

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: P677467

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677467
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-827-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

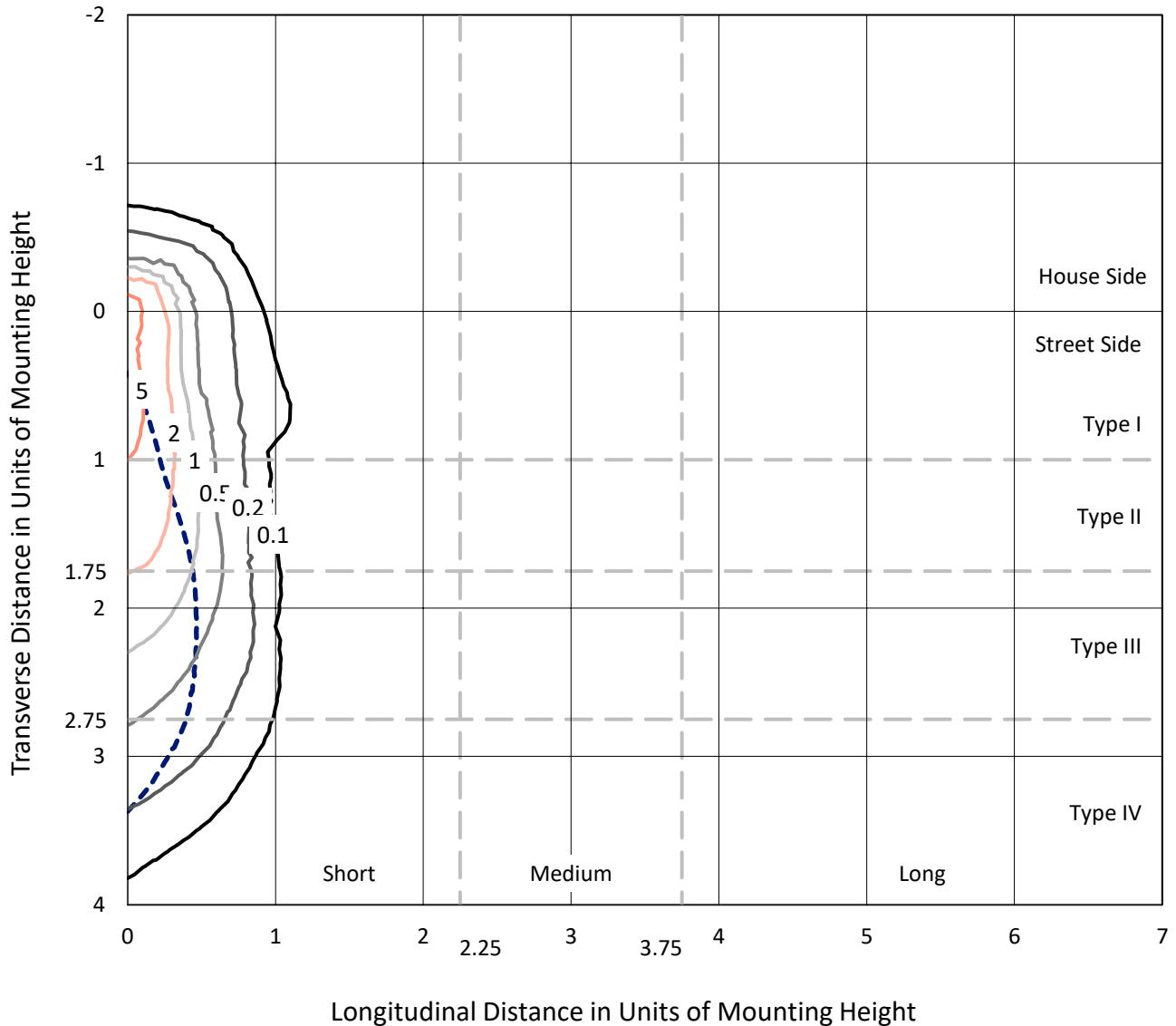
Lumens per Lamp: N/A
Luminaire Lumens: 4776.3 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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: P677467
 CATALOG NUMBER: CCW-SA-2C-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

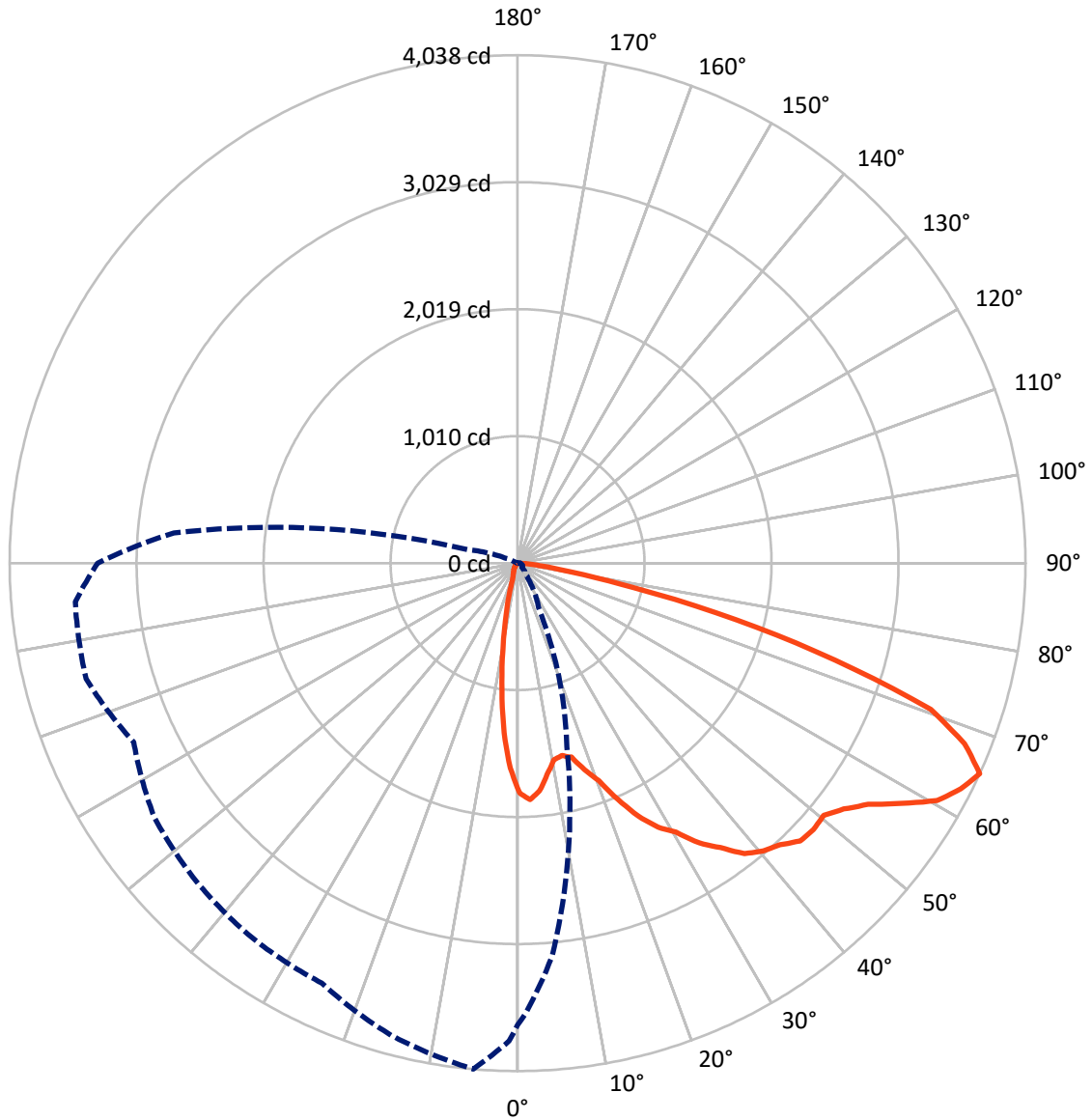
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P677467
CATALOG NUMBER: CCW-SA-2C-827-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677467
 CATALOG NUMBER: CCW-SA-2C-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.2	0.0	620.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4156.2	0.0	4156.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	4776.3	0.0	4776.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	2.9
10°-20°	267.8	5.6
20°-30°	373.0	7.8
30°-40°	530.0	11.1
40°-50°	735.0	15.4
50°-60°	1001.5	21.0
60°-70°	1101.1	23.1
70°-80°	541.2	11.3
80°-90°	88.4	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°	4776.3	100.0
0°-180°	4776.3	100.0



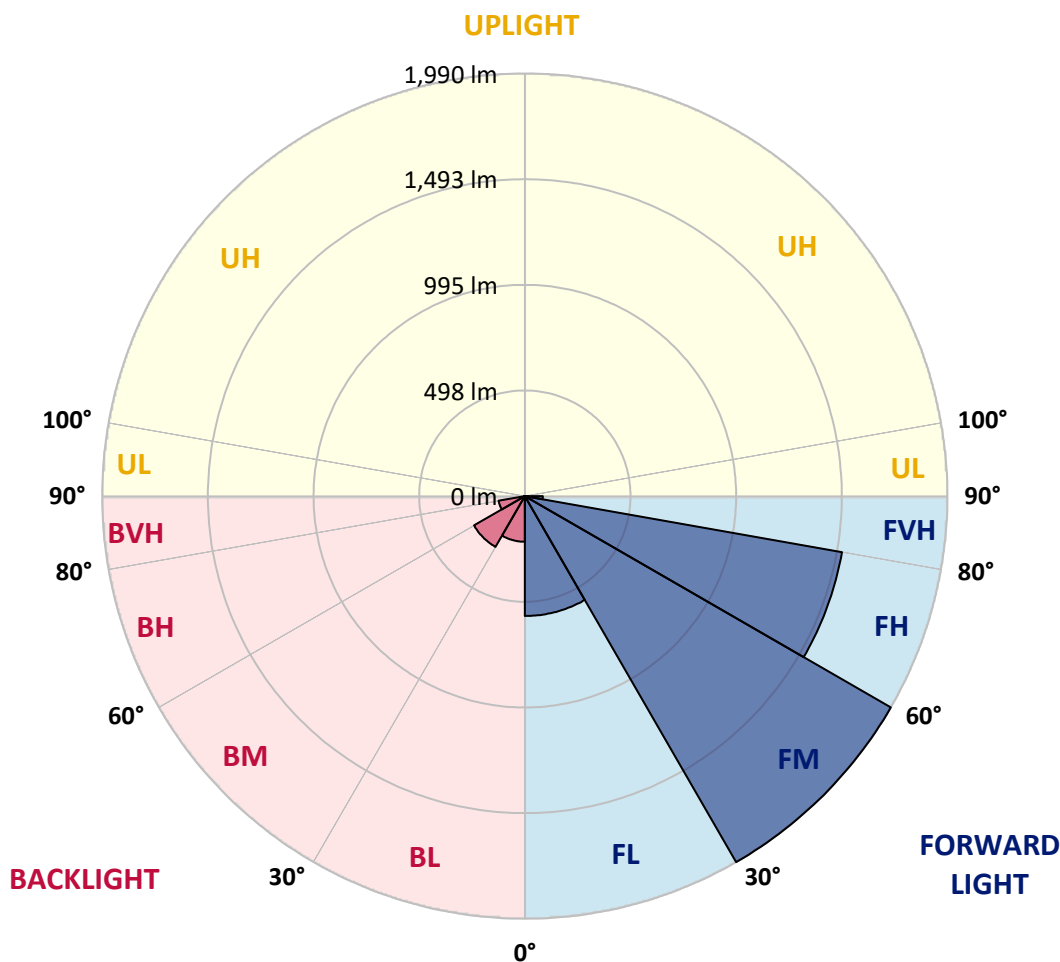
REPORT NUMBER: P677467
 CATALOG NUMBER: CCW-SA-2C-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.5	11.8			
FM (30°-60°)	1990.4	41.7			
FH (60°-80°)	1516.9	31.8			G1/1800
FVH (80°-90°)	84.4	1.8			G1/100
BL (0°-30°)	214.7	4.5	B1/500		
BM (30°-60°)	276.1	5.8	B1/1000		
BH (60°-80°)	125.3	2.6	B1/500		G1/500
BVH (80°-90°)	4.0	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: P677467
 CATALOG NUMBER: CCW-SA-2C-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0
2.5°	1863.3	1885.2	1864.6	1792.5	1779.6	1744.9	1692.1	1688.2	1632.8	1639.3	1609.7
5°	1751.3	1773.2	1729.4	1634.1	1545.3	1474.4	1431.9	1356.0	1339.2	1301.9	1301.9
7.5°	1636.7	1635.4	1560.7	1480.9	1348.2	1218.2	1158.9	1049.5	985.1	950.3	916.9
10°	1541.4	1520.8	1474.4	1309.6	1165.4	1030.2	956.8	884.7	817.7	759.8	701.8
12.5°	1474.4	1487.3	1413.9	1234.9	1048.2	954.2	875.7	799.7	719.8	654.2	589.8
15°	1509.2	1488.6	1402.3	1218.2	1028.9	900.1	795.8	703.1	614.2	528.0	479.0
17.5°	1617.4	1564.6	1462.9	1218.2	989.0	817.7	691.5	582.0	486.8	409.5	349.0
20°	1762.9	1702.4	1592.9	1263.3	959.4	757.2	584.6	446.8	347.7	275.6	229.2
22.5°	1912.3	1864.6	1699.8	1281.3	924.6	676.1	461.0	323.2	231.8	185.4	162.3
25°	2091.3	2024.3	1844.0	1353.4	873.1	597.5	363.1	225.4	172.6	148.1	133.9
27.5°	2234.2	2222.6	1979.2	1397.2	834.4	533.1	287.2	179.0	142.9	124.9	115.9
30°	2414.5	2351.4	2144.1	1484.7	790.7	459.7	239.5	161.0	131.3	112.0	105.6
32.5°	2522.6	2493.0	2230.3	1533.7	741.7	399.2	206.0	141.6	119.8	105.6	99.2
35°	2679.7	2620.5	2354.0	1564.6	716.0	364.4	185.4	128.8	100.4	86.3	78.6
37.5°	2854.9	2833.0	2502.0	1563.3	678.6	343.8	171.3	119.8	95.3	79.8	70.8
40°	3033.9	2945.0	2592.2	1599.3	659.3	328.4	161.0	114.6	90.1	76.0	64.4
42.5°	3167.8	3066.1	2696.5	1586.5	636.1	301.3	157.1	106.9	86.3	69.5	59.2
45°	3203.8	3167.8	2790.5	1582.6	619.4	279.4	150.7	105.6	83.7	65.7	55.4
47.5°	3273.4	3248.9	2906.4	1589.0	606.5	262.7	135.2	108.2	79.8	61.8	52.8
50°	3304.3	3260.5	3000.4	1604.5	576.9	242.1	121.0	113.3	78.6	60.5	50.2
52.5°	3431.8	3393.1	3129.2	1648.3	552.4	215.0	106.9	108.2	81.1	56.7	47.6
55°	3556.7	3512.9	3327.5	1748.7	517.7	193.2	91.4	95.3	77.3	51.5	42.5
57.5°	3728.0	3655.8	3460.1	1789.9	486.8	163.5	81.1	78.6	72.1	46.4	37.3
60°	3753.7	3783.3	3440.8	1764.2	454.6	144.2	70.8	60.5	77.3	41.2	32.2
62.5°	3840.0	3716.4	3350.6	1704.9	431.4	132.6	63.1	50.2	67.0	36.1	27.0
65°	3673.9	3582.4	3139.5	1514.4	401.8	133.9	55.4	41.2	42.5	29.6	21.9
67.5°	3430.5	3358.4	2789.2	1307.0	372.2	131.3	48.9	36.1	32.2	25.8	19.3
70°	3010.7	2854.9	2369.4	1061.1	328.4	122.3	41.2	32.2	27.0	20.6	14.2
72.5°	2190.4	2127.3	1699.8	820.3	294.9	110.7	38.6	27.0	23.2	15.5	11.6
75°	1474.4	1370.1	1072.7	538.3	236.9	96.6	32.2	24.5	18.0	11.6	9.0
77.5°	779.1	736.6	607.8	256.3	131.3	45.1	18.0	14.2	10.3	9.0	5.2
80°	337.4	300.0	262.7	104.3	46.4	20.6	11.6	7.7	6.4	5.2	2.6
82.5°	172.6	164.8	136.5	45.1	27.0	15.5	6.4	5.2	3.9	2.6	1.3
85°	85.0	87.6	72.1	14.2	15.5	9.0	1.3	1.3	0.0	0.0	0.0
87.5°	6.4	6.4	5.2	2.6	3.9	1.3	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: P677467
 CATALOG NUMBER: CCW-SA-2C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0
2.5°	1598.1	1616.1	1585.2	1604.5	1595.5	1599.3	1603.2	1592.9	1595.5	1631.5	1632.8
5°	1280.0	1314.8	1301.9	1319.9	1350.8	1335.4	1349.5	1347.0	1349.5	1354.7	1377.9
7.5°	913.0	902.7	927.2	974.8	1030.2	1063.7	1046.9	1037.9	1032.8	1019.9	1035.3
10°	688.9	683.8	677.3	691.5	727.6	764.9	785.5	750.7	731.4	707.0	697.9
12.5°	571.7	539.6	521.5	499.6	509.9	543.4	544.7	511.2	480.3	467.4	481.6
15°	450.7	428.8	396.6	365.7	350.3	376.0	354.1	321.9	282.0	276.9	275.6
17.5°	321.9	309.1	285.9	273.0	255.0	248.5	225.4	176.4	148.1	140.4	142.9
20°	218.9	208.6	207.3	195.7	188.0	182.9	145.5	113.3	104.3	105.6	106.9
22.5°	162.3	157.1	150.7	149.4	142.9	136.5	106.9	95.3	88.9	88.9	92.7
25°	132.6	130.1	123.6	121.0	118.5	109.5	90.1	81.1	78.6	76.0	79.8
27.5°	113.3	112.0	108.2	104.3	101.7	92.7	78.6	70.8	68.2	68.2	68.2
30°	101.7	101.7	96.6	88.9	88.9	78.6	67.0	61.8	59.2	59.2	57.9
32.5°	95.3	92.7	86.3	81.1	77.3	67.0	59.2	54.1	50.2	50.2	51.5
35°	77.3	77.3	76.0	72.1	67.0	56.7	50.2	45.1	42.5	41.2	42.5
37.5°	68.2	64.4	59.2	60.5	57.9	48.9	42.5	38.6	34.8	34.8	34.8
40°	61.8	57.9	52.8	48.9	47.6	43.8	37.3	30.9	27.0	25.8	25.8
42.5°	55.4	52.8	45.1	38.6	37.3	37.3	28.3	23.2	19.3	19.3	19.3
45°	51.5	47.6	41.2	33.5	27.0	28.3	23.2	16.7	14.2	12.9	12.9
47.5°	48.9	45.1	36.1	28.3	20.6	20.6	16.7	11.6	9.0	7.7	7.7
50°	45.1	41.2	32.2	23.2	15.5	12.9	10.3	6.4	3.9	2.6	2.6
52.5°	42.5	38.6	28.3	19.3	12.9	9.0	6.4	1.3	0.0	0.0	0.0
55°	38.6	33.5	24.5	15.5	10.3	5.2	1.3	0.0	0.0	0.0	0.0
57.5°	33.5	29.6	19.3	11.6	6.4	1.3	0.0	0.0	0.0	0.0	0.0
60°	28.3	24.5	15.5	9.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23.2	20.6	11.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19.3	15.5	9.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16.7	12.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.9	9.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.0	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	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: P677467
 CATALOG NUMBER: CCW-SA-2C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0
2.5°	1638.0	1676.6	1712.7	1723.0	1751.3	1829.9	1829.9	1867.2	1934.2	1958.6	1963.8
5°	1381.7	1422.9	1430.7	1510.5	1547.8	1627.7	1680.5	1806.7	1882.6	1930.3	1959.9
7.5°	1050.8	1064.9	1094.6	1169.3	1242.7	1339.2	1439.7	1600.6	1734.6	1788.6	1889.1
10°	722.4	764.9	829.3	896.3	1010.9	1117.7	1247.8	1399.8	1564.6	1631.5	1717.8
12.5°	486.8	546.0	649.0	744.3	849.9	958.1	1081.7	1285.1	1471.9	1564.6	1650.9
15°	284.6	356.7	445.6	600.1	740.4	861.5	985.1	1191.1	1417.8	1537.5	1643.1
17.5°	144.2	166.1	239.5	373.4	558.9	757.2	941.3	1204.0	1459.0	1605.8	1693.4
20°	108.2	114.6	135.2	198.3	382.5	625.8	900.1	1223.3	1573.6	1752.6	1800.2
22.5°	94.0	99.2	108.2	128.8	215.0	479.0	842.2	1271.0	1729.4	1898.1	1998.5
25°	79.8	85.0	92.7	105.6	137.8	325.8	771.3	1321.2	1868.5	2081.0	2175.0
27.5°	69.5	73.4	81.1	91.4	112.0	207.3	649.0	1388.2	2081.0	2302.4	2326.9
30°	59.2	63.1	69.5	81.1	95.3	146.8	476.5	1397.2	2198.1	2399.0	2467.3
32.5°	51.5	52.8	60.5	70.8	79.8	115.9	334.8	1406.2	2284.4	2523.9	2538.1
35°	42.5	45.1	52.8	59.2	69.5	91.4	253.7	1361.1	2396.4	2652.7	2648.8
37.5°	34.8	38.6	43.8	48.9	56.7	77.3	202.2	1277.4	2536.8	2852.3	2731.3
40°	27.0	30.9	36.1	42.5	47.6	69.5	152.0	1151.2	2683.6	2950.2	2821.4
42.5°	19.3	21.9	27.0	33.5	42.5	57.9	109.5	1001.8	2741.6	3064.8	2929.6
45°	14.2	16.7	20.6	28.3	43.8	46.4	76.0	865.3	2803.4	3115.0	2905.1
47.5°	7.7	10.3	15.5	24.5	38.6	34.8	54.1	743.0	2874.2	3160.1	2924.4
50°	2.6	3.9	9.0	25.8	30.9	27.0	42.5	677.3	2943.7	3169.1	2963.0
52.5°	0.0	0.0	5.2	27.0	23.2	20.6	37.3	651.6	2925.7	3197.4	2938.6
55°	0.0	0.0	1.3	11.6	12.9	15.5	30.9	650.3	3053.2	3206.4	3072.5
57.5°	0.0	0.0	0.0	3.9	7.7	12.9	27.0	609.1	3134.3	3430.5	3252.8
60°	0.0	0.0	0.0	1.3	5.2	9.0	20.6	573.0	3216.7	3530.9	3445.9
62.5°	0.0	0.0	0.0	0.0	1.3	3.9	14.2	517.7	3050.6	3523.2	3632.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	409.5	2744.1	3339.1	3529.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	283.3	2402.9	3107.3	3340.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	171.3	1939.3	2724.8	2833.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.4	1384.3	2163.4	2324.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6	856.3	1581.3	1779.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	555.0	1197.6	1350.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	296.2	750.7	873.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.8	455.9	525.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.2	276.9	315.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5	56.7
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: P677467

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0	1826.0
2.5°	1966.3	2003.7	2017.9	1996.0	1998.5	1953.5	1947.0	1883.9	1858.2	1863.3
5°	2056.5	2110.6	2140.2	2115.7	2060.4	1974.1	1895.5	1820.8	1774.5	1751.3
7.5°	2035.9	2096.4	2133.8	2156.9	2093.8	1954.8	1835.0	1694.6	1635.4	1636.7
10°	1922.6	2048.8	2124.7	2095.1	2065.5	1926.4	1741.0	1589.0	1536.3	1541.4
12.5°	1831.1	1971.5	2016.6	2039.7	1979.2	1868.5	1743.6	1569.7	1510.5	1474.4
15°	1774.5	1878.8	1881.4	1917.4	1892.9	1892.9	1770.6	1600.6	1549.1	1509.2
17.5°	1774.5	1797.7	1795.1	1808.0	1849.2	1898.1	1838.9	1725.5	1623.8	1617.4
20°	1814.4	1742.3	1725.5	1730.7	1765.5	1911.0	1989.5	1847.9	1783.5	1762.9
22.5°	1907.1	1748.7	1647.0	1629.0	1735.8	1909.7	2086.1	2041.0	1929.0	1912.3
25°	2034.6	1737.1	1626.4	1603.2	1684.3	1956.0	2218.7	2227.8	2126.0	2091.3
27.5°	2155.6	1788.6	1623.8	1618.7	1725.5	1945.7	2310.2	2377.1	2262.5	2234.2
30°	2196.9	1840.2	1671.5	1603.2	1741.0	1983.1	2307.6	2482.7	2408.0	2414.5
32.5°	2245.8	1891.7	1676.6	1649.6	1806.7	2043.6	2381.0	2652.7	2598.6	2522.6
35°	2317.9	1961.2	1725.5	1701.1	1853.0	2097.7	2396.4	2777.6	2768.6	2679.7
37.5°	2379.7	2029.4	1827.3	1831.1	1994.7	2185.3	2464.7	2930.9	2915.4	2854.9
40°	2423.5	2124.7	1985.7	1996.0	2118.3	2283.1	2585.7	3008.1	3122.7	3033.9
42.5°	2429.9	2209.7	2167.2	2249.6	2364.3	2435.1	2634.7	3060.9	3225.7	3167.8
45°	2454.4	2344.9	2463.4	2523.9	2617.9	2569.0	2632.1	3151.1	3233.5	3203.8
47.5°	2549.7	2590.9	2740.3	2924.4	2957.9	2796.9	2693.9	3165.2	3277.2	3273.4
50°	2648.8	2854.9	3064.8	3187.1	3229.6	2954.0	2751.9	3153.6	3335.2	3304.3
52.5°	2759.6	3084.1	3386.7	3537.4	3514.2	3127.9	2817.5	3247.6	3442.1	3431.8
55°	2829.1	3187.1	3594.0	3803.9	3785.9	3322.3	3026.1	3382.8	3582.4	3556.7
57.5°	3013.3	3354.5	3800.1	3897.9	3945.6	3577.3	3171.7	3604.3	3699.6	3728.0
60°	3165.2	3464.0	3854.1	3995.8	4012.5	3729.2	3426.6	3832.3	3849.0	3753.7
62.5°	3388.0	3506.5	3739.5	3867.0	3953.3	3815.5	3655.8	3954.6	3846.4	3840.0
65°	3551.5	3367.4	3525.8	3596.6	3652.0	3684.2	3886.3	4038.3	3798.8	3673.9
67.5°	3460.1	3104.7	3075.1	3078.9	3095.7	3290.1	3809.1	3833.5	3533.5	3430.5
70°	3045.5	2547.1	2507.2	2538.1	2454.4	2688.8	3496.2	3484.6	3117.6	3010.7
72.5°	2463.4	1856.9	1788.6	1831.1	1850.5	2099.0	2941.2	2642.4	2274.1	2190.4
75°	1957.3	1361.1	1148.6	1251.7	1317.3	1528.5	2297.3	1795.1	1587.8	1474.4
77.5°	1537.5	1030.2	893.7	852.5	913.0	1111.3	1671.5	942.6	831.9	779.1
80°	974.8	757.2	821.6	762.3	788.1	793.2	870.5	428.8	341.2	337.4
82.5°	587.2	517.7	615.5	338.7	616.8	551.1	361.8	194.4	172.6	172.6
85°	415.9	320.6	212.5	137.8	274.3	302.6	140.4	100.4	87.6	85.0
87.5°	208.6	99.2	47.6	30.9	34.8	56.7	16.7	7.7	7.7	6.4
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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