

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: P677468

Luminaire Tested: **CCW-SA-2D-827-U-SLR-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677468  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-827-U-SLR-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SLR distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5891.6 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

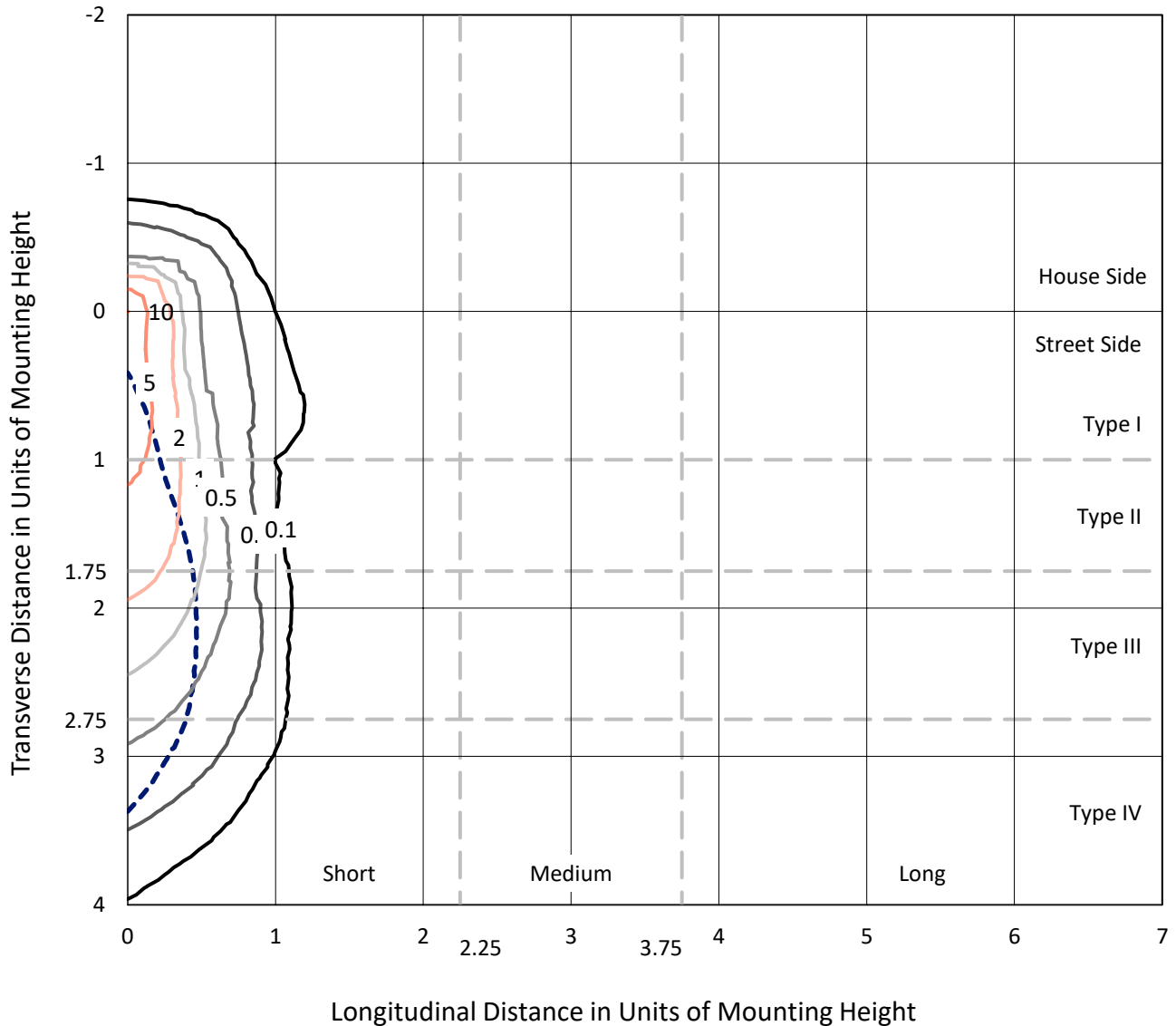
Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P677468  
 CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

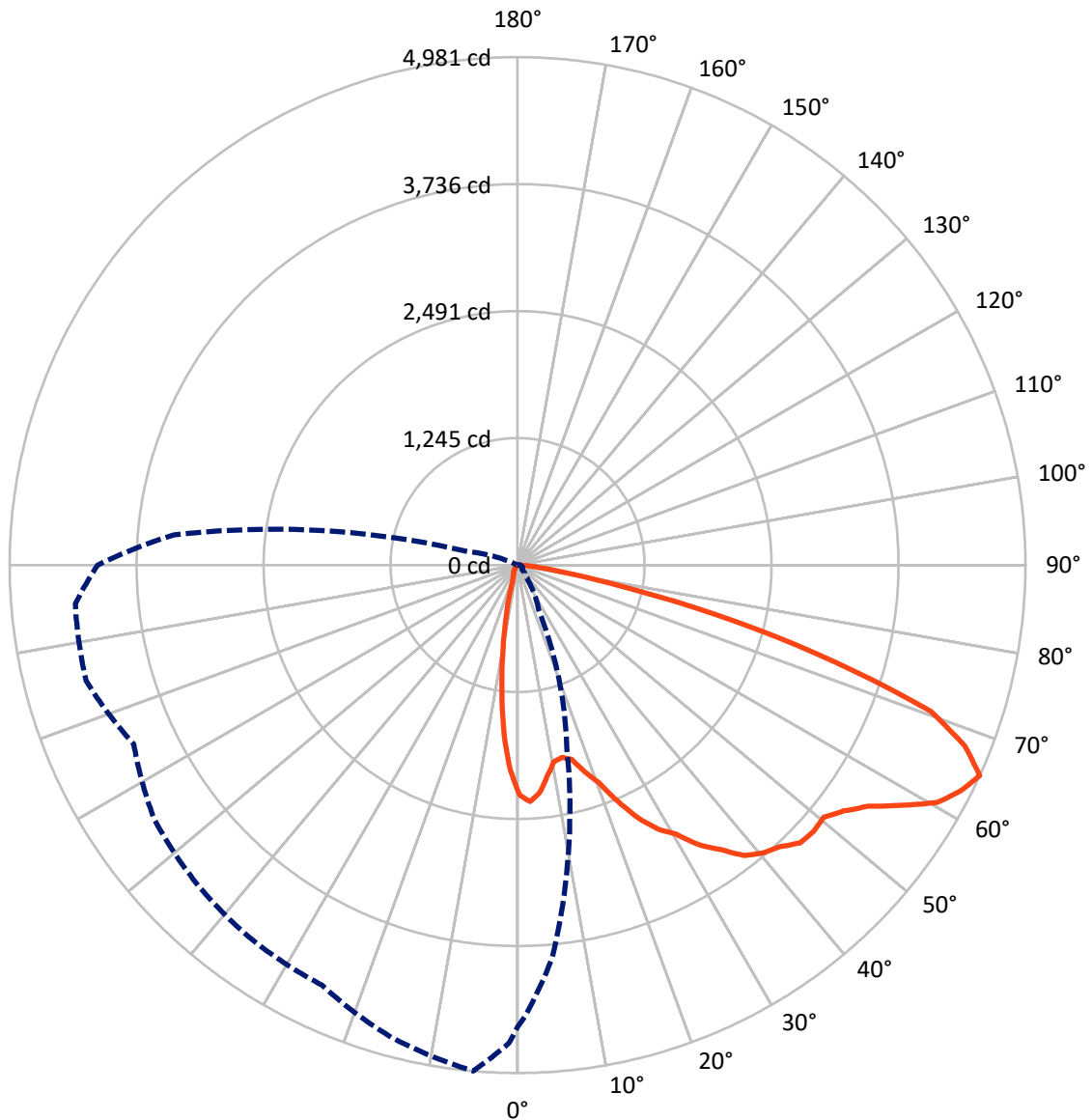
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - N/A

REPORT NUMBER: P677468  
CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677468  
 CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

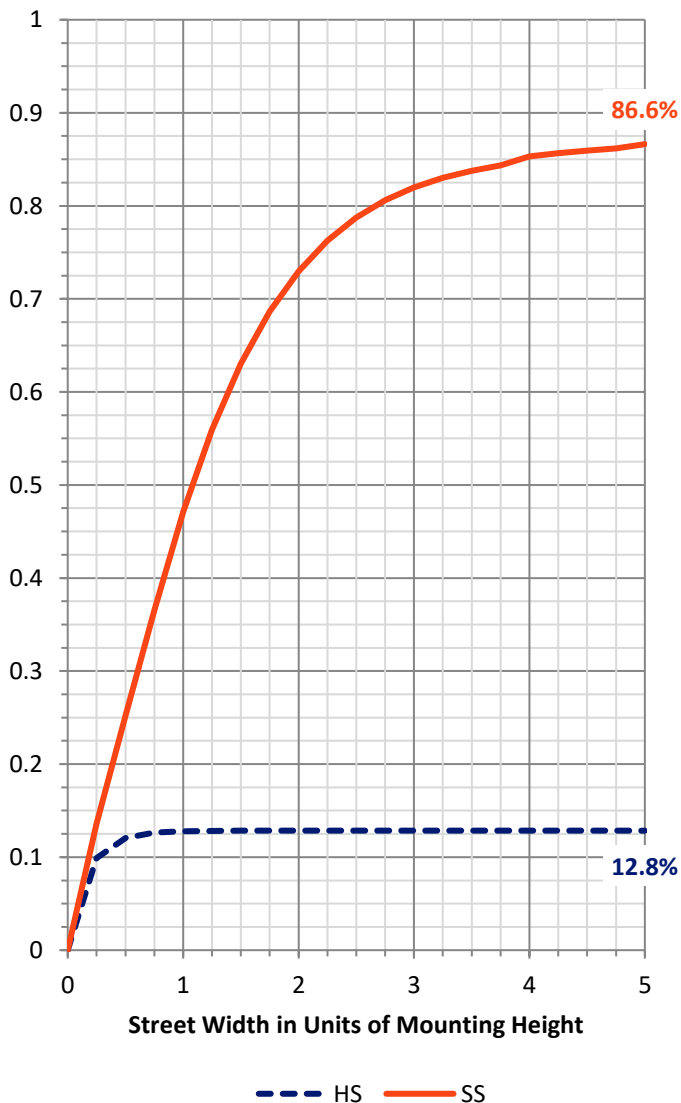
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	765.0	0.0	765.0
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	5126.7	0.0	5126.7
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	5891.6	0.0	5891.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.6	2.9
10°-20°	330.4	5.6
20°-30°	460.1	7.8
30°-40°	653.8	11.1
40°-50°	906.6	15.4
50°-60°	1235.4	21.0
60°-70°	1358.2	23.1
70°-80°	667.5	11.3
80°-90°	109.0	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°	5891.6	100.0
0°-180°	5891.6	100.0



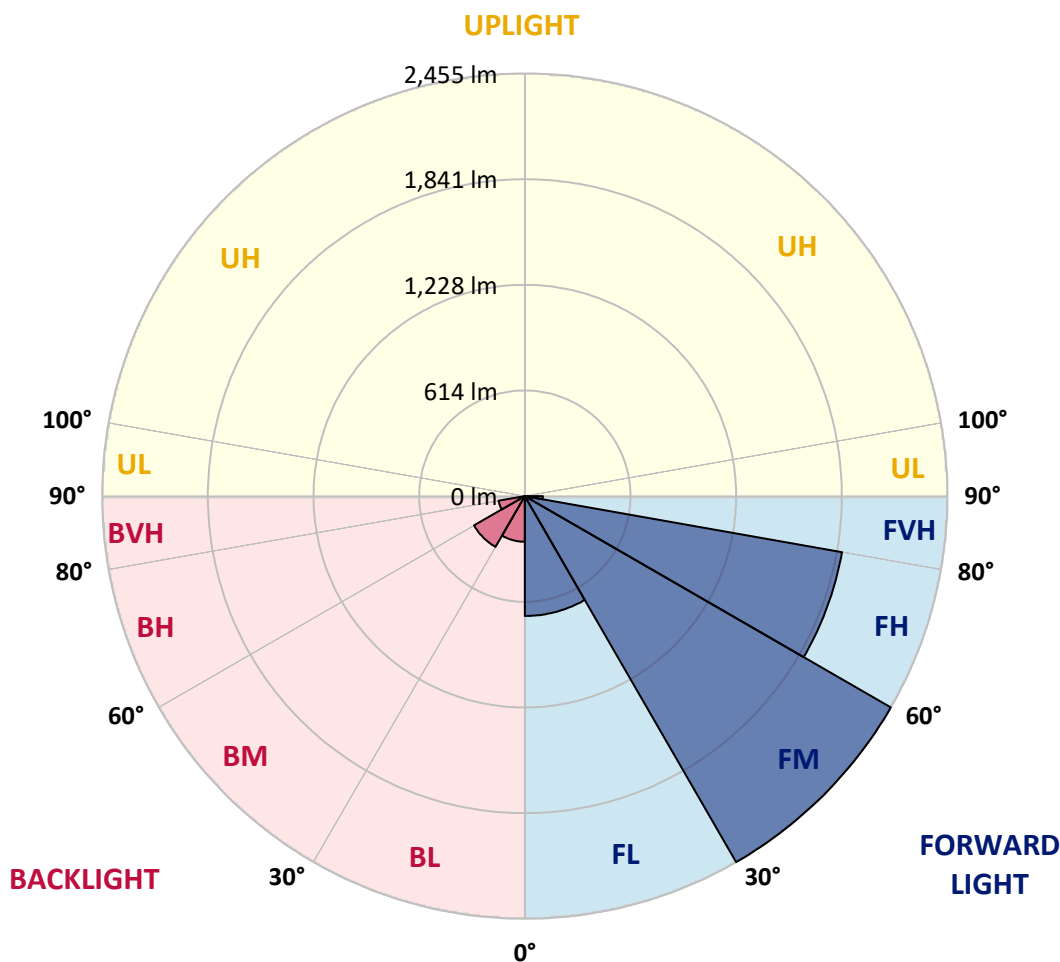
REPORT NUMBER: P677468  
 CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.3	11.8			
FM (30°-60°)	2455.2	41.7			
FH (60°-80°)	1871.1	31.8			G2/5000
FVH (80°-90°)	104.1	1.8			G2/225
BL (0°-30°)	264.9	4.5	B1/500		
BM (30°-60°)	340.6	5.8	B1/1000		
BH (60°-80°)	154.6	2.6	B1/500		G1/500
BVH (80°-90°)	4.9	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-G2**

Type IV Short





REPORT NUMBER: P677468

CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4
2.5°	2298.4	2325.4	2300.0	2211.1	2195.2	2152.3	2087.2	2082.4	2014.1	2022.0	1985.5
5°	2160.2	2187.2	2133.2	2015.7	1906.1	1818.7	1766.3	1672.6	1651.9	1605.9	1605.9
7.5°	2018.9	2017.3	1925.2	1826.7	1663.1	1502.6	1429.6	1294.6	1215.1	1172.2	1130.9
10°	1901.3	1875.9	1818.7	1615.4	1437.5	1270.7	1180.2	1091.2	1008.6	937.2	865.7
12.5°	1818.7	1834.6	1744.1	1523.3	1293.0	1177.0	1080.1	986.4	887.9	806.9	727.5
15°	1861.6	1836.2	1729.8	1502.6	1269.1	1110.3	981.6	867.3	757.7	651.2	590.9
17.5°	1995.0	1929.9	1804.4	1502.6	1219.9	1008.6	853.0	718.0	600.4	505.1	430.5
20°	2174.5	2099.9	1964.9	1558.2	1183.4	934.0	721.1	551.2	428.9	339.9	282.7
22.5°	2358.8	2300.0	2096.7	1580.5	1140.5	833.9	568.7	398.7	285.9	228.7	200.1
25°	2579.6	2497.0	2274.6	1669.4	1076.9	737.0	447.9	278.0	212.8	182.7	165.2
27.5°	2755.9	2741.6	2441.4	1723.4	1029.3	657.6	354.2	220.8	176.3	154.1	143.0
30°	2978.3	2900.4	2644.7	1831.4	975.3	567.1	295.4	198.6	162.0	138.2	130.2
32.5°	3111.7	3075.2	2751.1	1891.8	914.9	492.4	254.1	174.7	147.7	130.2	122.3
35°	3305.5	3232.4	2903.6	1929.9	883.2	449.5	228.7	158.8	123.9	106.4	96.9
37.5°	3521.5	3494.5	3086.3	1928.3	837.1	424.1	211.3	147.7	117.5	98.5	87.4
40°	3742.3	3632.7	3197.5	1972.8	813.3	405.0	198.6	141.4	111.2	93.7	79.4
42.5°	3907.5	3782.0	3326.1	1956.9	784.7	371.7	193.8	131.8	106.4	85.8	73.1
45°	3952.0	3907.5	3442.1	1952.2	764.0	344.7	185.8	130.2	103.2	81.0	68.3
47.5°	4037.7	4007.6	3585.0	1960.1	748.1	324.0	166.8	133.4	98.5	76.2	65.1
50°	4075.9	4021.9	3701.0	1979.2	711.6	298.6	149.3	139.8	96.9	74.7	61.9
52.5°	4233.1	4185.5	3859.8	2033.2	681.4	265.3	131.8	133.4	100.1	69.9	58.8
55°	4387.2	4333.2	4104.5	2157.1	638.5	238.3	112.8	117.5	95.3	63.5	52.4
57.5°	4598.5	4509.5	4268.1	2207.9	600.4	201.7	100.1	96.9	89.0	57.2	46.1
60°	4630.2	4666.8	4244.2	2176.1	560.7	177.9	87.4	74.7	95.3	50.8	39.7
62.5°	4736.6	4584.2	4133.0	2103.1	532.1	163.6	77.8	61.9	82.6	44.5	33.4
65°	4531.7	4419.0	3872.5	1868.0	495.6	165.2	68.3	50.8	52.4	36.5	27.0
67.5°	4231.5	4142.6	3440.5	1612.2	459.1	162.0	60.4	44.5	39.7	31.8	23.8
70°	3713.7	3521.5	2922.7	1308.9	405.0	150.9	50.8	39.7	33.4	25.4	17.5
72.5°	2701.9	2624.1	2096.7	1011.8	363.7	136.6	47.7	33.4	28.6	19.1	14.3
75°	1818.7	1690.1	1323.1	664.0	292.3	119.1	39.7	30.2	22.2	14.3	11.1
77.5°	961.0	908.6	749.7	316.1	162.0	55.6	22.2	17.5	12.7	11.1	6.4
80°	416.2	370.1	324.0	128.7	57.2	25.4	14.3	9.5	7.9	6.4	3.2
82.5°	212.8	203.3	168.4	55.6	33.4	19.1	7.9	6.4	4.8	3.2	1.6
85°	104.8	108.0	89.0	17.5	19.1	11.1	1.6	1.6	0.0	0.0	0.0
87.5°	7.9	7.9	6.4	3.2	4.8	1.6	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: P677468  
 CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4
2.5°	1971.2	1993.5	1955.3	1979.2	1968.0	1972.8	1977.6	1964.9	1968.0	2012.5	2014.1
5°	1578.9	1621.8	1605.9	1628.1	1666.2	1647.2	1664.7	1661.5	1664.7	1671.0	1699.6
7.5°	1126.2	1113.5	1143.7	1202.4	1270.7	1312.0	1291.4	1280.3	1273.9	1258.0	1277.1
10°	849.8	843.4	835.5	853.0	897.5	943.5	968.9	926.0	902.2	872.0	860.9
12.5°	705.3	665.5	643.3	616.3	629.0	670.3	671.9	630.6	592.5	576.6	594.1
15°	555.9	528.9	489.2	451.1	432.0	463.8	436.8	397.1	347.9	341.5	339.9
17.5°	397.1	381.2	352.6	336.7	314.5	306.6	278.0	217.6	182.7	173.1	176.3
20°	270.0	257.3	255.7	241.4	231.9	225.6	179.5	139.8	128.7	130.2	131.8
22.5°	200.1	193.8	185.8	184.3	176.3	168.4	131.8	117.5	109.6	109.6	114.4
25°	163.6	160.4	152.5	149.3	146.1	135.0	111.2	100.1	96.9	93.7	98.5
27.5°	139.8	138.2	133.4	128.7	125.5	114.4	96.9	87.4	84.2	84.2	84.2
30°	125.5	125.5	119.1	109.6	109.6	96.9	82.6	76.2	73.1	73.1	71.5
32.5°	117.5	114.4	106.4	100.1	95.3	82.6	73.1	66.7	61.9	61.9	63.5
35°	95.3	95.3	93.7	89.0	82.6	69.9	61.9	55.6	52.4	50.8	52.4
37.5°	84.2	79.4	73.1	74.7	71.5	60.4	52.4	47.7	42.9	42.9	42.9
40°	76.2	71.5	65.1	60.4	58.8	54.0	46.1	38.1	33.4	31.8	31.8
42.5°	68.3	65.1	55.6	47.7	46.1	46.1	34.9	28.6	23.8	23.8	23.8
45°	63.5	58.8	50.8	41.3	33.4	34.9	28.6	20.6	17.5	15.9	15.9
47.5°	60.4	55.6	44.5	34.9	25.4	25.4	20.6	14.3	11.1	9.5	9.5
50°	55.6	50.8	39.7	28.6	19.1	15.9	12.7	7.9	4.8	3.2	3.2
52.5°	52.4	47.7	34.9	23.8	15.9	11.1	7.9	1.6	0.0	0.0	0.0
55°	47.7	41.3	30.2	19.1	12.7	6.4	1.6	0.0	0.0	0.0	0.0
57.5°	41.3	36.5	23.8	14.3	7.9	1.6	0.0	0.0	0.0	0.0	0.0
60°	34.9	30.2	19.1	11.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	28.6	25.4	14.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	23.8	19.1	11.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	20.6	15.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15.9	11.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11.1	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.6	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: P677468  
 CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4
2.5°	2020.5	2068.1	2112.6	2125.3	2160.2	2257.1	2257.1	2303.2	2385.8	2416.0	2422.3
5°	1704.4	1755.2	1764.7	1863.2	1909.3	2007.8	2072.9	2228.5	2322.3	2381.0	2417.6
7.5°	1296.1	1313.6	1350.2	1442.3	1532.8	1651.9	1775.8	1974.4	2139.6	2206.3	2330.2
10°	891.1	943.5	1022.9	1105.5	1246.9	1378.7	1539.2	1726.6	1929.9	2012.5	2118.9
12.5°	600.4	673.5	800.6	918.1	1048.4	1181.8	1334.3	1585.2	1815.6	1929.9	2036.3
15°	351.0	440.0	549.6	740.2	913.3	1062.6	1215.1	1469.3	1748.8	1896.6	2026.8
17.5°	177.9	204.9	295.4	460.6	689.4	934.0	1161.1	1485.2	1799.7	1980.8	2088.8
20°	133.4	141.4	166.8	244.6	471.8	772.0	1110.3	1509.0	1941.0	2161.8	2220.6
22.5°	116.0	122.3	133.4	158.8	265.3	590.9	1038.8	1567.8	2133.2	2341.3	2465.2
25°	98.5	104.8	114.4	130.2	170.0	401.9	951.5	1629.7	2304.8	2566.9	2682.8
27.5°	85.8	90.5	100.1	112.8	138.2	255.7	800.6	1712.3	2566.9	2840.1	2870.3
30°	73.1	77.8	85.8	100.1	117.5	181.1	587.7	1723.4	2711.4	2959.2	3043.4
32.5°	63.5	65.1	74.7	87.4	98.5	143.0	413.0	1734.5	2817.8	3113.3	3130.8
35°	52.4	55.6	65.1	73.1	85.8	112.8	312.9	1679.0	2956.0	3272.1	3267.4
37.5°	42.9	47.7	54.0	60.4	69.9	95.3	249.4	1575.7	3129.2	3518.3	3369.0
40°	33.4	38.1	44.5	52.4	58.8	85.8	187.4	1420.0	3310.3	3639.1	3480.2
42.5°	23.8	27.0	33.4	41.3	52.4	71.5	135.0	1235.8	3381.7	3780.4	3613.6
45°	17.5	20.6	25.4	34.9	54.0	57.2	93.7	1067.4	3458.0	3842.4	3583.5
47.5°	9.5	12.7	19.1	30.2	47.7	42.9	66.7	916.5	3545.3	3898.0	3607.3
50°	3.2	4.8	11.1	31.8	38.1	33.4	52.4	835.5	3631.1	3909.1	3654.9
52.5°	0.0	0.0	6.4	33.4	28.6	25.4	46.1	803.7	3608.9	3944.0	3624.8
55°	0.0	0.0	1.6	14.3	15.9	19.1	38.1	802.1	3766.1	3955.1	3790.0
57.5°	0.0	0.0	0.0	4.8	9.5	15.9	33.4	751.3	3866.2	4231.5	4012.3
60°	0.0	0.0	0.0	1.6	6.4	11.1	25.4	706.8	3967.9	4355.4	4250.6
62.5°	0.0	0.0	0.0	0.0	1.6	4.8	17.5	638.5	3762.9	4345.9	4480.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	11.1	505.1	3384.9	4118.8	4353.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	349.5	2964.0	3832.8	4120.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	211.3	2392.1	3361.1	3494.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.5	1707.5	2668.5	2867.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5	1056.3	1950.6	2195.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	684.6	1477.2	1666.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	365.3	926.0	1076.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.8	562.3	648.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.8	341.5	389.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.4	69.9
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: P677468

CATALOG NUMBER: CCW-SA-2D-827-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4	2252.4
2.5°	2425.5	2471.6	2489.0	2462.0	2465.2	2409.6	2401.7	2323.8	2292.1	2298.4
5°	2536.7	2603.4	2639.9	2609.8	2541.5	2435.0	2338.1	2246.0	2188.8	2160.2
7.5°	2511.3	2585.9	2632.0	2660.6	2582.8	2411.2	2263.5	2090.4	2017.3	2018.9
10°	2371.5	2527.2	2620.9	2584.3	2547.8	2376.3	2147.5	1960.1	1895.0	1901.3
12.5°	2258.7	2431.9	2487.5	2516.0	2441.4	2304.8	2150.7	1936.3	1863.2	1818.7
15°	2188.8	2317.5	2320.7	2365.1	2335.0	2335.0	2184.1	1974.4	1910.9	1861.6
17.5°	2188.8	2217.4	2214.2	2230.1	2281.0	2341.3	2268.3	2128.5	2003.0	1995.0
20°	2238.1	2149.1	2128.5	2134.8	2177.7	2357.2	2454.1	2279.4	2200.0	2174.5
22.5°	2352.4	2157.1	2031.6	2009.3	2141.2	2355.6	2573.2	2517.6	2379.4	2358.8
25°	2509.7	2142.8	2006.2	1977.6	2077.6	2412.8	2736.8	2748.0	2622.5	2579.6
27.5°	2659.0	2206.3	2003.0	1996.6	2128.5	2400.1	2849.6	2932.2	2790.8	2755.9
30°	2709.8	2269.8	2061.8	1977.6	2147.5	2446.2	2846.4	3062.5	2970.3	2978.3
32.5°	2770.2	2333.4	2068.1	2034.8	2228.5	2520.8	2937.0	3272.1	3205.4	3111.7
35°	2859.1	2419.2	2128.5	2098.3	2285.7	2587.5	2956.0	3426.2	3415.1	3305.5
37.5°	2935.4	2503.3	2254.0	2258.7	2460.5	2695.5	3040.2	3615.2	3596.2	3521.5
40°	2989.4	2620.9	2449.3	2462.0	2612.9	2816.3	3189.5	3710.5	3851.9	3742.3
42.5°	2997.3	2725.7	2673.3	2775.0	2916.3	3003.7	3249.9	3775.7	3979.0	3907.5
45°	3027.5	2892.5	3038.6	3113.3	3229.2	3168.9	3246.7	3886.8	3988.5	3952.0
47.5°	3145.1	3195.9	3380.1	3607.3	3648.6	3450.0	3323.0	3904.3	4042.5	4037.7
50°	3267.4	3521.5	3780.4	3931.3	3983.7	3643.8	3394.4	3890.0	4114.0	4075.9
52.5°	3404.0	3804.2	4177.5	4363.4	4334.8	3858.3	3475.4	4006.0	4245.8	4233.1
55°	3489.7	3931.3	4433.3	4692.2	4669.9	4098.1	3732.8	4172.8	4419.0	4387.2
57.5°	3716.9	4137.8	4687.4	4808.1	4866.9	4412.6	3912.3	4446.0	4563.5	4598.5
60°	3904.3	4272.8	4754.1	4928.8	4949.5	4600.0	4226.8	4727.1	4747.8	4630.2
62.5°	4179.1	4325.2	4612.8	4770.0	4876.4	4706.5	4509.5	4878.0	4744.6	4736.6
65°	4380.8	4153.7	4349.1	4436.4	4504.7	4544.4	4793.8	4981.3	4685.8	4531.7
67.5°	4268.1	3829.7	3793.1	3797.9	3818.5	4058.4	4698.5	4728.7	4358.6	4231.5
70°	3756.6	3141.9	3092.6	3130.8	3027.5	3316.6	4312.5	4298.2	3845.5	3713.7
72.5°	3038.6	2290.5	2206.3	2258.7	2282.5	2589.1	3627.9	3259.4	2805.1	2701.9
75°	2414.4	1679.0	1416.9	1543.9	1624.9	1885.4	2833.7	2214.2	1958.5	1818.7
77.5°	1896.6	1270.7	1102.4	1051.5	1126.2	1370.8	2061.8	1162.7	1026.1	961.0
80°	1202.4	934.0	1013.4	940.3	972.1	978.5	1073.8	528.9	420.9	416.2
82.5°	724.3	638.5	759.3	417.8	760.8	679.8	446.3	239.9	212.8	212.8
85°	513.1	395.5	262.1	170.0	338.3	373.3	173.1	123.9	108.0	104.8
87.5°	257.3	122.3	58.8	38.1	42.9	69.9	20.6	9.5	9.5	7.9
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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