

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: P675812

Luminaire Tested: **CCW-SA-1D-727-U-SLL**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675812  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-727-U-SLL  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SLL distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

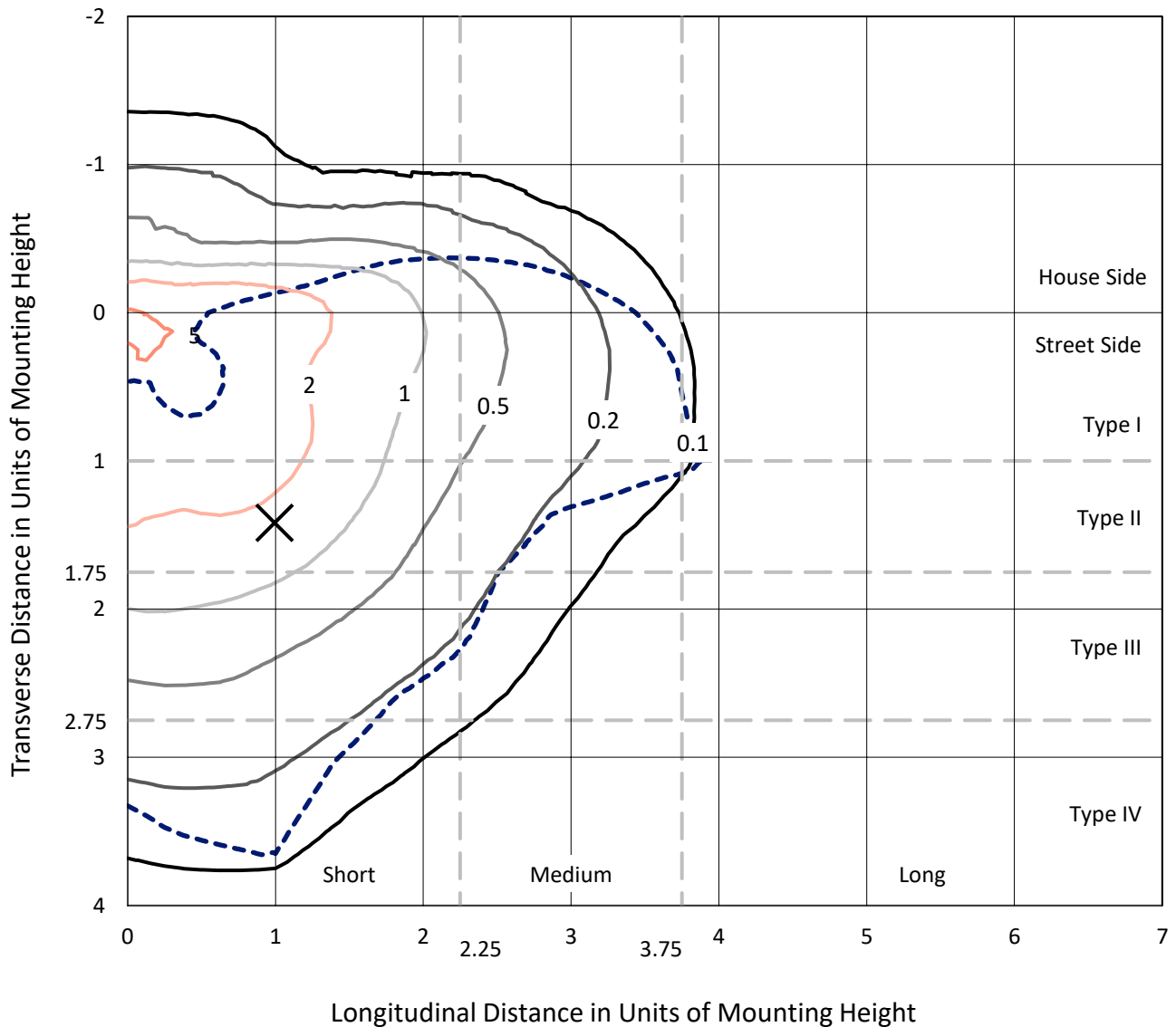
Lumens per Lamp: N/A  
Luminaire Lumens: 3869.8 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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: P675812  
 CATALOG NUMBER: CCW-SA-1D-727-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

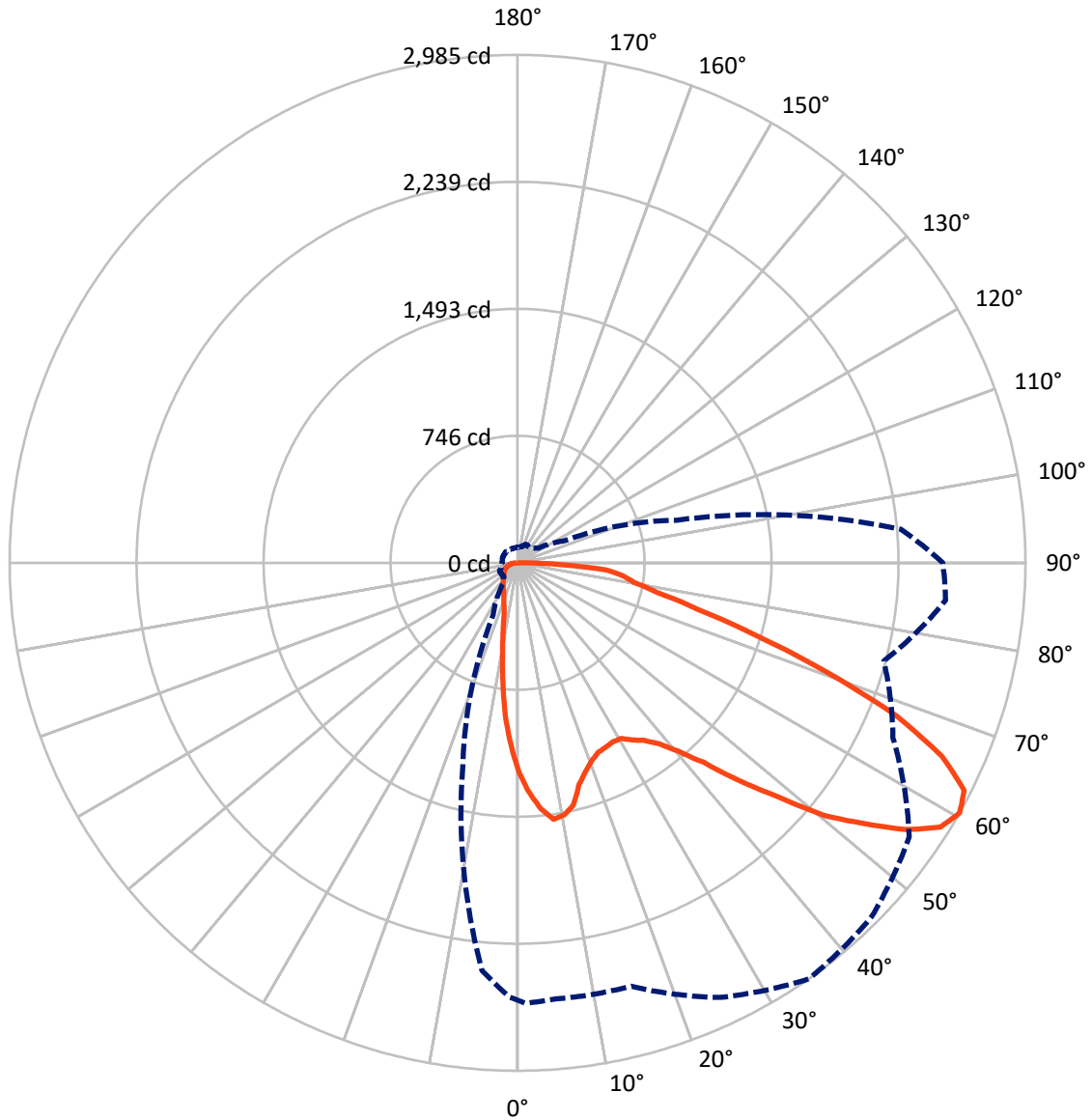
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P675812  
CATALOG NUMBER: CCW-SA-1D-727-U-SLL

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P675812  
 CATALOG NUMBER: CCW-SA-1D-727-U-SLL

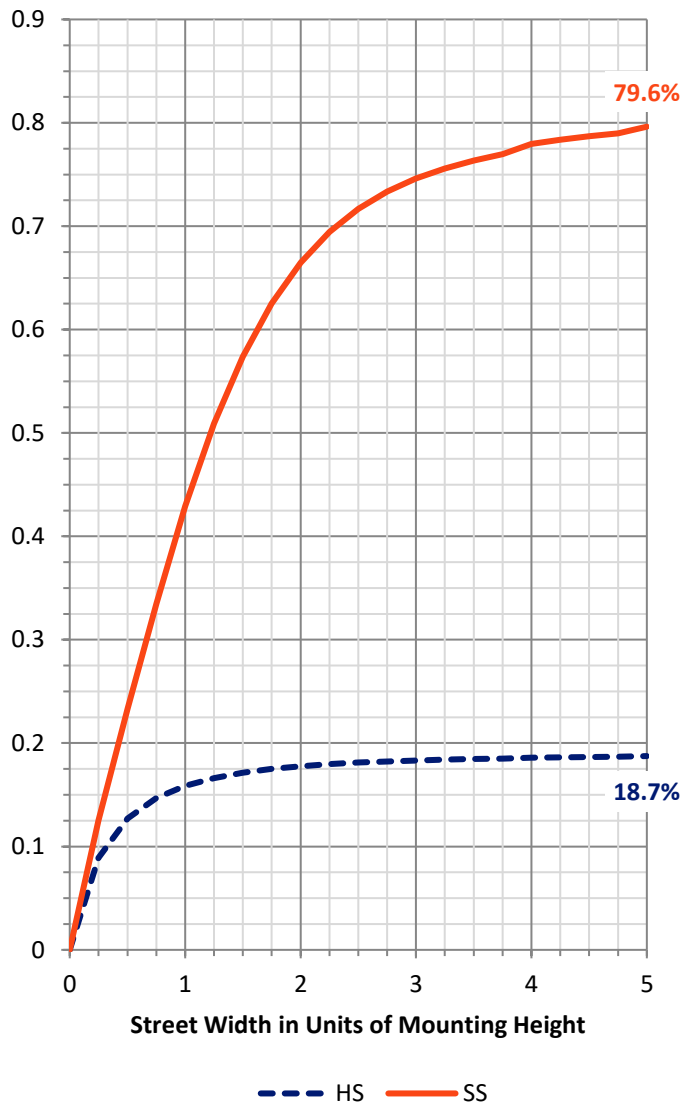
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	736.5	0.0	736.5
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	3133.3	0.0	3133.3
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	3869.8	0.0	3869.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.0	2.5
10°-20°	202.7	5.2
20°-30°	296.6	7.7
30°-40°	417.9	10.8
40°-50°	574.3	14.8
50°-60°	782.8	20.2
60°-70°	856.7	22.1
70°-80°	494.6	12.8
80°-90°	148.1	3.8
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°	3869.8	100.0
0°-180°	3869.8	100.0

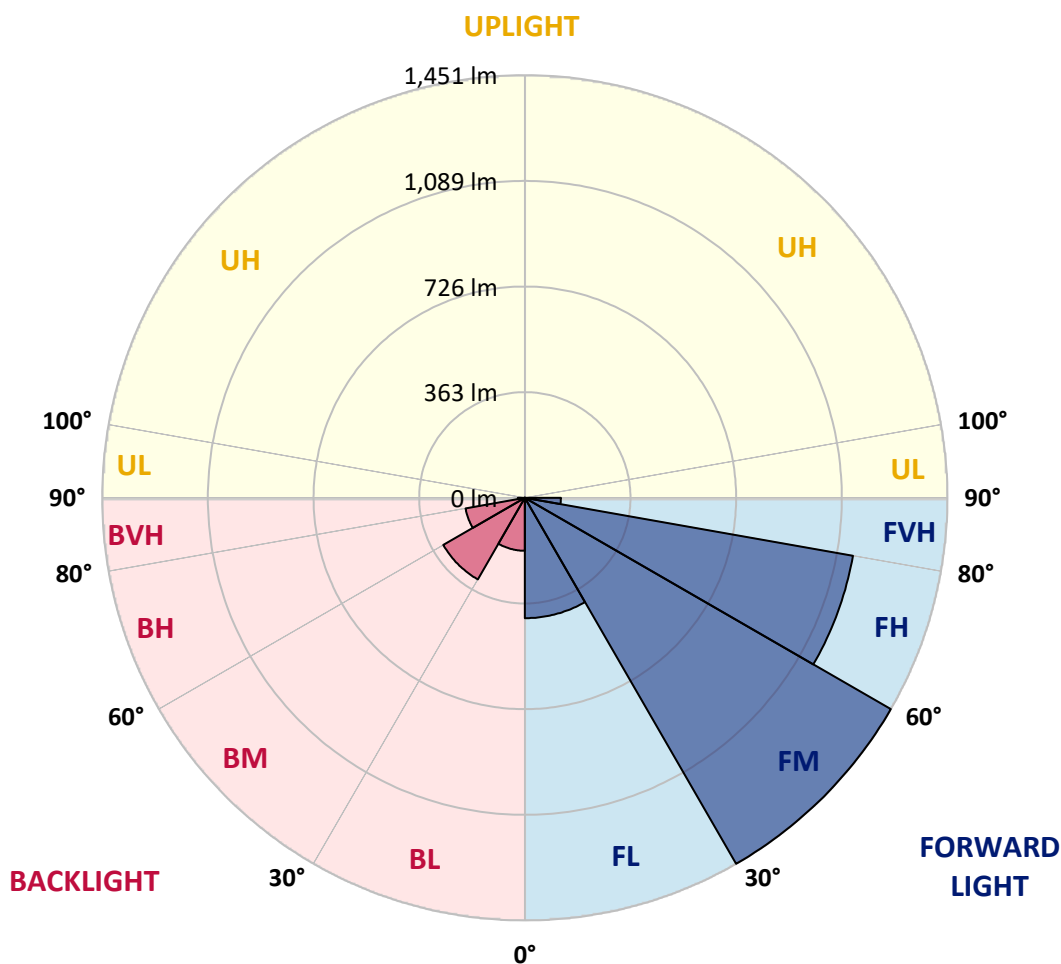


REPORT NUMBER: P675812  
 CATALOG NUMBER: CCW-SA-1D-727-U-SLL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.4	10.7			
FM (30°-60°)	1451.5	37.5			
FH (60°-80°)	1144.4	29.6			G1/1800
FVH (80°-90°)	124.0	3.2			G2/225
BL (0°-30°)	182.0	4.7	B1/500		
BM (30°-60°)	323.5	8.4	B1/1000		
BH (60°-80°)	206.8	5.3	B1/500		G1/500
BVH (80°-90°)	24.1	0.6			G1/100
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: P675812

CATALOG NUMBER: CCW-SA-1D-727-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0
2.5°	1323.5	1318.4	1323.5	1342.4	1347.6	1356.2	1356.2	1344.1	1321.8	1311.5	1294.4
5°	1352.7	1344.1	1387.1	1426.5	1457.4	1454.0	1424.8	1400.8	1356.2	1289.2	1225.7
7.5°	1294.4	1302.9	1333.8	1436.8	1508.9	1522.7	1476.3	1428.3	1332.1	1239.4	1153.6
10°	1184.5	1196.5	1263.5	1369.9	1483.2	1505.5	1476.3	1418.0	1302.9	1187.9	1088.4
12.5°	1131.3	1158.7	1198.2	1327.0	1407.7	1460.9	1447.1	1409.4	1280.6	1145.0	1048.9
15°	1131.3	1138.1	1196.5	1304.7	1351.0	1352.7	1357.9	1364.7	1287.5	1163.9	1035.1
17.5°	1167.3	1186.2	1236.0	1302.9	1311.5	1290.9	1290.9	1320.1	1301.2	1217.1	1084.9
20°	1254.9	1248.0	1313.2	1340.7	1294.4	1242.9	1237.7	1287.5	1316.7	1273.8	1175.9
22.5°	1342.4	1373.3	1426.5	1364.7	1278.9	1210.2	1203.4	1265.2	1363.0	1371.6	1280.6
25°	1474.6	1505.5	1533.0	1457.4	1277.2	1201.7	1206.8	1254.9	1419.7	1510.7	1455.7
27.5°	1617.1	1636.0	1675.5	1558.7	1318.4	1191.4	1196.5	1268.6	1472.9	1601.6	1593.1
30°	1697.8	1718.4	1709.8	1577.6	1345.9	1198.2	1184.5	1287.5	1443.7	1601.6	1682.3
32.5°	1776.7	1764.7	1759.6	1608.5	1380.2	1241.1	1206.8	1327.0	1460.9	1627.4	1797.3
35°	1872.9	1855.7	1842.0	1668.6	1436.8	1282.3	1266.9	1378.5	1498.6	1680.6	1890.0
37.5°	1979.3	1979.3	1912.4	1713.2	1503.8	1349.3	1332.1	1452.3	1558.7	1713.2	2017.1
40°	2104.6	2109.8	1991.3	1773.3	1579.3	1455.7	1450.6	1548.4	1617.1	1761.3	2139.0
42.5°	2197.3	2200.8	2060.0	1795.6	1666.9	1603.4	1625.7	1702.9	1684.0	1804.2	2147.5
45°	2260.8	2243.7	2108.1	1859.1	1763.0	1824.8	1831.7	1854.0	1771.6	1830.0	2181.9
47.5°	2291.7	2288.3	2128.7	1933.0	1965.6	2049.7	2089.2	2058.3	1852.3	1802.5	2181.9
50°	2322.6	2293.5	2147.5	2034.2	2163.0	2332.9	2324.4	2267.7	1963.9	1836.8	2149.3
52.5°	2343.2	2317.5	2185.3	2125.2	2351.8	2544.1	2578.4	2473.7	2094.3	1900.3	2164.7
55°	2417.1	2396.5	2298.6	2248.8	2569.8	2767.3	2772.4	2626.5	2231.7	2005.1	2266.0
57.5°	2506.3	2518.3	2454.8	2423.9	2736.4	2930.3	2911.5	2739.8	2348.4	2132.1	2382.7
60°	2569.8	2588.7	2573.3	2576.7	2818.8	2985.3	2942.4	2810.2	2434.2	2228.2	2525.2
62.5°	2535.5	2573.3	2636.8	2623.1	2822.2	2945.8	2885.7	2717.5	2444.5	2353.5	2633.4
65°	2441.1	2444.5	2568.1	2643.7	2667.7	2741.5	2662.5	2523.5	2338.1	2430.8	2617.9
67.5°	2199.0	2226.5	2338.1	2485.7	2384.4	2401.6	2394.7	2193.9	2176.7	2377.6	2499.5
70°	1941.5	1960.4	2082.3	2255.7	2013.6	1933.0	1948.4	1799.1	1869.4	2212.8	2260.8
72.5°	1605.1	1617.1	1756.1	1908.9	1615.4	1471.2	1507.2	1385.3	1484.9	1936.4	1907.2
75°	1212.0	1234.3	1342.4	1522.7	1189.6	1096.9	1133.0	1083.2	1175.9	1594.8	1479.8
77.5°	861.8	844.6	978.5	1191.4	894.4	839.4	842.9	851.5	951.0	1344.1	1062.6
80°	587.1	592.2	712.4	873.8	702.1	693.5	684.9	753.6	798.2	1064.3	772.5
82.5°	348.5	348.5	480.7	621.4	554.5	624.9	585.4	647.2	624.9	782.8	506.4
85°	163.1	163.1	247.2	448.0	429.2	515.0	437.7	489.2	461.8	545.9	228.3
87.5°	27.5	24.0	49.8	219.7	176.8	200.8	79.0	260.9	290.1	381.1	56.6
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: P675812  
 CATALOG NUMBER: CCW-SA-1D-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0
2.5°	1275.5	1263.5	1239.4	1208.5	1182.8	1150.2	1139.9	1117.5	1086.6	1083.2	1069.5
5°	1201.7	1160.5	1109.0	1045.4	1002.5	957.9	920.1	897.8	872.1	868.6	861.8
7.5°	1121.0	1069.5	983.6	908.1	834.3	763.9	729.6	686.7	657.5	635.2	624.9
10°	1045.4	997.4	890.9	787.9	722.7	676.4	635.2	590.5	554.5	527.0	516.7
12.5°	995.7	939.0	824.0	726.1	678.1	624.9	578.5	530.4	484.1	448.0	429.2
15°	973.3	920.1	803.4	695.2	624.9	551.0	497.8	449.8	393.1	367.4	358.8
17.5°	1026.6	947.6	796.5	659.2	559.6	475.5	410.3	358.8	317.6	291.8	281.5
20°	1095.2	997.4	808.5	616.3	497.8	403.4	331.3	276.4	248.9	230.0	228.3
22.5°	1182.8	1071.2	827.4	585.4	429.2	324.4	259.2	226.6	207.7	206.0	202.6
25°	1339.0	1205.1	858.3	544.2	374.2	267.8	221.4	202.6	194.0	188.8	192.3
27.5°	1472.9	1292.6	880.6	518.4	351.9	252.3	214.6	194.0	185.4	183.7	185.4
30°	1551.9	1373.3	873.8	470.4	307.3	240.3	228.3	221.4	204.3	190.5	190.5
32.5°	1624.0	1424.8	872.1	427.4	262.6	200.8	190.5	185.4	195.7	202.6	197.4
35°	1723.5	1505.5	866.9	403.4	243.8	185.4	168.2	154.5	147.6	144.2	149.3
37.5°	1830.0	1560.4	853.2	400.0	233.5	176.8	163.1	149.3	142.5	139.0	137.3
40°	1946.7	1618.8	837.7	382.8	228.3	171.7	157.9	145.9	137.3	132.2	130.5
42.5°	2022.2	1665.2	822.3	374.2	218.0	168.2	152.8	142.5	133.9	127.0	127.0
45°	2065.1	1720.1	806.8	365.6	206.0	169.9	152.8	139.0	128.7	125.3	121.9
47.5°	2084.0	1761.3	801.7	351.9	195.7	163.1	149.3	135.6	125.3	118.4	116.7
50°	2133.8	1848.8	820.6	341.6	183.7	156.2	157.9	133.9	123.6	115.0	113.3
52.5°	2163.0	1919.2	861.8	326.2	175.1	147.6	154.5	130.5	118.4	109.9	109.9
55°	2269.4	2036.0	906.4	314.1	164.8	135.6	142.5	123.6	109.9	104.7	104.7
57.5°	2405.0	2159.6	944.2	309.0	157.9	127.0	127.0	120.2	104.7	97.8	96.1
60°	2499.5	2260.8	966.5	305.6	151.1	118.4	113.3	120.2	99.6	92.7	91.0
62.5°	2509.8	2202.5	944.2	303.8	149.3	109.9	103.0	115.0	94.4	87.5	84.1
65°	2444.5	2084.0	882.4	297.0	147.6	101.3	96.1	99.6	87.5	82.4	79.0
67.5°	2314.1	1891.8	793.1	293.5	145.9	94.4	87.5	85.8	80.7	75.5	72.1
70°	2010.2	1641.1	688.4	278.1	142.5	89.3	79.0	77.2	72.1	68.7	66.9
72.5°	1687.5	1342.4	568.2	257.5	135.6	80.7	72.1	68.7	66.9	61.8	60.1
75°	1292.6	1033.4	454.9	228.3	118.4	72.1	63.5	60.1	58.4	54.9	53.2
77.5°	908.1	769.1	336.5	185.4	99.6	65.2	56.6	53.2	51.5	46.3	46.3
80°	616.3	539.0	228.3	128.7	77.2	53.2	49.8	46.3	42.9	39.5	39.5
82.5°	382.8	377.7	164.8	84.1	56.6	42.9	39.5	39.5	34.3	30.9	30.9
85°	175.1	231.7	115.0	58.4	42.9	32.6	32.6	30.9	27.5	22.3	22.3
87.5°	54.9	77.2	60.1	25.7	24.0	18.9	18.9	17.2	17.2	13.7	13.7
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: P675812

CATALOG NUMBER: CCW-SA-1D-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0
2.5°	1083.2	1081.5	1081.5	1074.6	1091.8	1091.8	1102.1	1093.5	1098.7	1100.4	1114.1
5°	860.0	873.8	884.1	904.7	916.7	921.8	921.8	935.6	930.4	940.7	961.3
7.5°	630.0	647.2	678.1	703.8	724.4	731.3	729.6	733.0	738.2	726.1	729.6
10°	509.8	497.8	508.1	532.2	551.0	573.4	556.2	554.5	559.6	554.5	564.8
12.5°	425.7	412.0	403.4	403.4	417.1	427.4	422.3	430.9	449.8	454.9	466.9
15°	345.0	333.0	326.2	317.6	331.3	334.7	339.9	351.9	365.6	372.5	386.2
17.5°	276.4	276.4	276.4	269.5	274.7	279.8	281.5	297.0	298.7	305.6	310.7
20°	226.6	231.7	240.3	243.8	248.9	248.9	245.5	254.1	247.2	252.3	255.8
22.5°	204.3	211.1	214.6	216.3	223.2	224.9	216.3	218.0	219.7	214.6	216.3
25°	192.3	195.7	192.3	194.0	195.7	192.3	194.0	197.4	195.7	199.1	197.4
27.5°	187.1	183.7	182.0	180.2	180.2	176.8	178.5	178.5	182.0	183.7	183.7
30°	187.1	182.0	175.1	169.9	169.9	164.8	168.2	171.7	173.4	176.8	176.8
32.5°	192.3	182.0	169.9	164.8	159.6	156.2	159.6	164.8	171.7	173.4	175.1
35°	152.8	157.9	156.2	149.3	147.6	147.6	145.9	145.9	140.8	140.8	139.0
37.5°	137.3	135.6	139.0	140.8	142.5	137.3	137.3	130.5	128.7	130.5	130.5
40°	128.7	128.7	128.7	133.9	135.6	132.2	127.0	123.6	123.6	123.6	125.3
42.5°	125.3	121.9	120.2	123.6	128.7	125.3	120.2	118.4	118.4	120.2	120.2
45°	120.2	118.4	116.7	115.0	121.9	116.7	115.0	113.3	113.3	113.3	115.0
47.5°	115.0	113.3	109.9	109.9	111.6	109.9	108.1	108.1	108.1	111.6	111.6
50°	111.6	109.9	106.4	106.4	106.4	106.4	104.7	104.7	104.7	106.4	108.1
52.5°	106.4	104.7	103.0	101.3	101.3	101.3	101.3	101.3	101.3	103.0	104.7
55°	101.3	99.6	97.8	97.8	99.6	99.6	97.8	99.6	97.8	99.6	101.3
57.5°	96.1	94.4	92.7	94.4	96.1	94.4	94.4	94.4	94.4	94.4	96.1
60°	89.3	89.3	89.3	89.3	92.7	92.7	92.7	92.7	89.3	91.0	92.7
62.5°	85.8	84.1	84.1	85.8	87.5	87.5	89.3	87.5	85.8	87.5	87.5
65°	79.0	79.0	79.0	80.7	80.7	82.4	82.4	82.4	80.7	82.4	82.4
67.5°	73.8	73.8	73.8	73.8	77.2	77.2	77.2	77.2	75.5	75.5	77.2
70°	65.2	66.9	65.2	68.7	72.1	70.4	72.1	72.1	70.4	68.7	72.1
72.5°	60.1	60.1	60.1	60.1	65.2	65.2	65.2	66.9	65.2	63.5	65.2
75°	53.2	53.2	53.2	54.9	58.4	58.4	58.4	58.4	58.4	56.6	56.6
77.5°	46.3	48.1	46.3	48.1	51.5	49.8	51.5	53.2	51.5	49.8	49.8
80°	39.5	39.5	39.5	41.2	42.9	42.9	42.9	44.6	42.9	41.2	41.2
82.5°	30.9	30.9	32.6	32.6	34.3	34.3	34.3	36.0	34.3	32.6	32.6
85°	24.0	24.0	24.0	25.7	25.7	27.5	27.5	29.2	29.2	27.5	27.5
87.5°	15.4	13.7	15.4	15.4	17.2	17.2	15.4	13.7	15.4	13.7	12.0
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: P675812  
 CATALOG NUMBER: CCW-SA-1D-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0	1236.0
2.5°	1127.8	1158.7	1181.1	1196.5	1218.8	1261.7	1278.9	1309.8	1318.4	1323.5
5°	969.9	1002.5	1050.6	1084.9	1124.4	1205.1	1266.9	1313.2	1333.8	1352.7
7.5°	760.5	803.4	853.2	897.8	963.0	1062.6	1143.3	1239.4	1275.5	1294.4
10°	594.0	633.4	688.4	743.3	834.3	918.4	1033.4	1121.0	1170.8	1184.5
12.5°	501.3	547.6	612.8	679.8	736.4	832.6	949.3	1076.3	1122.7	1131.3
15°	425.7	489.2	556.2	624.9	690.1	774.2	899.5	1054.0	1122.7	1131.3
17.5°	351.9	408.6	487.5	561.3	636.9	751.9	908.1	1072.9	1141.6	1167.3
20°	279.8	334.7	396.5	489.2	592.2	714.1	927.0	1136.4	1227.4	1254.9
22.5°	231.7	255.8	315.9	405.1	527.0	688.4	945.9	1236.0	1332.1	1342.4
25°	202.6	219.7	257.5	341.6	475.5	671.2	990.5	1351.0	1474.6	1474.6
27.5°	188.8	195.7	221.4	297.0	439.5	655.8	1035.1	1478.0	1593.1	1617.1
30°	185.4	202.6	216.3	264.4	400.0	612.8	1076.3	1577.6	1696.1	1697.8
32.5°	182.0	178.5	188.8	230.0	351.9	568.2	1110.7	1678.9	1771.6	1776.7
35°	142.5	149.3	166.5	202.6	315.9	535.6	1127.8	1733.8	1867.7	1872.9
37.5°	133.9	142.5	156.2	187.1	291.8	508.1	1133.0	1840.3	1969.0	1979.3
40°	130.5	137.3	147.6	173.4	272.9	473.8	1143.3	1950.1	2118.4	2104.6
42.5°	123.6	132.2	142.5	166.5	257.5	448.0	1145.0	2010.2	2197.3	2197.3
45°	121.9	127.0	139.0	166.5	240.3	425.7	1117.5	2070.3	2288.3	2260.8
47.5°	115.0	125.3	135.6	161.4	219.7	403.4	1084.9	2101.2	2300.3	2291.7
50°	113.3	123.6	140.8	152.8	207.7	393.1	1078.1	2178.4	2324.4	2322.6
52.5°	109.9	120.2	145.9	145.9	192.3	379.4	1110.7	2212.8	2329.5	2343.2
55°	104.7	120.2	135.6	133.9	178.5	362.2	1146.7	2302.0	2420.5	2417.1
57.5°	101.3	116.7	128.7	121.9	163.1	350.2	1199.9	2387.9	2530.4	2506.3
60°	96.1	116.7	115.0	113.3	151.1	339.9	1244.6	2405.0	2554.4	2569.8
62.5°	92.7	121.9	101.3	104.7	140.8	334.7	1225.7	2276.3	2521.8	2535.5
65°	89.3	104.7	92.7	96.1	137.3	324.4	1151.9	2121.8	2381.0	2441.1
67.5°	82.4	85.8	85.8	89.3	133.9	300.4	1000.8	1843.7	2166.4	2199.0
70°	75.5	77.2	77.2	82.4	130.5	272.9	825.7	1594.8	1879.7	1941.5
72.5°	68.7	68.7	68.7	75.5	120.2	250.6	679.8	1225.7	1562.2	1605.1
75°	60.1	60.1	60.1	66.9	108.1	228.3	535.6	911.5	1150.2	1212.0
77.5°	53.2	53.2	51.5	60.1	94.4	185.4	386.2	643.7	810.3	861.8
80°	44.6	42.9	42.9	48.1	73.8	133.9	248.9	454.9	564.8	587.1
82.5°	36.0	34.3	32.6	36.0	53.2	84.1	154.5	317.6	362.2	348.5
85°	34.3	36.0	29.2	27.5	37.8	54.9	97.8	195.7	163.1	163.1
87.5°	13.7	12.0	12.0	10.3	18.9	20.6	42.9	36.0	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)