

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: P677461

Luminaire Tested: **CCW-SA-1C-827-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677461
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-827-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SLR distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

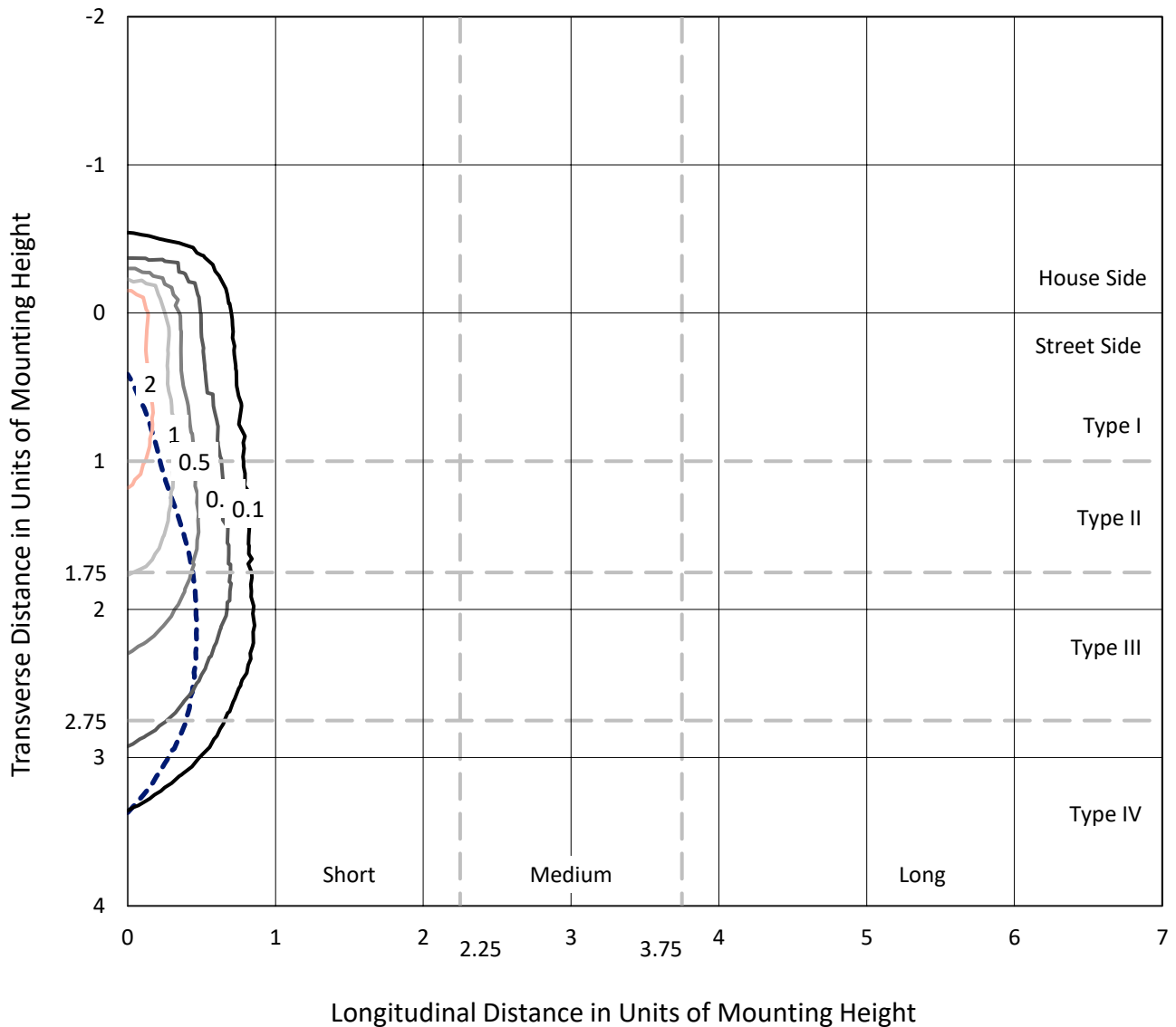
Lumens per Lamp: N/A
Luminaire Lumens: 2388.4 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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: P677461
 CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

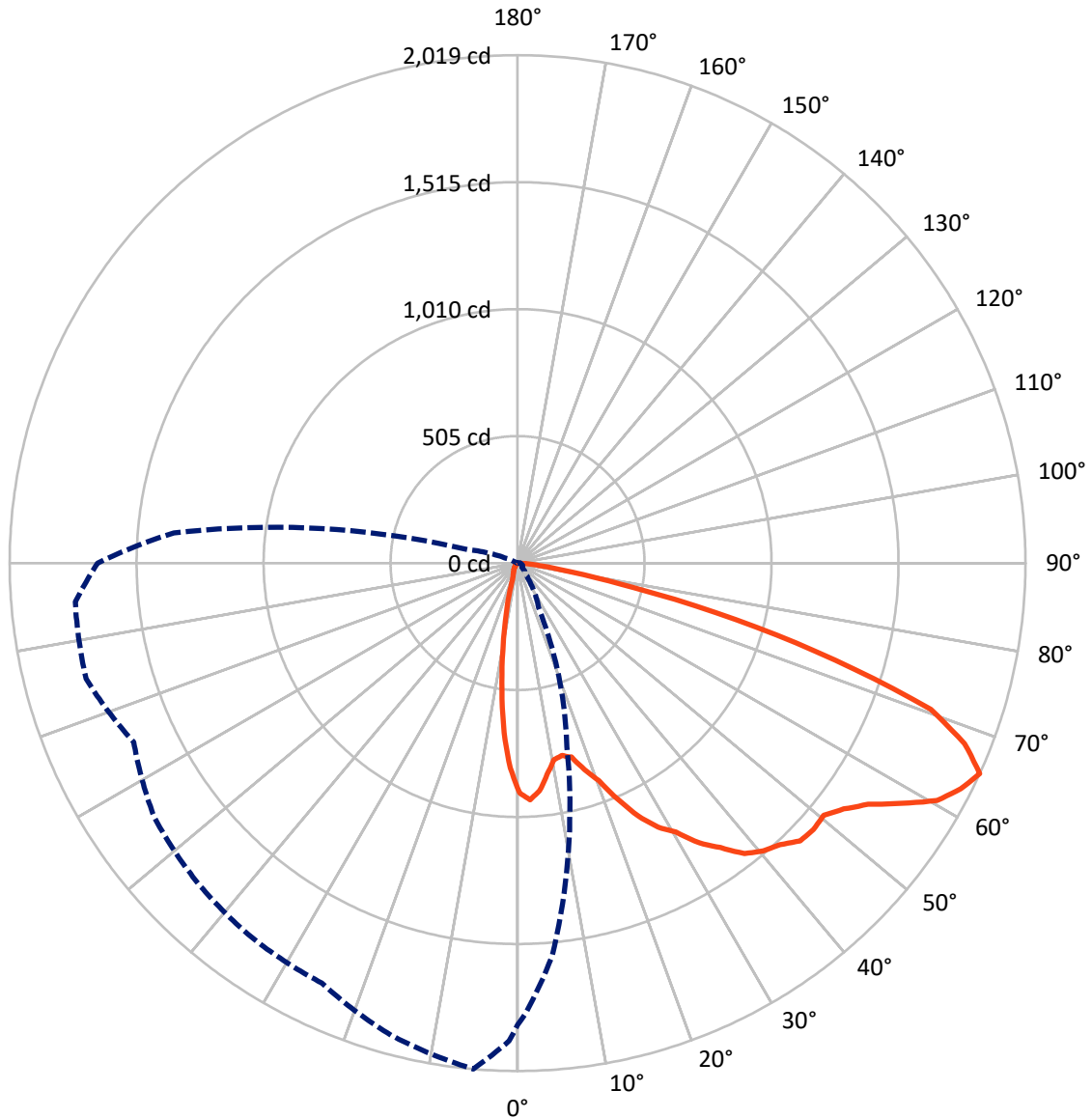
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P677461
CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P677461
 CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	310.1	0.0	310.1
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2078.3	0.0	2078.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	2388.4	0.0	2388.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	2.9
10°-20°	133.9	5.6
20°-30°	186.5	7.8
30°-40°	265.0	11.1
40°-50°	367.5	15.4
50°-60°	500.8	21.0
60°-70°	550.6	23.1
70°-80°	270.6	11.3
80°-90°	44.2	1.9
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°	2388.4	100.0
0°-180°	2388.4	100.0



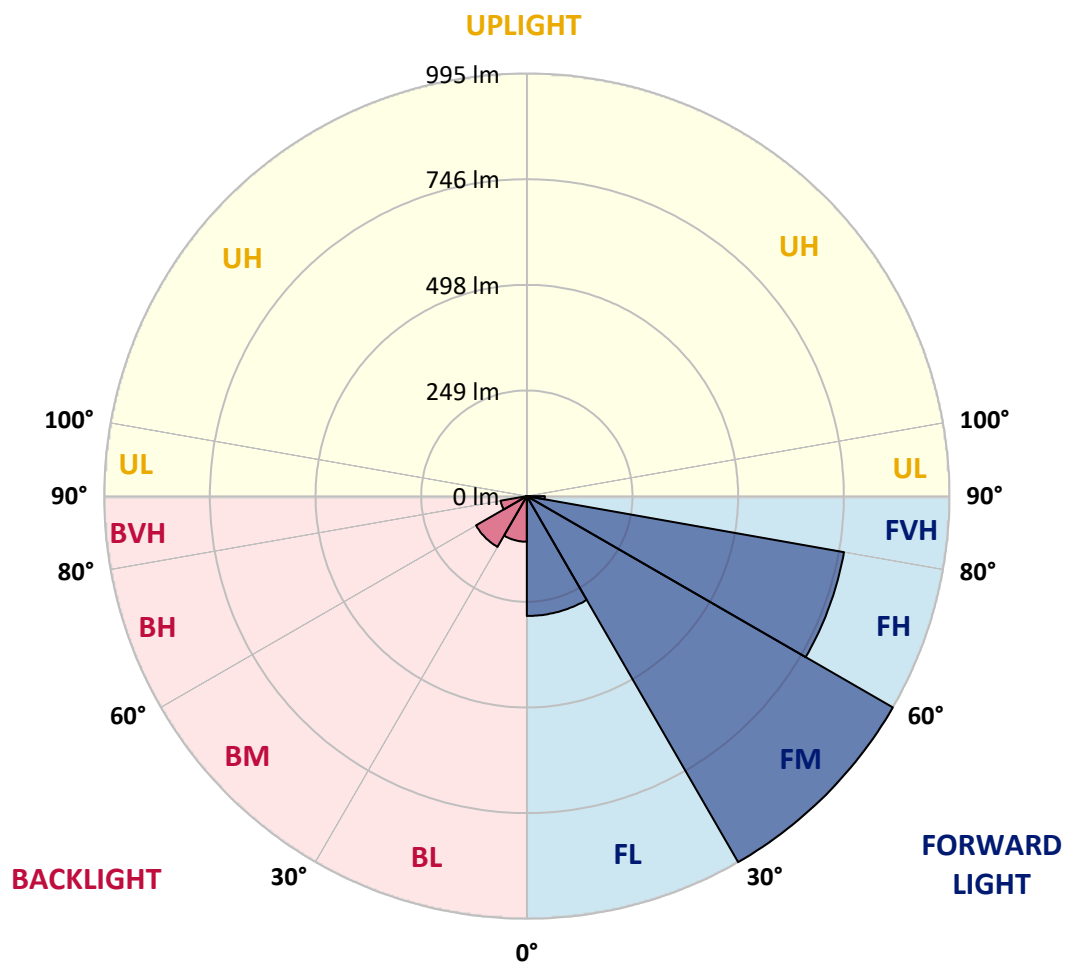
REPORT NUMBER: P677461
 CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.3	11.8			
FM (30°-60°)	995.3	41.7			
FH (60°-80°)	758.5	31.8			G1/1800
FVH (80°-90°)	42.2	1.8			G1/100
BL (0°-30°)	107.4	4.5	B0/110		
BM (30°-60°)	138.1	5.8	B0/220		
BH (60°-80°)	62.7	2.6	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 IV Short





REPORT NUMBER: P677461
 CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	931.8	942.7	932.4	896.4	889.9	872.5	846.1	844.2	816.5	819.7	804.9
5°	875.7	886.7	864.8	817.1	772.7	737.3	716.1	678.1	669.7	651.0	651.0
7.5°	818.4	817.8	780.4	740.5	674.2	609.2	579.5	524.8	492.6	475.2	458.5
10°	770.8	760.5	737.3	654.9	582.8	515.1	478.4	442.4	408.9	379.9	350.9
12.5°	737.3	743.7	707.0	617.5	524.2	477.2	437.9	399.9	360.0	327.1	294.9
15°	754.7	744.4	701.2	609.2	514.5	450.1	397.9	351.6	307.2	264.0	239.5
17.5°	808.8	782.4	731.5	609.2	494.5	408.9	345.8	291.1	243.4	204.8	174.5
20°	881.5	851.3	796.5	631.7	479.7	378.6	292.3	223.4	173.9	137.8	114.6
22.5°	956.2	932.4	850.0	640.7	462.3	338.1	230.5	161.6	115.9	92.7	81.1
25°	1045.7	1012.3	922.1	676.8	436.6	298.8	181.6	112.7	86.3	74.1	67.0
27.5°	1117.2	1111.4	989.7	698.7	417.3	266.6	143.6	89.5	71.5	62.5	58.0
30°	1207.4	1175.8	1072.1	742.5	395.4	229.9	119.8	80.5	65.7	56.0	52.8
32.5°	1261.5	1246.7	1115.3	766.9	370.9	199.6	103.0	70.8	59.9	52.8	49.6
35°	1340.0	1310.4	1177.1	782.4	358.0	182.2	92.7	64.4	50.2	43.1	39.3
37.5°	1427.6	1416.6	1251.2	781.7	339.4	171.9	85.6	59.9	47.7	39.9	35.4
40°	1517.1	1472.7	1296.2	799.8	329.7	164.2	80.5	57.3	45.1	38.0	32.2
42.5°	1584.1	1533.2	1348.4	793.3	318.1	150.7	78.6	53.4	43.1	34.8	29.6
45°	1602.1	1584.1	1395.4	791.4	309.7	139.7	75.3	52.8	41.9	32.8	27.7
47.5°	1636.9	1624.6	1453.4	794.6	303.3	131.4	67.6	54.1	39.9	30.9	26.4
50°	1652.3	1630.4	1500.4	802.3	288.5	121.1	60.5	56.7	39.3	30.3	25.1
52.5°	1716.1	1696.8	1564.8	824.2	276.2	107.5	53.4	54.1	40.6	28.3	23.8
55°	1778.5	1756.6	1663.9	874.5	258.9	96.6	45.7	47.7	38.6	25.8	21.2
57.5°	1864.2	1828.1	1730.2	895.1	243.4	81.8	40.6	39.3	36.1	23.2	18.7
60°	1877.1	1891.9	1720.6	882.2	227.3	72.1	35.4	30.3	38.6	20.6	16.1
62.5°	1920.2	1858.4	1675.5	852.6	215.7	66.3	31.6	25.1	33.5	18.0	13.5
65°	1837.1	1791.4	1569.9	757.3	200.9	67.0	27.7	20.6	21.2	14.8	10.9
67.5°	1715.4	1679.4	1394.8	653.6	186.1	65.7	24.5	18.0	16.1	12.9	9.7
70°	1505.5	1427.6	1184.8	530.6	164.2	61.2	20.6	16.1	13.5	10.3	7.1
72.5°	1095.3	1063.8	850.0	410.2	147.5	55.4	19.3	13.5	11.6	7.7	5.8
75°	737.3	685.1	536.4	269.2	118.5	48.3	16.1	12.2	9.0	5.8	4.5
77.5°	389.6	368.3	303.9	128.1	65.7	22.5	9.0	7.1	5.2	4.5	2.6
80°	168.7	150.0	131.4	52.2	23.2	10.3	5.8	3.9	3.2	2.6	1.3
82.5°	86.3	82.4	68.3	22.5	13.5	7.7	3.2	2.6	1.9	1.3	0.6
85°	42.5	43.8	36.1	7.1	7.7	4.5	0.6	0.6	0.0	0.0	0.0
87.5°	3.2	3.2	2.6	1.3	1.9	0.6	0.0	0.0	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: P677461

CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	799.1	808.1	792.7	802.3	797.8	799.8	801.7	796.5	797.8	815.9	816.5
5°	640.1	657.5	651.0	660.0	675.5	667.8	674.8	673.6	674.8	677.4	689.0
7.5°	456.5	451.4	463.6	487.5	515.1	531.9	523.5	519.0	516.4	510.0	517.7
10°	344.5	341.9	338.7	345.8	363.8	382.5	392.8	375.4	365.8	353.5	349.0
12.5°	285.9	269.8	260.8	249.8	255.0	271.7	272.4	255.6	240.2	233.7	240.8
15°	225.4	214.4	198.3	182.9	175.1	188.0	177.1	161.0	141.0	138.4	137.8
17.5°	161.0	154.5	143.0	136.5	127.5	124.3	112.7	88.2	74.1	70.2	71.5
20°	109.5	104.3	103.7	97.9	94.0	91.4	72.8	56.7	52.2	52.8	53.4
22.5°	81.1	78.6	75.3	74.7	71.5	68.3	53.4	47.7	44.4	44.4	46.4
25°	66.3	65.0	61.8	60.5	59.2	54.7	45.1	40.6	39.3	38.0	39.9
27.5°	56.7	56.0	54.1	52.2	50.9	46.4	39.3	35.4	34.1	34.1	34.1
30°	50.9	50.9	48.3	44.4	44.4	39.3	33.5	30.9	29.6	29.6	29.0
32.5°	47.7	46.4	43.1	40.6	38.6	33.5	29.6	27.0	25.1	25.1	25.8
35°	38.6	38.6	38.0	36.1	33.5	28.3	25.1	22.5	21.2	20.6	21.2
37.5°	34.1	32.2	29.6	30.3	29.0	24.5	21.2	19.3	17.4	17.4	17.4
40°	30.9	29.0	26.4	24.5	23.8	21.9	18.7	15.5	13.5	12.9	12.9
42.5°	27.7	26.4	22.5	19.3	18.7	18.7	14.2	11.6	9.7	9.7	9.7
45°	25.8	23.8	20.6	16.7	13.5	14.2	11.6	8.4	7.1	6.4	6.4
47.5°	24.5	22.5	18.0	14.2	10.3	10.3	8.4	5.8	4.5	3.9	3.9
50°	22.5	20.6	16.1	11.6	7.7	6.4	5.2	3.2	1.9	1.3	1.3
52.5°	21.2	19.3	14.2	9.7	6.4	4.5	3.2	0.6	0.0	0.0	0.0
55°	19.3	16.7	12.2	7.7	5.2	2.6	0.6	0.0	0.0	0.0	0.0
57.5°	16.7	14.8	9.7	5.8	3.2	0.6	0.0	0.0	0.0	0.0	0.0
60°	14.2	12.2	7.7	4.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11.6	10.3	5.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9.7	7.7	4.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6.4	4.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4.5	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P677461
 CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	819.1	838.4	856.4	861.6	875.7	915.0	915.0	933.7	967.2	979.4	982.0
5°	690.9	711.5	715.4	755.3	774.0	813.9	840.3	903.4	941.4	965.3	980.1
7.5°	525.4	532.5	547.3	584.7	621.4	669.7	719.9	800.4	867.4	894.4	944.6
10°	361.2	382.5	414.7	448.2	505.5	558.9	624.0	700.0	782.4	815.9	859.0
12.5°	243.4	273.0	324.5	372.2	425.0	479.1	540.9	642.6	736.0	782.4	825.5
15°	142.3	178.4	222.8	300.1	370.3	430.8	492.6	595.6	709.0	768.9	821.7
17.5°	72.1	83.1	119.8	186.7	279.5	378.6	470.7	602.1	729.6	803.0	846.8
20°	54.1	57.3	67.6	99.2	191.2	313.0	450.1	611.7	786.9	876.4	900.2
22.5°	47.0	49.6	54.1	64.4	107.5	239.5	421.1	635.6	864.8	949.2	999.4
25°	39.9	42.5	46.4	52.8	68.9	162.9	385.7	660.7	934.3	1040.6	1087.6
27.5°	34.8	36.7	40.6	45.7	56.0	103.7	324.5	694.2	1040.6	1151.3	1163.6
30°	29.6	31.6	34.8	40.6	47.7	73.4	238.3	698.7	1099.2	1199.6	1233.8
32.5°	25.8	26.4	30.3	35.4	39.9	58.0	167.4	703.2	1142.3	1262.1	1269.2
35°	21.2	22.5	26.4	29.6	34.8	45.7	126.9	680.6	1198.4	1326.5	1324.6
37.5°	17.4	19.3	21.9	24.5	28.3	38.6	101.1	638.8	1268.5	1426.3	1365.8
40°	13.5	15.5	18.0	21.2	23.8	34.8	76.0	575.7	1342.0	1475.2	1410.9
42.5°	9.7	10.9	13.5	16.7	21.2	29.0	54.7	501.0	1370.9	1532.6	1464.9
45°	7.1	8.4	10.3	14.2	21.9	23.2	38.0	432.7	1401.8	1557.7	1452.7
47.5°	3.9	5.2	7.7	12.2	19.3	17.4	27.0	371.5	1437.3	1580.2	1462.4
50°	1.3	1.9	4.5	12.9	15.5	13.5	21.2	338.7	1472.0	1584.7	1481.7
52.5°	0.0	0.0	2.6	13.5	11.6	10.3	18.7	325.8	1463.0	1598.9	1469.5
55°	0.0	0.0	0.6	5.8	6.4	7.7	15.5	325.2	1526.8	1603.4	1536.4
57.5°	0.0	0.0	0.0	1.9	3.9	6.4	13.5	304.6	1567.3	1715.4	1626.6
60°	0.0	0.0	0.0	0.6	2.6	4.5	10.3	286.5	1608.5	1765.7	1723.2
62.5°	0.0	0.0	0.0	0.0	0.6	1.9	7.1	258.9	1525.5	1761.8	1816.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	4.5	204.8	1372.2	1669.7	1765.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	141.7	1201.6	1553.8	1670.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.6	969.8	1362.6	1416.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.7	692.2	1081.8	1162.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	428.2	790.7	889.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	277.5	598.9	675.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	148.1	375.4	436.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4	228.0	262.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	138.4	157.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2	28.3
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: P677461

CATALOG NUMBER: CCW-SA-1C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	983.3	1002.0	1009.0	998.1	999.4	976.8	973.6	942.1	929.2	931.8
5°	1028.4	1055.4	1070.2	1058.0	1030.3	987.1	947.9	910.5	887.3	875.7
7.5°	1018.1	1048.3	1067.0	1078.6	1047.0	977.5	917.6	847.4	817.8	818.4
10°	961.4	1024.5	1062.5	1047.7	1032.9	963.3	870.6	794.6	768.2	770.8
12.5°	915.7	985.9	1008.4	1020.0	989.7	934.3	871.9	785.0	755.3	737.3
15°	887.3	939.5	940.8	958.8	946.6	946.6	885.4	800.4	774.6	754.7
17.5°	887.3	898.9	897.6	904.1	924.7	949.2	919.5	862.9	812.0	808.8
20°	907.3	871.2	862.9	865.4	882.8	955.6	994.9	924.0	891.8	881.5
22.5°	953.7	874.5	823.6	814.6	868.0	955.0	1043.2	1020.6	964.6	956.2
25°	1017.4	868.7	813.3	801.7	842.3	978.1	1109.5	1114.0	1063.1	1045.7
27.5°	1077.9	894.4	812.0	809.4	862.9	973.0	1155.2	1188.7	1131.4	1117.2
30°	1098.5	920.2	835.8	801.7	870.6	991.7	1153.9	1241.5	1204.2	1207.4
32.5°	1123.0	945.9	838.4	824.9	903.4	1021.9	1190.6	1326.5	1299.5	1261.5
35°	1159.1	980.7	862.9	850.6	926.6	1049.0	1198.4	1389.0	1384.5	1340.0
37.5°	1190.0	1014.8	913.7	915.7	997.5	1092.8	1232.5	1465.6	1457.9	1427.6
40°	1211.9	1062.5	992.9	998.1	1059.3	1141.7	1293.0	1504.2	1561.5	1517.1
42.5°	1215.1	1105.0	1083.7	1124.9	1182.3	1217.7	1317.5	1530.6	1613.0	1584.1
45°	1227.3	1172.6	1231.8	1262.1	1309.1	1284.6	1316.2	1575.7	1616.9	1602.1
47.5°	1275.0	1295.6	1370.3	1462.4	1479.1	1398.6	1347.1	1582.8	1638.8	1636.9
50°	1324.6	1427.6	1532.6	1593.7	1615.0	1477.2	1376.1	1577.0	1667.8	1652.3
52.5°	1379.9	1542.2	1693.5	1768.9	1757.3	1564.1	1408.9	1624.0	1721.2	1716.1
55°	1414.7	1593.7	1797.2	1902.2	1893.2	1661.3	1513.2	1691.6	1791.4	1778.5
57.5°	1506.8	1677.4	1900.2	1949.2	1973.0	1788.8	1586.0	1802.4	1850.0	1864.2
60°	1582.8	1732.2	1927.3	1998.1	2006.5	1864.8	1713.5	1916.3	1924.7	1877.1
62.5°	1694.2	1753.4	1870.0	1933.7	1976.9	1908.0	1828.1	1977.5	1923.4	1920.2
65°	1776.0	1683.9	1763.1	1798.5	1826.2	1842.3	1943.4	2019.4	1899.6	1837.1
67.5°	1730.2	1552.5	1537.7	1539.6	1548.0	1645.2	1904.8	1917.0	1766.9	1715.4
70°	1522.9	1273.7	1253.7	1269.2	1227.3	1344.5	1748.3	1742.5	1559.0	1505.5
72.5°	1231.8	928.5	894.4	915.7	925.3	1049.6	1470.7	1321.3	1137.2	1095.3
75°	978.8	680.6	574.4	625.9	658.7	764.3	1148.8	897.6	794.0	737.3
77.5°	768.9	515.1	446.9	426.3	456.5	555.7	835.8	471.4	416.0	389.6
80°	487.5	378.6	410.8	381.2	394.1	396.7	435.3	214.4	170.6	168.7
82.5°	293.6	258.9	307.8	169.4	308.4	275.6	180.9	97.2	86.3	86.3
85°	208.0	160.3	106.2	68.9	137.2	151.3	70.2	50.2	43.8	42.5
87.5°	104.3	49.6	23.8	15.5	17.4	28.3	8.4	3.9	3.9	3.2
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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