

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: P677275

Luminaire Tested: **CCW-SA-1E-735-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677275
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-735-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLL distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

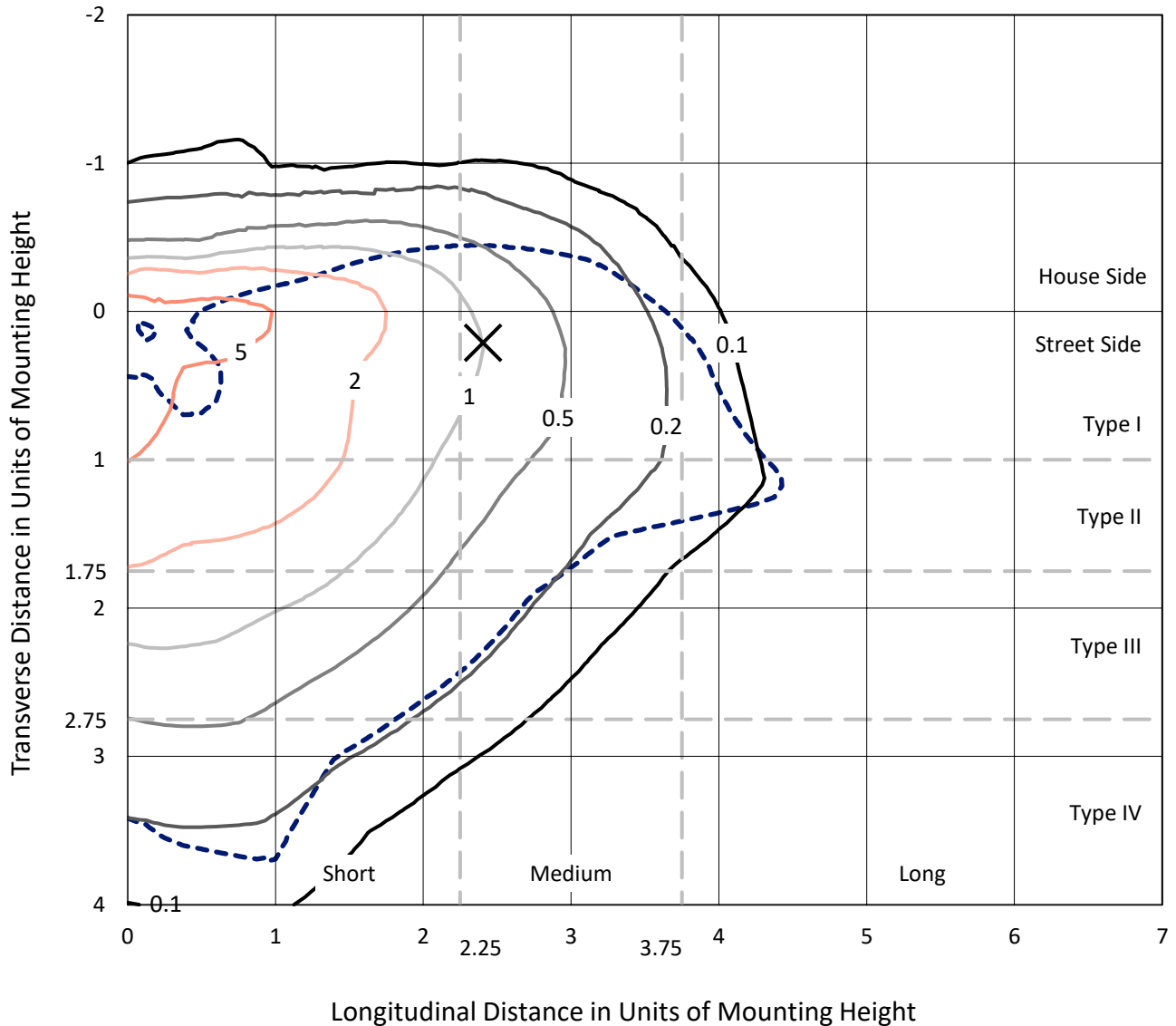
Lumens per Lamp: N/A
Luminaire Lumens: 4892.6 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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: P677275
 CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

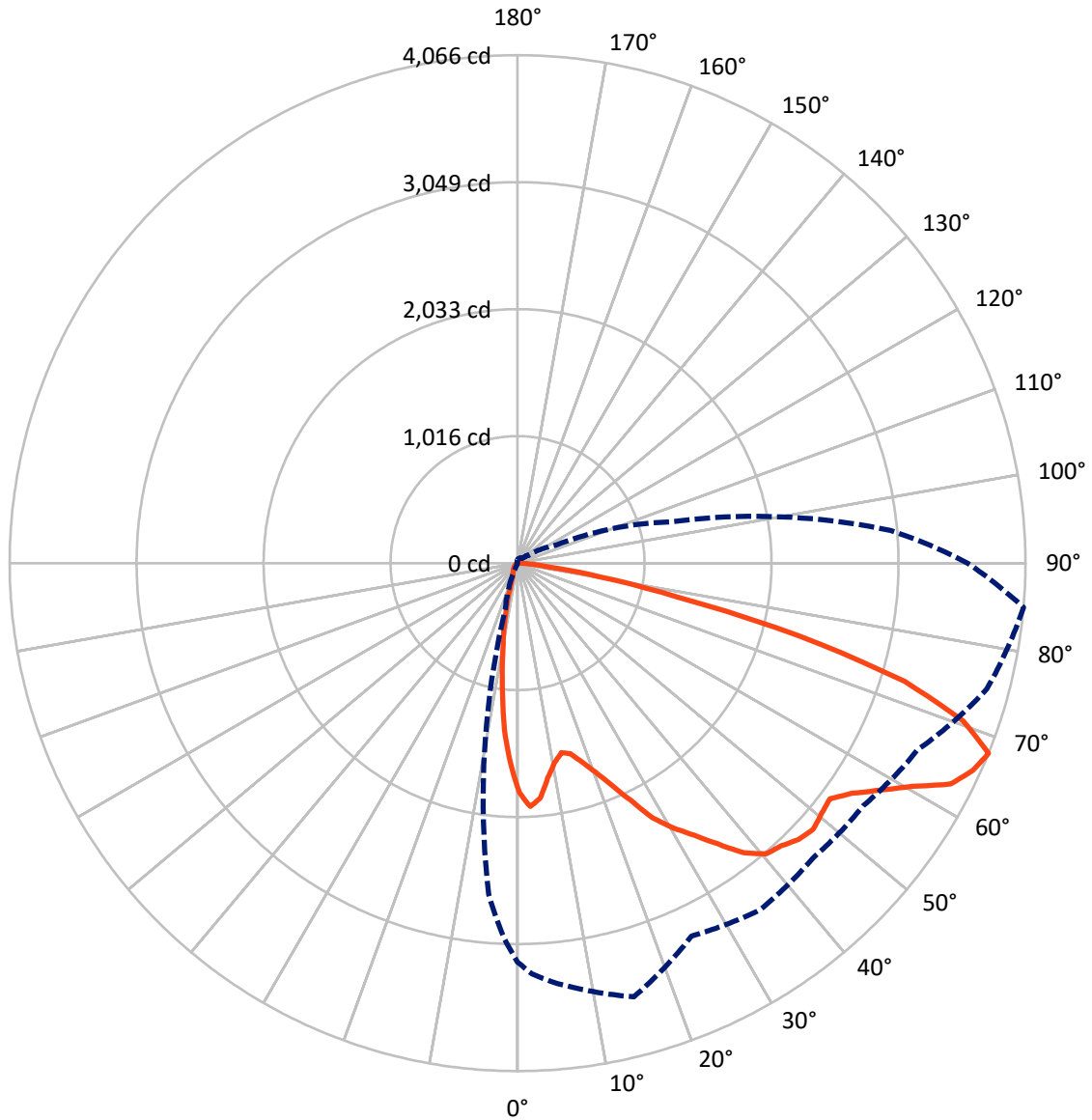
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P677275
CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P677275
 CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	849.5	0.0	849.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	4043.1	0.0	4043.1
	% Fixture	82.6	0.0	82.6
Total	Lumens	4892.6	0.0	4892.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	2.9
10°-20°	274.0	5.6
20°-30°	379.2	7.8
30°-40°	536.0	11.0
40°-50°	729.7	14.9
50°-60°	966.5	19.8
60°-70°	1122.1	22.9
70°-80°	635.5	13.0
80°-90°	109.8	2.2
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°	4892.6	100.0
0°-180°	4892.6	100.0



REPORT NUMBER: P677275

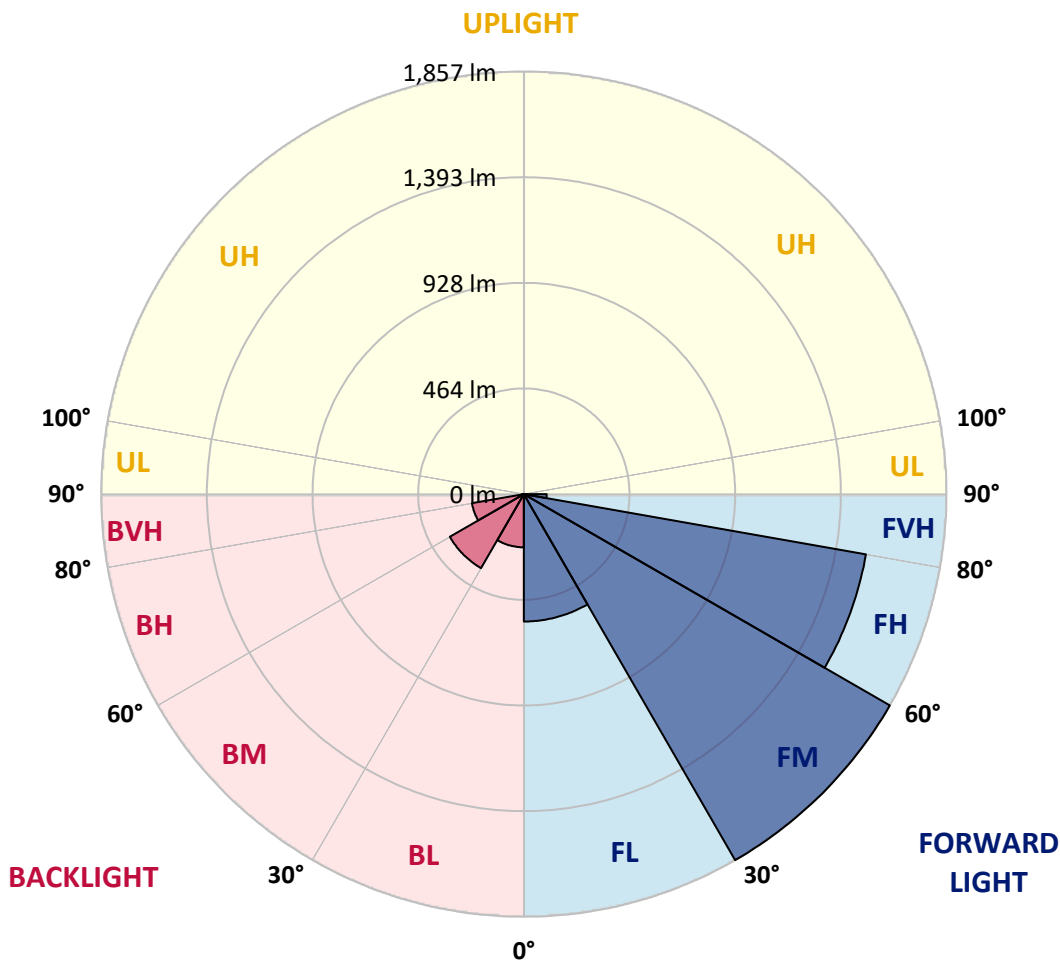
CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.5	11.4			
FM (30°-60°)	1856.8	38.0			
FH (60°-80°)	1526.3	31.2			G1/1800
FVH (80°-90°)	100.5	2.1			G2/225
BL (0°-30°)	233.5	4.8	B1/500		
BM (30°-60°)	375.4	7.7	B1/1000		
BH (60°-80°)	231.4	4.7	B1/500		G1/500
BVH (80°-90°)	9.3	0.2			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 III Medium





REPORT NUMBER: P677275

CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6
2.5°	1911.4	1951.9	1953.2	1971.5	1989.8	1989.8	2032.9	2022.5	1984.6	1978.1	1950.6
5°	1925.8	1940.2	1950.6	2043.4	2121.8	2113.9	2137.5	2121.8	2048.6	1954.5	1890.5
7.5°	1801.7	1817.4	1859.2	2017.3	2123.1	2158.4	2202.8	2104.8	2027.7	1857.9	1735.1
10°	1637.1	1667.1	1744.2	1924.5	2055.2	2167.5	2167.5	2089.1	1940.2	1774.2	1624.0
12.5°	1545.6	1605.7	1647.5	1830.4	2000.3	2077.4	2074.7	2032.9	1936.3	1727.2	1557.4
15°	1561.3	1578.3	1667.1	1809.5	1921.9	1918.0	1965.0	1951.9	1884.0	1769.0	1582.2
17.5°	1633.1	1659.3	1736.4	1809.5	1863.1	1847.4	1846.1	1908.8	1912.7	1839.6	1675.0
20°	1750.7	1827.8	1864.4	1886.6	1821.3	1754.7	1746.8	1834.3	1902.3	1929.7	1786.0
22.5°	1938.9	1989.8	2064.3	1950.6	1780.8	1697.2	1681.5	1778.2	1915.4	2036.9	1929.7
25°	2123.1	2162.3	2234.1	2087.8	1826.5	1685.4	1658.0	1741.6	1965.0	2185.8	2103.5
27.5°	2317.8	2351.7	2359.6	2188.4	1851.3	1661.9	1629.2	1741.6	2006.8	2264.2	2311.2
30°	2436.7	2477.2	2485.0	2277.3	1891.8	1681.5	1665.8	1749.4	2035.6	2330.8	2460.2
32.5°	2569.9	2580.4	2573.8	2292.9	1936.3	1739.0	1673.6	1801.7	2068.2	2410.5	2596.0
35°	2729.3	2747.6	2681.0	2364.8	2035.6	1775.6	1752.0	1865.7	2124.4	2447.1	2760.7
37.5°	2850.8	2908.3	2758.1	2392.2	2055.2	1852.6	1856.6	1999.0	2163.6	2491.5	2942.3
40°	3079.5	2982.8	2888.7	2486.3	2129.6	1983.3	1962.4	2136.2	2295.5	2520.3	3061.2
42.5°	3204.9	3153.9	2939.7	2495.4	2244.6	2163.6	2168.8	2291.6	2364.8	2601.3	3093.8
45°	3236.2	3182.7	3008.9	2502.0	2358.3	2376.6	2466.7	2490.2	2466.7	2654.8	3155.2
47.5°	3315.9	3199.7	3001.1	2589.5	2542.5	2613.0	2728.0	2779.0	2605.2	2635.2	3184.0
50°	3300.3	3233.6	2984.1	2626.1	2767.2	2954.0	3031.1	3010.2	2759.4	2594.7	3152.6
52.5°	3234.9	3163.1	3036.3	2725.4	2977.6	3203.6	3310.7	3258.5	2896.5	2686.2	3131.7
55°	3330.3	3275.4	3104.3	2860.0	3135.6	3423.1	3498.9	3459.7	3065.1	2771.1	3250.6
57.5°	3433.5	3421.8	3288.5	3018.1	3322.5	3649.1	3649.1	3600.8	3211.4	2893.9	3427.0
60°	3582.5	3608.6	3424.4	3122.6	3386.5	3636.0	3825.5	3769.3	3359.1	3109.5	3626.9
62.5°	3534.1	3617.7	3599.5	3347.3	3459.7	3700.1	3803.3	3845.1	3542.0	3372.1	3893.4
65°	3378.7	3467.5	3598.1	3494.9	3404.8	3544.6	3596.8	3723.6	3633.4	3619.1	4003.2
67.5°	3193.1	3289.8	3370.8	3594.2	3293.7	3386.5	3340.8	3381.3	3534.1	3889.5	4065.9
70°	2788.1	2880.9	3008.9	3373.4	2999.8	2916.1	2904.4	2884.8	3122.6	3792.8	3781.1
72.5°	2292.9	2336.1	2547.7	2742.4	2219.8	2204.1	2222.4	2200.2	2475.8	3433.5	3238.9
75°	1716.8	1759.9	1880.1	2106.1	1511.6	1421.5	1526.0	1629.2	1890.5	2665.3	2326.9
77.5°	1290.8	1345.7	1421.5	1575.7	1109.2	968.1	982.5	1080.5	1366.6	2134.8	1303.9
80°	837.5	830.9	977.3	1084.4	834.9	861.0	824.4	896.3	990.3	1141.9	666.3
82.5°	483.4	489.9	551.3	621.9	581.4	665.0	479.5	800.9	706.8	465.1	248.2
85°	271.8	283.5	339.7	431.2	364.5	244.3	199.9	397.2	444.2	190.8	120.2
87.5°	27.4	23.5	45.7	163.3	99.3	40.5	60.1	95.4	107.1	71.9	35.3
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: P677275

CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6
2.5°	1911.4	1911.4	1878.8	1823.9	1801.7	1762.5	1708.9	1725.9	1707.6	1641.0	1624.0
5°	1833.0	1770.3	1702.4	1618.8	1570.4	1471.1	1439.8	1383.6	1392.7	1336.6	1339.2
7.5°	1669.7	1620.1	1505.1	1395.4	1300.0	1213.8	1092.2	1046.5	1002.1	979.9	1006.0
10°	1574.4	1481.6	1324.8	1181.1	1054.4	977.3	896.3	833.6	776.1	733.0	723.8
12.5°	1505.1	1422.8	1233.4	1058.3	959.0	896.3	821.8	735.6	679.4	604.9	582.7
15°	1484.2	1383.6	1183.7	1009.9	913.3	810.0	725.1	640.2	567.0	488.6	461.2
17.5°	1556.1	1439.8	1182.4	970.7	834.9	723.8	606.2	510.8	436.4	364.5	347.5
20°	1677.6	1499.9	1220.3	947.2	760.4	611.4	478.2	382.8	299.2	252.2	240.4
22.5°	1816.1	1601.8	1224.2	884.5	685.9	499.1	348.8	252.2	205.1	182.9	176.4
25°	1985.9	1765.1	1271.2	833.6	598.4	378.9	248.2	193.4	165.9	152.9	150.2
27.5°	2125.7	1878.8	1322.2	780.0	512.2	280.9	194.7	158.1	143.7	130.7	129.3
30°	2270.7	2009.4	1336.6	747.3	437.7	231.3	167.2	139.8	124.1	117.6	116.3
32.5°	2397.5	2151.8	1382.3	693.8	367.1	203.8	151.6	125.4	115.0	104.5	103.2
35°	2560.8	2234.1	1404.5	665.0	341.0	184.2	138.5	115.0	99.3	92.8	90.1
37.5°	2735.8	2313.8	1418.9	642.8	318.8	172.5	130.7	108.4	94.1	84.9	82.3
40°	2899.2	2426.2	1398.0	615.4	301.8	158.1	125.4	100.6	87.5	78.4	74.5
42.5°	3024.6	2535.9	1391.4	589.2	283.5	152.9	118.9	96.7	82.3	71.9	70.6
45°	3095.1	2610.4	1345.7	568.3	269.1	155.5	116.3	91.5	78.4	69.2	64.0
47.5°	3078.2	2667.9	1357.5	561.8	249.5	145.0	115.0	87.5	71.9	64.0	60.1
50°	3172.2	2784.2	1337.9	540.9	235.2	130.7	125.4	87.5	70.6	61.4	57.5
52.5°	3187.9	2890.0	1379.7	503.0	213.0	120.2	124.1	86.2	67.9	58.8	53.6
55°	3318.6	3012.8	1460.7	482.1	194.7	104.5	113.7	83.6	61.4	53.6	51.0
57.5°	3496.2	3267.6	1512.9	462.5	169.8	91.5	95.4	82.3	56.2	49.6	45.7
60°	3667.4	3369.5	1516.9	427.2	146.3	82.3	74.5	82.3	52.3	44.4	40.5
62.5°	3795.4	3369.5	1490.7	397.2	128.0	73.2	65.3	78.4	47.0	39.2	36.6
65°	3726.2	3279.4	1422.8	372.4	116.3	64.0	56.2	60.1	41.8	34.0	31.4
67.5°	3602.1	2998.5	1272.5	342.3	115.0	56.2	48.3	44.4	36.6	30.0	27.4
70°	3403.5	2619.6	1059.6	308.3	112.4	51.0	43.1	37.9	32.7	26.1	23.5
72.5°	2742.4	2163.6	870.1	288.7	109.7	44.4	36.6	32.7	27.4	22.2	19.6
75°	1899.7	1382.3	670.2	246.9	107.1	40.5	34.0	28.7	23.5	18.3	17.0
77.5°	1139.3	923.7	432.5	185.5	70.6	32.7	28.7	22.2	19.6	15.7	14.4
80°	533.1	436.4	175.1	71.9	34.0	23.5	19.6	17.0	15.7	13.1	11.8
82.5°	209.0	184.2	84.9	41.8	27.4	18.3	15.7	14.4	13.1	10.5	9.1
85°	112.4	99.3	40.5	28.7	19.6	13.1	13.1	11.8	10.5	9.1	7.8
87.5°	24.8	18.3	17.0	17.0	14.4	10.5	10.5	9.1	7.8	6.5	5.2
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: P677275
 CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6
2.5°	1614.9	1634.5	1603.1	1622.7	1595.3	1616.2	1618.8	1599.2	1604.4	1630.5	1642.3
5°	1375.8	1362.7	1334.0	1324.8	1326.1	1309.1	1315.7	1324.8	1339.2	1347.0	1370.5
7.5°	991.6	1021.7	1020.4	1042.6	1043.9	1041.3	1023.0	983.8	996.9	986.4	999.5
10°	709.4	722.5	747.3	761.7	787.8	773.5	731.6	716.0	708.1	706.8	719.9
12.5°	567.0	535.7	533.1	538.3	551.3	534.4	513.5	495.2	504.3	522.6	537.0
15°	439.0	412.9	378.9	373.7	376.3	368.4	346.2	322.7	329.2	347.5	358.0
17.5°	337.1	307.0	283.5	267.8	262.6	235.2	202.5	182.9	177.7	176.4	185.5
20°	227.3	222.1	218.2	198.6	198.6	159.4	132.0	117.6	117.6	120.2	121.5
22.5°	169.8	163.3	164.6	160.7	150.2	118.9	104.5	100.6	100.6	103.2	103.2
25°	147.6	138.5	135.9	134.6	124.1	101.9	91.5	87.5	87.5	90.1	90.1
27.5°	125.4	122.8	118.9	113.7	104.5	87.5	81.0	77.1	78.4	79.7	78.4
30°	115.0	108.4	103.2	103.2	92.8	78.4	73.2	70.6	67.9	70.6	71.9
32.5°	101.9	98.0	95.4	91.5	79.7	69.2	64.0	61.4	60.1	60.1	61.4
35°	87.5	87.5	84.9	79.7	69.2	62.7	56.2	53.6	52.3	53.6	53.6
37.5°	78.4	74.5	75.8	70.6	61.4	54.9	48.3	45.7	45.7	44.4	45.7
40°	73.2	66.6	62.7	60.1	54.9	47.0	41.8	39.2	37.9	37.9	37.9
42.5°	65.3	60.1	52.3	51.0	49.6	40.5	34.0	32.7	31.4	30.0	30.0
45°	61.4	53.6	47.0	40.5	40.5	34.0	28.7	26.1	24.8	23.5	24.8
47.5°	56.2	48.3	40.5	34.0	32.7	27.4	22.2	19.6	18.3	18.3	18.3
50°	53.6	43.1	35.3	28.7	24.8	22.2	17.0	14.4	13.1	13.1	13.1
52.5°	49.6	40.5	31.4	24.8	19.6	17.0	13.1	10.5	9.1	9.1	9.1
55°	44.4	36.6	27.4	20.9	17.0	13.1	9.1	6.5	5.2	5.2	5.2
57.5°	41.8	32.7	23.5	18.3	13.1	9.1	5.2	3.9	3.9	2.6	3.9
60°	37.9	28.7	19.6	14.4	10.5	6.5	3.9	1.3	1.3	1.3	1.3
62.5°	32.7	24.8	17.0	11.8	7.8	3.9	1.3	0.0	0.0	0.0	0.0
65°	27.4	19.6	13.1	9.1	5.2	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	23.5	17.0	10.5	6.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	20.9	14.4	7.8	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.0	11.8	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.4	9.1	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.8	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.1	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	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: P677275
 CATALOG NUMBER: CCW-SA-1E-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6	1839.6
2.5°	1659.3	1651.4	1690.6	1754.7	1787.3	1851.3	1867.0	1907.5	1897.1	1911.4
5°	1373.1	1388.8	1446.3	1540.4	1574.4	1667.1	1754.7	1842.2	1898.4	1925.8
7.5°	1019.1	1071.3	1141.9	1228.1	1315.7	1437.2	1586.1	1688.0	1742.9	1801.7
10°	759.1	815.3	896.3	981.2	1123.6	1259.5	1408.4	1535.2	1582.2	1637.1
12.5°	597.1	684.6	778.7	870.1	955.1	1084.4	1268.6	1452.8	1503.8	1545.6
15°	415.5	522.6	657.2	776.1	895.0	1007.3	1198.1	1421.5	1490.7	1561.3
17.5°	229.9	314.9	469.0	636.3	811.3	983.8	1221.6	1479.0	1583.5	1633.1
20°	133.3	167.2	277.0	475.6	706.8	932.9	1233.4	1587.4	1725.9	1750.7
22.5°	109.7	121.5	156.8	297.9	578.8	900.2	1293.5	1739.0	1880.1	1938.9
25°	94.1	103.2	121.5	179.0	437.7	830.9	1331.3	1928.4	2059.1	2123.1
27.5°	83.6	92.8	107.1	132.0	297.9	735.6	1394.1	2099.6	2230.2	2317.8
30°	73.2	81.0	95.4	112.4	206.4	628.4	1447.6	2225.0	2409.2	2436.7
32.5°	65.3	71.9	82.3	96.7	152.9	476.9	1490.7	2354.3	2509.8	2569.9
35°	56.2	64.0	70.6	82.3	116.3	359.3	1464.6	2454.9	2657.5	2729.3
37.5°	49.6	54.9	61.4	69.2	98.0	280.9	1411.0	2575.1	2784.2	2850.8
40°	41.8	45.7	53.6	61.4	88.8	216.9	1349.6	2720.2	2961.9	3079.5
42.5°	35.3	39.2	44.4	57.5	73.2	160.7	1225.5	2832.5	3105.6	3204.9
45°	27.4	32.7	40.5	57.5	58.8	118.9	1097.5	2916.1	3186.6	3236.2
47.5°	20.9	26.1	39.2	49.6	47.0	82.3	945.9	3011.5	3270.2	3315.9
50°	15.7	20.9	44.4	43.1	39.2	62.7	850.5	3078.2	3275.4	3300.3
52.5°	10.5	15.7	36.6	32.7	32.7	54.9	824.4	3075.5	3288.5	3234.9
55°	7.8	11.8	20.9	23.5	28.7	48.3	800.9	3173.5	3292.4	3330.3
57.5°	5.2	9.1	14.4	18.3	24.8	41.8	752.6	3291.1	3413.9	3433.5
60°	2.6	6.5	10.5	14.4	20.9	36.6	684.6	3377.3	3561.6	3582.5
62.5°	1.3	3.9	7.8	11.8	17.0	28.7	614.1	3240.2	3497.5	3534.1
65°	0.0	2.6	5.2	7.8	10.5	20.9	499.1	2925.3	3244.1	3378.7
67.5°	0.0	0.0	2.6	5.2	6.5	15.7	376.3	2661.4	3010.2	3193.1
70°	0.0	0.0	1.3	1.3	3.9	11.8	240.4	2204.1	2687.5	2788.1
72.5°	0.0	0.0	0.0	0.0	1.3	7.8	139.8	1637.1	2106.1	2292.9
75°	0.0	0.0	0.0	0.0	0.0	6.5	70.6	1053.1	1465.9	1716.8
77.5°	0.0	0.0	0.0	0.0	0.0	5.2	37.9	679.4	1080.5	1290.8
80°	0.0	0.0	0.0	0.0	0.0	1.3	22.2	394.6	691.1	837.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	193.4	412.9	483.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	103.2	206.4	271.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	14.4	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)