

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: P677264

Luminaire Tested: **CCW-SA-1E-730-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677264
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-730-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) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

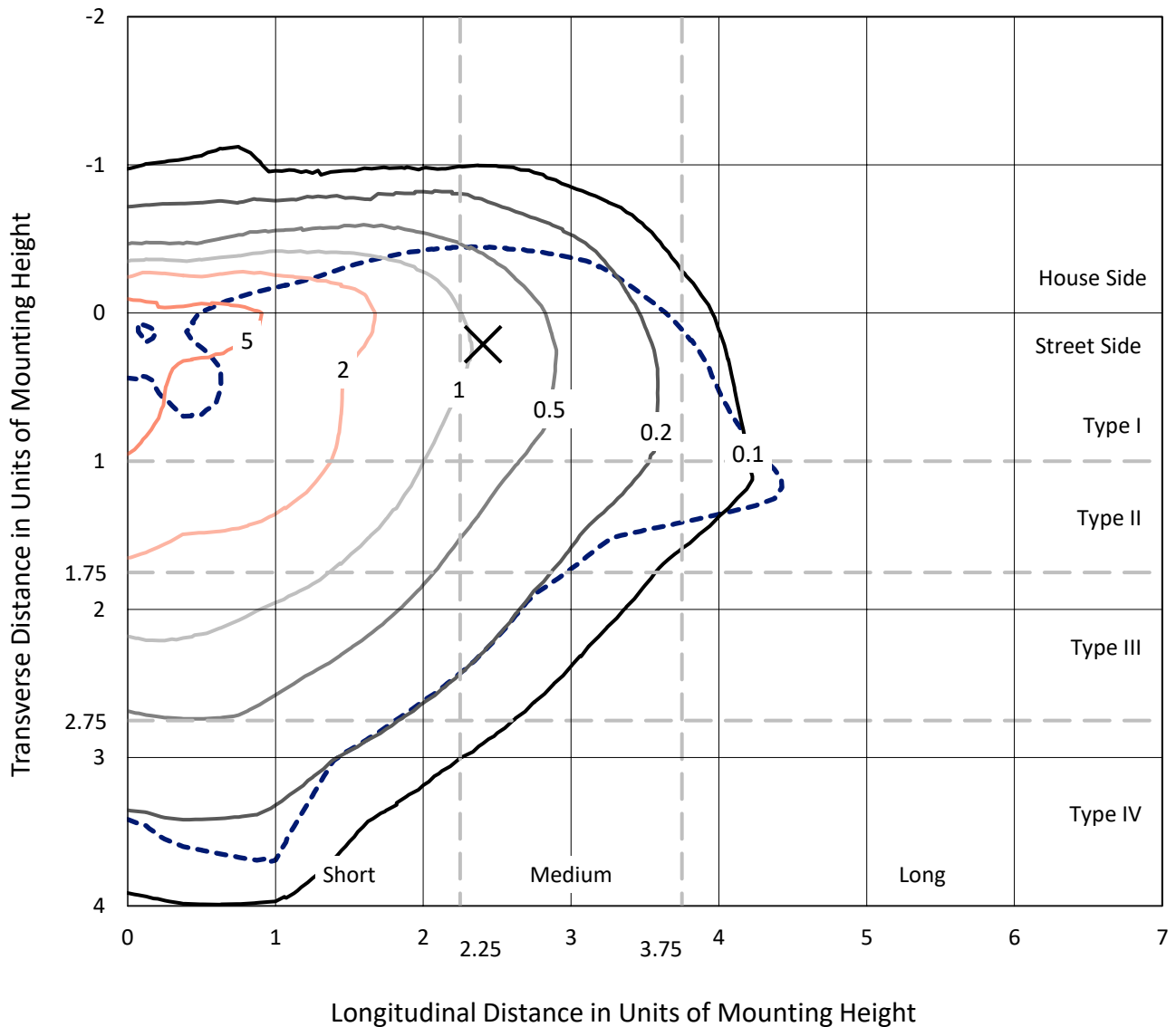
Lumens per Lamp: N/A
Luminaire Lumens: 4517.1 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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: P677264
 CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

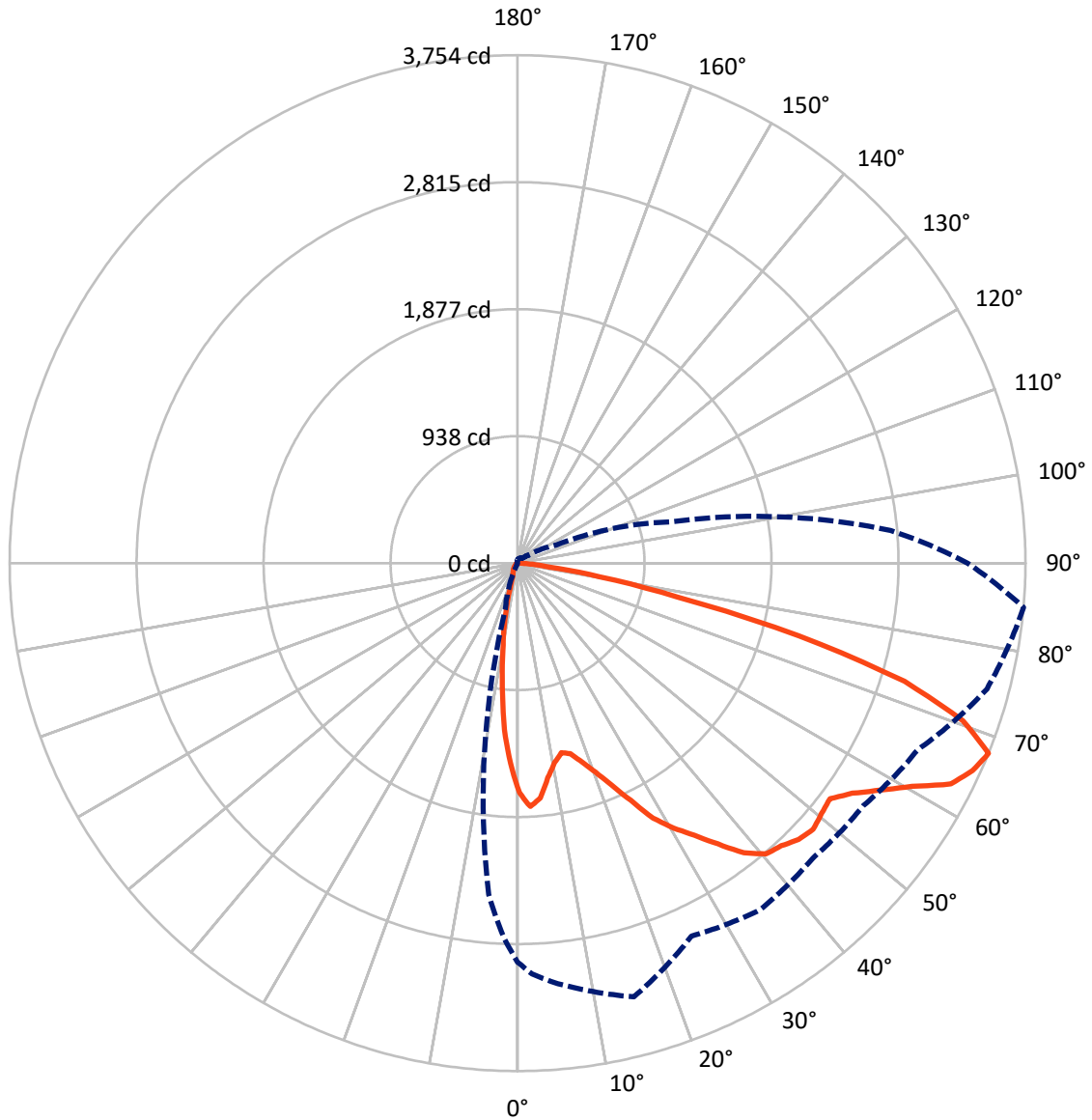
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P677264
CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677264
 CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

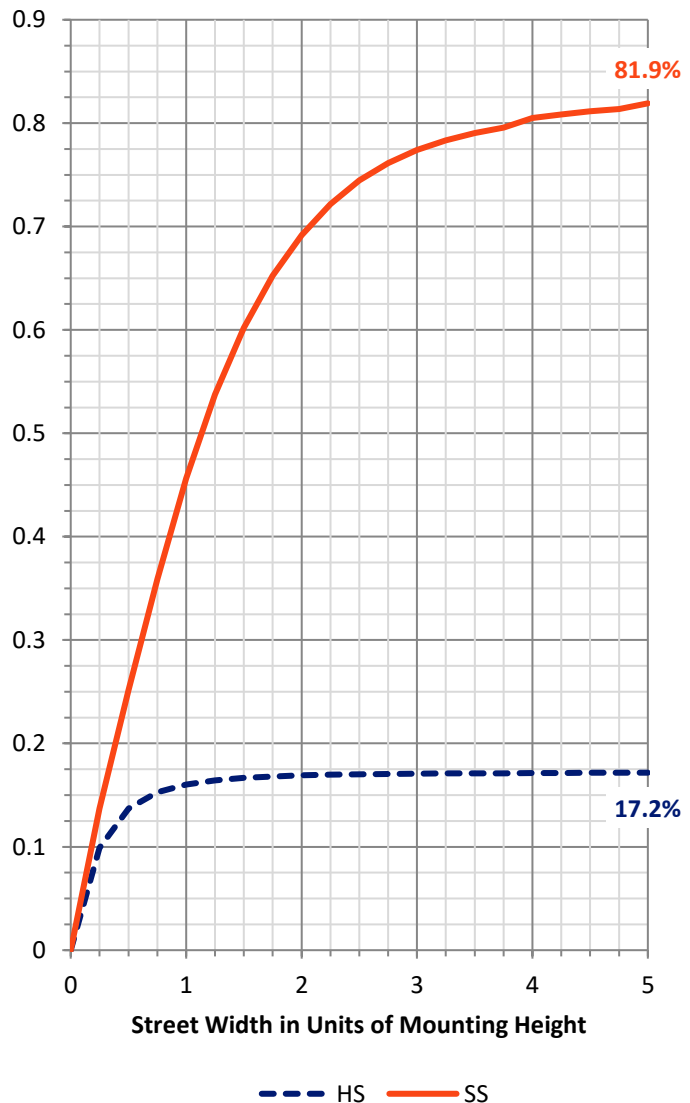
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	784.3	0.0	784.3
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	3732.7	0.0	3732.7
	% Fixture	82.6	0.0	82.6
Total	Lumens	4517.1	0.0	4517.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	2.9
10°-20°	253.0	5.6
20°-30°	350.1	7.8
30°-40°	494.8	11.0
40°-50°	673.7	14.9
50°-60°	892.3	19.8
60°-70°	1036.0	22.9
70°-80°	586.7	13.0
80°-90°	101.4	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°	4517.1	100.0
0°-180°	4517.1	100.0

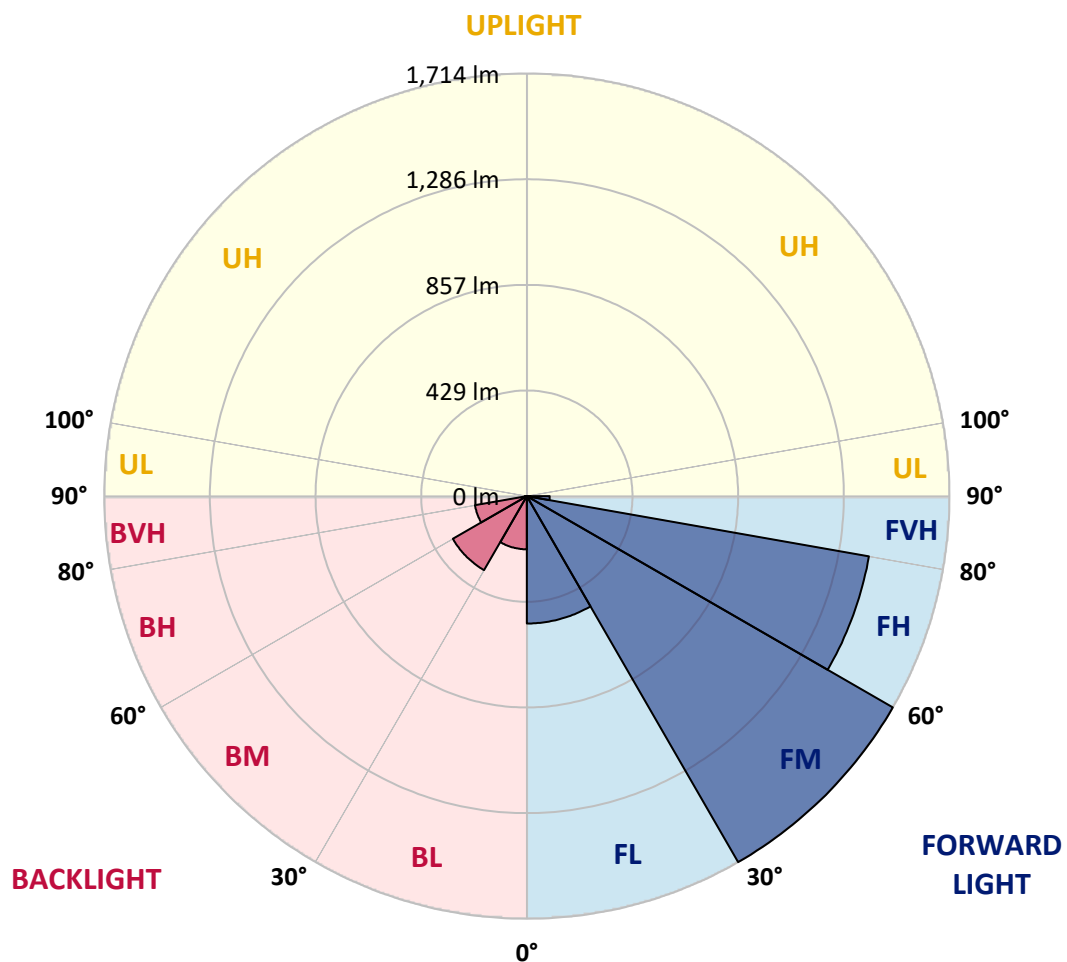


REPORT NUMBER: P677264
 CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.5	11.4			
FM (30°-60°)	1714.3	38.0			
FH (60°-80°)	1409.1	31.2			G1/1800
FVH (80°-90°)	92.8	2.1			G1/100
BL (0°-30°)	215.6	4.8	B1/500		
BM (30°-60°)	346.5	7.7	B1/1000		
BH (60°-80°)	213.6	4.7	B1/500		G1/500
BVH (80°-90°)	8.5	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-G1
 Type III Medium





REPORT NUMBER: P677264

CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1764.7	1802.1	1803.3	1820.2	1837.1	1837.1	1876.9	1867.3	1832.3	1826.2	1800.9
5°	1778.0	1791.3	1800.9	1886.6	1958.9	1951.7	1973.4	1958.9	1891.4	1804.5	1745.4
7.5°	1663.4	1677.9	1716.5	1862.4	1960.1	1992.7	2033.7	1943.3	1872.1	1715.3	1601.9
10°	1511.4	1539.2	1610.3	1776.8	1897.4	2001.2	2001.2	1928.8	1791.3	1638.1	1499.4
12.5°	1427.0	1482.5	1521.1	1689.9	1846.8	1917.9	1915.5	1876.9	1787.6	1594.6	1437.8
15°	1441.5	1457.1	1539.2	1670.6	1774.4	1770.8	1814.2	1802.1	1739.4	1633.2	1460.8
17.5°	1507.8	1531.9	1603.1	1670.6	1720.1	1705.6	1704.4	1762.3	1765.9	1698.4	1546.4
20°	1616.4	1687.5	1721.3	1741.8	1681.5	1620.0	1612.7	1693.6	1756.3	1781.6	1648.9
22.5°	1790.1	1837.1	1905.9	1800.9	1644.1	1566.9	1552.4	1641.7	1768.3	1880.5	1781.6
25°	1960.1	1996.3	2062.7	1927.6	1686.3	1556.0	1530.7	1607.9	1814.2	2018.0	1942.0
27.5°	2139.9	2171.2	2178.5	2020.5	1709.2	1534.3	1504.2	1607.9	1852.8	2090.4	2133.8
30°	2249.6	2287.0	2294.3	2102.5	1746.6	1552.4	1538.0	1615.2	1879.3	2151.9	2271.3
32.5°	2372.7	2382.3	2376.3	2117.0	1787.6	1605.5	1545.2	1663.4	1909.5	2225.5	2396.8
35°	2519.8	2536.7	2475.2	2183.3	1879.3	1639.3	1617.6	1722.5	1961.3	2259.3	2548.8
37.5°	2632.0	2685.1	2546.4	2208.6	1897.4	1710.4	1714.1	1845.5	1997.5	2300.3	2716.5
40°	2843.1	2753.8	2667.0	2295.5	1966.2	1831.1	1811.8	1972.2	2119.4	2326.8	2826.2
42.5°	2958.9	2911.9	2714.0	2303.9	2072.3	1997.5	2002.4	2115.7	2183.3	2401.6	2856.4
45°	2987.9	2938.4	2778.0	2309.9	2177.3	2194.1	2277.4	2299.1	2277.4	2451.1	2913.1
47.5°	3061.4	2954.1	2770.7	2390.8	2347.3	2412.5	2518.6	2565.7	2405.2	2433.0	2939.6
50°	3047.0	2985.4	2755.1	2424.5	2554.8	2727.3	2798.5	2779.2	2547.6	2395.6	2910.7
52.5°	2986.6	2920.3	2803.3	2516.2	2749.0	2957.7	3056.6	3008.4	2674.2	2480.0	2891.4
55°	3074.7	3024.0	2866.0	2640.5	2895.0	3160.3	3230.3	3194.1	2829.8	2558.4	3001.1
57.5°	3170.0	3159.1	3036.1	2786.4	3067.5	3369.0	3369.0	3324.4	2964.9	2671.8	3164.0
60°	3307.5	3331.6	3161.6	2882.9	3126.6	3357.0	3531.9	3480.0	3101.2	2870.8	3348.5
62.5°	3262.9	3340.1	3323.2	3090.4	3194.1	3416.1	3511.4	3550.0	3270.1	3113.3	3594.6
65°	3119.3	3201.4	3322.0	3226.7	3143.5	3272.5	3320.8	3437.8	3354.6	3341.3	3695.9
67.5°	2948.0	3037.3	3112.1	3318.4	3040.9	3126.6	3084.4	3121.7	3262.9	3591.0	3753.8
70°	2574.1	2659.8	2778.0	3114.5	2769.5	2692.3	2681.5	2663.4	2882.9	3501.7	3490.9
72.5°	2117.0	2156.8	2352.2	2531.9	2049.4	2034.9	2051.8	2031.3	2285.8	3170.0	2990.3
75°	1585.0	1624.8	1735.8	1944.5	1395.6	1312.4	1408.9	1504.2	1745.4	2460.7	2148.3
77.5°	1191.8	1242.4	1312.4	1454.7	1024.1	893.8	907.1	997.6	1261.7	1971.0	1203.8
80°	773.2	767.2	902.3	1001.2	770.8	794.9	761.1	827.5	914.3	1054.3	615.2
82.5°	446.3	452.3	509.0	574.2	536.8	614.0	442.7	739.4	652.6	429.4	229.2
85°	250.9	261.8	313.6	398.1	336.5	225.6	184.6	366.7	410.1	176.1	111.0
87.5°	25.3	21.7	42.2	150.8	91.7	37.4	55.5	88.1	98.9	66.3	32.6
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: P677264

CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1764.7	1764.7	1734.6	1683.9	1663.4	1627.2	1577.8	1593.4	1576.6	1515.0	1499.4
5°	1692.4	1634.5	1571.7	1494.5	1449.9	1358.2	1329.3	1277.4	1285.9	1234.0	1236.4
7.5°	1541.6	1495.7	1389.6	1288.3	1200.2	1120.6	1008.4	966.2	925.2	904.7	928.8
10°	1453.5	1367.9	1223.1	1090.4	973.4	902.3	827.5	769.6	716.5	676.7	668.3
12.5°	1389.6	1313.6	1138.7	977.1	885.4	827.5	758.7	679.1	627.2	558.5	538.0
15°	1370.3	1277.4	1092.9	932.4	843.2	747.9	669.5	591.1	523.5	451.1	425.8
17.5°	1436.6	1329.3	1091.6	896.2	770.8	668.3	559.7	471.6	402.9	336.5	320.9
20°	1548.8	1384.8	1126.6	874.5	702.0	564.5	441.5	353.4	276.2	232.8	221.9
22.5°	1676.7	1478.8	1130.2	816.6	633.3	460.8	322.1	232.8	189.4	168.9	162.8
25°	1833.5	1629.6	1173.7	769.6	552.5	349.8	229.2	178.5	153.2	141.1	138.7
27.5°	1962.6	1734.6	1220.7	720.1	472.8	259.3	179.7	146.0	132.7	120.6	119.4
30°	2096.4	1855.2	1234.0	690.0	404.1	213.5	154.4	129.1	114.6	108.6	107.4
32.5°	2213.4	1986.7	1276.2	640.5	339.0	188.2	139.9	115.8	106.1	96.5	95.3
35°	2364.2	2062.7	1296.7	614.0	314.8	170.1	127.9	106.1	91.7	85.6	83.2
37.5°	2525.9	2136.2	1310.0	593.5	294.3	159.2	120.6	100.1	86.8	78.4	76.0
40°	2676.6	2240.0	1290.7	568.1	278.6	146.0	115.8	92.9	80.8	72.4	68.8
42.5°	2792.4	2341.3	1284.6	544.0	261.8	141.1	109.8	89.3	76.0	66.3	65.1
45°	2857.6	2410.1	1242.4	524.7	248.5	143.5	107.4	84.4	72.4	63.9	59.1
47.5°	2841.9	2463.1	1253.3	518.7	230.4	133.9	106.1	80.8	66.3	59.1	55.5
50°	2928.7	2570.5	1235.2	499.4	217.1	120.6	115.8	80.8	65.1	56.7	53.1
52.5°	2943.2	2668.2	1273.8	464.4	196.6	111.0	114.6	79.6	62.7	54.3	49.5
55°	3063.8	2781.6	1348.6	445.1	179.7	96.5	104.9	77.2	56.7	49.5	47.0
57.5°	3227.9	3016.8	1396.8	427.0	156.8	84.4	88.1	76.0	51.9	45.8	42.2
60°	3385.9	3110.9	1400.4	394.4	135.1	76.0	68.8	76.0	48.2	41.0	37.4
62.5°	3504.1	3110.9	1376.3	366.7	118.2	67.5	60.3	72.4	43.4	36.2	33.8
65°	3440.2	3027.7	1313.6	343.8	107.4	59.1	51.9	55.5	38.6	31.4	28.9
67.5°	3325.6	2768.3	1174.9	316.0	106.1	51.9	44.6	41.0	33.8	27.7	25.3
70°	3142.3	2418.5	978.3	284.7	103.7	47.0	39.8	35.0	30.2	24.1	21.7
72.5°	2531.9	1997.5	803.4	266.6	101.3	41.0	33.8	30.2	25.3	20.5	18.1
75°	1753.9	1276.2	618.8	228.0	98.9	37.4	31.4	26.5	21.7	16.9	15.7
77.5°	1051.8	852.8	399.3	171.3	65.1	30.2	26.5	20.5	18.1	14.5	13.3
80°	492.1	402.9	161.6	66.3	31.4	21.7	18.1	15.7	14.5	12.1	10.9
82.5°	193.0	170.1	78.4	38.6	25.3	16.9	14.5	13.3	12.1	9.6	8.4
85°	103.7	91.7	37.4	26.5	18.1	12.1	12.1	10.9	9.6	8.4	7.2
87.5°	22.9	16.9	15.7	15.7	13.3	9.6	9.6	8.4	7.2	6.0	4.8
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: P677264
 CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1490.9	1509.0	1480.1	1498.1	1472.8	1492.1	1494.5	1476.4	1481.3	1505.4	1516.2
5°	1270.2	1258.1	1231.6	1223.1	1224.3	1208.7	1214.7	1223.1	1236.4	1243.6	1265.3
7.5°	915.5	943.3	942.1	962.6	963.8	961.4	944.5	908.3	920.4	910.7	922.8
10°	655.0	667.1	690.0	703.2	727.4	714.1	675.5	661.0	653.8	652.6	664.6
12.5°	523.5	494.6	492.1	497.0	509.0	493.4	474.1	457.2	465.6	482.5	495.8
15°	405.3	381.2	349.8	345.0	347.4	340.2	319.7	297.9	304.0	320.9	330.5
17.5°	311.2	283.5	261.8	247.3	242.5	217.1	187.0	168.9	164.0	162.8	171.3
20°	209.9	205.1	201.4	183.3	183.3	147.2	121.8	108.6	108.6	111.0	112.2
22.5°	156.8	150.8	152.0	148.4	138.7	109.8	96.5	92.9	92.9	95.3	95.3
25°	136.3	127.9	125.4	124.2	114.6	94.1	84.4	80.8	80.8	83.2	83.2
27.5°	115.8	113.4	109.8	104.9	96.5	80.8	74.8	71.2	72.4	73.6	72.4
30°	106.1	100.1	95.3	95.3	85.6	72.4	67.5	65.1	62.7	65.1	66.3
32.5°	94.1	90.5	88.1	84.4	73.6	63.9	59.1	56.7	55.5	55.5	56.7
35°	80.8	80.8	78.4	73.6	63.9	57.9	51.9	49.5	48.2	49.5	49.5
37.5°	72.4	68.8	70.0	65.1	56.7	50.7	44.6	42.2	42.2	41.0	42.2
40°	67.5	61.5	57.9	55.5	50.7	43.4	38.6	36.2	35.0	35.0	35.0
42.5°	60.3	55.5	48.2	47.0	45.8	37.4	31.4	30.2	28.9	27.7	27.7
45°	56.7	49.5	43.4	37.4	37.4	31.4	26.5	24.1	22.9	21.7	22.9
47.5°	51.9	44.6	37.4	31.4	30.2	25.3	20.5	18.1	16.9	16.9	16.9
50°	49.5	39.8	32.6	26.5	22.9	20.5	15.7	13.3	12.1	12.1	12.1
52.5°	45.8	37.4	28.9	22.9	18.1	15.7	12.1	9.6	8.4	8.4	8.4
55°	41.0	33.8	25.3	19.3	15.7	12.1	8.4	6.0	4.8	4.8	4.8
57.5°	38.6	30.2	21.7	16.9	12.1	8.4	4.8	3.6	3.6	2.4	3.6
60°	35.0	26.5	18.1	13.3	9.6	6.0	3.6	1.2	1.2	1.2	1.2
62.5°	30.2	22.9	15.7	10.9	7.2	3.6	1.2	0.0	0.0	0.0	0.0
65°	25.3	18.1	12.1	8.4	4.8	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	21.7	15.7	9.6	6.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	19.3	13.3	7.2	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.7	10.9	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.3	8.4	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.9	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.4	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	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: P677264
 CATALOG NUMBER: CCW-SA-1E-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1531.9	1524.7	1560.9	1620.0	1650.1	1709.2	1723.7	1761.1	1751.5	1764.7
5°	1267.8	1282.2	1335.3	1422.2	1453.5	1539.2	1620.0	1700.8	1752.7	1778.0
7.5°	940.9	989.1	1054.3	1133.9	1214.7	1326.9	1464.4	1558.5	1609.1	1663.4
10°	700.8	752.7	827.5	905.9	1037.4	1162.8	1300.3	1417.3	1460.8	1511.4
12.5°	551.3	632.1	718.9	803.4	881.8	1001.2	1171.3	1341.3	1388.4	1427.0
15°	383.6	482.5	606.7	716.5	826.3	930.0	1106.1	1312.4	1376.3	1441.5
17.5°	212.3	290.7	433.0	587.4	749.1	908.3	1127.8	1365.5	1462.0	1507.8
20°	123.0	154.4	255.7	439.1	652.6	861.3	1138.7	1465.6	1593.4	1616.4
22.5°	101.3	112.2	144.7	275.0	534.4	831.1	1194.2	1605.5	1735.8	1790.1
25°	86.8	95.3	112.2	165.3	404.1	767.2	1229.2	1780.4	1901.0	1960.1
27.5°	77.2	85.6	98.9	121.8	275.0	679.1	1287.1	1938.4	2059.1	2139.9
30°	67.5	74.8	88.1	103.7	190.6	580.2	1336.5	2054.2	2224.3	2249.6
32.5°	60.3	66.3	76.0	89.3	141.1	440.3	1376.3	2173.6	2317.2	2372.7
35°	51.9	59.1	65.1	76.0	107.4	331.7	1352.2	2266.5	2453.5	2519.8
37.5°	45.8	50.7	56.7	63.9	90.5	259.3	1302.7	2377.5	2570.5	2632.0
40°	38.6	42.2	49.5	56.7	82.0	200.2	1246.0	2511.4	2734.5	2843.1
42.5°	32.6	36.2	41.0	53.1	67.5	148.4	1131.5	2615.1	2867.2	2958.9
45°	25.3	30.2	37.4	53.1	54.3	109.8	1013.2	2692.3	2942.0	2987.9
47.5°	19.3	24.1	36.2	45.8	43.4	76.0	873.3	2780.4	3019.2	3061.4
50°	14.5	19.3	41.0	39.8	36.2	57.9	785.3	2841.9	3024.0	3047.0
52.5°	9.6	14.5	33.8	30.2	30.2	50.7	761.1	2839.5	3036.1	2986.6
55°	7.2	10.9	19.3	21.7	26.5	44.6	739.4	2930.0	3039.7	3074.7
57.5°	4.8	8.4	13.3	16.9	22.9	38.6	694.8	3038.5	3151.9	3170.0
60°	2.4	6.0	9.6	13.3	19.3	33.8	632.1	3118.1	3288.2	3307.5
62.5°	1.2	3.6	7.2	10.9	15.7	26.5	566.9	2991.5	3229.1	3262.9
65°	0.0	2.4	4.8	7.2	9.6	19.3	460.8	2700.8	2995.1	3119.3
67.5°	0.0	0.0	2.4	4.8	6.0	14.5	347.4	2457.1	2779.2	2948.0
70°	0.0	0.0	1.2	1.2	3.6	10.9	221.9	2034.9	2481.2	2574.1
72.5°	0.0	0.0	0.0	0.0	1.2	7.2	129.1	1511.4	1944.5	2117.0
75°	0.0	0.0	0.0	0.0	0.0	6.0	65.1	972.2	1353.4	1585.0
77.5°	0.0	0.0	0.0	0.0	0.0	4.8	35.0	627.2	997.6	1191.8
80°	0.0	0.0	0.0	0.0	0.0	1.2	20.5	364.3	638.1	773.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.4	178.5	381.2	446.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	95.3	190.6	250.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	13.3	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)