7	38.5	34.5	32.5	30.4	30.4
45°	1631.1	1125.9	101.4	62.9	50.7	42.6	36.5	32.5	28.4	28.4	26.4
47.5°	1801.5	1194.9	91.3	58.8	46.7	38.5	32.5	28.4	26.4	24.3	24.3
50°	1959.7	1261.9	85.2	54.8	42.6	36.5	30.4	26.4	22.3	20.3	20.3
52.5°	2101.7	1324.7	81.1	50.7	40.6	32.5	26.4	22.3	20.3	18.3	18.3
55°	2176.8	1353.2	79.1	48.7	36.5	30.4	24.3	20.3	18.3	16.2	16.2
57.5°	2294.5	1389.7	77.1	46.7	34.5	26.4	22.3	18.3	16.2	14.2	14.2
60°	2485.2	1509.4	75.1	44.6	32.5	26.4	20.3	16.2	12.2	10.1	10.1
62.5°	2643.4	1608.8	66.9	38.5	28.4	22.3	16.2	12.2	8.1	6.1	6.1
65°	2824.0	1655.4	58.8	34.5	24.3	18.3	12.2	8.1	6.1	2.0	2.0
67.5°	3020.8	1726.4	48.7	30.4	22.3	14.2	10.1	6.1	2.0	0.0	0.0
70°	2917.3	1637.2	40.6	26.4	20.3	12.2	8.1	4.1	0.0	0.0	0.0
72.5°	2286.4	1172.6	32.5	24.3	18.3	12.2	8.1	2.0	0.0	0.0	0.0
75°	1527.6	663.4	28.4	20.3	14.2	10.1	6.1	2.0	0.0	0.0	0.0
77.5°	829.7	298.2	24.3	18.3	12.2	8.1	6.1	2.0	0.0	0.0	0.0
80°	269.8	117.7	20.3	16.2	12.2	8.1	6.1	2.0	0.0	0.0	0.0
82.5°	73.0	36.5	20.3	16.2	12.2	8.1	6.1	2.0	0.0	0.0	0.0
85°	30.4	24.3	20.3	16.2	12.2	8.1	6.1	2.0	0.0	0.0	0.0
87.5°	12.2	8.1	8.1	10.1	8.1	6.1	4.1	2.0	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: P676312
 CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
2.5°	566.0	570.1	572.1	572.1	582.2	592.4	604.6	614.7	614.7	620.8	626.9
5°	497.0	501.1	507.2	525.4	545.7	568.0	590.4	606.6	628.9	639.0	645.1
7.5°	440.2	444.3	460.5	478.8	507.2	545.7	584.3	620.8	643.1	653.2	661.4
10°	381.4	387.5	405.7	438.2	474.7	521.4	566.0	628.9	665.4	685.7	693.8
12.5°	296.2	312.4	336.8	371.3	417.9	488.9	572.1	637.0	699.9	724.2	740.5
15°	186.6	200.8	239.4	294.2	357.1	440.2	555.9	649.2	736.4	760.8	787.1
17.5°	119.7	121.7	133.9	192.7	273.9	379.4	531.5	667.4	777.0	811.5	852.1
20°	101.4	105.5	107.5	115.6	182.6	312.4	480.8	689.8	825.7	872.3	910.9
22.5°	85.2	87.2	91.3	97.4	109.6	227.2	411.8	689.8	868.3	937.3	981.9
25°	69.0	73.0	77.1	83.2	95.3	142.0	340.8	677.6	919.0	1004.2	1061.0
27.5°	60.9	60.9	64.9	71.0	81.1	99.4	269.8	641.1	957.6	1044.8	1119.8
30°	52.7	54.8	56.8	62.9	73.0	87.2	186.6	582.2	998.1	1123.9	1209.1
32.5°	46.7	46.7	50.7	54.8	64.9	79.1	119.7	493.0	1050.9	1184.8	1304.5
35°	42.6	42.6	44.6	48.7	58.8	71.0	93.3	417.9	1113.8	1300.4	1432.3
37.5°	38.5	38.5	40.6	44.6	52.7	62.9	85.2	359.1	1178.7	1416.0	1608.8
40°	34.5	34.5	36.5	40.6	46.7	56.8	77.1	290.1	1259.8	1586.5	1801.5
42.5°	30.4	30.4	32.5	36.5	42.6	50.7	66.9	217.1	1367.4	1771.1	2051.0
45°	26.4	26.4	28.4	32.5	36.5	46.7	60.9	166.4	1485.0	1976.0	2270.1
47.5°	22.3	24.3	26.4	30.4	34.5	42.6	54.8	146.1	1600.7	2193.0	2513.6
50°	20.3	20.3	22.3	26.4	32.5	38.5	50.7	144.0	1718.3	2359.4	2763.1
52.5°	18.3	18.3	20.3	24.3	30.4	36.5	48.7	148.1	1815.7	2513.6	2937.6
55°	16.2	16.2	18.3	20.3	26.4	34.5	44.6	152.2	1884.7	2669.8	3077.6
57.5°	14.2	14.2	16.2	20.3	24.3	30.4	40.6	156.2	1996.3	2824.0	3280.4
60°	10.1	10.1	14.2	18.3	22.3	26.4	38.5	160.3	2174.8	3037.0	3452.9
62.5°	6.1	6.1	8.1	14.2	18.3	24.3	34.5	152.2	2341.1	3310.9	3716.6
65°	2.0	4.1	6.1	8.1	14.2	20.3	28.4	138.0	2481.1	3584.7	3960.0
67.5°	0.0	0.0	2.0	6.1	12.2	16.2	24.3	101.4	2503.4	3708.5	4209.6
70°	0.0	0.0	2.0	6.1	10.1	16.2	22.3	56.8	2132.2	3312.9	3858.6
72.5°	0.0	0.0	0.0	4.1	10.1	14.2	20.3	42.6	1572.3	2497.3	3049.2
75°	0.0	0.0	0.0	2.0	8.1	12.2	18.3	32.5	955.5	1665.6	1990.2
77.5°	0.0	0.0	0.0	2.0	6.1	12.2	18.3	28.4	336.8	793.2	935.2
80°	0.0	0.0	0.0	4.1	8.1	12.2	16.2	24.3	81.1	198.8	267.8
82.5°	0.0	0.0	0.0	2.0	6.1	10.1	14.2	20.3	32.5	58.8	93.3
85°	0.0	0.0	0.0	2.0	4.1	10.1	14.2	18.3	22.3	28.4	40.6
87.5°	0.0	0.0	0.0	0.0	2.0	4.1	6.1	8.1	8.1	8.1	14.2
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: P676312
 CATALOG NUMBER: CCW-SA-1F-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8	618.8
2.5°	624.8	633.0	637.0	645.1	649.2	647.2	645.1	651.2	647.2	641.1
5°	647.2	647.2	653.2	655.3	655.3	649.2	653.2	651.2	647.2	647.2
7.5°	671.5	681.6	681.6	669.5	667.4	663.4	663.4	647.2	641.1	647.2
10°	695.8	704.0	706.0	691.8	673.5	665.4	655.3	635.0	624.8	628.9
12.5°	746.6	746.6	724.2	708.0	683.7	655.3	630.9	602.5	588.3	592.4
15°	783.1	791.2	760.8	724.2	681.6	628.9	602.5	580.2	572.1	566.0
17.5°	854.1	837.9	789.2	736.4	675.6	620.8	602.5	582.2	576.2	576.2
20°	914.9	906.8	833.8	738.5	673.5	637.0	624.8	614.7	612.7	606.6
22.5°	998.1	961.6	868.3	760.8	695.8	663.4	659.3	669.5	663.4	659.3
25°	1061.0	1030.6	894.7	793.2	730.3	720.2	726.3	736.4	720.2	714.1
27.5°	1146.2	1089.4	945.4	835.8	777.0	787.1	807.4	809.5	799.3	805.4
30°	1225.3	1164.5	983.9	884.5	856.1	866.3	896.7	919.0	904.8	896.7
32.5°	1338.9	1245.6	1061.0	965.7	955.5	981.9	1016.4	1030.6	1012.3	1008.3
35°	1458.6	1338.9	1140.1	1057.0	1075.2	1111.7	1142.2	1166.5	1138.1	1150.3
37.5°	1645.3	1489.1	1274.0	1201.0	1209.1	1223.3	1280.1	1347.1	1361.3	1336.9
40°	1840.0	1651.4	1397.8	1341.0	1359.2	1397.8	1464.7	1527.6	1560.1	1527.6
42.5°	2065.2	1807.6	1588.5	1521.5	1539.8	1594.6	1683.8	1734.5	1730.5	1681.8
45°	2343.2	2024.7	1767.0	1683.8	1750.8	1799.5	1888.7	1894.8	1856.3	1844.1
47.5°	2556.2	2207.2	1959.7	1907.0	1998.3	2000.3	2020.6	2022.6	1980.0	1965.8
50°	2791.5	2418.2	2174.8	2097.7	2251.9	2180.9	2126.1	2089.6	2024.7	1994.2
52.5°	3022.8	2568.3	2373.6	2294.5	2454.7	2266.1	2166.7	2055.1	1959.7	1927.3
55°	3146.5	2815.9	2663.7	2479.1	2499.4	2290.4	2040.9	1900.9	1738.6	1730.5
57.5°	3292.6	2982.2	2909.2	2604.9	2424.3	2120.0	1779.2	1594.6	1420.1	1399.8
60°	3465.0	3245.9	3168.8	2584.6	2158.5	1781.2	1410.0	1172.6	1008.3	994.1
62.5°	3657.8	3558.4	3329.1	2385.8	1714.3	1253.7	931.2	732.4	580.2	572.1
65°	3962.1	3820.1	3414.3	2008.4	1134.0	803.4	618.8	474.7	383.4	379.4
67.5°	4152.8	3919.5	3223.6	1432.3	628.9	531.5	434.1	344.9	265.8	249.5
70°	3883.0	3596.9	2550.1	819.6	365.2	403.7	334.7	231.3	182.6	178.5
72.5°	3101.9	2669.8	1716.3	385.5	227.2	316.5	243.4	156.2	109.6	105.5
75°	2115.9	1679.8	1077.2	178.5	160.3	231.3	178.5	91.3	77.1	77.1
77.5°	945.4	856.1	551.8	109.6	119.7	176.5	103.5	62.9	56.8	54.8
80°	288.1	302.3	225.2	75.1	89.3	133.9	62.9	42.6	34.5	32.5
82.5°	97.4	113.6	101.4	44.6	60.9	95.3	42.6	28.4	24.3	24.3
85°	46.7	56.8	50.7	28.4	32.5	46.7	34.5	22.3	14.2	14.2
87.5°	18.3	26.4	18.3	12.2	18.3	24.3	14.2	10.1	4.1	4.1
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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