

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: P675878

Luminaire Tested: **CCW-SA-1D-827-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675878
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-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SLL distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

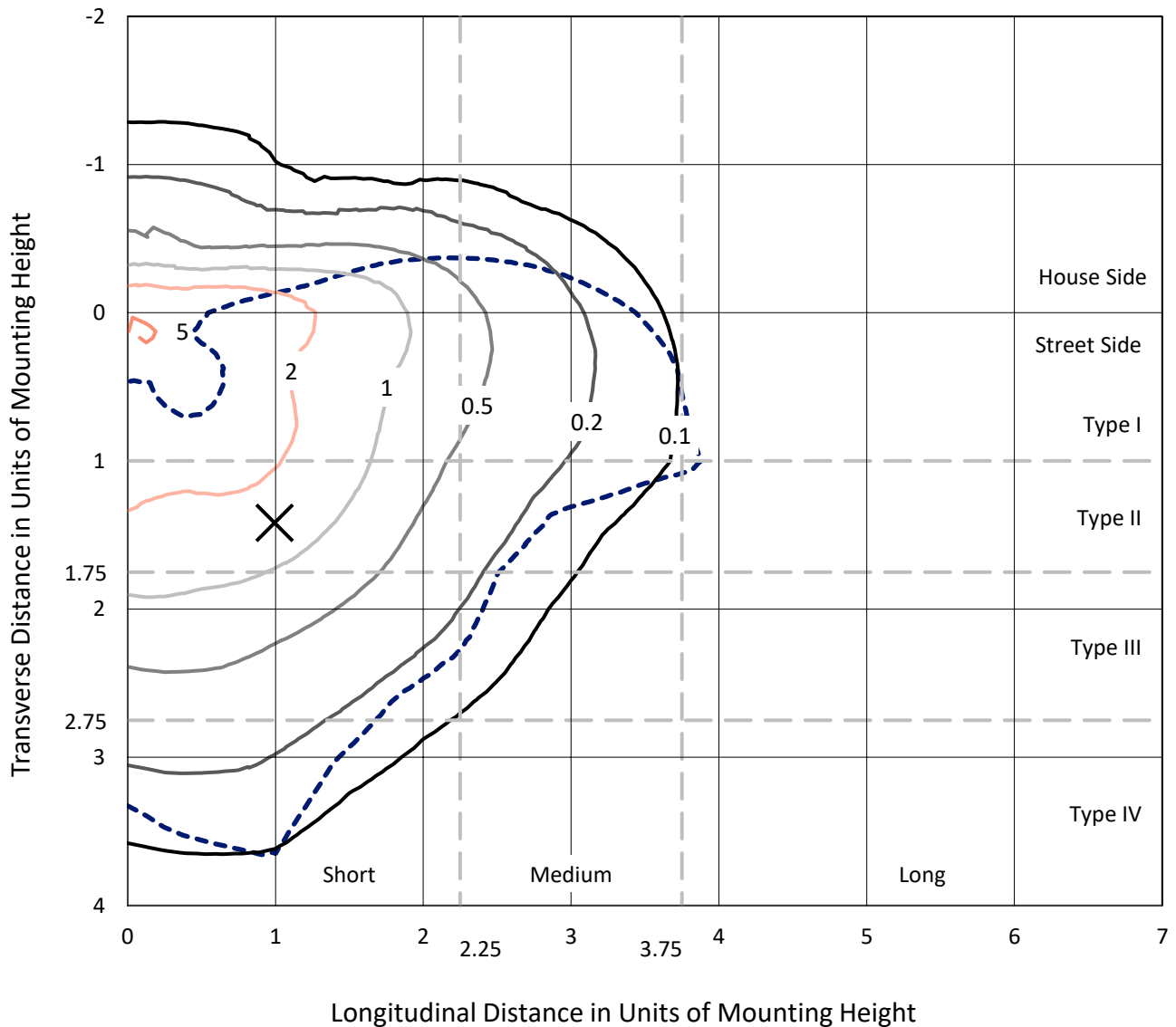
Lumens per Lamp: N/A
Luminaire Lumens: 3401.5 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
Input Voltage (V): 120
Input Current (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: P675878
 CATALOG NUMBER: CCW-SA-1D-827-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

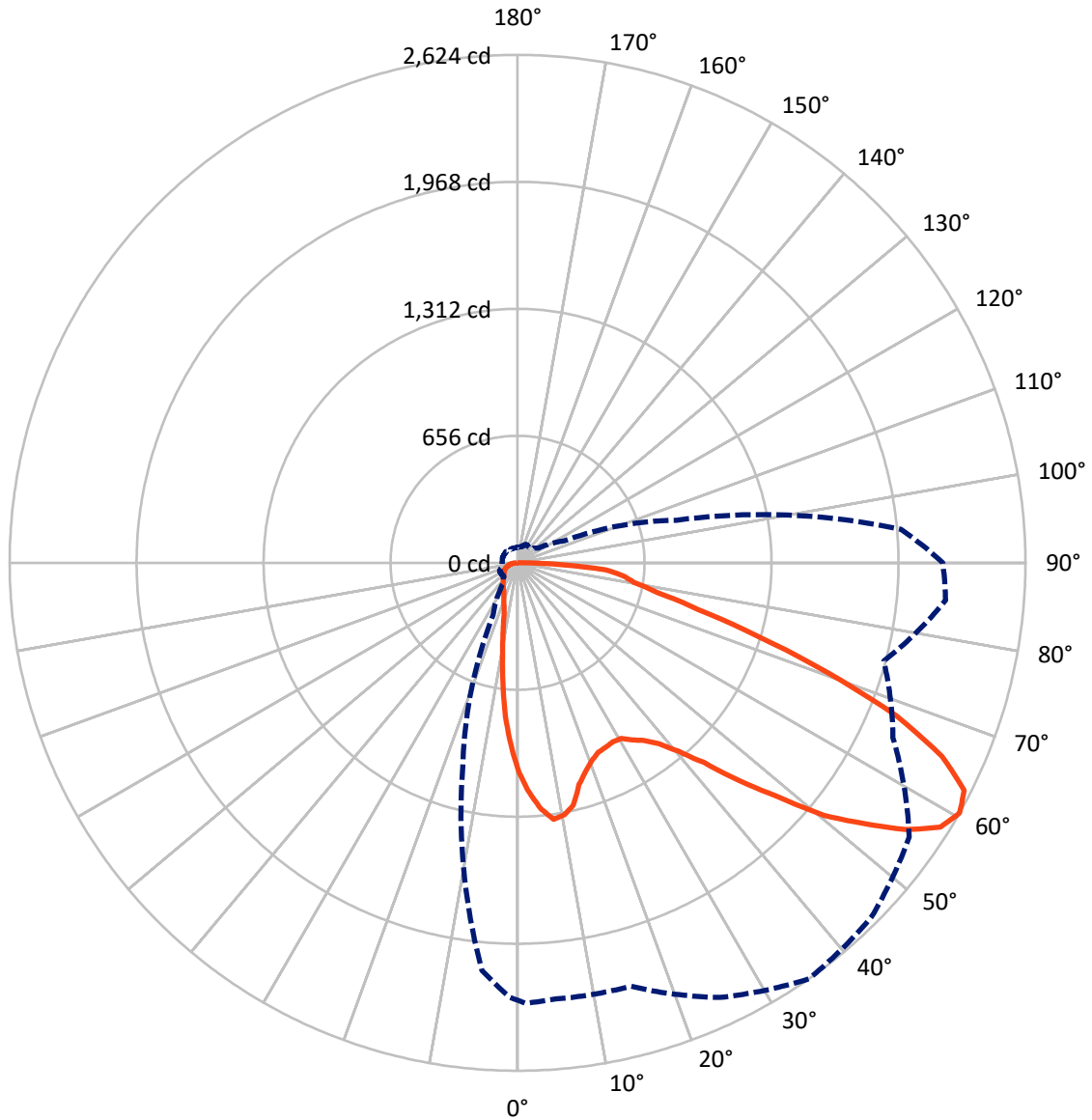
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P675878
CATALOG NUMBER: CCW-SA-1D-827-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675878
 CATALOG NUMBER: CCW-SA-1D-827-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.4	0.0	647.4
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	2754.2	0.0	2754.2
	% Fixture	81.0	0.0	81.0
Total	Lumens	3401.5	0.0	3401.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	2.5
10°-20°	178.2	5.2
20°-30°	260.7	7.7
30°-40°	367.3	10.8
40°-50°	504.8	14.8
50°-60°	688.0	20.2
60°-70°	753.0	22.1
70°-80°	434.8	12.8
80°-90°	130.2	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°	3401.5	100.0
0°-180°	3401.5	100.0

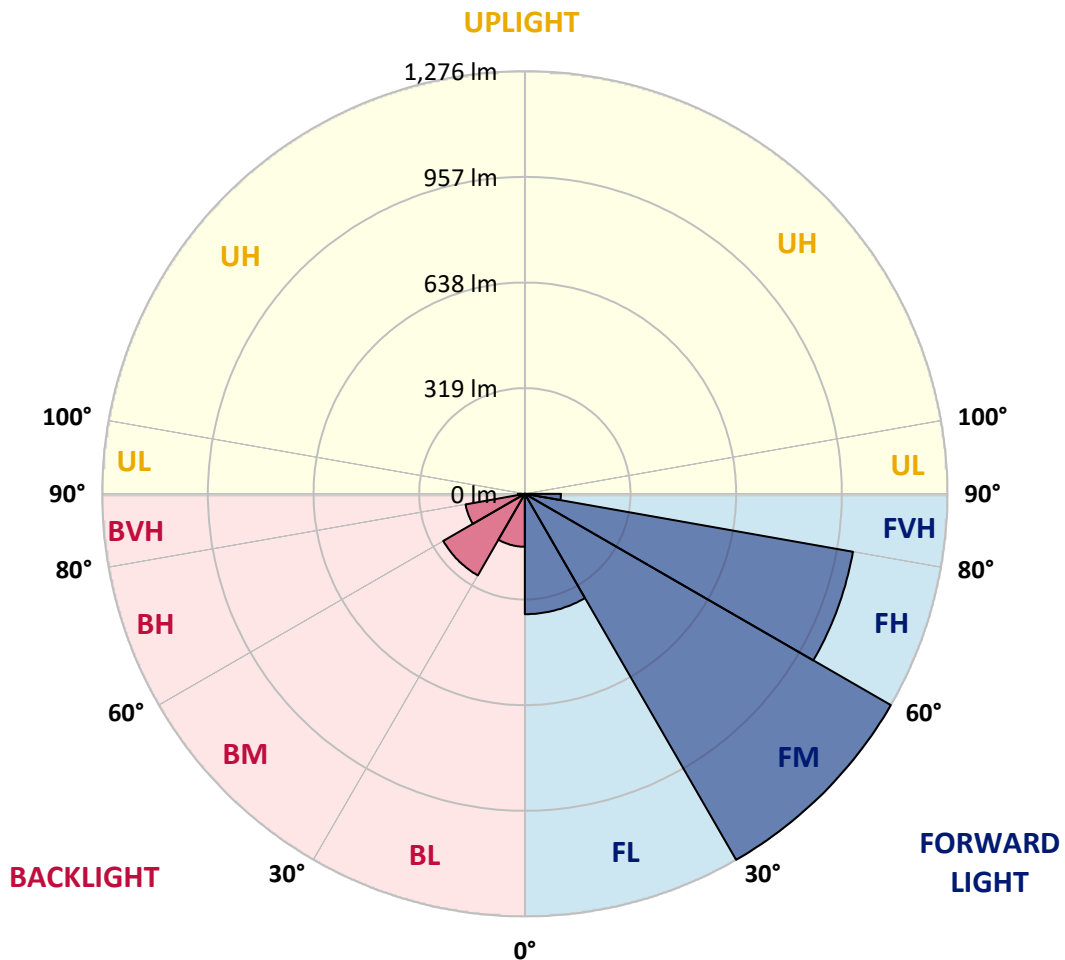


REPORT NUMBER: P675878
 CATALOG NUMBER: CCW-SA-1D-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.4	10.7			
FM (30°-60°)	1275.9	37.5			
FH (60°-80°)	1006.0	29.6			G1/1800
FVH (80°-90°)	109.0	3.2			G2/225
BL (0°-30°)	159.9	4.7	B1/500		
BM (30°-60°)	284.4	8.4	B1/1000		
BH (60°-80°)	181.8	5.3	B1/500		G1/500
BVH (80°-90°)	21.2	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: P675878

CATALOG NUMBER: CCW-SA-1D-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1163.4	1158.9	1163.4	1180.0	1184.5	1192.1	1192.1	1181.5	1161.9	1152.8	1137.7
5°	1189.0	1181.5	1219.2	1253.9	1281.1	1278.1	1252.4	1231.3	1192.1	1133.2	1077.4
7.5°	1137.7	1145.3	1172.4	1263.0	1326.3	1338.4	1297.7	1255.4	1170.9	1089.4	1014.0
10°	1041.2	1051.7	1110.6	1204.1	1303.7	1323.3	1297.7	1246.4	1145.3	1044.2	956.7
12.5°	994.4	1018.5	1053.2	1166.4	1237.3	1284.1	1272.0	1238.8	1125.7	1006.5	922.0
15°	994.4	1000.4	1051.7	1146.8	1187.5	1189.0	1193.6	1199.6	1131.7	1023.1	909.9
17.5°	1026.1	1042.7	1086.4	1145.3	1152.8	1134.7	1134.7	1160.4	1143.8	1069.8	953.6
20°	1103.0	1097.0	1154.3	1178.5	1137.7	1092.5	1087.9	1131.7	1157.3	1119.6	1033.6
22.5°	1180.0	1207.1	1253.9	1199.6	1124.2	1063.8	1057.8	1112.1	1198.1	1205.6	1125.7
25°	1296.2	1323.3	1347.5	1281.1	1122.6	1056.2	1060.8	1103.0	1247.9	1327.9	1279.6
27.5°	1421.4	1438.0	1472.7	1370.1	1158.9	1047.2	1051.7	1115.1	1294.7	1407.8	1400.3
30°	1492.3	1510.4	1502.9	1386.7	1183.0	1053.2	1041.2	1131.7	1269.0	1407.8	1478.7
32.5°	1561.7	1551.2	1546.7	1413.9	1213.2	1091.0	1060.8	1166.4	1284.1	1430.5	1579.8
35°	1646.2	1631.2	1619.1	1466.7	1263.0	1127.2	1113.6	1211.7	1317.3	1477.2	1661.3
37.5°	1739.8	1739.8	1680.9	1505.9	1321.8	1186.0	1170.9	1276.6	1370.1	1505.9	1773.0
40°	1849.9	1854.5	1750.4	1558.7	1388.2	1279.6	1275.0	1361.1	1421.4	1548.2	1880.1
42.5°	1931.4	1934.4	1810.7	1578.3	1465.2	1409.3	1429.0	1496.9	1480.3	1585.9	1887.7
45°	1987.3	1972.2	1853.0	1634.2	1549.7	1604.0	1610.0	1629.6	1557.2	1608.5	1917.8
47.5°	2014.4	2011.4	1871.1	1699.1	1727.7	1801.7	1836.4	1809.2	1628.1	1584.4	1917.8
50°	2041.6	2015.9	1887.7	1788.1	1901.2	2050.6	2043.1	1993.3	1726.2	1614.6	1889.2
52.5°	2059.7	2037.1	1920.9	1868.1	2067.2	2236.2	2266.4	2174.4	1840.9	1670.4	1902.8
55°	2124.6	2106.5	2020.5	1976.7	2258.9	2432.4	2436.9	2308.7	1961.6	1762.4	1991.8
57.5°	2203.0	2213.6	2157.8	2130.6	2405.2	2575.7	2559.1	2408.2	2064.2	1874.1	2094.4
60°	2258.9	2275.5	2261.9	2264.9	2477.7	2624.0	2586.3	2470.1	2139.7	1958.6	2219.6
62.5°	2228.7	2261.9	2317.7	2305.6	2480.7	2589.3	2536.5	2388.6	2148.7	2068.7	2314.7
65°	2145.7	2148.7	2257.4	2323.7	2344.9	2409.8	2340.3	2218.1	2055.2	2136.6	2301.1
67.5°	1932.9	1957.1	2055.2	2184.9	2095.9	2111.0	2105.0	1928.4	1913.3	2089.9	2197.0
70°	1706.6	1723.2	1830.3	1982.7	1770.0	1699.1	1712.6	1581.4	1643.2	1945.0	1987.3
72.5°	1410.8	1421.4	1543.6	1677.9	1419.9	1293.2	1324.8	1217.7	1305.2	1702.1	1676.4
75°	1065.3	1084.9	1180.0	1338.4	1045.7	964.2	995.9	952.1	1033.6	1401.8	1300.7
77.5°	757.5	742.4	860.1	1047.2	786.2	737.9	740.9	748.4	835.9	1181.5	934.0
80°	516.1	520.6	626.2	768.0	617.2	609.6	602.1	662.4	701.7	935.5	679.0
82.5°	306.3	306.3	422.5	546.2	487.4	549.2	514.5	568.9	549.2	688.1	445.1
85°	143.3	143.3	217.3	393.8	377.2	452.7	384.8	430.0	405.9	479.8	200.7
87.5°	24.1	21.1	43.8	193.1	155.4	176.5	69.4	229.4	255.0	335.0	49.8
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: P675878

CATALOG NUMBER: CCW-SA-1D-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1121.1	1110.6	1089.4	1062.3	1039.7	1011.0	1001.9	982.3	955.2	952.1	940.1
5°	1056.2	1020.0	974.8	918.9	881.2	842.0	808.8	789.2	766.5	763.5	757.5
7.5°	985.3	940.1	864.6	798.2	733.3	671.5	641.3	603.6	577.9	558.3	549.2
10°	918.9	876.7	783.1	692.6	635.3	594.5	558.3	519.1	487.4	463.2	454.2
12.5°	875.2	825.4	724.3	638.3	596.0	549.2	508.5	466.3	425.5	393.8	377.2
15°	855.6	808.8	706.2	611.1	549.2	484.4	437.6	395.3	345.5	322.9	315.4
17.5°	902.3	832.9	700.1	579.4	491.9	418.0	360.6	315.4	279.2	256.5	247.5
20°	962.7	876.7	710.7	541.7	437.6	354.6	291.2	242.9	218.8	202.2	200.7
22.5°	1039.7	941.6	727.3	514.5	377.2	285.2	227.8	199.2	182.6	181.1	178.1
25°	1177.0	1059.3	754.5	478.3	328.9	235.4	194.7	178.1	170.5	166.0	169.0
27.5°	1294.7	1136.2	774.1	455.7	309.3	221.8	188.6	170.5	163.0	161.5	163.0
30°	1364.1	1207.1	768.0	413.4	270.1	211.2	200.7	194.7	179.6	167.5	167.5
32.5°	1427.4	1252.4	766.5	375.7	230.9	176.5	167.5	163.0	172.0	178.1	173.5
35°	1515.0	1323.3	762.0	354.6	214.3	163.0	147.9	135.8	129.8	126.7	131.3
37.5°	1608.5	1371.6	749.9	351.6	205.2	155.4	143.3	131.3	125.2	122.2	120.7
40°	1711.1	1422.9	736.4	336.5	200.7	150.9	138.8	128.3	120.7	116.2	114.7
42.5°	1777.5	1463.7	722.8	328.9	191.6	147.9	134.3	125.2	117.7	111.7	111.7
45°	1815.2	1511.9	709.2	321.4	181.1	149.4	134.3	122.2	113.2	110.2	107.1
47.5°	1831.8	1548.2	704.7	309.3	172.0	143.3	131.3	119.2	110.2	104.1	102.6
50°	1875.6	1625.1	721.3	300.3	161.5	137.3	138.8	117.7	108.6	101.1	99.6
52.5°	1901.2	1687.0	757.5	286.7	153.9	129.8	135.8	114.7	104.1	96.6	96.6
55°	1994.8	1789.6	796.7	276.1	144.9	119.2	125.2	108.6	96.6	92.0	92.0
57.5°	2114.0	1898.2	829.9	271.6	138.8	111.7	111.7	105.6	92.0	86.0	84.5
60°	2197.0	1987.3	849.5	268.6	132.8	104.1	99.6	105.6	87.5	81.5	80.0
62.5°	2206.1	1936.0	829.9	267.1	131.3	96.6	90.5	101.1	83.0	77.0	73.9
65°	2148.7	1831.8	775.6	261.0	129.8	89.0	84.5	87.5	77.0	72.4	69.4
67.5°	2034.0	1662.8	697.1	258.0	128.3	83.0	77.0	75.4	70.9	66.4	63.4
70°	1767.0	1442.5	605.1	244.4	125.2	78.5	69.4	67.9	63.4	60.4	58.8
72.5°	1483.3	1180.0	499.5	226.3	119.2	70.9	63.4	60.4	58.8	54.3	52.8
75°	1136.2	908.4	399.9	200.7	104.1	63.4	55.8	52.8	51.3	48.3	46.8
77.5°	798.2	676.0	295.7	163.0	87.5	57.3	49.8	46.8	45.3	40.7	40.7
80°	541.7	473.8	200.7	113.2	67.9	46.8	43.8	40.7	37.7	34.7	34.7
82.5°	336.5	332.0	144.9	73.9	49.8	37.7	34.7	34.7	30.2	27.2	27.2
85°	153.9	203.7	101.1	51.3	37.7	28.7	28.7	27.2	24.1	19.6	19.6
87.5°	48.3	67.9	52.8	22.6	21.1	16.6	16.6	15.1	15.1	12.1	12.1
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: P675878
 CATALOG NUMBER: CCW-SA-1D-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	952.1	950.6	950.6	944.6	959.7	959.7	968.7	961.2	965.7	967.2	979.3
5°	756.0	768.0	777.1	795.2	805.8	810.3	810.3	822.4	817.8	826.9	845.0
7.5°	553.8	568.9	596.0	618.7	636.8	642.8	641.3	644.3	648.8	638.3	641.3
10°	448.2	437.6	446.6	467.8	484.4	504.0	488.9	487.4	491.9	487.4	496.4
12.5°	374.2	362.1	354.6	354.6	366.7	375.7	371.2	378.7	395.3	399.9	410.4
15°	303.3	292.7	286.7	279.2	291.2	294.2	298.8	309.3	321.4	327.4	339.5
17.5°	242.9	242.9	242.9	236.9	241.4	246.0	247.5	261.0	262.6	268.6	273.1
20°	199.2	203.7	211.2	214.3	218.8	218.8	215.8	223.3	217.3	221.8	224.8
22.5°	179.6	185.6	188.6	190.1	196.2	197.7	190.1	191.6	193.1	188.6	190.1
25°	169.0	172.0	169.0	170.5	172.0	169.0	170.5	173.5	172.0	175.0	173.5
27.5°	164.5	161.5	159.9	158.4	158.4	155.4	156.9	156.9	159.9	161.5	161.5
30°	164.5	159.9	153.9	149.4	149.4	144.9	147.9	150.9	152.4	155.4	155.4
32.5°	169.0	159.9	149.4	144.9	140.3	137.3	140.3	144.9	150.9	152.4	153.9
35°	134.3	138.8	137.3	131.3	129.8	129.8	128.3	128.3	123.7	123.7	122.2
37.5°	120.7	119.2	122.2	123.7	125.2	120.7	120.7	114.7	113.2	114.7	114.7
40°	113.2	113.2	113.2	117.7	119.2	116.2	111.7	108.6	108.6	108.6	110.2
42.5°	110.2	107.1	105.6	108.6	113.2	110.2	105.6	104.1	104.1	105.6	105.6
45°	105.6	104.1	102.6	101.1	107.1	102.6	101.1	99.6	99.6	99.6	101.1
47.5°	101.1	99.6	96.6	96.6	98.1	96.6	95.1	95.1	95.1	98.1	98.1
50°	98.1	96.6	93.6	93.6	93.6	93.6	92.0	92.0	92.0	93.6	95.1
52.5°	93.6	92.0	90.5	89.0	89.0	89.0	89.0	89.0	89.0	90.5	92.0
55°	89.0	87.5	86.0	86.0	87.5	87.5	86.0	87.5	86.0	87.5	89.0
57.5°	84.5	83.0	81.5	83.0	84.5	83.0	83.0	83.0	83.0	83.0	84.5
60°	78.5	78.5	78.5	78.5	81.5	81.5	81.5	81.5	78.5	80.0	81.5
62.5°	75.4	73.9	73.9	75.4	77.0	77.0	78.5	77.0	75.4	77.0	77.0
65°	69.4	69.4	69.4	70.9	70.9	72.4	72.4	72.4	70.9	72.4	72.4
67.5°	64.9	64.9	64.9	64.9	67.9	67.9	67.9	67.9	66.4	66.4	67.9
70°	57.3	58.8	57.3	60.4	63.4	61.9	63.4	63.4	61.9	60.4	63.4
72.5°	52.8	52.8	52.8	52.8	57.3	57.3	57.3	58.8	57.3	55.8	57.3
75°	46.8	46.8	46.8	48.3	51.3	51.3	51.3	51.3	51.3	49.8	49.8
77.5°	40.7	42.2	40.7	42.2	45.3	43.8	45.3	46.8	45.3	43.8	43.8
80°	34.7	34.7	34.7	36.2	37.7	37.7	37.7	39.2	37.7	36.2	36.2
82.5°	27.2	27.2	28.7	28.7	30.2	30.2	30.2	31.7	30.2	28.7	28.7
85°	21.1	21.1	21.1	22.6	22.6	24.1	24.1	25.7	25.7	24.1	24.1
87.5°	13.6	12.1	13.6	13.6	15.1	15.1	13.6	12.1	13.6	12.1	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: P675878
 CATALOG NUMBER: CCW-SA-1D-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	991.4	1018.5	1038.1	1051.7	1071.3	1109.1	1124.2	1151.3	1158.9	1163.4
5°	852.5	881.2	923.5	953.6	988.3	1059.3	1113.6	1154.3	1172.4	1189.0
7.5°	668.5	706.2	749.9	789.2	846.5	934.0	1004.9	1089.4	1121.1	1137.7
10°	522.1	556.8	605.1	653.4	733.3	807.3	908.4	985.3	1029.1	1041.2
12.5°	440.6	481.3	538.7	597.5	647.3	731.8	834.4	946.1	986.8	994.4
15°	374.2	430.0	488.9	549.2	606.6	680.5	790.7	926.5	986.8	994.4
17.5°	309.3	359.1	428.5	493.4	559.8	660.9	798.2	943.1	1003.4	1026.1
20°	246.0	294.2	348.6	430.0	520.6	627.7	814.8	998.9	1078.9	1103.0
22.5°	203.7	224.8	277.6	356.1	463.2	605.1	831.4	1086.4	1170.9	1180.0
25°	178.1	193.1	226.3	300.3	418.0	590.0	870.7	1187.5	1296.2	1296.2
27.5°	166.0	172.0	194.7	261.0	386.3	576.4	909.9	1299.2	1400.3	1421.4
30°	163.0	178.1	190.1	232.4	351.6	538.7	946.1	1386.7	1490.8	1492.3
32.5°	159.9	156.9	166.0	202.2	309.3	499.5	976.3	1475.7	1557.2	1561.7
35°	125.2	131.3	146.4	178.1	277.6	470.8	991.4	1524.0	1641.7	1646.2
37.5°	117.7	125.2	137.3	164.5	256.5	446.6	995.9	1617.6	1730.7	1739.8
40°	114.7	120.7	129.8	152.4	239.9	416.5	1004.9	1714.1	1862.0	1849.9
42.5°	108.6	116.2	125.2	146.4	226.3	393.8	1006.5	1767.0	1931.4	1931.4
45°	107.1	111.7	122.2	146.4	211.2	374.2	982.3	1819.8	2011.4	1987.3
47.5°	101.1	110.2	119.2	141.8	193.1	354.6	953.6	1846.9	2022.0	2014.4
50°	99.6	108.6	123.7	134.3	182.6	345.5	947.6	1914.8	2043.1	2041.6
52.5°	96.6	105.6	128.3	128.3	169.0	333.5	976.3	1945.0	2047.6	2059.7
55°	92.0	105.6	119.2	117.7	156.9	318.4	1008.0	2023.5	2127.6	2124.6
57.5°	89.0	102.6	113.2	107.1	143.3	307.8	1054.7	2098.9	2224.2	2203.0
60°	84.5	102.6	101.1	99.6	132.8	298.8	1094.0	2114.0	2245.3	2258.9
62.5°	81.5	107.1	89.0	92.0	123.7	294.2	1077.4	2000.8	2216.6	2228.7
65°	78.5	92.0	81.5	84.5	120.7	285.2	1012.5	1865.0	2092.9	2145.7
67.5°	72.4	75.4	75.4	78.5	117.7	264.1	879.7	1620.6	1904.3	1932.9
70°	66.4	67.9	67.9	72.4	114.7	239.9	725.8	1401.8	1652.3	1706.6
72.5°	60.4	60.4	60.4	66.4	105.6	220.3	597.5	1077.4	1373.1	1410.8
75°	52.8	52.8	52.8	58.8	95.1	200.7	470.8	801.2	1011.0	1065.3
77.5°	46.8	46.8	45.3	52.8	83.0	163.0	339.5	565.8	712.2	757.5
80°	39.2	37.7	37.7	42.2	64.9	117.7	218.8	399.9	496.4	516.1
82.5°	31.7	30.2	28.7	31.7	46.8	73.9	135.8	279.2	318.4	306.3
85°	30.2	31.7	25.7	24.1	33.2	48.3	86.0	172.0	143.3	143.3
87.5°	12.1	10.6	10.6	9.1	16.6	18.1	37.7	31.7	24.1	24.1
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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