

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: P676310

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676310
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-827-U-T2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

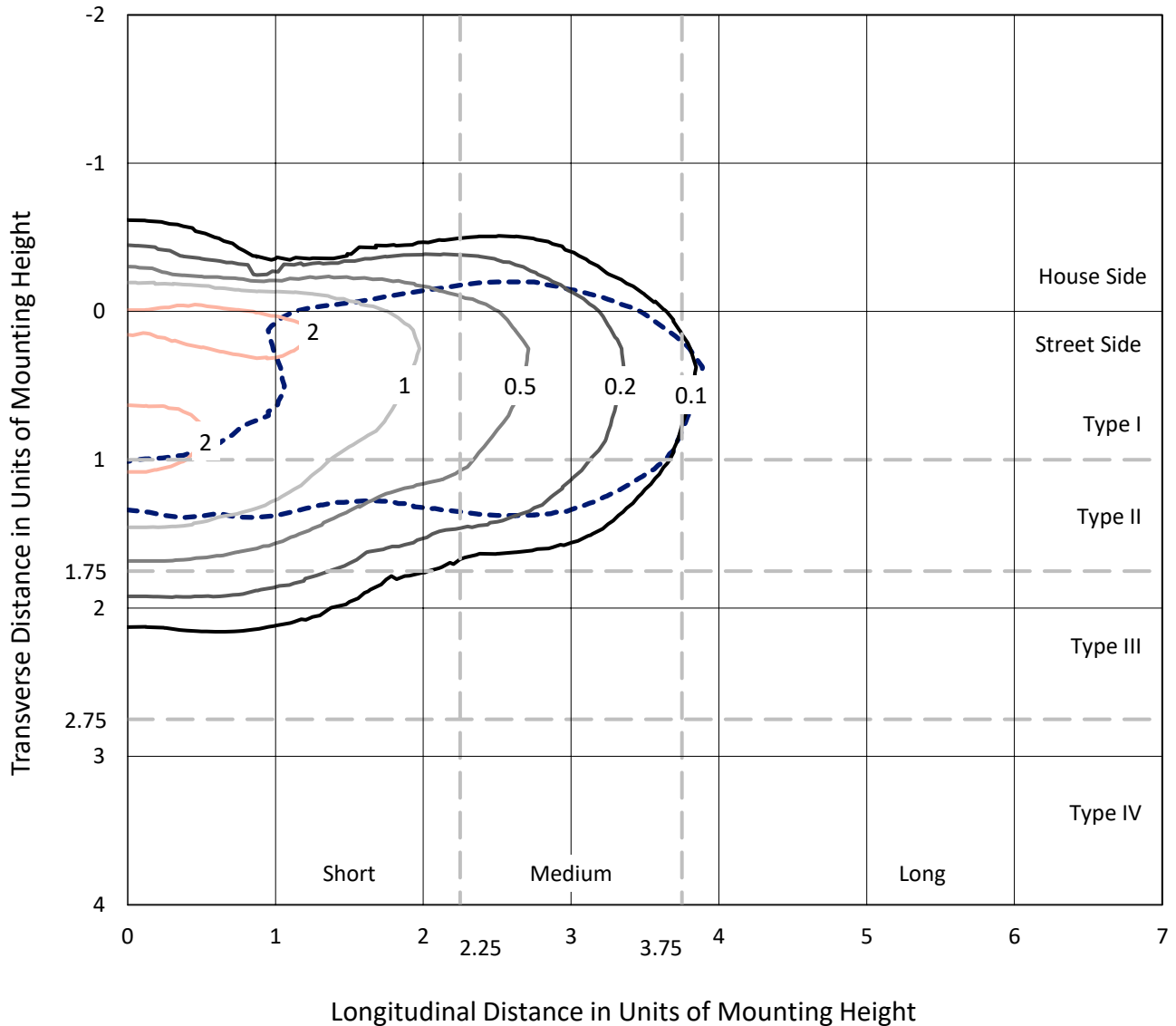
Lumens per Lamp: N/A
Luminaire Lumens: 3165 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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: P676310
 CATALOG NUMBER: CCW-SA-1D-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

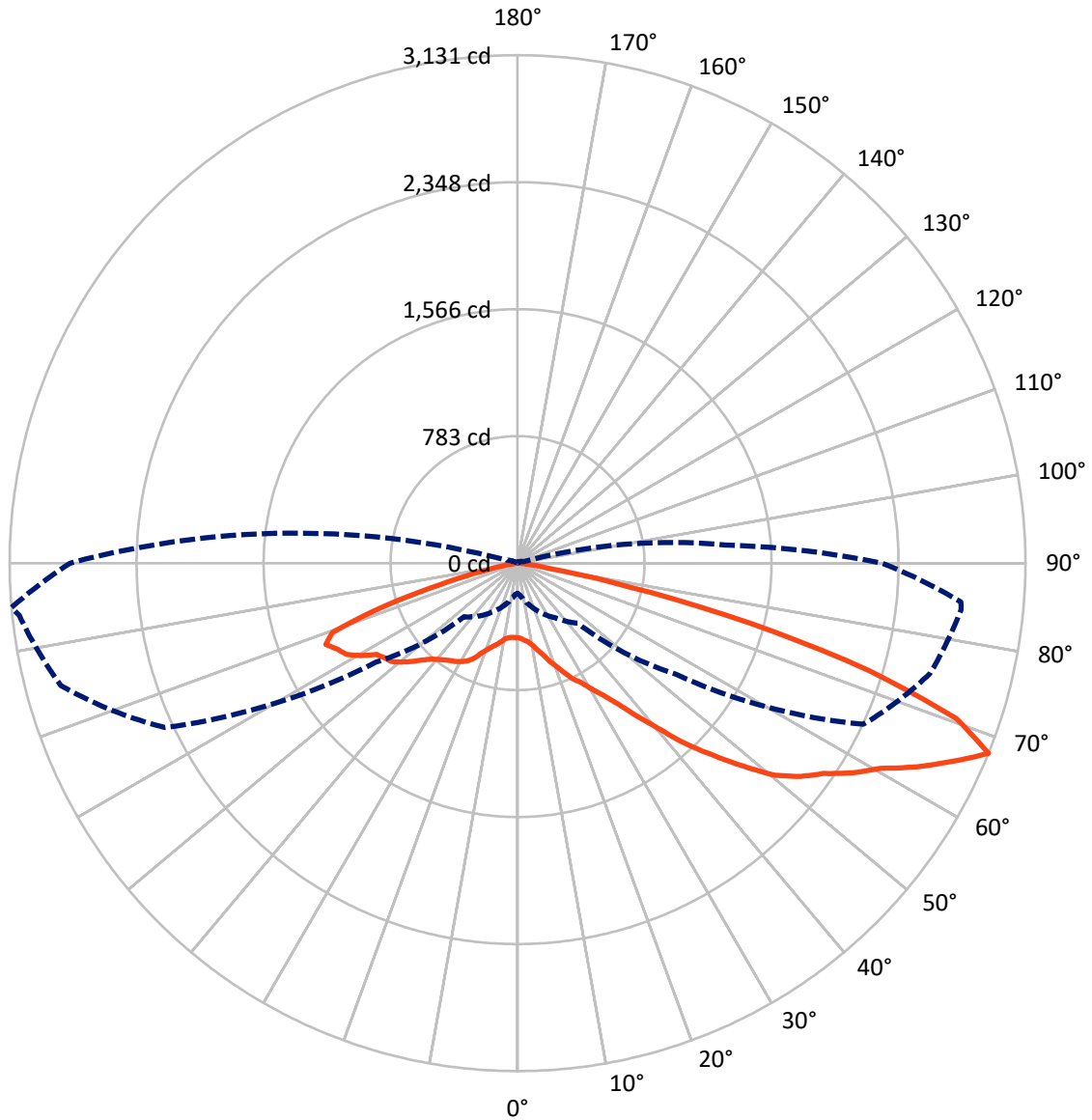
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P676310
CATALOG NUMBER: CCW-SA-1D-827-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676310
 CATALOG NUMBER: CCW-SA-1D-827-U-T2-HSS

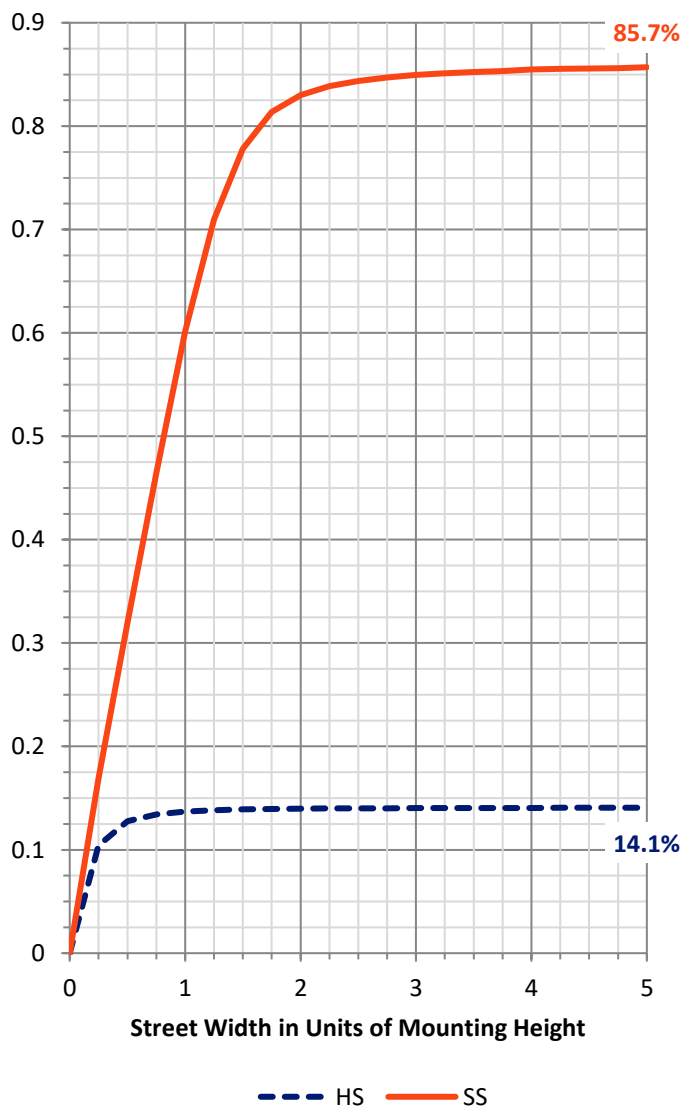
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	449.6	0.0	449.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2715.4	0.0	2715.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	3165.0	0.0	3165.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.3
10°-20°	112.9	3.6
20°-30°	187.4	5.9
30°-40°	322.4	10.2
40°-50°	579.4	18.3
50°-60°	824.9	26.1
60°-70°	752.0	23.8
70°-80°	320.2	10.1
80°-90°	23.8	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°	3165.0	100.0
0°-180°	3165.0	100.0

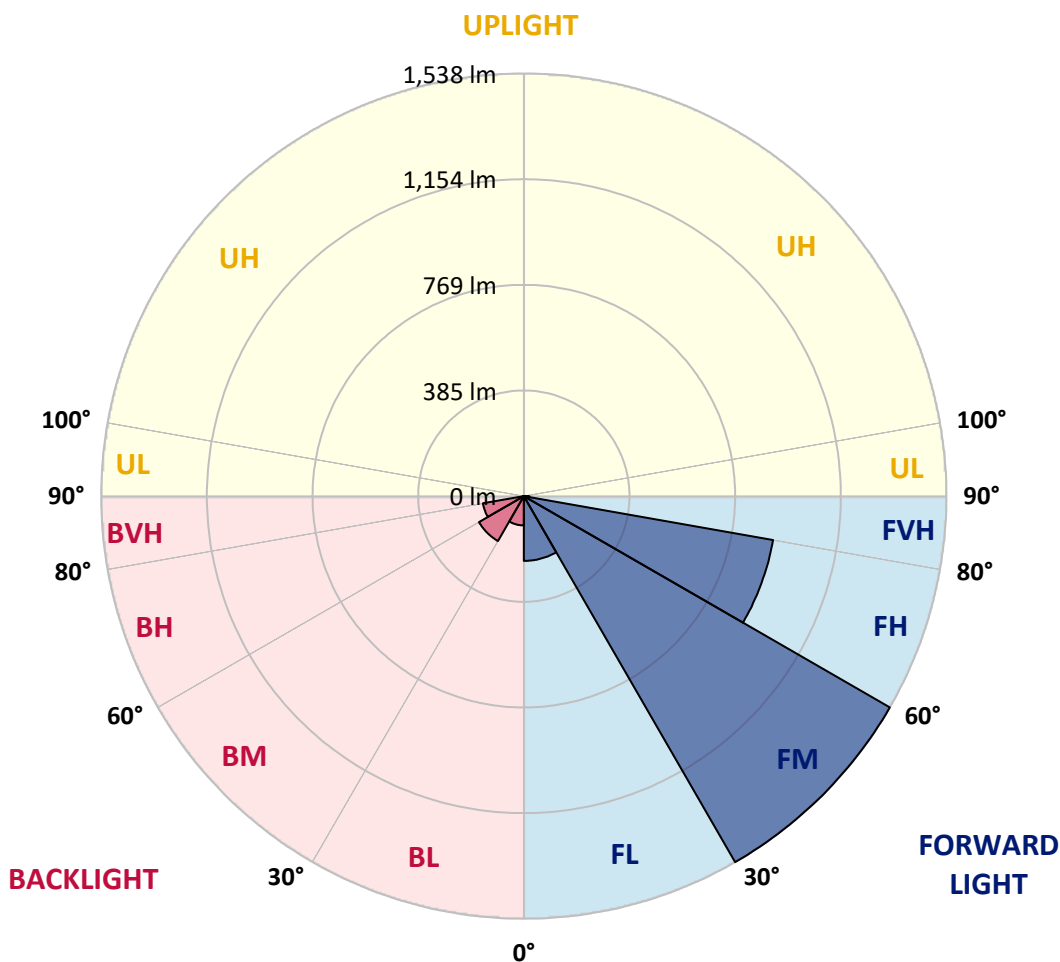


REPORT NUMBER: P676310
 CATALOG NUMBER: CCW-SA-1D-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.8	7.4			
FM (30°-60°)	1538.2	48.6			
FH (60°-80°)	921.2	29.1			G1/1800
FVH (80°-90°)	20.2	0.6			G1/100
BL (0°-30°)	106.4	3.4	B0/110		
BM (30°-60°)	188.5	6.0	B0/220		
BH (60°-80°)	151.1	4.8	B1/500		G1/500
BVH (80°-90°)	3.6	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: P676310

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2
2.5°	476.8	481.4	481.4	479.9	475.3	472.3	470.8	467.8	464.8	464.8	466.3
5°	481.4	476.8	482.9	475.3	475.3	475.3	481.4	478.3	476.8	469.3	469.3
7.5°	481.4	476.8	476.8	481.4	476.8	479.9	487.4	484.4	490.4	476.8	479.9
10°	467.8	466.3	469.3	475.3	476.8	482.9	490.4	505.5	507.0	498.0	496.5
12.5°	440.6	439.1	449.7	452.7	470.8	485.9	508.5	520.6	534.2	529.7	520.6
15°	421.0	424.0	431.6	443.6	460.2	487.4	513.1	540.2	564.4	558.3	555.3
17.5°	428.6	427.0	428.6	436.1	457.2	484.4	528.1	559.8	594.5	594.5	597.6
20°	451.2	455.7	454.2	449.7	460.2	482.9	528.1	584.0	641.3	636.8	636.8
22.5°	490.4	491.9	482.9	479.9	478.3	491.9	537.2	614.2	680.6	689.6	686.6
25°	531.2	532.7	529.7	520.6	508.5	511.5	553.8	638.3	734.9	750.0	746.9
27.5°	599.1	597.6	590.0	579.5	561.3	547.8	579.5	656.4	777.1	802.8	795.2
30°	667.0	662.4	651.9	638.3	621.7	596.1	611.1	691.1	829.9	854.1	837.5
32.5°	750.0	740.9	743.9	722.8	688.1	647.4	644.3	722.8	872.2	906.9	893.3
35°	855.6	845.0	829.9	810.3	777.1	722.8	706.2	774.1	943.1	968.8	968.8
37.5°	994.4	1005.0	986.9	905.4	869.2	817.9	783.2	826.9	1005.0	1066.9	1051.8
40°	1136.3	1145.3	1112.1	1051.8	973.3	909.9	888.8	912.9	1098.5	1172.5	1143.8
42.5°	1251.0	1263.0	1251.0	1172.5	1110.6	1029.1	991.4	1014.0	1219.3	1308.3	1270.6
45°	1371.7	1383.7	1370.2	1318.9	1258.5	1211.7	1116.7	1145.3	1346.0	1478.8	1436.6
47.5°	1462.2	1477.3	1453.2	1442.6	1394.3	1386.8	1225.3	1257.0	1478.8	1650.8	1598.0
50°	1483.3	1499.9	1521.1	1533.1	1516.5	1534.6	1371.7	1398.8	1617.6	1809.3	1758.0
52.5°	1433.5	1450.1	1496.9	1552.7	1629.7	1684.0	1519.6	1542.2	1762.5	1940.6	1913.4
55°	1287.2	1302.3	1397.3	1472.8	1656.9	1745.9	1661.4	1756.5	1866.6	2077.9	2011.5
57.5°	1041.2	1059.3	1184.6	1300.7	1566.3	1711.2	1745.9	1934.5	2038.6	2179.0	2102.0
60°	739.4	750.0	858.6	1063.8	1315.8	1537.7	1729.3	2067.3	2174.5	2314.8	2274.0
62.5°	425.5	434.6	547.8	740.9	992.9	1284.1	1655.4	2192.6	2320.8	2464.2	2441.5
65°	282.2	285.2	362.2	467.8	645.8	946.1	1468.2	2304.2	2465.7	2583.4	2557.7
67.5°	185.6	202.2	262.6	335.0	413.5	523.6	1196.6	2351.0	2631.7	2749.4	2743.3
70°	132.8	138.8	188.6	258.0	310.9	294.3	700.2	2020.5	2624.1	2794.6	2744.8
72.5°	78.5	84.5	125.2	193.2	244.5	187.1	327.5	1429.0	2174.5	2230.3	2216.7
75°	57.3	57.3	77.0	138.8	178.1	134.3	153.9	903.9	1444.1	1567.8	1566.3
77.5°	40.7	42.3	52.8	83.0	137.3	98.1	84.5	502.5	789.2	863.1	822.4
80°	24.1	25.7	36.2	49.8	99.6	70.9	55.8	229.4	303.3	306.3	291.2
82.5°	18.1	18.1	24.1	34.7	69.4	48.3	34.7	87.5	98.1	89.0	75.4
85°	10.6	9.1	18.1	25.7	40.7	27.2	24.1	40.7	45.3	33.2	30.2
87.5°	3.0	3.0	7.5	9.1	18.1	15.1	10.6	15.1	21.1	12.1	9.1
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: P676310
 CATALOG NUMBER: CCW-SA-1D-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2
2.5°	463.3	458.7	451.2	448.2	437.6	433.1	430.1	422.5	424.0	419.5	419.5
5°	458.7	458.7	443.6	427.0	410.4	399.9	387.8	372.7	372.7	366.7	368.2
7.5°	475.3	463.3	443.6	413.5	386.3	362.2	351.6	336.5	327.5	322.9	322.9
10°	485.9	473.8	440.6	404.4	369.7	339.5	316.9	295.8	283.7	283.7	282.2
12.5°	514.6	496.5	452.7	402.9	351.6	306.3	271.6	247.5	230.9	218.8	221.8
15°	538.7	519.1	458.7	390.8	319.9	256.5	214.3	169.0	146.4	134.3	129.8
17.5°	576.4	540.2	472.3	369.7	271.6	200.7	138.8	101.1	92.0	90.5	90.5
20°	608.1	565.9	473.8	329.0	223.3	128.3	89.0	83.0	78.5	77.0	75.4
22.5°	651.9	599.1	467.8	282.2	160.0	86.0	75.4	69.4	66.4	61.9	61.9
25°	697.2	642.8	455.7	238.4	98.1	73.9	66.4	60.4	54.3	51.3	52.8
27.5°	745.4	676.0	421.0	185.6	75.4	64.9	54.3	49.8	46.8	45.3	45.3
30°	784.7	697.2	369.7	123.7	67.9	57.3	48.3	43.8	40.7	39.2	39.2
32.5°	813.3	715.3	312.4	83.0	61.9	51.3	43.8	39.2	36.2	34.7	34.7
35°	861.6	728.8	259.5	70.9	55.8	45.3	37.7	34.7	31.7	31.7	31.7
37.5°	935.6	746.9	206.7	64.9	51.3	40.7	36.2	31.7	30.2	28.7	28.7
40°	1000.5	769.6	147.9	58.9	46.8	37.7	31.7	28.7	27.2	25.7	25.7
42.5°	1094.0	795.2	96.6	52.8	42.3	34.7	28.7	25.7	24.1	22.6	22.6
45°	1213.2	837.5	75.4	46.8	37.7	31.7	27.2	24.1	21.1	21.1	19.6
47.5°	1340.0	888.8	67.9	43.8	34.7	28.7	24.1	21.1	19.6	18.1	18.1
50°	1457.7	938.6	63.4	40.7	31.7	27.2	22.6	19.6	16.6	15.1	15.1
52.5°	1563.3	985.4	60.4	37.7	30.2	24.1	19.6	16.6	15.1	13.6	13.6
55°	1619.1	1006.5	58.9	36.2	27.2	22.6	18.1	15.1	13.6	12.1	12.1
57.5°	1706.7	1033.7	57.3	34.7	25.7	19.6	16.6	13.6	12.1	10.6	10.6
60°	1848.5	1122.7	55.8	33.2	24.1	19.6	15.1	12.1	9.1	7.5	7.5
62.5°	1966.2	1196.6	49.8	28.7	21.1	16.6	12.1	9.1	6.0	4.5	4.5
65°	2100.5	1231.3	43.8	25.7	18.1	13.6	9.1	6.0	4.5	1.5	1.5
67.5°	2246.9	1284.1	36.2	22.6	16.6	10.6	7.5	4.5	1.5	0.0	0.0
70°	2169.9	1217.8	30.2	19.6	15.1	9.1	6.0	3.0	0.0	0.0	0.0
72.5°	1700.6	872.2	24.1	18.1	13.6	9.1	6.0	1.5	0.0	0.0	0.0
75°	1136.3	493.4	21.1	15.1	10.6	7.5	4.5	1.5	0.0	0.0	0.0
77.5°	617.2	221.8	18.1	13.6	9.1	6.0	4.5	1.5	0.0	0.0	0.0
80°	200.7	87.5	15.1	12.1	9.1	6.0	4.5	1.5	0.0	0.0	0.0
82.5°	54.3	27.2	15.1	12.1	9.1	6.0	4.5	1.5	0.0	0.0	0.0
85°	22.6	18.1	15.1	12.1	9.1	6.0	4.5	1.5	0.0	0.0	0.0
87.5°	9.1	6.0	6.0	7.5	6.0	4.5	3.0	1.5	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: P676310
 CATALOG NUMBER: CCW-SA-1D-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2
2.5°	421.0	424.0	425.5	425.5	433.1	440.6	449.7	457.2	457.2	461.8	466.3
5°	369.7	372.7	377.2	390.8	405.9	422.5	439.1	451.2	467.8	475.3	479.9
7.5°	327.5	330.5	342.5	356.1	377.2	405.9	434.6	461.8	478.3	485.9	491.9
10°	283.7	288.2	301.8	325.9	353.1	387.8	421.0	467.8	494.9	510.0	516.1
12.5°	220.3	232.4	250.5	276.1	310.9	363.7	425.5	473.8	520.6	538.7	550.8
15°	138.8	149.4	178.1	218.8	265.6	327.5	413.5	482.9	547.8	565.9	585.5
17.5°	89.0	90.5	99.6	143.4	203.7	282.2	395.4	496.5	577.9	603.6	633.8
20°	75.4	78.5	80.0	86.0	135.8	232.4	357.6	513.1	614.2	648.9	677.5
22.5°	63.4	64.9	67.9	72.4	81.5	169.0	306.3	513.1	645.8	697.2	730.4
25°	51.3	54.3	57.3	61.9	70.9	105.6	253.5	504.0	683.6	746.9	789.2
27.5°	45.3	45.3	48.3	52.8	60.4	73.9	200.7	476.8	712.2	777.1	833.0
30°	39.2	40.7	42.3	46.8	54.3	64.9	138.8	433.1	742.4	836.0	899.4
32.5°	34.7	34.7	37.7	40.7	48.3	58.9	89.0	366.7	781.7	881.2	970.3
35°	31.7	31.7	33.2	36.2	43.8	52.8	69.4	310.9	828.4	967.3	1065.3
37.5°	28.7	28.7	30.2	33.2	39.2	46.8	63.4	267.1	876.7	1053.3	1196.6
40°	25.7	25.7	27.2	30.2	34.7	42.3	57.3	215.8	937.1	1180.0	1340.0
42.5°	22.6	22.6	24.1	27.2	31.7	37.7	49.8	161.5	1017.1	1317.3	1525.6
45°	19.6	19.6	21.1	24.1	27.2	34.7	45.3	123.7	1104.6	1469.8	1688.6
47.5°	16.6	18.1	19.6	22.6	25.7	31.7	40.7	108.6	1190.6	1631.2	1869.6
50°	15.1	15.1	16.6	19.6	24.1	28.7	37.7	107.1	1278.1	1755.0	2055.2
52.5°	13.6	13.6	15.1	18.1	22.6	27.2	36.2	110.2	1350.5	1869.6	2185.0
55°	12.1	12.1	13.6	15.1	19.6	25.7	33.2	113.2	1401.8	1985.8	2289.1
57.5°	10.6	10.6	12.1	15.1	18.1	22.6	30.2	116.2	1484.8	2100.5	2440.0
60°	7.5	7.5	10.6	13.6	16.6	19.6	28.7	119.2	1617.6	2259.0	2568.3
62.5°	4.5	4.5	6.0	10.6	13.6	18.1	25.7	113.2	1741.4	2462.7	2764.5
65°	1.5	3.0	4.5	6.0	10.6	15.1	21.1	102.6	1845.5	2666.4	2945.5
67.5°	0.0	0.0	1.5	4.5	9.1	12.1	18.1	75.4	1862.1	2758.4	3131.2
70°	0.0	0.0	1.5	4.5	7.5	12.1	16.6	42.3	1585.9	2464.2	2870.1
72.5°	0.0	0.0	0.0	3.0	7.5	10.6	15.1	31.7	1169.5	1857.6	2268.0
75°	0.0	0.0	0.0	1.5	6.0	9.1	13.6	24.1	710.7	1238.9	1480.3
77.5°	0.0	0.0	0.0	1.5	4.5	9.1	13.6	21.1	250.5	590.0	695.6
80°	0.0	0.0	0.0	3.0	6.0	9.1	12.1	18.1	60.4	147.9	199.2
82.5°	0.0	0.0	0.0	1.5	4.5	7.5	10.6	15.1	24.1	43.8	69.4
85°	0.0	0.0	0.0	1.5	3.0	7.5	10.6	13.6	16.6	21.1	30.2
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	4.5	6.0	6.0	6.0	10.6
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: P676310
 CATALOG NUMBER: CCW-SA-1D-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	276°	285°	295°	305°	315°	325°	335°	345°	355°	360°
0°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2
2.5°	464.8	470.8	473.8	479.9	482.9	481.4	479.9	484.4	481.4	476.8
5°	481.4	481.4	485.9	487.4	487.4	482.9	485.9	484.4	481.4	481.4
7.5°	499.5	507.0	507.0	498.0	496.5	493.4	493.4	481.4	476.8	481.4
10°	517.6	523.6	525.1	514.6	501.0	494.9	487.4	472.3	464.8	467.8
12.5°	555.3	555.3	538.7	526.6	508.5	487.4	469.3	448.2	437.6	440.6
15°	582.5	588.5	565.9	538.7	507.0	467.8	448.2	431.6	425.5	421.0
17.5°	635.3	623.2	587.0	547.8	502.5	461.8	448.2	433.1	428.6	428.6
20°	680.6	674.5	620.2	549.3	501.0	473.8	464.8	457.2	455.7	451.2
22.5°	742.4	715.3	645.8	565.9	517.6	493.4	490.4	498.0	493.4	490.4
25°	789.2	766.6	665.5	590.0	543.2	535.7	540.2	547.8	535.7	531.2
27.5°	852.6	810.3	703.2	621.7	577.9	585.5	600.6	602.1	594.5	599.1
30°	911.4	866.2	731.9	657.9	636.8	644.3	667.0	683.6	673.0	667.0
32.5°	995.9	926.5	789.2	718.3	710.7	730.4	756.0	766.6	753.0	750.0
35°	1085.0	995.9	848.1	786.2	799.8	826.9	849.6	867.7	846.5	855.6
37.5°	1223.8	1107.6	947.6	893.3	899.4	909.9	952.2	1002.0	1012.5	994.4
40°	1368.7	1228.3	1039.7	997.4	1011.0	1039.7	1089.5	1136.3	1160.4	1136.3
42.5°	1536.1	1344.5	1181.5	1131.7	1145.3	1186.1	1252.5	1290.2	1287.2	1251.0
45°	1742.9	1506.0	1314.3	1252.5	1302.3	1338.5	1404.9	1409.4	1380.7	1371.7
47.5°	1901.3	1641.8	1457.7	1418.4	1486.4	1487.9	1503.0	1504.5	1472.8	1462.2
50°	2076.4	1798.7	1617.6	1560.3	1675.0	1622.2	1581.4	1554.3	1506.0	1483.3
52.5°	2248.4	1910.4	1765.5	1706.7	1825.9	1685.5	1611.6	1528.6	1457.7	1433.5
55°	2340.4	2094.5	1981.3	1844.0	1859.1	1703.6	1518.0	1413.9	1293.2	1287.2
57.5°	2449.1	2218.2	2163.9	1937.5	1803.2	1576.9	1323.4	1186.1	1056.3	1041.2
60°	2577.4	2414.4	2357.0	1922.5	1605.6	1324.9	1048.7	872.2	750.0	739.4
62.5°	2720.7	2646.8	2476.2	1774.6	1275.1	932.6	692.6	544.7	431.6	425.5
65°	2947.1	2841.4	2539.6	1493.9	843.5	597.6	460.2	353.1	285.2	282.2
67.5°	3088.9	2915.4	2397.8	1065.3	467.8	395.4	322.9	256.5	197.7	185.6
70°	2888.2	2675.4	1896.8	609.6	271.6	300.3	249.0	172.0	135.8	132.8
72.5°	2307.2	1985.8	1276.6	286.7	169.0	235.4	181.1	116.2	81.5	78.5
75°	1573.9	1249.4	801.3	132.8	119.2	172.0	132.8	67.9	57.3	57.3
77.5°	703.2	636.8	410.4	81.5	89.0	131.3	77.0	46.8	42.3	40.7
80°	214.3	224.8	167.5	55.8	66.4	99.6	46.8	31.7	25.7	24.1
82.5°	72.4	84.5	75.4	33.2	45.3	70.9	31.7	21.1	18.1	18.1
85°	34.7	42.3	37.7	21.1	24.1	34.7	25.7	16.6	10.6	10.6
87.5°	13.6	19.6	13.6	9.1	13.6	18.1	10.6	7.5	3.0	3.0
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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