

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: P676307

Luminaire Tested: **CCW-SA-1A-827-U-T2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676307
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-827-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

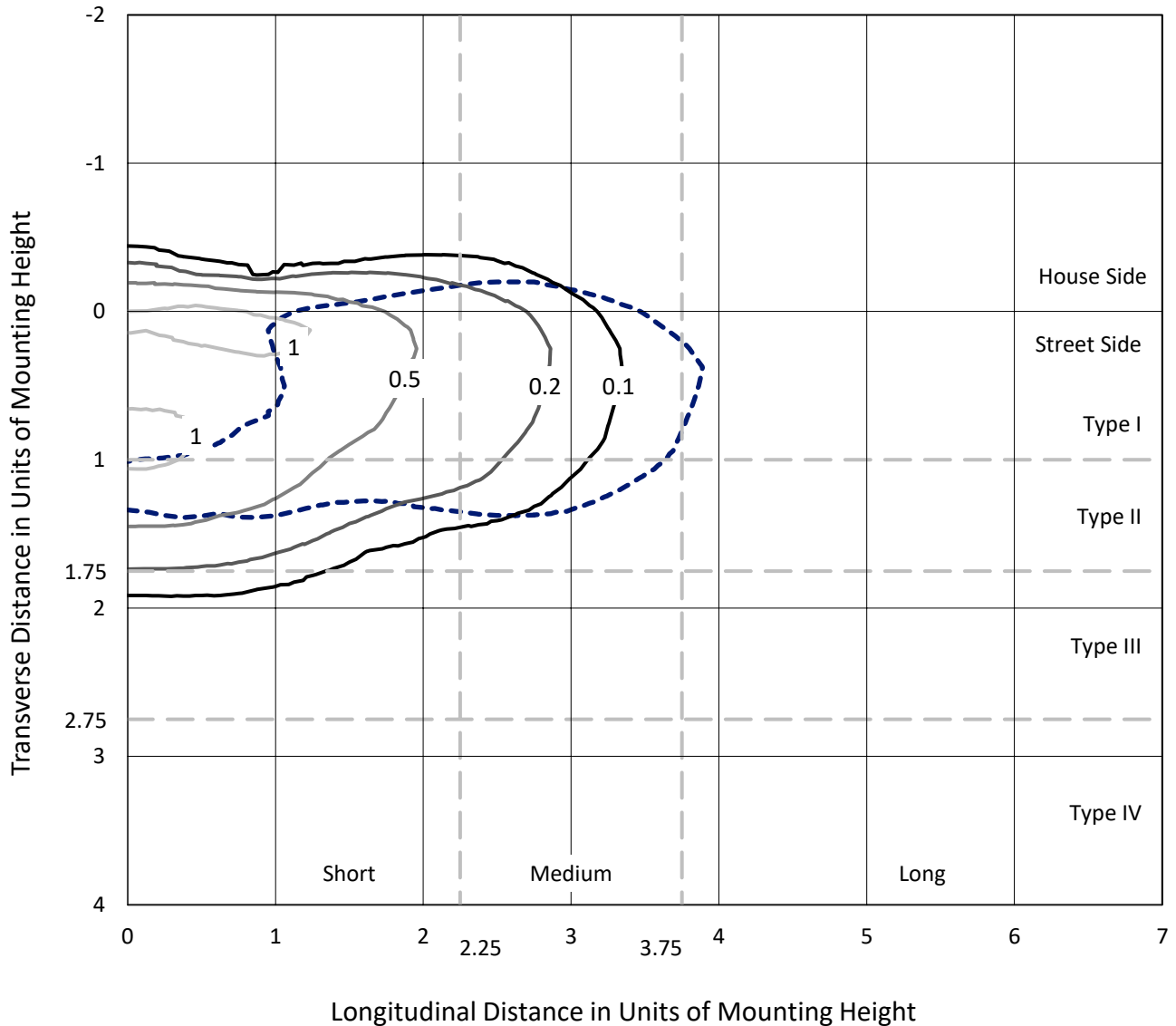
Lumens per Lamp: N/A
Luminaire Lumens: 1552.6 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 18
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: P676307
 CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

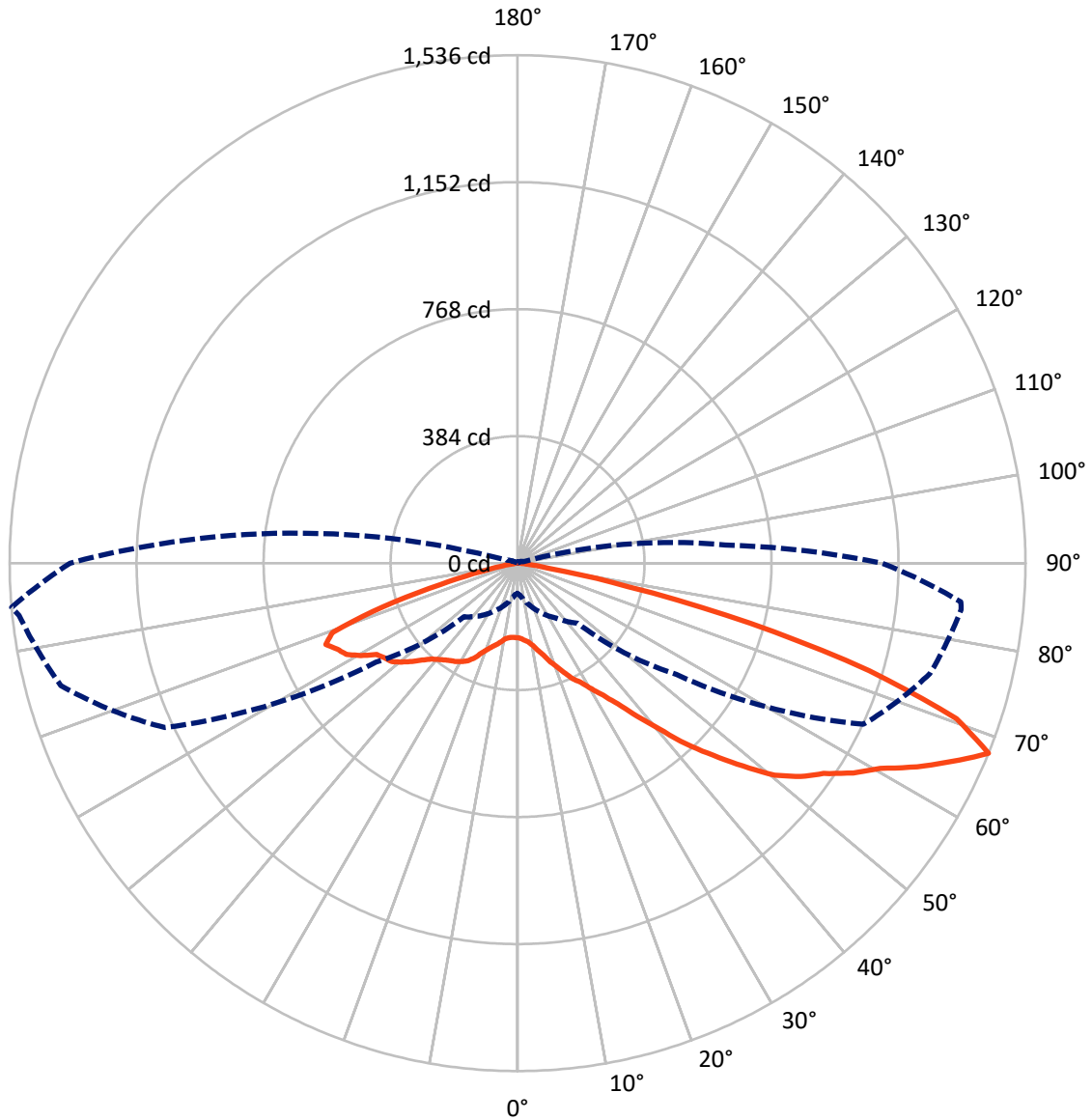
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

REPORT NUMBER: P676307
CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676307
 CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

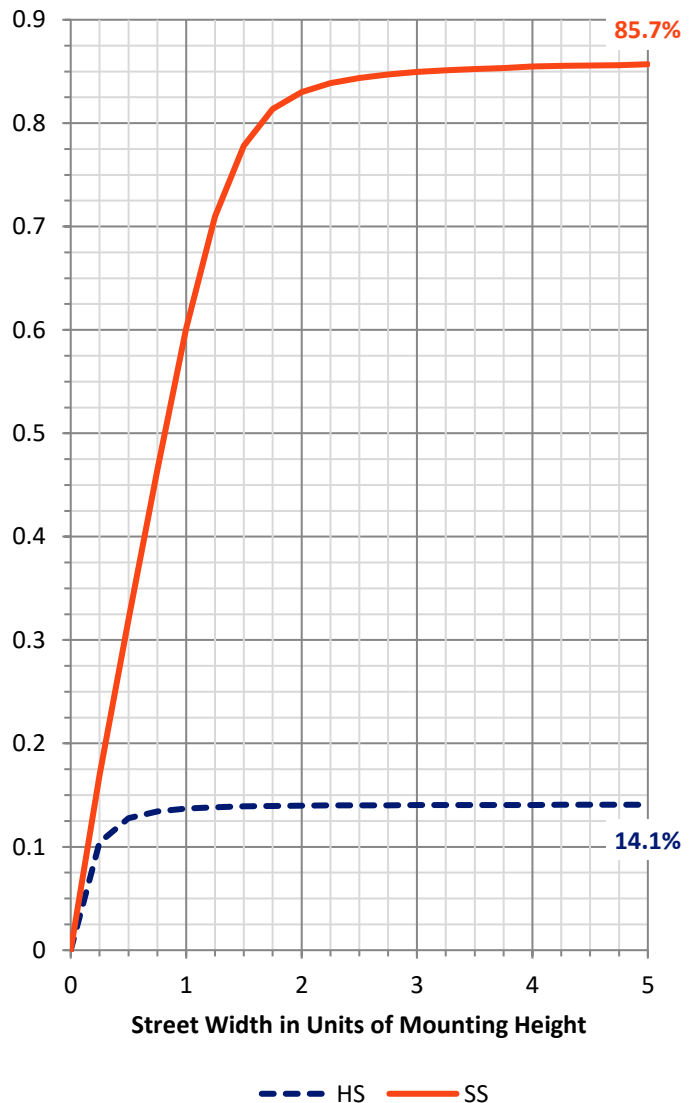
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	220.6	0.0	220.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	1332.1	0.0	1332.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	1552.6	0.0	1552.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	1.3
10°-20°	55.4	3.6
20°-30°	91.9	5.9
30°-40°	158.2	10.2
40°-50°	284.2	18.3
50°-60°	404.7	26.1
60°-70°	368.9	23.8
70°-80°	157.1	10.1
80°-90°	11.7	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°	1552.6	100.0
0°-180°	1552.6	100.0



REPORT NUMBER: P676307

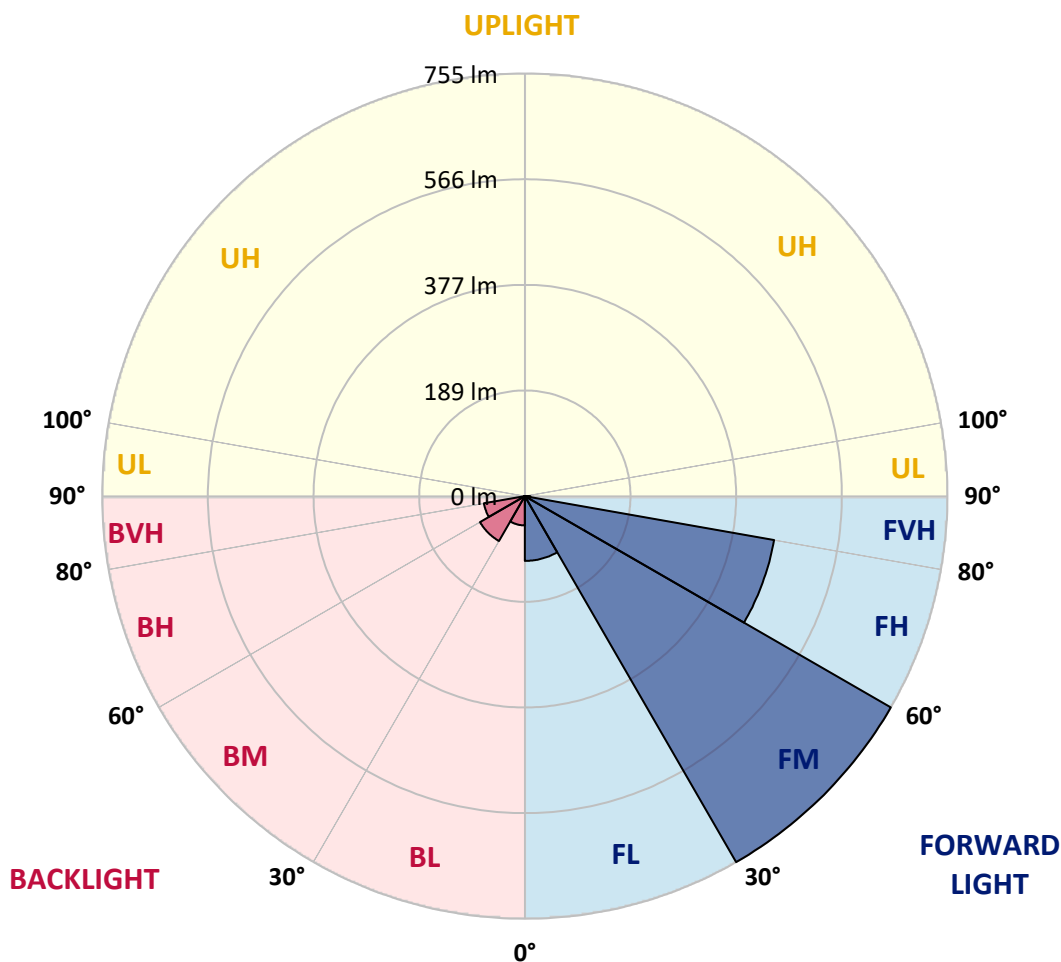
CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.7	7.4			
FM (30°-60°)	754.6	48.6			
FH (60°-80°)	451.9	29.1			G0/660
FVH (80°-90°)	9.9	0.6			G0/10
BL (0°-30°)	52.2	3.4	B0/110		
BM (30°-60°)	92.5	6.0	B0/220		
BH (60°-80°)	74.1	4.8	B0/110		G0/110
BVH (80°-90°)	1.8	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-G0

Type II Short





REPORT NUMBER: P676307
 CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8
2.5°	233.9	236.1	236.1	235.4	233.2	231.7	231.0	229.5	228.0	228.0	228.7
5°	236.1	233.9	236.9	233.2	233.2	233.2	236.1	234.7	233.9	230.2	230.2
7.5°	236.1	233.9	233.9	236.1	233.9	235.4	239.1	237.6	240.6	233.9	235.4
10°	229.5	228.7	230.2	233.2	233.9	236.9	240.6	248.0	248.7	244.3	243.5
12.5°	216.2	215.4	220.6	222.1	231.0	238.4	249.5	255.4	262.0	259.8	255.4
15°	206.5	208.0	211.7	217.6	225.8	239.1	251.7	265.0	276.9	273.9	272.4
17.5°	210.2	209.5	210.2	213.9	224.3	237.6	259.1	274.6	291.7	291.7	293.1
20°	221.3	223.6	222.8	220.6	225.8	236.9	259.1	286.5	314.6	312.4	312.4
22.5°	240.6	241.3	236.9	235.4	234.7	241.3	263.5	301.3	333.9	338.3	336.8
25°	260.6	261.3	259.8	255.4	249.5	250.9	271.7	313.1	360.5	367.9	366.4
27.5°	293.9	293.1	289.4	284.3	275.4	268.7	284.3	322.0	381.2	393.8	390.1
30°	327.2	325.0	319.8	313.1	305.0	292.4	299.8	339.0	407.1	419.0	410.8
32.5°	367.9	363.5	364.9	354.6	337.6	317.6	316.1	354.6	427.9	444.9	438.2
35°	419.7	414.5	407.1	397.5	381.2	354.6	346.4	379.7	462.7	475.2	475.2
37.5°	487.8	493.0	484.1	444.2	426.4	401.2	384.2	405.7	493.0	523.4	516.0
40°	557.4	561.9	545.6	516.0	477.5	446.4	436.0	447.9	538.9	575.2	561.1
42.5°	613.7	619.6	613.7	575.2	544.8	504.9	486.3	497.5	598.1	641.8	623.3
45°	672.9	678.8	672.1	647.0	617.4	594.4	547.8	561.9	660.3	725.4	704.7
47.5°	717.3	724.7	712.9	707.7	684.0	680.3	601.1	616.6	725.4	809.8	783.9
50°	727.7	735.8	746.2	752.1	744.0	752.8	672.9	686.2	793.6	887.6	862.4
52.5°	703.2	711.4	734.3	761.7	799.5	826.1	745.4	756.5	864.6	952.0	938.6
55°	631.4	638.8	685.5	722.5	812.8	856.5	815.0	861.7	915.7	1019.3	986.8
57.5°	510.8	519.7	581.1	638.1	768.4	839.4	856.5	949.0	1000.1	1068.9	1031.2
60°	362.7	367.9	421.2	521.9	645.5	754.3	848.3	1014.1	1066.7	1135.5	1115.6
62.5°	208.8	213.2	268.7	363.5	487.1	630.0	812.1	1075.6	1138.5	1208.8	1197.7
65°	138.4	139.9	177.7	229.5	316.8	464.1	720.3	1130.4	1209.6	1267.3	1254.7
67.5°	91.1	99.2	128.8	164.3	202.8	256.9	587.0	1153.3	1291.0	1348.7	1345.8
70°	65.1	68.1	92.5	126.6	152.5	144.3	343.5	991.2	1287.3	1370.9	1346.5
72.5°	38.5	41.5	61.4	94.8	119.9	91.8	160.6	701.0	1066.7	1094.1	1087.4
75°	28.1	28.1	37.8	68.1	87.3	65.9	75.5	443.4	708.4	769.1	768.4
77.5°	20.0	20.7	25.9	40.7	67.4	48.1	41.5	246.5	387.2	423.4	403.4
80°	11.8	12.6	17.8	24.4	48.9	34.8	27.4	112.5	148.8	150.3	142.9
82.5°	8.9	8.9	11.8	17.0	34.1	23.7	17.0	42.9	48.1	43.7	37.0
85°	5.2	4.4	8.9	12.6	20.0	13.3	11.8	20.0	22.2	16.3	14.8
87.5°	1.5	1.5	3.7	4.4	8.9	7.4	5.2	7.4	10.4	5.9	4.4
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: P676307
 CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8
2.5°	227.3	225.0	221.3	219.9	214.7	212.5	211.0	207.3	208.0	205.8	205.8
5°	225.0	225.0	217.6	209.5	201.3	196.2	190.2	182.8	182.8	179.9	180.6
7.5°	233.2	227.3	217.6	202.8	189.5	177.7	172.5	165.1	160.6	158.4	158.4
10°	238.4	232.4	216.2	198.4	181.4	166.6	155.5	145.1	139.2	139.2	138.4
12.5°	252.4	243.5	222.1	197.6	172.5	150.3	133.2	121.4	113.3	107.3	108.8
15°	264.3	254.6	225.0	191.7	156.9	125.8	105.1	82.9	71.8	65.9	63.7
17.5°	282.8	265.0	231.7	181.4	133.2	98.5	68.1	49.6	45.2	44.4	44.4
20°	298.3	277.6	232.4	161.4	109.6	62.9	43.7	40.7	38.5	37.8	37.0
22.5°	319.8	293.9	229.5	138.4	78.5	42.2	37.0	34.1	32.6	30.4	30.4
25°	342.0	315.3	223.6	117.0	48.1	36.3	32.6	29.6	26.6	25.2	25.9
27.5°	365.7	331.6	206.5	91.1	37.0	31.8	26.6	24.4	22.9	22.2	22.2
30°	384.9	342.0	181.4	60.7	33.3	28.1	23.7	21.5	20.0	19.2	19.2
32.5°	399.0	350.9	153.2	40.7	30.4	25.2	21.5	19.2	17.8	17.0	17.0
35°	422.7	357.5	127.3	34.8	27.4	22.2	18.5	17.0	15.5	15.5	15.5
37.5°	459.0	366.4	101.4	31.8	25.2	20.0	17.8	15.5	14.8	14.1	14.1
40°	490.8	377.5	72.5	28.9	22.9	18.5	15.5	14.1	13.3	12.6	12.6
42.5°	536.7	390.1	47.4	25.9	20.7	17.0	14.1	12.6	11.8	11.1	11.1
45°	595.2	410.8	37.0	22.9	18.5	15.5	13.3	11.8	10.4	10.4	9.6
47.5°	657.3	436.0	33.3	21.5	17.0	14.1	11.8	10.4	9.6	8.9	8.9
50°	715.1	460.4	31.1	20.0	15.5	13.3	11.1	9.6	8.1	7.4	7.4
52.5°	766.9	483.4	29.6	18.5	14.8	11.8	9.6	8.1	7.4	6.7	6.7
55°	794.3	493.7	28.9	17.8	13.3	11.1	8.9	7.4	6.7	5.9	5.9
57.5°	837.2	507.1	28.1	17.0	12.6	9.6	8.1	6.7	5.9	5.2	5.2
60°	906.8	550.7	27.4	16.3	11.8	9.6	7.4	5.9	4.4	3.7	3.7
62.5°	964.5	587.0	24.4	14.1	10.4	8.1	5.9	4.4	3.0	2.2	2.2
65°	1030.4	604.0	21.5	12.6	8.9	6.7	4.4	3.0	2.2	0.7	0.7
67.5°	1102.2	630.0	17.8	11.1	8.1	5.2	3.7	2.2	0.7	0.0	0.0
70°	1064.5	597.4	14.8	9.6	7.4	4.4	3.0	1.5	0.0	0.0	0.0
72.5°	834.3	427.9	11.8	8.9	6.7	4.4	3.0	0.7	0.0	0.0	0.0
75°	557.4	242.1	10.4	7.4	5.2	3.7	2.2	0.7	0.0	0.0	0.0
77.5°	302.8	108.8	8.9	6.7	4.4	3.0	2.2	0.7	0.0	0.0	0.0
80°	98.5	42.9	7.4	5.9	4.4	3.0	2.2	0.7	0.0	0.0	0.0
82.5°	26.6	13.3	7.4	5.9	4.4	3.0	2.2	0.7	0.0	0.0	0.0
85°	11.1	8.9	7.4	5.9	4.4	3.0	2.2	0.7	0.0	0.0	0.0
87.5°	4.4	3.0	3.0	3.7	3.0	2.2	1.5	0.7	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: P676307
 CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8
2.5°	206.5	208.0	208.8	208.8	212.5	216.2	220.6	224.3	224.3	226.5	228.7
5°	181.4	182.8	185.1	191.7	199.1	207.3	215.4	221.3	229.5	233.2	235.4
7.5°	160.6	162.1	168.0	174.7	185.1	199.1	213.2	226.5	234.7	238.4	241.3
10°	139.2	141.4	148.1	159.9	173.2	190.2	206.5	229.5	242.8	250.2	253.2
12.5°	108.1	114.0	122.9	135.5	152.5	178.4	208.8	232.4	255.4	264.3	270.2
15°	68.1	73.3	87.3	107.3	130.3	160.6	202.8	236.9	268.7	277.6	287.2
17.5°	43.7	44.4	48.9	70.3	99.9	138.4	193.9	243.5	283.5	296.1	310.9
20°	37.0	38.5	39.2	42.2	66.6	114.0	175.4	251.7	301.3	318.3	332.4
22.5°	31.1	31.8	33.3	35.5	40.0	82.9	150.3	251.7	316.8	342.0	358.3
25°	25.2	26.6	28.1	30.4	34.8	51.8	124.4	247.2	335.3	366.4	387.2
27.5°	22.2	22.2	23.7	25.9	29.6	36.3	98.5	233.9	349.4	381.2	408.6
30°	19.2	20.0	20.7	22.9	26.6	31.8	68.1	212.5	364.2	410.1	441.2
32.5°	17.0	17.0	18.5	20.0	23.7	28.9	43.7	179.9	383.5	432.3	476.0
35°	15.5	15.5	16.3	17.8	21.5	25.9	34.1	152.5	406.4	474.5	522.6
37.5°	14.1	14.1	14.8	16.3	19.2	22.9	31.1	131.0	430.1	516.7	587.0
40°	12.6	12.6	13.3	14.8	17.0	20.7	28.1	105.9	459.7	578.9	657.3
42.5°	11.1	11.1	11.8	13.3	15.5	18.5	24.4	79.2	498.9	646.2	748.4
45°	9.6	9.6	10.4	11.8	13.3	17.0	22.2	60.7	541.9	721.0	828.3
47.5°	8.1	8.9	9.6	11.1	12.6	15.5	20.0	53.3	584.1	800.2	917.2
50°	7.4	7.4	8.1	9.6	11.8	14.1	18.5	52.6	627.0	860.9	1008.2
52.5°	6.7	6.7	7.4	8.9	11.1	13.3	17.8	54.0	662.5	917.2	1071.9
55°	5.9	5.9	6.7	7.4	9.6	12.6	16.3	55.5	687.7	974.2	1123.0
57.5°	5.2	5.2	5.9	7.4	8.9	11.1	14.8	57.0	728.4	1030.4	1197.0
60°	3.7	3.7	5.2	6.7	8.1	9.6	14.1	58.5	793.6	1108.2	1259.9
62.5°	2.2	2.2	3.0	5.2	6.7	8.9	12.6	55.5	854.3	1208.1	1356.1
65°	0.7	1.5	2.2	3.0	5.2	7.4	10.4	50.3	905.3	1308.0	1445.0
67.5°	0.0	0.0	0.7	2.2	4.4	5.9	8.9	37.0	913.5	1353.2	1536.0
70°	0.0	0.0	0.7	2.2	3.7	5.9	8.1	20.7	778.0	1208.8	1408.0
72.5°	0.0	0.0	0.0	1.5	3.7	5.2	7.4	15.5	573.7	911.3	1112.6
75°	0.0	0.0	0.0	0.7	3.0	4.4	6.7	11.8	348.7	607.7	726.2
77.5°	0.0	0.0	0.0	0.7	2.2	4.4	6.7	10.4	122.9	289.4	341.3
80°	0.0	0.0	0.0	1.5	3.0	4.4	5.9	8.9	29.6	72.5	97.7
82.5°	0.0	0.0	0.0	0.7	2.2	3.7	5.2	7.4	11.8	21.5	34.1
85°	0.0	0.0	0.0	0.7	1.5	3.7	5.2	6.7	8.1	10.4	14.8
87.5°	0.0	0.0	0.0	0.0	0.7	1.5	2.2	3.0	3.0	3.0	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: P676307
 CATALOG NUMBER: CCW-SA-1A-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8	225.8
2.5°	228.0	231.0	232.4	235.4	236.9	236.1	235.4	237.6	236.1	233.9
5°	236.1	236.1	238.4	239.1	239.1	236.9	238.4	237.6	236.1	236.1
7.5°	245.0	248.7	248.7	244.3	243.5	242.1	242.1	236.1	233.9	236.1
10°	253.9	256.9	257.6	252.4	245.8	242.8	239.1	231.7	228.0	229.5
12.5°	272.4	272.4	264.3	258.3	249.5	239.1	230.2	219.9	214.7	216.2
15°	285.7	288.7	277.6	264.3	248.7	229.5	219.9	211.7	208.8	206.5
17.5°	311.6	305.7	288.0	268.7	246.5	226.5	219.9	212.5	210.2	210.2
20°	333.9	330.9	304.2	269.5	245.8	232.4	228.0	224.3	223.6	221.3
22.5°	364.2	350.9	316.8	277.6	253.9	242.1	240.6	244.3	242.1	240.6
25°	387.2	376.0	326.5	289.4	266.5	262.8	265.0	268.7	262.8	260.6
27.5°	418.2	397.5	345.0	305.0	283.5	287.2	294.6	295.4	291.7	293.9
30°	447.1	424.9	359.0	322.8	312.4	316.1	327.2	335.3	330.2	327.2
32.5°	488.6	454.5	387.2	352.4	348.7	358.3	370.9	376.0	369.4	367.9
35°	532.2	488.6	416.0	385.7	392.3	405.7	416.8	425.6	415.3	419.7
37.5°	600.3	543.3	464.9	438.2	441.2	446.4	467.1	491.5	496.7	487.8
40°	671.4	602.6	510.0	489.3	496.0	510.0	534.5	557.4	569.3	557.4
42.5°	753.6	659.6	579.6	555.2	561.9	581.8	614.4	632.9	631.4	613.7
45°	855.0	738.8	644.8	614.4	638.8	656.6	689.2	691.4	677.3	672.9
47.5°	932.7	805.4	715.1	695.8	729.1	729.9	737.3	738.0	722.5	717.3
50°	1018.6	882.4	793.6	765.4	821.7	795.8	775.8	762.5	738.8	727.7
52.5°	1103.0	937.2	866.1	837.2	895.7	826.9	790.6	749.9	715.1	703.2
55°	1148.1	1027.5	972.0	904.6	912.0	835.7	744.7	693.6	634.4	631.4
57.5°	1201.4	1088.2	1061.5	950.5	884.6	773.6	649.2	581.8	518.2	510.8
60°	1264.4	1184.4	1156.3	943.1	787.6	649.9	514.5	427.9	367.9	362.7
62.5°	1334.7	1298.4	1214.8	870.5	625.5	457.5	339.8	267.2	211.7	208.8
65°	1445.7	1393.9	1245.8	732.9	413.8	293.1	225.8	173.2	139.9	138.4
67.5°	1515.3	1430.2	1176.3	522.6	229.5	193.9	158.4	125.8	97.0	91.1
70°	1416.8	1312.5	930.5	299.1	133.2	147.3	122.1	84.4	66.6	65.1
72.5°	1131.8	974.2	626.3	140.6	82.9	115.5	88.8	57.0	40.0	38.5
75°	772.1	612.9	393.1	65.1	58.5	84.4	65.1	33.3	28.1	28.1
77.5°	345.0	312.4	201.3	40.0	43.7	64.4	37.8	22.9	20.7	20.0
80°	105.1	110.3	82.2	27.4	32.6	48.9	22.9	15.5	12.6	11.8
82.5°	35.5	41.5	37.0	16.3	22.2	34.8	15.5	10.4	8.9	8.9
85°	17.0	20.7	18.5	10.4	11.8	17.0	12.6	8.1	5.2	5.2
87.5°	6.7	9.6	6.7	4.4	6.7	8.9	5.2	3.7	1.5	1.5
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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