

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: P677433

Luminaire Tested: **CCW-SA-2B-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677433
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-740-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

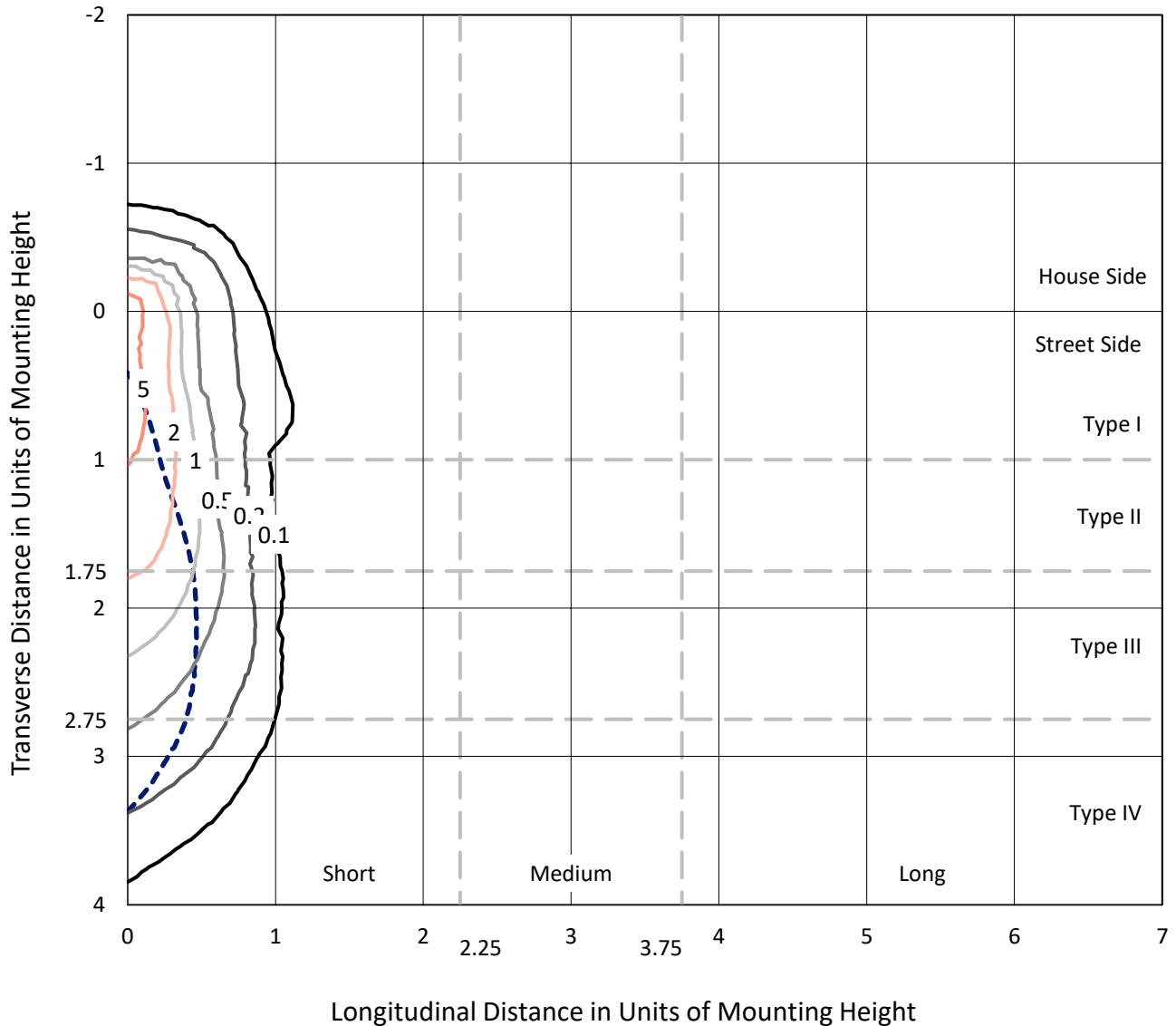
Lumens per Lamp: N/A
Luminaire Lumens: 4963 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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: P677433
 CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

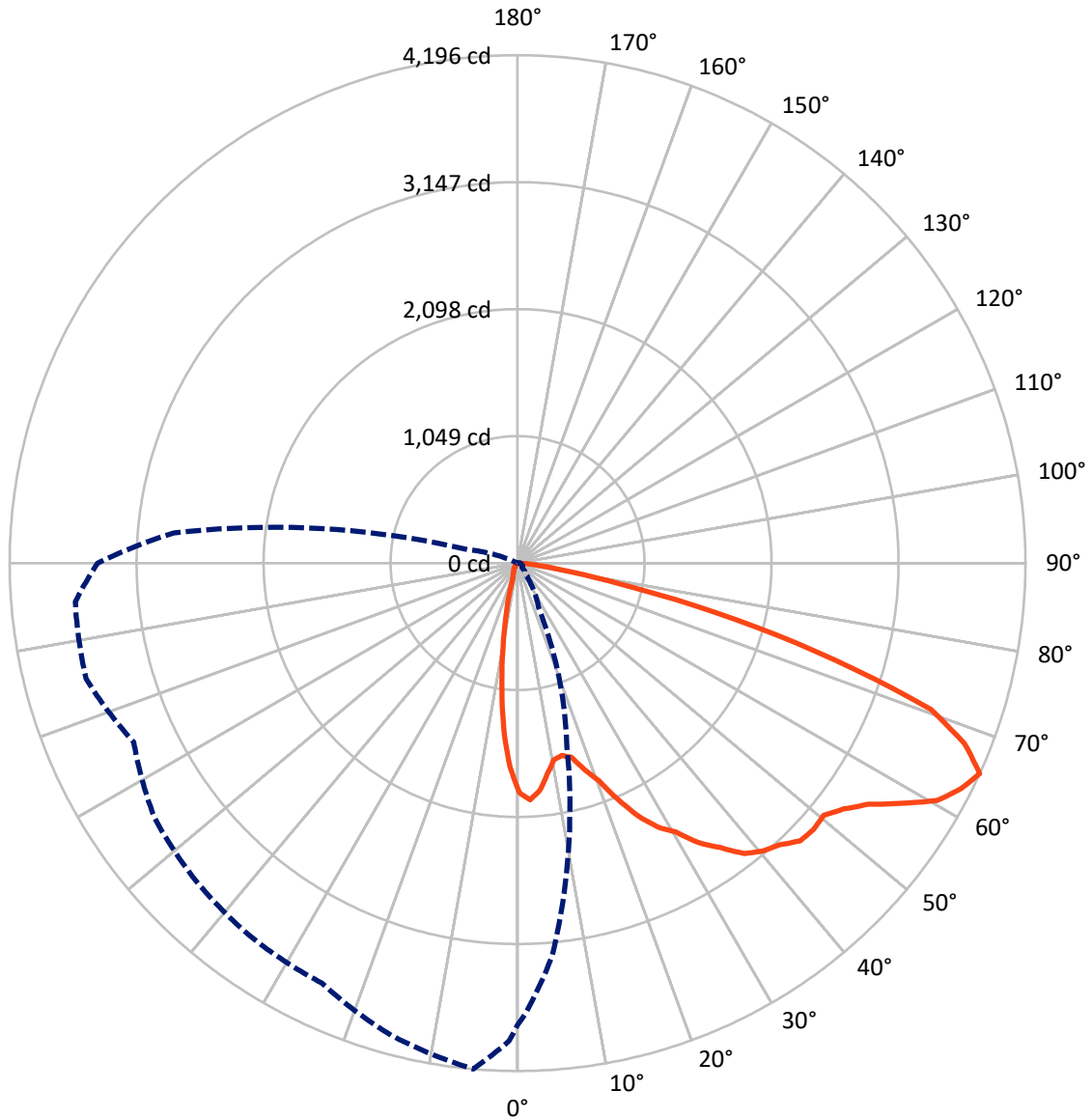
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P677433
CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677433

CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

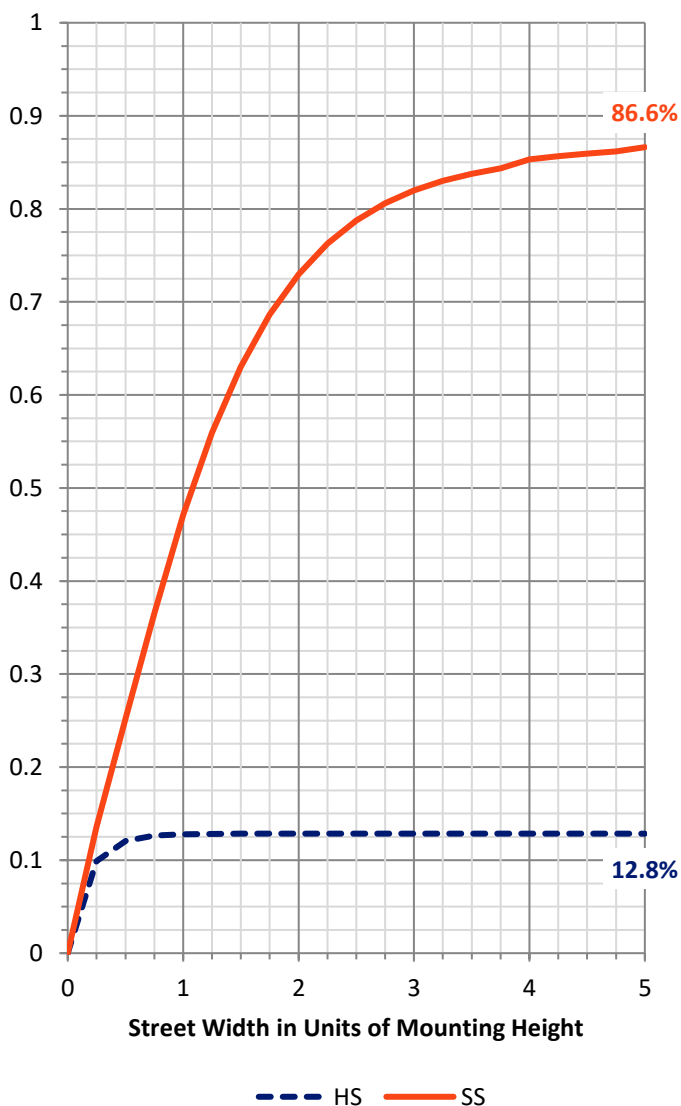
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	644.4	0.0	644.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4318.6	0.0	4318.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	4963.0	0.0	4963.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	2.9
10°-20°	278.3	5.6
20°-30°	387.6	7.8
30°-40°	550.8	11.1
40°-50°	763.7	15.4
50°-60°	1040.6	21.0
60°-70°	1144.1	23.1
70°-80°	562.3	11.3
80°-90°	91.8	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°	4963.0	100.0
0°-180°	4963.0	100.0



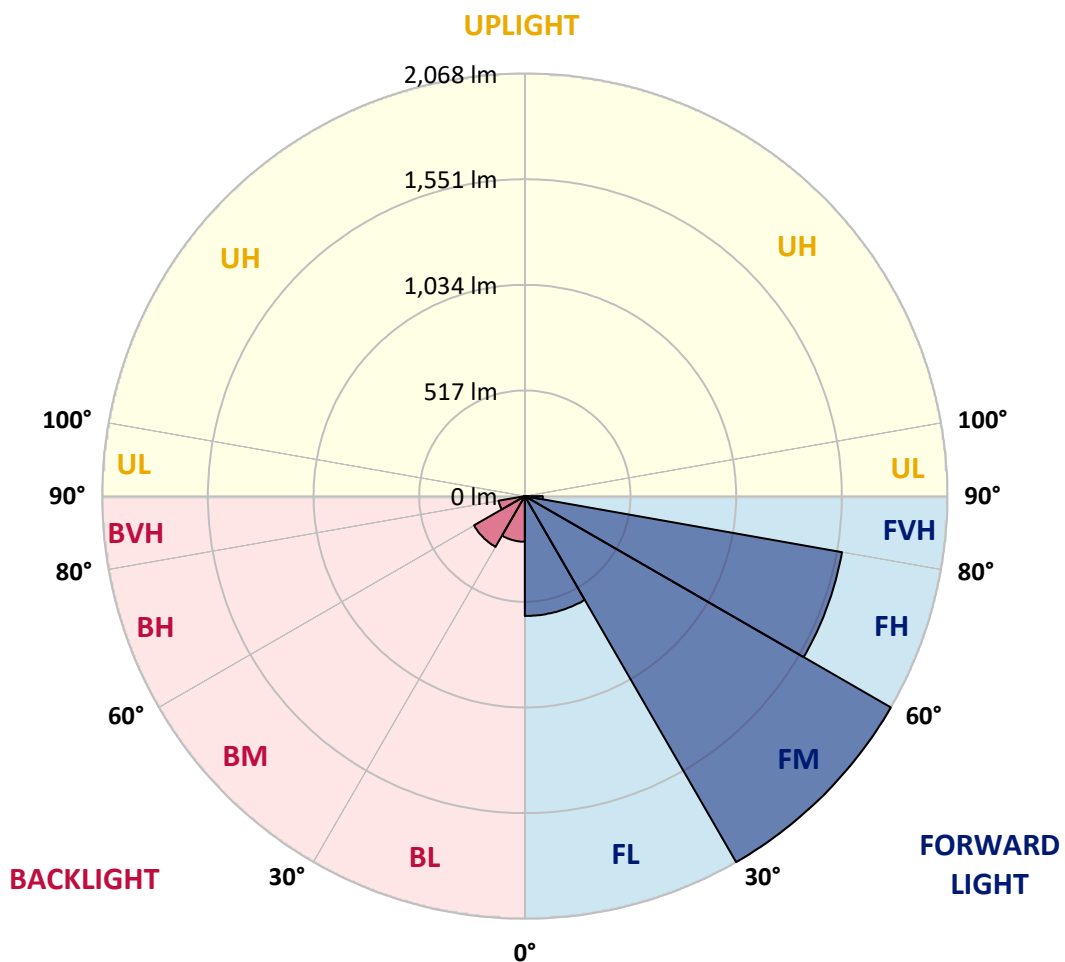
REPORT NUMBER: P677433
 CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.5	11.8			
FM (30°-60°)	2068.2	41.7			
FH (60°-80°)	1576.2	31.8			G1/1800
FVH (80°-90°)	87.7	1.8			G1/100
BL (0°-30°)	223.1	4.5	B1/500		
BM (30°-60°)	286.9	5.8	B1/1000		
BH (60°-80°)	130.2	2.6	B1/500		G1/500
BVH (80°-90°)	4.1	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: P677433

CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4
2.5°	1936.2	1958.9	1937.5	1862.6	1849.2	1813.1	1758.2	1754.2	1696.7	1703.3	1672.6
5°	1819.8	1842.5	1797.0	1698.0	1605.7	1532.1	1487.9	1409.0	1391.6	1352.8	1352.8
7.5°	1700.7	1699.3	1621.7	1538.8	1400.9	1265.8	1204.2	1090.5	1023.6	987.5	952.7
10°	1601.6	1580.2	1532.1	1360.8	1210.9	1070.4	994.2	919.2	849.7	789.5	729.2
12.5°	1532.1	1545.5	1469.2	1283.2	1089.2	991.5	909.9	830.9	748.0	679.7	612.8
15°	1568.2	1546.8	1457.1	1265.8	1069.1	935.3	826.9	730.6	638.3	548.6	497.8
17.5°	1680.6	1625.7	1520.0	1265.8	1027.6	849.7	718.5	604.8	505.8	425.5	362.6
20°	1831.8	1768.9	1655.2	1312.6	996.8	786.8	607.5	464.3	361.3	286.3	238.2
22.5°	1987.0	1937.5	1766.2	1331.4	960.7	702.5	479.0	335.9	240.8	192.7	168.6
25°	2173.0	2103.4	1916.1	1406.3	907.2	620.9	377.3	234.2	179.3	153.9	139.2
27.5°	2321.5	2309.5	2056.6	1451.8	867.1	554.0	298.4	186.0	148.5	129.8	120.4
30°	2508.8	2443.3	2227.9	1542.8	821.6	477.7	248.9	167.3	136.5	116.4	109.7
32.5°	2621.2	2590.5	2317.5	1593.6	770.7	414.8	214.1	147.2	124.4	109.7	103.0
35°	2784.5	2722.9	2446.0	1625.7	744.0	378.7	192.7	133.8	104.4	89.6	81.6
37.5°	2966.5	2943.7	2599.8	1624.4	705.2	357.3	178.0	124.4	99.0	83.0	73.6
40°	3152.5	3060.1	2693.5	1661.9	685.1	341.2	167.3	119.1	93.7	78.9	66.9
42.5°	3291.6	3185.9	2801.9	1648.5	661.0	313.1	163.2	111.1	89.6	72.3	61.6
45°	3329.1	3291.6	2899.6	1644.5	643.6	290.4	156.6	109.7	87.0	68.2	57.5
47.5°	3401.3	3375.9	3020.0	1651.2	630.2	273.0	140.5	112.4	83.0	64.2	54.9
50°	3433.4	3387.9	3117.7	1667.2	599.4	251.6	125.8	117.7	81.6	62.9	52.2
52.5°	3565.9	3525.8	3251.5	1712.7	574.0	223.5	111.1	112.4	84.3	58.9	49.5
55°	3695.7	3650.2	3457.5	1817.1	537.9	200.7	95.0	99.0	80.3	53.5	44.2
57.5°	3873.7	3798.7	3595.3	1859.9	505.8	169.9	84.3	81.6	74.9	48.2	38.8
60°	3900.4	3931.2	3575.3	1833.1	472.3	149.9	73.6	62.9	80.3	42.8	33.5
62.5°	3990.1	3861.6	3481.6	1771.6	448.2	137.8	65.6	52.2	69.6	37.5	28.1
65°	3817.5	3722.5	3262.2	1573.5	417.5	139.2	57.5	42.8	44.2	30.8	22.7
67.5°	3564.6	3489.6	2898.2	1358.1	386.7	136.5	50.8	37.5	33.5	26.8	20.1
70°	3128.4	2966.5	2462.0	1102.6	341.2	127.1	42.8	33.5	28.1	21.4	14.7
72.5°	2276.0	2210.5	1766.2	852.3	306.4	115.1	40.1	28.1	24.1	16.1	12.0
75°	1532.1	1423.7	1114.6	559.3	246.2	100.4	33.5	25.4	18.7	12.0	9.4
77.5°	809.5	765.4	631.6	266.3	136.5	46.8	18.7	14.7	10.7	9.4	5.4
80°	350.6	311.8	273.0	108.4	48.2	21.4	12.0	8.0	6.7	5.4	2.7
82.5°	179.3	171.3	141.8	46.8	28.1	16.1	6.7	5.4	4.0	2.7	1.3
85°	88.3	91.0	74.9	14.7	16.1	9.4	1.3	1.3	0.0	0.0	0.0
87.5°	6.7	6.7	5.4	2.7	4.0	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: P677433
 CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4
2.5°	1660.5	1679.3	1647.1	1667.2	1657.8	1661.9	1665.9	1655.2	1657.8	1695.3	1696.7
5°	1330.0	1366.2	1352.8	1371.5	1403.6	1387.6	1402.3	1399.6	1402.3	1407.6	1431.7
7.5°	948.7	938.0	963.4	1012.9	1070.4	1105.2	1087.8	1078.5	1073.1	1059.7	1075.8
10°	715.9	710.5	703.8	718.5	756.0	794.8	816.2	780.1	760.0	734.6	725.2
12.5°	594.1	560.6	541.9	519.2	529.9	564.7	566.0	531.2	499.1	485.7	500.4
15°	468.3	445.6	412.1	380.0	364.0	390.7	368.0	334.5	293.0	287.7	286.3
17.5°	334.5	321.1	297.0	283.7	264.9	258.2	234.2	183.3	153.9	145.8	148.5
20°	227.5	216.8	215.4	203.4	195.4	190.0	151.2	117.7	108.4	109.7	111.1
22.5°	168.6	163.2	156.6	155.2	148.5	141.8	111.1	99.0	92.3	92.3	96.3
25°	137.8	135.1	128.5	125.8	123.1	113.7	93.7	84.3	81.6	78.9	83.0
27.5°	117.7	116.4	112.4	108.4	105.7	96.3	81.6	73.6	70.9	70.9	70.9
30°	105.7	105.7	100.4	92.3	92.3	81.6	69.6	64.2	61.6	61.6	60.2
32.5°	99.0	96.3	89.6	84.3	80.3	69.6	61.6	56.2	52.2	52.2	53.5
35°	80.3	80.3	78.9	74.9	69.6	58.9	52.2	46.8	44.2	42.8	44.2
37.5°	70.9	66.9	61.6	62.9	60.2	50.8	44.2	40.1	36.1	36.1	36.1
40°	64.2	60.2	54.9	50.8	49.5	45.5	38.8	32.1	28.1	26.8	26.8
42.5°	57.5	54.9	46.8	40.1	38.8	38.8	29.4	24.1	20.1	20.1	20.1
45°	53.5	49.5	42.8	34.8	28.1	29.4	24.1	17.4	14.7	13.4	13.4
47.5°	50.8	46.8	37.5	29.4	21.4	21.4	17.4	12.0	9.4	8.0	8.0
50°	46.8	42.8	33.5	24.1	16.1	13.4	10.7	6.7	4.0	2.7	2.7
52.5°	44.2	40.1	29.4	20.1	13.4	9.4	6.7	1.3	0.0	0.0	0.0
55°	40.1	34.8	25.4	16.1	10.7	5.4	1.3	0.0	0.0	0.0	0.0
57.5°	34.8	30.8	20.1	12.0	6.7	1.3	0.0	0.0	0.0	0.0	0.0
60°	29.4	25.4	16.1	9.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	24.1	21.4	12.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	20.1	16.1	9.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17.4	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.4	9.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.4	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.0	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: P677433
 CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4
2.5°	1702.0	1742.1	1779.6	1790.3	1819.8	1901.4	1901.4	1940.2	2009.8	2035.2	2040.5
5°	1435.7	1478.5	1486.6	1569.5	1608.3	1691.3	1746.2	1877.3	1956.2	2005.7	2036.5
7.5°	1091.9	1106.6	1137.3	1215.0	1291.2	1391.6	1495.9	1663.2	1802.4	1858.6	1962.9
10°	750.6	794.8	861.7	931.3	1050.4	1161.4	1296.6	1454.5	1625.7	1695.3	1785.0
12.5°	505.8	567.3	674.4	773.4	883.1	995.5	1124.0	1335.4	1529.4	1625.7	1715.4
15°	295.7	370.6	463.0	623.5	769.4	895.2	1023.6	1237.7	1473.2	1597.6	1707.4
17.5°	149.9	172.6	248.9	388.0	580.7	786.8	978.1	1251.1	1516.0	1668.6	1759.5
20°	112.4	119.1	140.5	206.1	397.4	650.3	935.3	1271.1	1635.1	1821.1	1870.6
22.5°	97.7	103.0	112.4	133.8	223.5	497.8	875.1	1320.7	1797.0	1972.3	2076.7
25°	83.0	88.3	96.3	109.7	143.2	338.5	801.5	1372.8	1941.5	2162.3	2260.0
27.5°	72.3	76.3	84.3	95.0	116.4	215.4	674.4	1442.4	2162.3	2392.4	2417.9
30°	61.6	65.6	72.3	84.3	99.0	152.5	495.1	1451.8	2284.1	2492.8	2563.7
32.5°	53.5	54.9	62.9	73.6	83.0	120.4	347.9	1461.2	2373.7	2622.6	2637.3
35°	44.2	46.8	54.9	61.6	72.3	95.0	263.6	1414.3	2490.1	2756.4	2752.4
37.5°	36.1	40.1	45.5	50.8	58.9	80.3	210.1	1327.3	2636.0	2963.8	2838.0
40°	28.1	32.1	37.5	44.2	49.5	72.3	157.9	1196.2	2788.5	3065.5	2931.7
42.5°	20.1	22.7	28.1	34.8	44.2	60.2	113.7	1041.0	2848.7	3184.6	3044.1
45°	14.7	17.4	21.4	29.4	45.5	48.2	78.9	899.2	2912.9	3236.7	3018.6
47.5°	8.0	10.7	16.1	25.4	40.1	36.1	56.2	772.1	2986.5	3283.6	3038.7
50°	2.7	4.0	9.4	26.8	32.1	28.1	44.2	703.8	3058.8	3292.9	3078.9
52.5°	0.0	0.0	5.4	28.1	24.1	21.4	38.8	677.1	3040.1	3322.4	3053.4
55°	0.0	0.0	1.3	12.0	13.4	16.1	32.1	675.7	3172.5	3331.7	3192.6
57.5°	0.0	0.0	0.0	4.0	8.0	13.4	28.1	632.9	3256.8	3564.6	3379.9
60°	0.0	0.0	0.0	1.3	5.4	9.4	21.4	595.4	3342.5	3668.9	3580.6
62.5°	0.0	0.0	0.0	0.0	1.3	4.0	14.7	537.9	3169.8	3660.9	3774.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	9.4	425.5	2851.4	3469.6	3667.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	294.4	2496.8	3228.7	3470.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.0	2015.1	2831.3	2943.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.3	1438.4	2247.9	2415.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	889.8	1643.1	1849.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	576.7	1244.4	1403.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	307.8	780.1	907.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.8	473.7	545.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.8	287.7	327.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2	58.9
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: P677433

CATALOG NUMBER: CCW-SA-2B-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4	1897.4
2.5°	2043.2	2082.0	2096.7	2074.0	2076.7	2029.8	2023.1	1957.6	1930.8	1936.2
5°	2136.9	2193.1	2223.8	2198.4	2140.9	2051.2	1969.6	1892.0	1843.8	1819.8
7.5°	2115.5	2178.3	2217.2	2241.2	2175.7	2031.2	1906.7	1760.9	1699.3	1700.7
10°	1997.7	2128.8	2207.8	2177.0	2146.2	2001.7	1809.0	1651.2	1596.3	1601.6
12.5°	1902.7	2048.6	2095.4	2119.5	2056.6	1941.5	1811.7	1631.1	1569.5	1532.1
15°	1843.8	1952.2	1954.9	1992.4	1966.9	1966.9	1839.8	1663.2	1609.7	1568.2
17.5°	1843.8	1867.9	1865.2	1878.6	1921.4	1972.3	1910.7	1793.0	1687.3	1680.6
20°	1885.3	1810.4	1793.0	1798.3	1834.5	1985.7	2067.3	1920.1	1853.2	1831.8
22.5°	1981.7	1817.1	1711.4	1692.6	1803.7	1984.3	2167.6	2120.8	2004.4	1987.0
25°	2114.1	1805.0	1690.0	1665.9	1750.2	2032.5	2305.5	2314.8	2209.1	2173.0
27.5°	2239.9	1858.6	1687.3	1681.9	1793.0	2021.8	2400.5	2470.0	2351.0	2321.5
30°	2282.7	1912.1	1736.8	1665.9	1809.0	2060.6	2397.8	2579.8	2502.2	2508.8
32.5°	2333.6	1965.6	1742.1	1714.0	1877.3	2123.5	2474.1	2756.4	2700.2	2621.2
35°	2408.5	2037.9	1793.0	1767.6	1925.5	2179.7	2490.1	2886.2	2876.8	2784.5
37.5°	2472.7	2108.8	1898.7	1902.7	2072.6	2270.7	2561.0	3045.4	3029.4	2966.5
40°	2518.2	2207.8	2063.3	2074.0	2201.1	2372.4	2686.8	3125.7	3244.8	3152.5
42.5°	2524.9	2296.1	2251.9	2337.6	2456.7	2530.3	2737.7	3180.6	3351.8	3291.6
45°	2550.3	2436.6	2559.7	2622.6	2720.3	2669.4	2735.0	3274.2	3359.8	3329.1
47.5°	2649.3	2692.2	2847.4	3038.7	3073.5	2906.2	2799.2	3288.9	3405.3	3401.3
50°	2752.4	2966.5	3184.6	3311.7	3355.8	3069.5	2859.4	3276.9	3465.6	3433.4
52.5°	2867.4	3204.6	3519.1	3675.6	3651.5	3250.1	2927.7	3374.6	3576.6	3565.9
55°	2939.7	3311.7	3734.5	3952.6	3933.9	3452.2	3144.4	3515.1	3722.5	3695.7
57.5°	3131.0	3485.6	3948.6	4050.3	4099.8	3717.1	3295.6	3745.2	3844.2	3873.7
60°	3288.9	3599.4	4004.8	4152.0	4169.4	3875.0	3560.6	3982.0	3999.4	3900.4
62.5°	3520.4	3643.5	3885.7	4018.2	4107.8	3964.6	3798.7	4109.2	3996.8	3990.1
65°	3690.3	3499.0	3663.6	3737.2	3794.7	3828.2	4038.2	4196.1	3947.3	3817.5
67.5°	3595.3	3226.0	3195.3	3199.3	3216.7	3418.7	3958.0	3983.4	3671.6	3564.6
70°	3164.5	2646.7	2605.2	2637.3	2550.3	2793.9	3632.8	3620.8	3239.4	3128.4
72.5°	2559.7	1929.5	1858.6	1902.7	1922.8	2181.0	3056.1	2745.7	2363.0	2276.0
75°	2033.8	1414.3	1193.5	1300.6	1368.8	1588.3	2387.1	1865.2	1649.8	1532.1
77.5°	1597.6	1070.4	928.6	885.8	948.7	1154.7	1736.8	979.5	864.4	809.5
80°	1012.9	786.8	853.7	792.1	818.9	824.2	904.5	445.6	354.6	350.6
82.5°	610.2	537.9	639.6	351.9	640.9	572.7	376.0	202.0	179.3	179.3
85°	432.2	333.2	220.8	143.2	285.0	314.4	145.8	104.4	91.0	88.3
87.5°	216.8	103.0	49.5	32.1	36.1	58.9	17.4	8.0	8.0	6.7
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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