

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: P676248

Luminaire Tested: **CCW-SA-2B-727-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676248
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-727-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

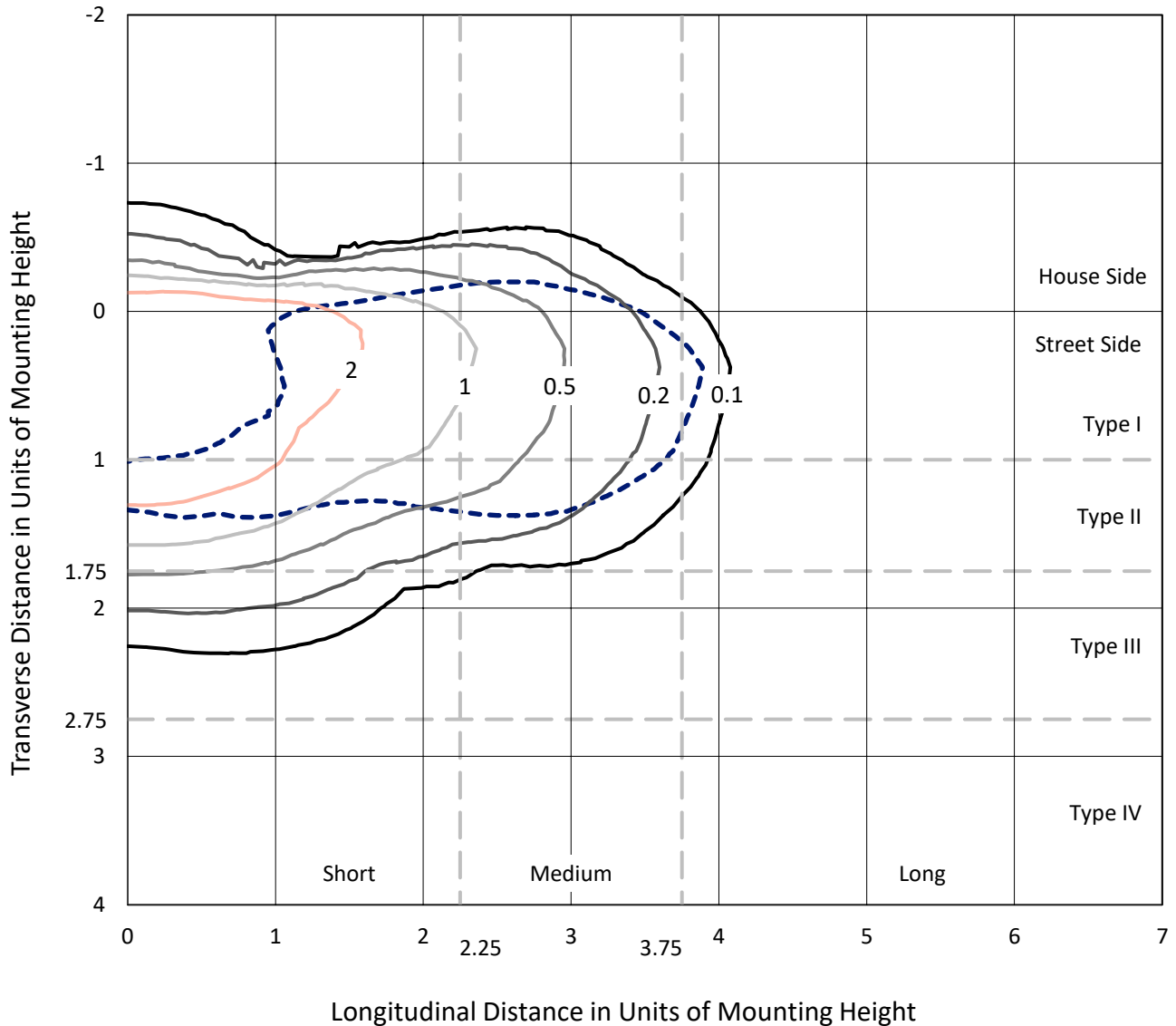
Lumens per Lamp: N/A
Luminaire Lumens: 4459 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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: P676248
 CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

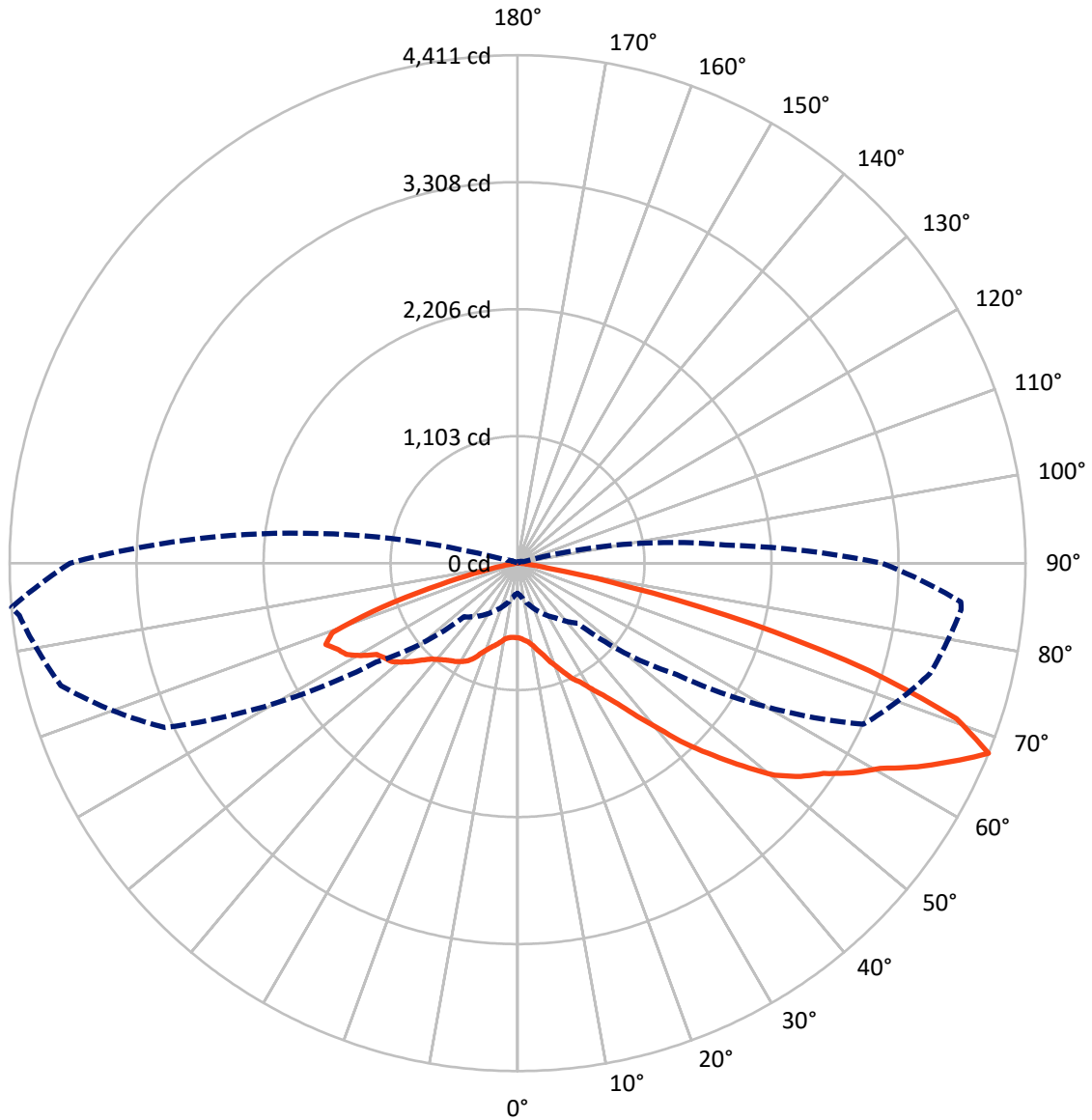
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P676248
CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P676248

CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

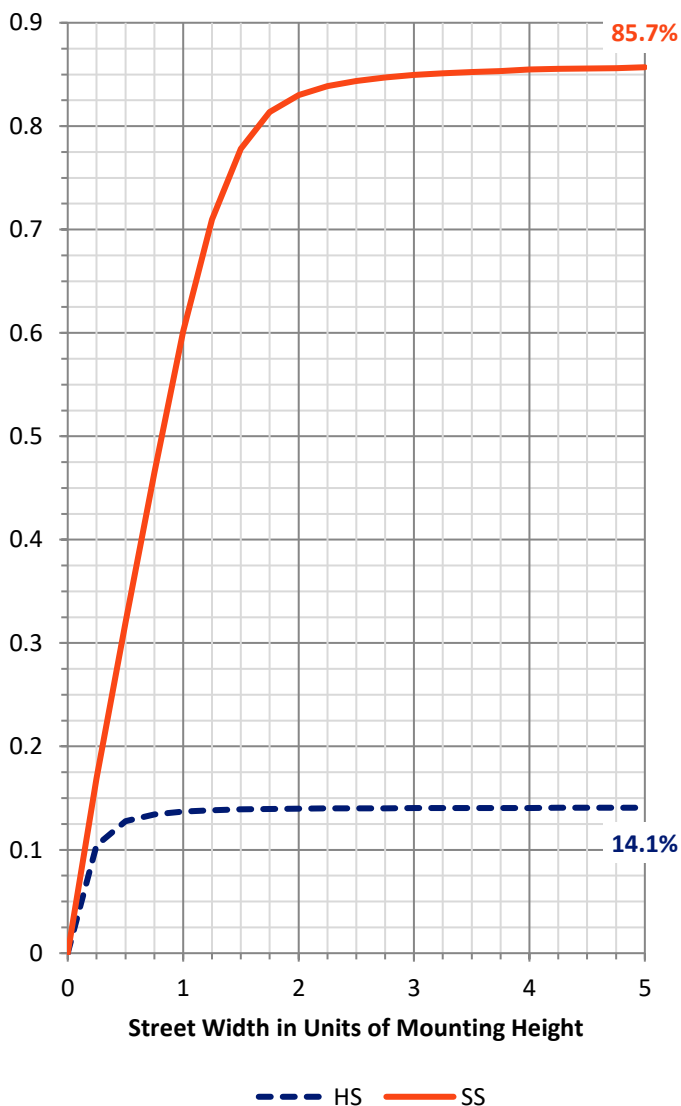
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.5	0.0	633.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3825.6	0.0	3825.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	4459.0	0.0	4459.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	1.3
10°-20°	159.0	3.6
20°-30°	264.0	5.9
30°-40°	454.3	10.2
40°-50°	816.3	18.3
50°-60°	1162.1	26.1
60°-70°	1059.5	23.8
70°-80°	451.1	10.1
80°-90°	33.6	0.8
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°	4459.0	100.0
0°-180°	4459.0	100.0



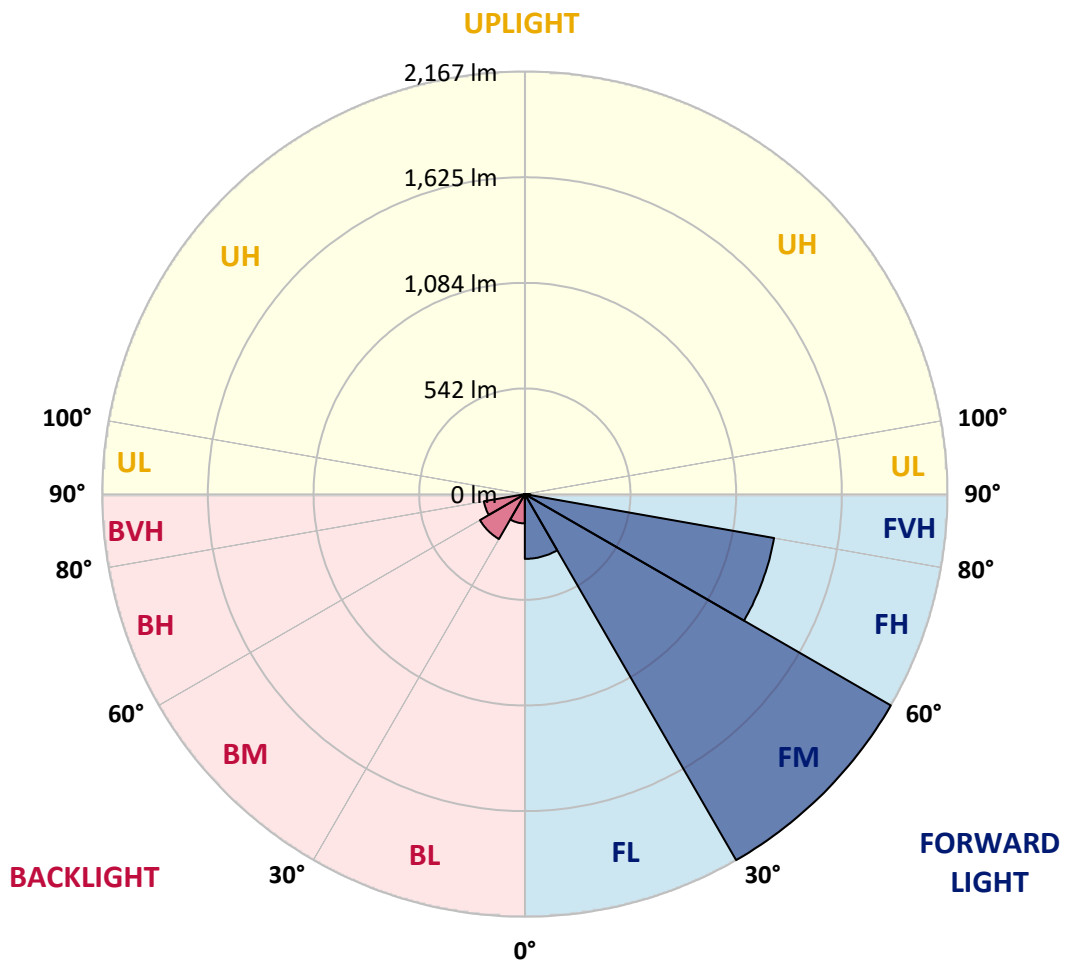
REPORT NUMBER: P676248
 CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.2	7.4			
FM (30°-60°)	2167.1	48.6			
FH (60°-80°)	1297.8	29.1			G1/1800
FVH (80°-90°)	28.5	0.6			G1/100
BL (0°-30°)	150.0	3.4	B1/500		
BM (30°-60°)	265.6	6.0	B1/1000		
BH (60°-80°)	212.9	4.8	B1/500		G1/500
BVH (80°-90°)	5.1	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 II Short





REPORT NUMBER: P676248
 CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	671.8	678.2	678.2	676.0	669.7	665.4	663.3	659.0	654.8	654.8	656.9
5°	678.2	671.8	680.3	669.7	669.7	669.7	678.2	673.9	671.8	661.2	661.2
7.5°	678.2	671.8	671.8	678.2	671.8	676.0	686.7	682.4	690.9	671.8	676.0
10°	659.0	656.9	661.2	669.7	671.8	680.3	690.9	712.2	714.3	701.6	699.4
12.5°	620.8	618.6	633.5	637.8	663.3	684.5	716.4	733.4	752.6	746.2	733.4
15°	593.1	597.4	608.0	625.0	648.4	686.7	722.8	761.1	795.1	786.6	782.3
17.5°	603.8	601.6	603.8	614.4	644.2	682.4	744.1	788.7	837.6	837.6	841.9
20°	635.7	642.0	639.9	633.5	648.4	680.3	744.1	822.7	903.5	897.1	897.1
22.5°	690.9	693.1	680.3	676.0	673.9	693.1	756.8	865.3	958.8	971.5	967.3
25°	748.3	750.5	746.2	733.4	716.4	720.7	780.2	899.3	1035.3	1056.6	1052.3
27.5°	844.0	841.9	831.2	816.4	790.8	771.7	816.4	924.8	1094.9	1131.0	1120.4
30°	939.7	933.3	918.4	899.3	875.9	839.7	861.0	973.7	1169.3	1203.3	1179.9
32.5°	1056.6	1043.8	1048.1	1018.3	969.4	912.0	907.8	1018.3	1228.8	1277.7	1258.5
35°	1205.4	1190.5	1169.3	1141.6	1094.9	1018.3	994.9	1090.6	1328.7	1364.8	1364.8
37.5°	1401.0	1415.9	1390.4	1275.6	1224.5	1152.3	1103.4	1165.0	1415.9	1503.0	1481.8
40°	1600.8	1613.6	1566.8	1481.8	1371.2	1281.9	1252.2	1286.2	1547.7	1651.8	1611.5
42.5°	1762.4	1779.4	1762.4	1651.8	1564.7	1449.9	1396.7	1428.6	1717.7	1843.2	1790.0
45°	1932.5	1949.5	1930.3	1858.1	1773.0	1707.1	1573.2	1613.6	1896.3	2083.4	2023.9
47.5°	2060.0	2081.3	2047.3	2032.4	1964.4	1953.7	1726.3	1770.9	2083.4	2325.8	2251.4
50°	2089.8	2113.2	2142.9	2159.9	2136.6	2162.1	1932.5	1970.7	2279.0	2549.0	2476.7
52.5°	2019.6	2043.0	2108.9	2187.6	2296.0	2372.5	2140.8	2172.7	2483.1	2733.9	2695.7
55°	1813.4	1834.7	1968.6	2074.9	2334.3	2459.7	2340.6	2474.6	2629.8	2927.4	2833.9
57.5°	1466.9	1492.4	1668.9	1832.6	2206.7	2410.8	2459.7	2725.4	2872.1	3069.8	2961.4
60°	1041.7	1056.6	1209.7	1498.8	1853.8	2166.3	2436.3	2912.5	3063.5	3261.2	3203.8
62.5°	599.5	612.3	771.7	1043.8	1398.9	1809.2	2332.1	3089.0	3269.7	3471.6	3439.8
65°	397.5	401.8	510.2	659.0	909.9	1333.0	2068.5	3246.3	3473.8	3639.6	3603.4
67.5°	261.5	284.9	369.9	472.0	582.5	737.7	1685.9	3312.2	3707.6	3873.4	3864.9
70°	187.1	195.6	265.7	363.5	437.9	414.6	986.4	2846.6	3697.0	3937.2	3867.1
72.5°	110.5	119.1	176.5	272.1	344.4	263.6	461.3	2013.3	3063.5	3142.1	3123.0
75°	80.8	80.8	108.4	195.6	250.9	189.2	216.8	1273.4	2034.5	2208.8	2206.7
77.5°	57.4	59.5	74.4	116.9	193.5	138.2	119.1	707.9	1111.9	1216.0	1158.6
80°	34.0	36.1	51.0	70.2	140.3	99.9	78.7	323.1	427.3	431.6	410.3
82.5°	25.5	25.5	34.0	48.9	97.8	68.0	48.9	123.3	138.2	125.4	106.3
85°	14.9	12.8	25.5	36.1	57.4	38.3	34.0	57.4	63.8	46.8	42.5
87.5°	4.3	4.3	10.6	12.8	25.5	21.3	14.9	21.3	29.8	17.0	12.8
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: P676248
 CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	652.7	646.3	635.7	631.4	616.5	610.1	605.9	595.3	597.4	591.0	591.0
5°	646.3	646.3	625.0	601.6	578.3	563.4	546.4	525.1	525.1	516.6	518.7
7.5°	669.7	652.7	625.0	582.5	544.2	510.2	495.3	474.1	461.3	454.9	454.9
10°	684.5	667.5	620.8	569.7	520.9	478.3	446.4	416.7	399.7	399.7	397.5
12.5°	724.9	699.4	637.8	567.6	495.3	431.6	382.7	348.7	325.3	308.3	312.5
15°	759.0	731.3	646.3	550.6	450.7	361.4	301.9	238.1	206.2	189.2	182.8
17.5°	812.1	761.1	665.4	520.9	382.7	282.7	195.6	142.4	129.7	127.6	127.6
20°	856.7	797.2	667.5	463.5	314.6	180.7	125.4	116.9	110.5	108.4	106.3
22.5°	918.4	844.0	659.0	397.5	225.3	121.2	106.3	97.8	93.5	87.2	87.2
25°	982.2	905.6	642.0	335.9	138.2	104.2	93.5	85.0	76.5	72.3	74.4
27.5°	1050.2	952.4	593.1	261.5	106.3	91.4	76.5	70.2	65.9	63.8	63.8
30°	1105.5	982.2	520.9	174.3	95.7	80.8	68.0	61.7	57.4	55.3	55.3
32.5°	1145.9	1007.7	440.1	116.9	87.2	72.3	61.7	55.3	51.0	48.9	48.9
35°	1213.9	1026.8	365.7	99.9	78.7	63.8	53.1	48.9	44.6	44.6	44.6
37.5°	1318.1	1052.3	291.3	91.4	72.3	57.4	51.0	44.6	42.5	40.4	40.4
40°	1409.5	1084.2	208.3	82.9	65.9	53.1	44.6	40.4	38.3	36.1	36.1
42.5°	1541.3	1120.4	136.1	74.4	59.5	48.9	40.4	36.1	34.0	31.9	31.9
45°	1709.2	1179.9	106.3	65.9	53.1	44.6	38.3	34.0	29.8	29.8	27.6
47.5°	1887.8	1252.2	95.7	61.7	48.9	40.4	34.0	29.8	27.6	25.5	25.5
50°	2053.6	1322.3	89.3	57.4	44.6	38.3	31.9	27.6	23.4	21.3	21.3
52.5°	2202.5	1388.2	85.0	53.1	42.5	34.0	27.6	23.4	21.3	19.1	19.1
55°	2281.1	1418.0	82.9	51.0	38.3	31.9	25.5	21.3	19.1	17.0	17.0
57.5°	2404.4	1456.3	80.8	48.9	36.1	27.6	23.4	19.1	17.0	14.9	14.9
60°	2604.3	1581.7	78.7	46.8	34.0	27.6	21.3	17.0	12.8	10.6	10.6
62.5°	2770.1	1685.9	70.2	40.4	29.8	23.4	17.0	12.8	8.5	6.4	6.4
65°	2959.3	1734.8	61.7	36.1	25.5	19.1	12.8	8.5	6.4	2.1	2.1
67.5°	3165.5	1809.2	51.0	31.9	23.4	14.9	10.6	6.4	2.1	0.0	0.0
70°	3057.1	1715.6	42.5	27.6	21.3	12.8	8.5	4.3	0.0	0.0	0.0
72.5°	2395.9	1228.8	34.0	25.5	19.1	12.8	8.5	2.1	0.0	0.0	0.0
75°	1600.8	695.2	29.8	21.3	14.9	10.6	6.4	2.1	0.0	0.0	0.0
77.5°	869.5	312.5	25.5	19.1	12.8	8.5	6.4	2.1	0.0	0.0	0.0
80°	282.7	123.3	21.3	17.0	12.8	8.5	6.4	2.1	0.0	0.0	0.0
82.5°	76.5	38.3	21.3	17.0	12.8	8.5	6.4	2.1	0.0	0.0	0.0
85°	31.9	25.5	21.3	17.0	12.8	8.5	6.4	2.1	0.0	0.0	0.0
87.5°	12.8	8.5	8.5	10.6	8.5	6.4	4.3	2.1	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: P676248
 CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	593.1	597.4	599.5	599.5	610.1	620.8	633.5	644.2	644.2	650.5	656.9
5°	520.9	525.1	531.5	550.6	571.9	595.3	618.6	635.7	659.0	669.7	676.0
7.5°	461.3	465.6	482.6	501.7	531.5	571.9	612.3	650.5	673.9	684.5	693.1
10°	399.7	406.1	425.2	459.2	497.5	546.4	593.1	659.0	697.3	718.6	727.1
12.5°	310.4	327.4	352.9	389.0	437.9	512.3	599.5	667.5	733.4	759.0	776.0
15°	195.6	210.5	250.9	308.3	374.2	461.3	582.5	680.3	771.7	797.2	824.9
17.5°	125.4	127.6	140.3	202.0	287.0	397.5	557.0	699.4	814.2	850.4	892.9
20°	106.3	110.5	112.7	121.2	191.3	327.4	503.8	722.8	865.3	914.1	954.5
22.5°	89.3	91.4	95.7	102.0	114.8	238.1	431.6	722.8	909.9	982.2	1028.9
25°	72.3	76.5	80.8	87.2	99.9	148.8	357.2	710.1	963.0	1052.3	1111.9
27.5°	63.8	63.8	68.0	74.4	85.0	104.2	282.7	671.8	1003.4	1094.9	1173.5
30°	55.3	57.4	59.5	65.9	76.5	91.4	195.6	610.1	1046.0	1177.8	1267.1
32.5°	48.9	48.9	53.1	57.4	68.0	82.9	125.4	516.6	1101.2	1241.5	1367.0
35°	44.6	44.6	46.8	51.0	61.7	74.4	97.8	437.9	1167.1	1362.7	1500.9
37.5°	40.4	40.4	42.5	46.8	55.3	65.9	89.3	376.3	1235.2	1483.9	1685.9
40°	36.1	36.1	38.3	42.5	48.9	59.5	80.8	304.0	1320.2	1662.5	1887.8
42.5°	31.9	31.9	34.0	38.3	44.6	53.1	70.2	227.5	1432.9	1855.9	2149.3
45°	27.6	27.6	29.8	34.0	38.3	48.9	63.8	174.3	1556.2	2070.7	2378.9
47.5°	23.4	25.5	27.6	31.9	36.1	44.6	57.4	153.1	1677.4	2298.1	2634.0
50°	21.3	21.3	23.4	27.6	34.0	40.4	53.1	150.9	1800.7	2472.5	2895.5
52.5°	19.1	19.1	21.3	25.5	31.9	38.3	51.0	155.2	1902.7	2634.0	3078.3
55°	17.0	17.0	19.1	21.3	27.6	36.1	46.8	159.4	1975.0	2797.7	3225.0
57.5°	14.9	14.9	17.0	21.3	25.5	31.9	42.5	163.7	2091.9	2959.3	3437.6
60°	10.6	10.6	14.9	19.1	23.4	27.6	40.4	167.9	2279.0	3182.5	3618.3
62.5°	6.4	6.4	8.5	14.9	19.1	25.5	36.1	159.4	2453.3	3469.5	3894.7
65°	2.1	4.3	6.4	8.5	14.9	21.3	29.8	144.6	2600.0	3756.5	4149.8
67.5°	0.0	0.0	2.1	6.4	12.8	17.0	25.5	106.3	2623.4	3886.2	4411.3
70°	0.0	0.0	2.1	6.4	10.6	17.0	23.4	59.5	2234.4	3471.6	4043.5
72.5°	0.0	0.0	0.0	4.3	10.6	14.9	21.3	44.6	1647.6	2617.0	3195.3
75°	0.0	0.0	0.0	2.1	8.5	12.8	19.1	34.0	1001.3	1745.4	2085.5
77.5°	0.0	0.0	0.0	2.1	6.4	12.8	19.1	29.8	352.9	831.2	980.1
80°	0.0	0.0	0.0	4.3	8.5	12.8	17.0	25.5	85.0	208.3	280.6
82.5°	0.0	0.0	0.0	2.1	6.4	10.6	14.9	21.3	34.0	61.7	97.8
85°	0.0	0.0	0.0	2.1	4.3	10.6	14.9	19.1	23.4	29.8	42.5
87.5°	0.0	0.0	0.0	0.0	2.1	4.3	6.4	8.5	8.5	8.5	14.9
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: P676248
 CATALOG NUMBER: CCW-SA-2B-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	654.8	663.3	667.5	676.0	680.3	678.2	676.0	682.4	678.2	671.8
5°	678.2	678.2	684.5	686.7	686.7	680.3	684.5	682.4	678.2	678.2
7.5°	703.7	714.3	714.3	701.6	699.4	695.2	695.2	678.2	671.8	678.2
10°	729.2	737.7	739.8	724.9	705.8	697.3	686.7	665.4	654.8	659.0
12.5°	782.3	782.3	759.0	741.9	716.4	686.7	661.2	631.4	616.5	620.8
15°	820.6	829.1	797.2	759.0	714.3	659.0	631.4	608.0	599.5	593.1
17.5°	895.0	878.0	827.0	771.7	707.9	650.5	631.4	610.1	603.8	603.8
20°	958.8	950.3	873.8	773.8	705.8	667.5	654.8	644.2	642.0	635.7
22.5°	1046.0	1007.7	909.9	797.2	729.2	695.2	690.9	701.6	695.2	690.9
25°	1111.9	1080.0	937.5	831.2	765.3	754.7	761.1	771.7	754.7	748.3
27.5°	1201.1	1141.6	990.7	875.9	814.2	824.9	846.1	848.2	837.6	844.0
30°	1284.1	1220.3	1031.1	926.9	897.1	907.8	939.7	963.0	948.2	939.7
32.5°	1403.1	1305.3	1111.9	1011.9	1001.3	1028.9	1065.1	1080.0	1060.8	1056.6
35°	1528.5	1403.1	1194.8	1107.6	1126.7	1165.0	1196.9	1222.4	1192.6	1205.4
37.5°	1724.1	1560.4	1335.1	1258.5	1267.1	1281.9	1341.5	1411.6	1426.5	1401.0
40°	1928.2	1730.5	1464.8	1405.2	1424.4	1464.8	1534.9	1600.8	1634.8	1600.8
42.5°	2164.2	1894.2	1664.6	1594.4	1613.6	1671.0	1764.5	1817.7	1813.4	1762.4
45°	2455.4	2121.7	1851.7	1764.5	1834.7	1885.7	1979.2	1985.6	1945.2	1932.5
47.5°	2678.7	2313.0	2053.6	1998.4	2094.0	2096.2	2117.4	2119.6	2074.9	2060.0
50°	2925.3	2534.1	2279.0	2198.2	2359.8	2285.4	2228.0	2189.7	2121.7	2089.8
52.5°	3167.6	2691.4	2487.3	2404.4	2572.4	2374.7	2270.5	2153.6	2053.6	2019.6
55°	3297.3	2950.8	2791.3	2597.9	2619.1	2400.2	2138.7	1992.0	1821.9	1813.4
57.5°	3450.4	3125.1	3048.6	2729.7	2540.5	2221.6	1864.4	1671.0	1488.1	1466.9
60°	3631.1	3401.5	3320.7	2708.4	2262.0	1866.6	1477.5	1228.8	1056.6	1041.7
62.5°	3833.0	3728.9	3488.6	2500.1	1796.4	1313.8	975.8	767.5	608.0	599.5
65°	4151.9	4003.1	3577.9	2104.7	1188.4	841.9	648.4	497.5	401.8	397.5
67.5°	4351.8	4107.3	3378.1	1500.9	659.0	557.0	454.9	361.4	278.5	261.5
70°	4069.0	3769.3	2672.3	858.9	382.7	423.1	350.8	242.4	191.3	187.1
72.5°	3250.5	2797.7	1798.5	403.9	238.1	331.6	255.1	163.7	114.8	110.5
75°	2217.3	1760.3	1128.9	187.1	167.9	242.4	187.1	95.7	80.8	80.8
77.5°	990.7	897.1	578.3	114.8	125.4	185.0	108.4	65.9	59.5	57.4
80°	301.9	316.8	236.0	78.7	93.5	140.3	65.9	44.6	36.1	34.0
82.5°	102.0	119.1	106.3	46.8	63.8	99.9	44.6	29.8	25.5	25.5
85°	48.9	59.5	53.1	29.8	34.0	48.9	36.1	23.4	14.9	14.9
87.5°	19.1	27.6	19.1	12.8	19.1	25.5	14.9	10.6	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)