

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: P676241

Luminaire Tested: **CCW-SA-1A-727-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676241
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-727-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

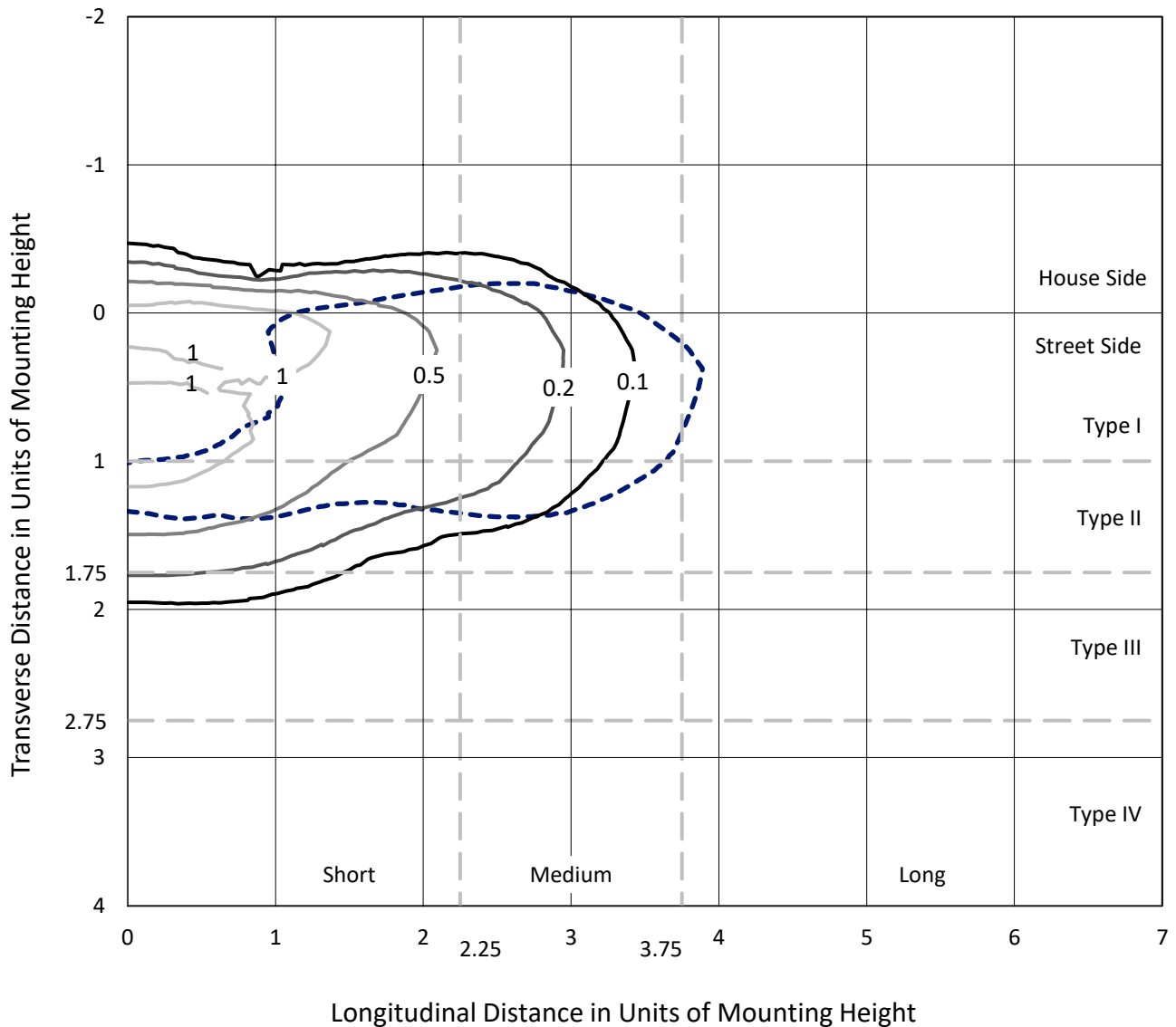
Lumens per Lamp: N/A
Luminaire Lumens: 1766.4 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 18
Input Voltage (V): 120
Input Current (A_{in}): 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: P676241
 CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

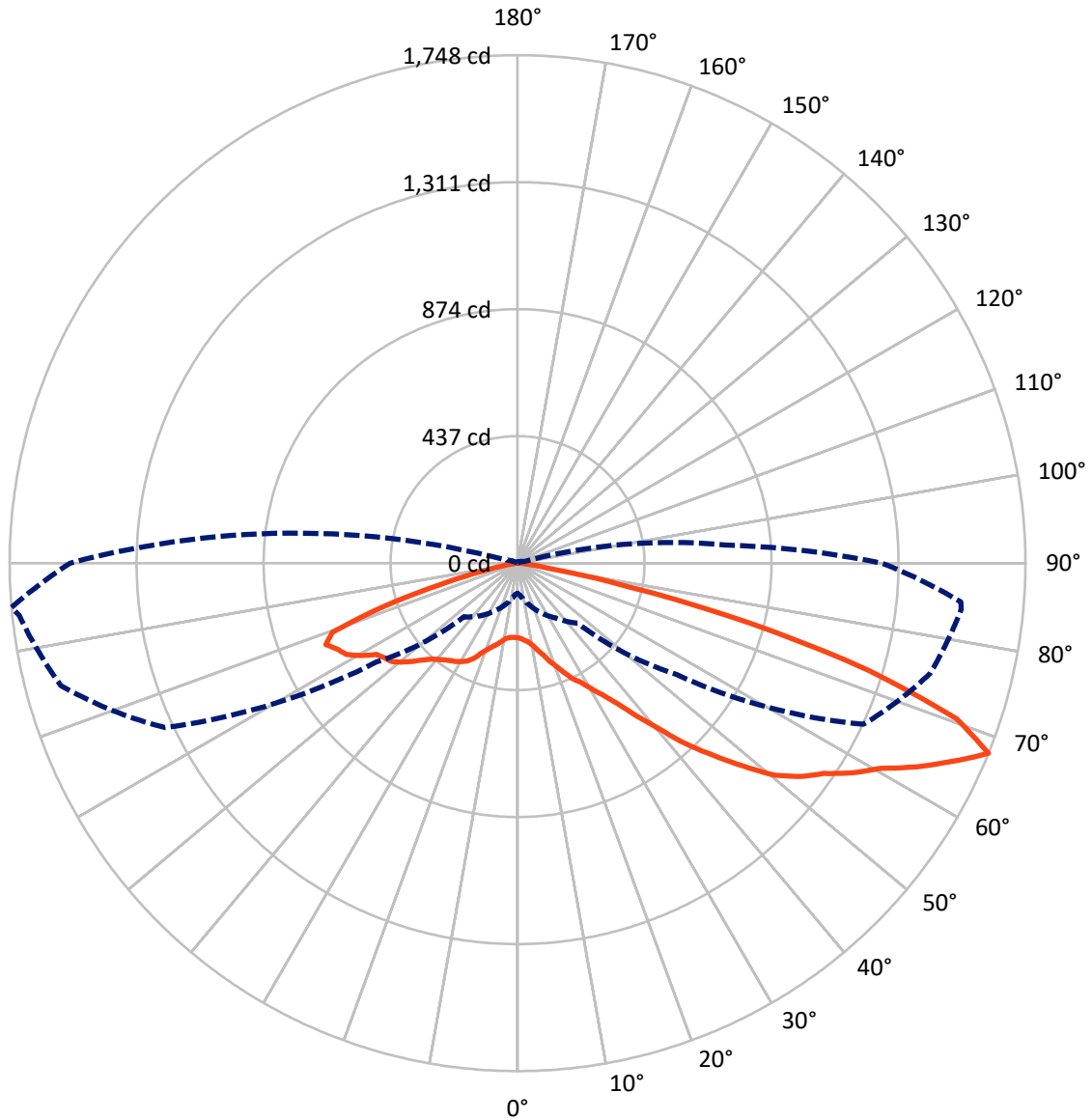
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

REPORT NUMBER: P676241
CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676241
 CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

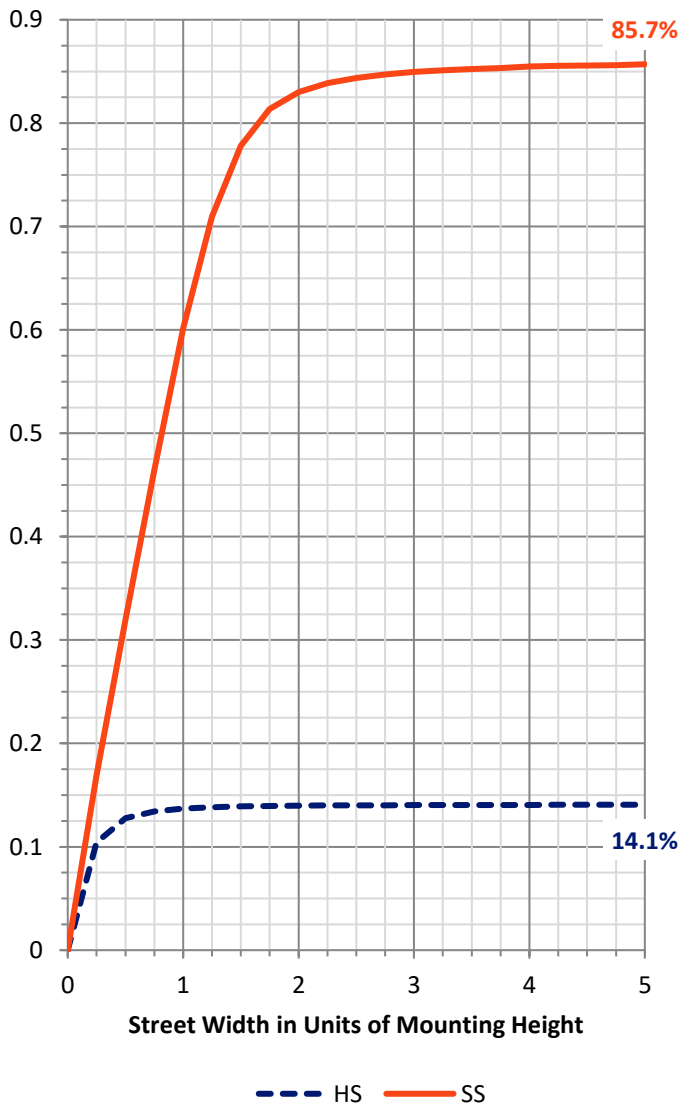
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	250.9	0.0	250.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1515.5	0.0	1515.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	1766.4	0.0	1766.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.4	1.3
10°-20°	63.0	3.6
20°-30°	104.6	5.9
30°-40°	179.9	10.2
40°-50°	323.4	18.3
50°-60°	460.4	26.1
60°-70°	419.7	23.8
70°-80°	178.7	10.1
80°-90°	13.3	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°	1766.4	100.0
0°-180°	1766.4	100.0



REPORT NUMBER: P676241

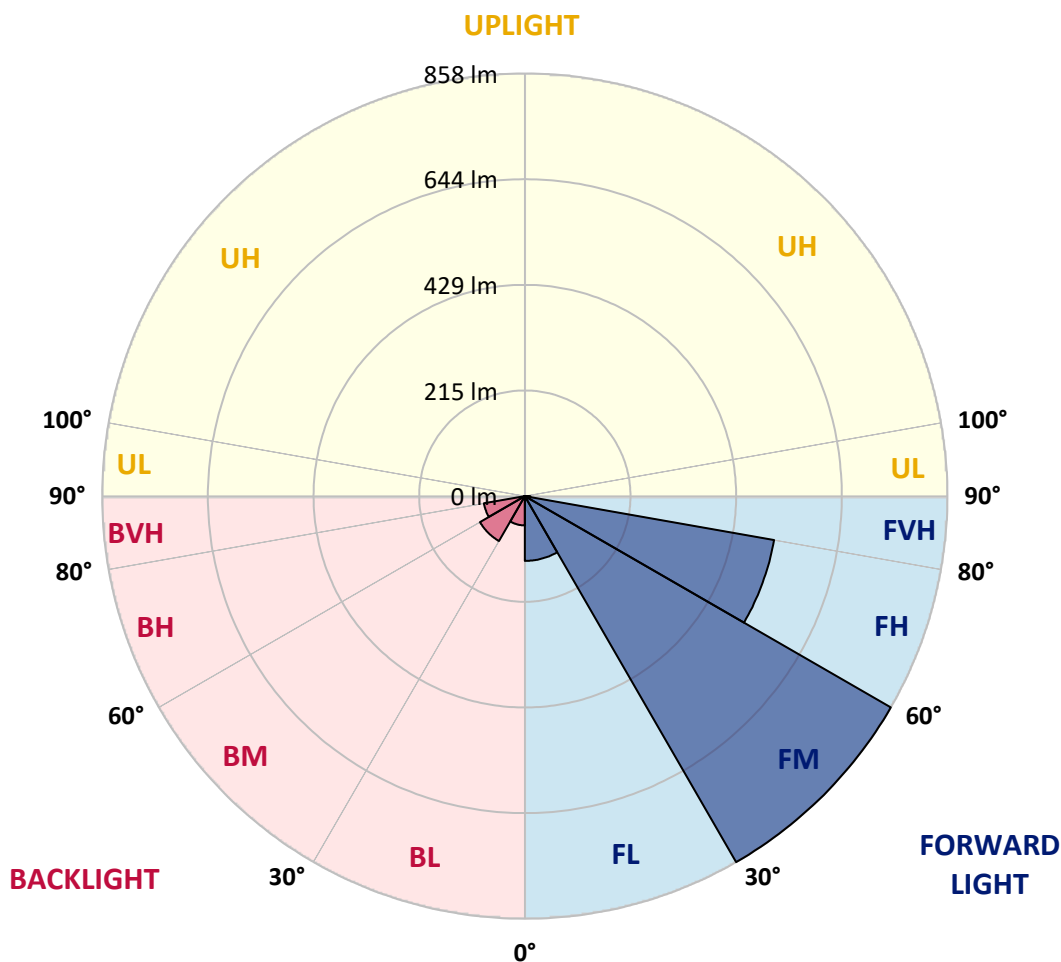
CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.6	7.4			
FM (30°-60°)	858.5	48.6			
FH (60°-80°)	514.1	29.1			G0/660
FVH (80°-90°)	11.3	0.6			G1/100
BL (0°-30°)	59.4	3.4	B0/110		
BM (30°-60°)	105.2	6.0	B0/220		
BH (60°-80°)	84.3	4.8	B0/110		G0/110
BVH (80°-90°)	2.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





REPORT NUMBER: P676241
 CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9
2.5°	266.1	268.6	268.6	267.8	265.3	263.6	262.8	261.1	259.4	259.4	260.2
5°	268.6	266.1	269.5	265.3	265.3	265.3	268.6	267.0	266.1	261.9	261.9
7.5°	268.6	266.1	266.1	268.6	266.1	267.8	272.0	270.3	273.7	266.1	267.8
10°	261.1	260.2	261.9	265.3	266.1	269.5	273.7	282.1	283.0	277.9	277.1
12.5°	245.9	245.1	251.0	252.6	262.8	271.2	283.8	290.5	298.1	295.6	290.5
15°	235.0	236.6	240.9	247.6	256.9	272.0	286.3	301.5	315.0	311.6	309.9
17.5°	239.2	238.3	239.2	243.4	255.2	270.3	294.8	312.4	331.8	331.8	333.5
20°	251.8	254.3	253.5	251.0	256.9	269.5	294.8	325.9	357.9	355.4	355.4
22.5°	273.7	274.5	269.5	267.8	267.0	274.5	299.8	342.8	379.8	384.9	383.2
25°	296.4	297.3	295.6	290.5	283.8	285.5	309.1	356.2	410.1	418.6	416.9
27.5°	334.3	333.5	329.3	323.4	313.3	305.7	323.4	366.3	433.7	448.0	443.8
30°	372.2	369.7	363.8	356.2	347.0	332.7	341.1	385.7	463.2	476.7	467.4
32.5°	418.6	413.5	415.2	403.4	384.0	361.3	359.6	403.4	486.8	506.1	498.6
35°	477.5	471.6	463.2	452.2	433.7	403.4	394.1	432.0	526.4	540.7	540.7
37.5°	555.0	560.9	550.8	505.3	485.1	456.5	437.1	461.5	560.9	595.4	587.0
40°	634.1	639.2	620.7	587.0	543.2	507.8	496.0	509.5	613.1	654.4	638.4
42.5°	698.2	704.9	698.2	654.4	619.8	574.4	553.3	565.9	680.5	730.2	709.1
45°	765.5	772.3	764.7	736.1	702.4	676.3	623.2	639.2	751.2	825.3	801.7
47.5°	816.1	824.5	811.0	805.1	778.2	773.9	683.8	701.5	825.3	921.3	891.9
50°	827.8	837.1	848.9	855.6	846.4	856.5	765.5	780.7	902.8	1009.8	981.1
52.5°	800.1	809.3	835.4	866.6	909.5	939.9	848.1	860.7	983.6	1083.0	1067.9
55°	718.4	726.8	779.8	822.0	924.7	974.4	927.2	980.3	1041.8	1159.7	1122.6
57.5°	581.1	591.2	661.1	725.9	874.2	955.0	974.4	1079.7	1137.8	1216.1	1173.1
60°	412.7	418.6	479.2	593.7	734.4	858.2	965.1	1153.8	1213.6	1291.9	1269.1
62.5°	237.5	242.5	305.7	413.5	554.1	716.7	923.9	1223.7	1295.2	1375.3	1362.6
65°	157.5	159.2	202.1	261.1	360.4	528.0	819.4	1286.0	1376.1	1441.8	1427.5
67.5°	103.6	112.8	146.5	187.0	230.8	292.2	667.8	1312.1	1468.7	1534.4	1531.1
70°	74.1	77.5	105.3	144.0	173.5	164.2	390.8	1127.7	1464.5	1559.7	1531.9
72.5°	43.8	47.2	69.9	107.8	136.4	104.4	182.7	797.5	1213.6	1244.7	1237.1
75°	32.0	32.0	43.0	77.5	99.4	75.0	85.9	504.5	805.9	875.0	874.2
77.5°	22.7	23.6	29.5	46.3	76.6	54.7	47.2	280.4	440.5	481.7	459.0
80°	13.5	14.3	20.2	27.8	55.6	39.6	31.2	128.0	169.3	171.0	162.5
82.5°	10.1	10.1	13.5	19.4	38.7	26.9	19.4	48.8	54.7	49.7	42.1
85°	5.9	5.1	10.1	14.3	22.7	15.2	13.5	22.7	25.3	18.5	16.8
87.5°	1.7	1.7	4.2	5.1	10.1	8.4	5.9	8.4	11.8	6.7	5.1
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: P676241
 CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9
2.5°	258.5	256.0	251.8	250.1	244.2	241.7	240.0	235.8	236.6	234.1	234.1
5°	256.0	256.0	247.6	238.3	229.1	223.2	216.4	208.0	208.0	204.6	205.5
7.5°	265.3	258.5	247.6	230.8	215.6	202.1	196.2	187.8	182.7	180.2	180.2
10°	271.2	264.4	245.9	225.7	206.3	189.5	176.9	165.1	158.3	158.3	157.5
12.5°	287.2	277.1	252.6	224.9	196.2	171.0	151.6	138.1	128.9	122.1	123.8
15°	300.7	289.7	256.0	218.1	178.5	143.2	119.6	94.3	81.7	75.0	72.4
17.5°	321.7	301.5	263.6	206.3	151.6	112.0	77.5	56.4	51.4	50.5	50.5
20°	339.4	315.8	264.4	183.6	124.6	71.6	49.7	46.3	43.8	43.0	42.1
22.5°	363.8	334.3	261.1	157.5	89.3	48.0	42.1	38.7	37.1	34.5	34.5
25°	389.1	358.8	254.3	133.1	54.7	41.3	37.1	33.7	30.3	28.6	29.5
27.5°	416.0	377.3	235.0	103.6	42.1	36.2	30.3	27.8	26.1	25.3	25.3
30°	437.9	389.1	206.3	69.1	37.9	32.0	26.9	24.4	22.7	21.9	21.9
32.5°	453.9	399.2	174.3	46.3	34.5	28.6	24.4	21.9	20.2	19.4	19.4
35°	480.9	406.8	144.9	39.6	31.2	25.3	21.1	19.4	17.7	17.7	17.7
37.5°	522.1	416.9	115.4	36.2	28.6	22.7	20.2	17.7	16.8	16.0	16.0
40°	558.4	429.5	82.5	32.8	26.1	21.1	17.7	16.0	15.2	14.3	14.3
42.5°	610.6	443.8	53.9	29.5	23.6	19.4	16.0	14.3	13.5	12.6	12.6
45°	677.1	467.4	42.1	26.1	21.1	17.7	15.2	13.5	11.8	11.8	10.9
47.5°	747.8	496.0	37.9	24.4	19.4	16.0	13.5	11.8	10.9	10.1	10.1
50°	813.5	523.8	35.4	22.7	17.7	15.2	12.6	10.9	9.3	8.4	8.4
52.5°	872.5	549.9	33.7	21.1	16.8	13.5	10.9	9.3	8.4	7.6	7.6
55°	903.6	561.7	32.8	20.2	15.2	12.6	10.1	8.4	7.6	6.7	6.7
57.5°	952.5	576.9	32.0	19.4	14.3	10.9	9.3	7.6	6.7	5.9	5.9
60°	1031.6	626.6	31.2	18.5	13.5	10.9	8.4	6.7	5.1	4.2	4.2
62.5°	1097.3	667.8	27.8	16.0	11.8	9.3	6.7	5.1	3.4	2.5	2.5
65°	1172.3	687.2	24.4	14.3	10.1	7.6	5.1	3.4	2.5	0.8	0.8
67.5°	1254.0	716.7	20.2	12.6	9.3	5.9	4.2	2.5	0.8	0.0	0.0
70°	1211.0	679.6	16.8	10.9	8.4	5.1	3.4	1.7	0.0	0.0	0.0
72.5°	949.1	486.8	13.5	10.1	7.6	5.1	3.4	0.8	0.0	0.0	0.0
75°	634.1	275.4	11.8	8.4	5.9	4.2	2.5	0.8	0.0	0.0	0.0
77.5°	344.4	123.8	10.1	7.6	5.1	3.4	2.5	0.8	0.0	0.0	0.0
80°	112.0	48.8	8.4	6.7	5.1	3.4	2.5	0.8	0.0	0.0	0.0
82.5°	30.3	15.2	8.4	6.7	5.1	3.4	2.5	0.8	0.0	0.0	0.0
85°	12.6	10.1	8.4	6.7	5.1	3.4	2.5	0.8	0.0	0.0	0.0
87.5°	5.1	3.4	3.4	4.2	3.4	2.5	1.7	0.8	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: P676241
 CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9
2.5°	235.0	236.6	237.5	237.5	241.7	245.9	251.0	255.2	255.2	257.7	260.2
5°	206.3	208.0	210.5	218.1	226.5	235.8	245.1	251.8	261.1	265.3	267.8
7.5°	182.7	184.4	191.2	198.8	210.5	226.5	242.5	257.7	267.0	271.2	274.5
10°	158.3	160.9	168.4	181.9	197.1	216.4	235.0	261.1	276.2	284.7	288.0
12.5°	123.0	129.7	139.8	154.1	173.5	203.0	237.5	264.4	290.5	300.7	307.4
15°	77.5	83.4	99.4	122.1	148.2	182.7	230.8	269.5	305.7	315.8	326.8
17.5°	49.7	50.5	55.6	80.0	113.7	157.5	220.6	277.1	322.5	336.9	353.7
20°	42.1	43.8	44.6	48.0	75.8	129.7	199.6	286.3	342.8	362.1	378.1
22.5°	35.4	36.2	37.9	40.4	45.5	94.3	171.0	286.3	360.4	389.1	407.6
25°	28.6	30.3	32.0	34.5	39.6	59.0	141.5	281.3	381.5	416.9	440.5
27.5°	25.3	25.3	26.9	29.5	33.7	41.3	112.0	266.1	397.5	433.7	464.9
30°	21.9	22.7	23.6	26.1	30.3	36.2	77.5	241.7	414.3	466.6	501.9
32.5°	19.4	19.4	21.1	22.7	26.9	32.8	49.7	204.6	436.2	491.8	541.5
35°	17.7	17.7	18.5	20.2	24.4	29.5	38.7	173.5	462.3	539.8	594.6
37.5°	16.0	16.0	16.8	18.5	21.9	26.1	35.4	149.1	489.3	587.8	667.8
40°	14.3	14.3	15.2	16.8	19.4	23.6	32.0	120.4	523.0	658.6	747.8
42.5°	12.6	12.6	13.5	15.2	17.7	21.1	27.8	90.1	567.6	735.2	851.4
45°	10.9	10.9	11.8	13.5	15.2	19.4	25.3	69.1	616.5	820.3	942.4
47.5°	9.3	10.1	10.9	12.6	14.3	17.7	22.7	60.6	664.5	910.4	1043.4
50°	8.4	8.4	9.3	10.9	13.5	16.0	21.1	59.8	713.3	979.4	1147.0
52.5°	7.6	7.6	8.4	10.1	12.6	15.2	20.2	61.5	753.7	1043.4	1219.5
55°	6.7	6.7	7.6	8.4	10.9	14.3	18.5	63.2	782.4	1108.3	1277.6
57.5°	5.9	5.9	6.7	8.4	10.1	12.6	16.8	64.8	828.7	1172.3	1361.8
60°	4.2	4.2	5.9	7.6	9.3	10.9	16.0	66.5	902.8	1260.7	1433.4
62.5°	2.5	2.5	3.4	5.9	7.6	10.1	14.3	63.2	971.9	1374.4	1542.8
65°	0.8	1.7	2.5	3.4	5.9	8.4	11.8	57.3	1030.0	1488.1	1643.9
67.5°	0.0	0.0	0.8	2.5	5.1	6.7	10.1	42.1	1039.2	1539.5	1747.5
70°	0.0	0.0	0.8	2.5	4.2	6.7	9.3	23.6	885.1	1375.3	1601.8
72.5°	0.0	0.0	0.0	1.7	4.2	5.9	8.4	17.7	652.7	1036.7	1265.8
75°	0.0	0.0	0.0	0.8	3.4	5.1	7.6	13.5	396.7	691.4	826.2
77.5°	0.0	0.0	0.0	0.8	2.5	5.1	7.6	11.8	139.8	329.3	388.2
80°	0.0	0.0	0.0	1.7	3.4	5.1	6.7	10.1	33.7	82.5	111.2
82.5°	0.0	0.0	0.0	0.8	2.5	4.2	5.9	8.4	13.5	24.4	38.7
85°	0.0	0.0	0.0	0.8	1.7	4.2	5.9	7.6	9.3	11.8	16.8
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	2.5	3.4	3.4	3.4	5.9
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: P676241
 CATALOG NUMBER: CCW-SA-1A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9	256.9
2.5°	259.4	262.8	264.4	267.8	269.5	268.6	267.8	270.3	268.6	266.1
5°	268.6	268.6	271.2	272.0	272.0	269.5	271.2	270.3	268.6	268.6
7.5°	278.8	283.0	283.0	277.9	277.1	275.4	275.4	268.6	266.1	268.6
10°	288.9	292.2	293.1	287.2	279.6	276.2	272.0	263.6	259.4	261.1
12.5°	309.9	309.9	300.7	293.9	283.8	272.0	261.9	250.1	244.2	245.9
15°	325.1	328.4	315.8	300.7	283.0	261.1	250.1	240.9	237.5	235.0
17.5°	354.6	347.8	327.6	305.7	280.4	257.7	250.1	241.7	239.2	239.2
20°	379.8	376.4	346.1	306.5	279.6	264.4	259.4	255.2	254.3	251.8
22.5°	414.3	399.2	360.4	315.8	288.9	275.4	273.7	277.9	275.4	273.7
25°	440.5	427.8	371.4	329.3	303.2	299.0	301.5	305.7	299.0	296.4
27.5°	475.8	452.2	392.4	347.0	322.5	326.8	335.2	336.0	331.8	334.3
30°	508.7	483.4	408.4	367.2	355.4	359.6	372.2	381.5	375.6	372.2
32.5°	555.8	517.1	440.5	400.9	396.7	407.6	421.9	427.8	420.2	418.6
35°	605.5	555.8	473.3	438.8	446.3	461.5	474.1	484.2	472.5	477.5
37.5°	683.0	618.1	528.9	498.6	501.9	507.8	531.4	559.2	565.1	555.0
40°	763.8	685.5	580.3	556.7	564.2	580.3	608.0	634.1	647.6	634.1
42.5°	857.3	750.4	659.4	631.6	639.2	661.9	699.0	720.0	718.4	698.2
45°	972.7	840.5	733.5	699.0	726.8	747.0	784.1	786.6	770.6	765.5
47.5°	1061.1	916.3	813.5	791.6	829.5	830.4	838.8	839.6	822.0	816.1
50°	1158.8	1003.9	902.8	870.8	934.8	905.3	882.6	867.4	840.5	827.8
52.5°	1254.8	1066.2	985.3	952.5	1019.0	940.7	899.4	853.1	813.5	800.1
55°	1306.2	1168.9	1105.8	1029.1	1037.5	950.8	847.2	789.1	721.7	718.4
57.5°	1366.8	1238.0	1207.7	1081.3	1006.4	880.1	738.6	661.9	589.5	581.1
60°	1438.4	1347.5	1315.5	1072.9	896.1	739.4	585.3	486.8	418.6	412.7
62.5°	1518.4	1477.2	1382.0	990.4	711.6	520.5	386.6	304.0	240.9	237.5
65°	1644.7	1585.8	1417.4	833.7	470.8	333.5	256.9	197.1	159.2	157.5
67.5°	1723.9	1627.1	1338.2	594.6	261.1	220.6	180.2	143.2	110.3	103.6
70°	1611.9	1493.2	1058.6	340.2	151.6	167.6	139.0	96.0	75.8	74.1
72.5°	1287.7	1108.3	712.5	160.0	94.3	131.4	101.1	64.8	45.5	43.8
75°	878.4	697.3	447.2	74.1	66.5	96.0	74.1	37.9	32.0	32.0
77.5°	392.4	355.4	229.1	45.5	49.7	73.3	43.0	26.1	23.6	22.7
80°	119.6	125.5	93.5	31.2	37.1	55.6	26.1	17.7	14.3	13.5
82.5°	40.4	47.2	42.1	18.5	25.3	39.6	17.7	11.8	10.1	10.1
85°	19.4	23.6	21.1	11.8	13.5	19.4	14.3	9.3	5.9	5.9
87.5°	7.6	10.9	7.6	5.1	7.6	10.1	5.9	4.2	1.7	1.7
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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