

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: P677494

Luminaire Tested: **CCW-SA-1C-840-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677494
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

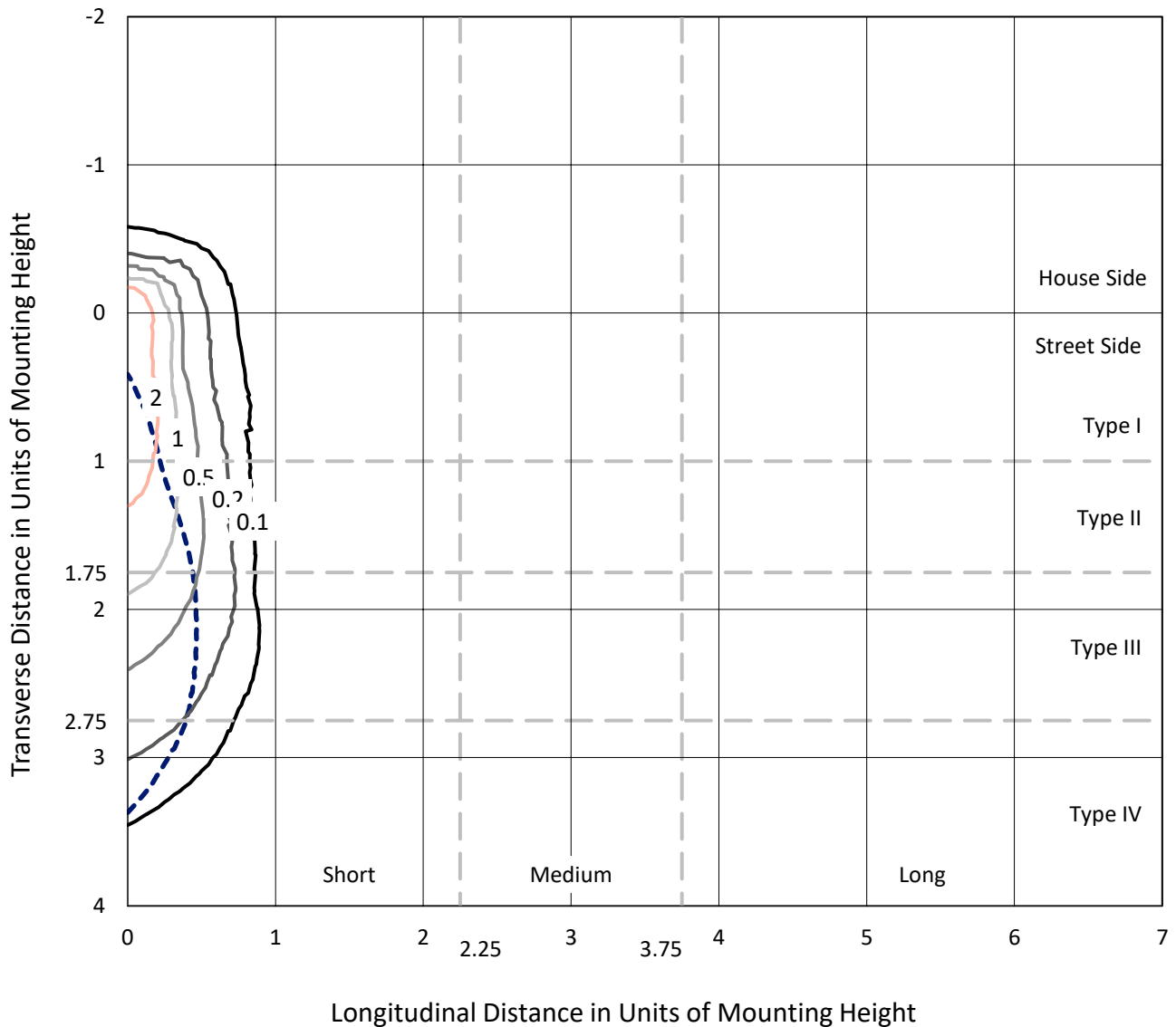
Lumens per Lamp: N/A
Luminaire Lumens: 2770.2 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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: P677494
 CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

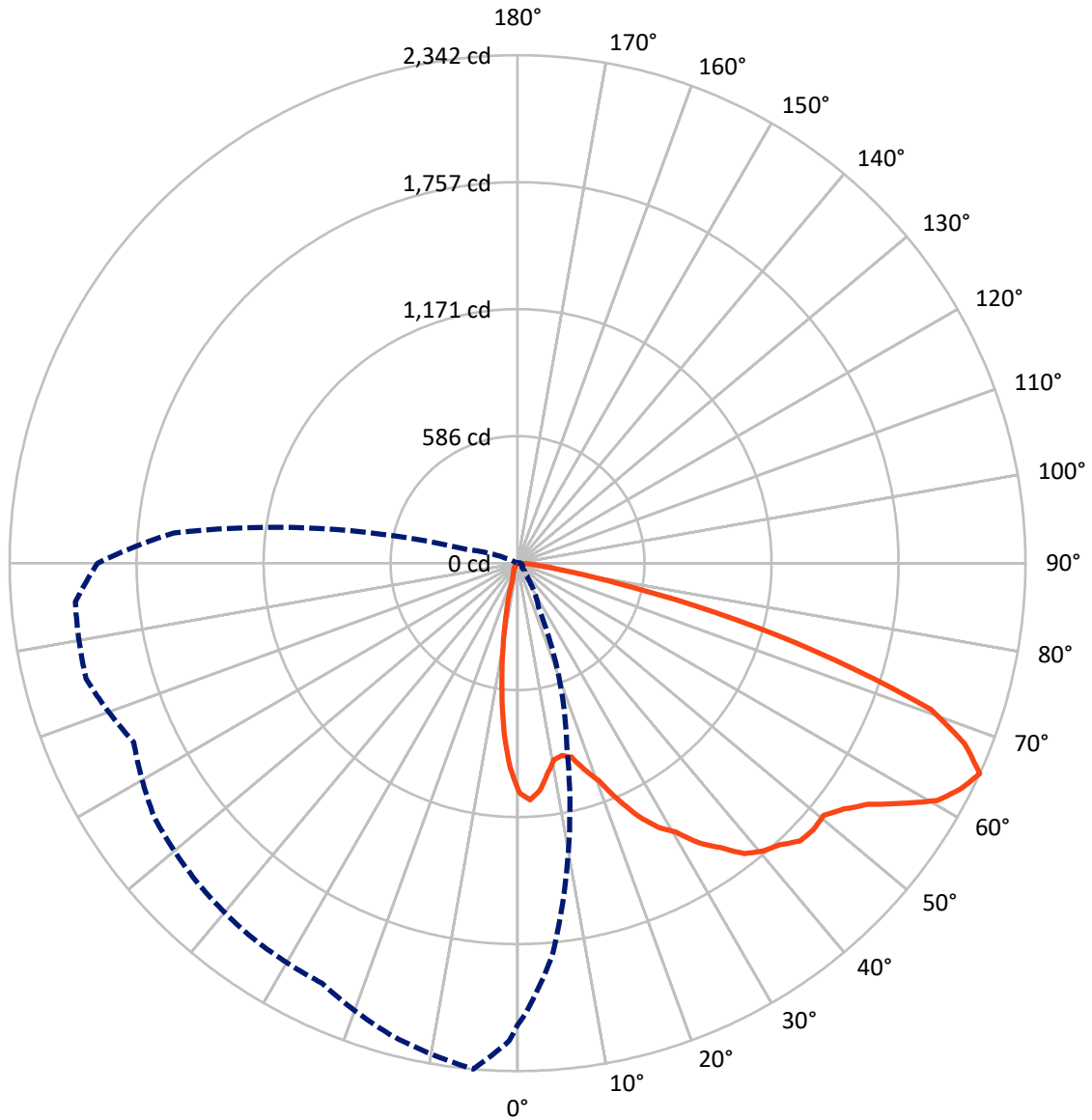
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P677494
CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677494

CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

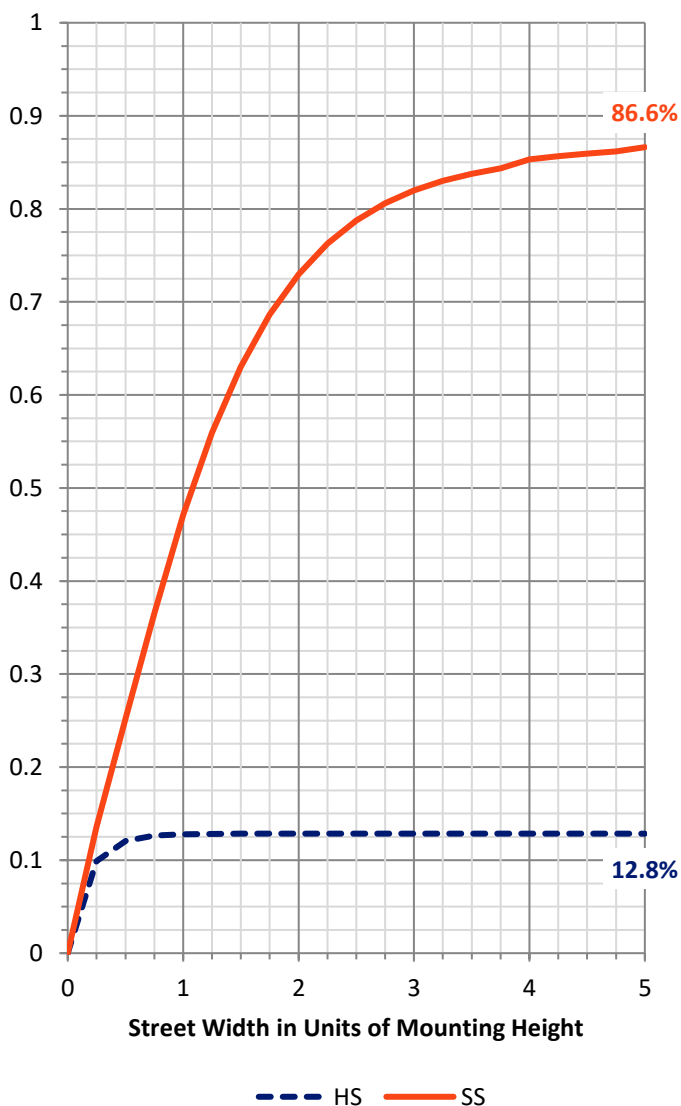
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	359.7	0.0	359.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	2410.5	0.0	2410.5
	% Fixture	87.0	0.0	87.0
Total	Lumens	2770.2	0.0	2770.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	2.9
10°-20°	155.3	5.6
20°-30°	216.4	7.8
30°-40°	307.4	11.1
40°-50°	426.3	15.4
50°-60°	580.9	21.0
60°-70°	638.6	23.1
70°-80°	313.9	11.3
80°-90°	51.3	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°	2770.2	100.0
0°-180°	2770.2	100.0



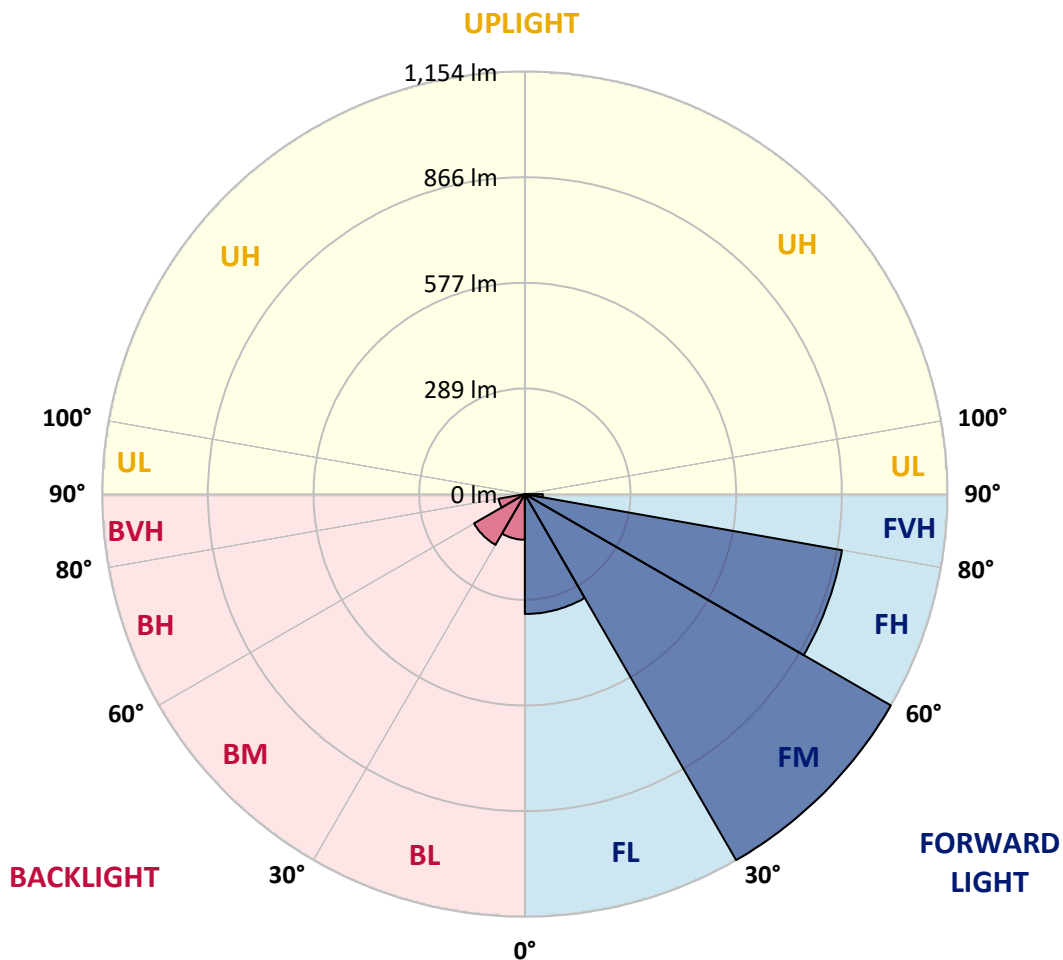
REPORT NUMBER: P677494
 CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.4	11.8			
FM (30°-60°)	1154.4	41.7			
FH (60°-80°)	879.8	31.8			G1/1800
FVH (80°-90°)	48.9	1.8			G1/100
BL (0°-30°)	124.5	4.5	B1/500		
BM (30°-60°)	160.1	5.8	B0/220		
BH (60°-80°)	72.7	2.6	B0/110		G0/110
BVH (80°-90°)	2.3	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 IV Short





REPORT NUMBER: P677494

CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1080.7	1093.4	1081.5	1039.6	1032.2	1012.0	981.4	979.1	947.0	950.8	933.6
5°	1015.7	1028.4	1003.0	947.8	896.2	855.2	830.5	786.4	776.7	755.1	755.1
7.5°	949.3	948.5	905.2	858.9	782.0	706.5	672.2	608.7	571.3	551.2	531.8
10°	894.0	882.0	855.2	759.6	675.9	597.5	554.9	513.1	474.3	440.6	407.0
12.5°	855.2	862.6	820.1	716.2	607.9	553.4	507.9	463.8	417.5	379.4	342.1
15°	875.3	863.4	813.3	706.5	596.7	522.1	461.6	407.8	356.3	306.2	277.8
17.5°	938.1	907.4	848.4	706.5	573.6	474.3	401.1	337.6	282.3	237.5	202.4
20°	1022.5	987.3	923.9	732.7	556.4	439.2	339.1	259.2	201.7	159.8	132.9
22.5°	1109.1	1081.5	985.9	743.1	536.2	392.1	267.4	187.5	134.4	107.5	94.1
25°	1212.9	1174.1	1069.5	784.9	506.4	346.5	210.6	130.7	100.1	85.9	77.7
27.5°	1295.8	1289.1	1147.9	810.3	484.0	309.2	166.5	103.8	82.9	72.4	67.2
30°	1400.4	1363.8	1243.5	861.1	458.6	266.6	138.9	93.4	76.2	65.0	61.2
32.5°	1463.1	1445.9	1293.6	889.5	430.2	231.5	119.5	82.2	69.5	61.2	57.5
35°	1554.2	1519.9	1365.3	907.4	415.3	211.4	107.5	74.7	58.3	50.0	45.6
37.5°	1655.8	1643.1	1451.1	906.7	393.6	199.4	99.3	69.5	55.3	46.3	41.1
40°	1759.6	1708.1	1503.4	927.6	382.4	190.4	93.4	66.5	52.3	44.1	37.3
42.5°	1837.3	1778.3	1563.9	920.1	368.9	174.8	91.1	62.0	50.0	40.3	34.4
45°	1858.2	1837.3	1618.4	917.9	359.2	162.1	87.4	61.2	48.5	38.1	32.1
47.5°	1898.5	1884.3	1685.7	921.6	351.8	152.4	78.4	62.7	46.3	35.8	30.6
50°	1916.4	1891.0	1740.2	930.6	334.6	140.4	70.2	65.7	45.6	35.1	29.1
52.5°	1990.4	1968.0	1814.9	956.0	320.4	124.7	62.0	62.7	47.1	32.9	27.6
55°	2062.8	2037.4	1929.9	1014.2	300.2	112.0	53.0	55.3	44.8	29.9	24.6
57.5°	2162.2	2120.3	2006.8	1038.1	282.3	94.9	47.1	45.6	41.8	26.9	21.7
60°	2177.1	2194.3	1995.6	1023.2	263.6	83.6	41.1	35.1	44.8	23.9	18.7
62.5°	2227.1	2155.4	1943.3	988.8	250.2	76.9	36.6	29.1	38.8	20.9	15.7
65°	2130.8	2077.8	1820.8	878.3	233.0	77.7	32.1	23.9	24.6	17.2	12.7
67.5°	1989.6	1947.8	1617.7	758.1	215.8	76.2	28.4	20.9	18.7	14.9	11.2
70°	1746.2	1655.8	1374.2	615.4	190.4	71.0	23.9	18.7	15.7	11.9	8.2
72.5°	1270.4	1233.8	985.9	475.7	171.0	64.2	22.4	15.7	13.4	9.0	6.7
75°	855.2	794.7	622.1	312.2	137.4	56.0	18.7	14.2	10.5	6.7	5.2
77.5°	451.8	427.2	352.5	148.6	76.2	26.1	10.5	8.2	6.0	5.2	3.0
80°	195.7	174.0	152.4	60.5	26.9	11.9	6.7	4.5	3.7	3.0	1.5
82.5°	100.1	95.6	79.2	26.1	15.7	9.0	3.7	3.0	2.2	1.5	0.7
85°	49.3	50.8	41.8	8.2	9.0	5.2	0.7	0.7	0.0	0.0	0.0
87.5°	3.7	3.7	3.0	1.5	2.2	0.7	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: P677494
 CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	926.9	937.3	919.4	930.6	925.4	927.6	929.8	923.9	925.4	946.3	947.0
5°	742.4	762.5	755.1	765.5	783.5	774.5	782.7	781.2	782.7	785.7	799.1
7.5°	529.5	523.5	537.7	565.4	597.5	616.9	607.2	602.0	599.0	591.5	600.5
10°	399.6	396.6	392.8	401.1	422.0	443.6	455.6	435.4	424.2	410.0	404.8
12.5°	331.6	312.9	302.5	289.8	295.8	315.2	315.9	296.5	278.6	271.1	279.3
15°	261.4	248.7	230.0	212.1	203.1	218.1	205.4	186.7	163.6	160.6	159.8
17.5°	186.7	179.2	165.8	158.3	147.9	144.1	130.7	102.3	85.9	81.4	82.9
20°	127.0	121.0	120.2	113.5	109.0	106.1	84.4	65.7	60.5	61.2	62.0
22.5°	94.1	91.1	87.4	86.6	82.9	79.2	62.0	55.3	51.5	51.5	53.8
25°	76.9	75.4	71.7	70.2	68.7	63.5	52.3	47.1	45.6	44.1	46.3
27.5°	65.7	65.0	62.7	60.5	59.0	53.8	45.6	41.1	39.6	39.6	39.6
30°	59.0	59.0	56.0	51.5	51.5	45.6	38.8	35.8	34.4	34.4	33.6
32.5°	55.3	53.8	50.0	47.1	44.8	38.8	34.4	31.4	29.1	29.1	29.9
35°	44.8	44.8	44.1	41.8	38.8	32.9	29.1	26.1	24.6	23.9	24.6
37.5°	39.6	37.3	34.4	35.1	33.6	28.4	24.6	22.4	20.2	20.2	20.2
40°	35.8	33.6	30.6	28.4	27.6	25.4	21.7	17.9	15.7	14.9	14.9
42.5°	32.1	30.6	26.1	22.4	21.7	21.7	16.4	13.4	11.2	11.2	11.2
45°	29.9	27.6	23.9	19.4	15.7	16.4	13.4	9.7	8.2	7.5	7.5
47.5°	28.4	26.1	20.9	16.4	11.9	11.9	9.7	6.7	5.2	4.5	4.5
50°	26.1	23.9	18.7	13.4	9.0	7.5	6.0	3.7	2.2	1.5	1.5
52.5°	24.6	22.4	16.4	11.2	7.5	5.2	3.7	0.7	0.0	0.0	0.0
55°	22.4	19.4	14.2	9.0	6.0	3.0	0.7	0.0	0.0	0.0	0.0
57.5°	19.4	17.2	11.2	6.7	3.7	0.7	0.0	0.0	0.0	0.0	0.0
60°	16.4	14.2	9.0	5.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13.4	11.9	6.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11.2	9.0	5.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9.7	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.5	5.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.2	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.7	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: P677494
 CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	950.0	972.4	993.3	999.3	1015.7	1061.3	1061.3	1082.9	1121.8	1136.0	1139.0
5°	801.4	825.3	829.8	876.1	897.7	944.0	974.7	1047.8	1091.9	1119.5	1136.7
7.5°	609.4	617.7	634.8	678.1	720.7	776.7	835.0	928.3	1006.0	1037.4	1095.6
10°	419.0	443.6	481.0	519.8	586.3	648.3	723.7	811.8	907.4	946.3	996.3
12.5°	282.3	316.7	376.4	431.7	492.9	555.7	627.4	745.4	853.7	907.4	957.5
15°	165.1	206.9	258.4	348.0	429.4	499.6	571.3	690.8	822.3	891.7	953.0
17.5°	83.6	96.3	138.9	216.6	324.1	439.2	546.0	698.3	846.2	931.3	982.1
20°	62.7	66.5	78.4	115.0	221.8	363.0	522.1	709.5	912.7	1016.5	1044.1
22.5°	54.5	57.5	62.7	74.7	124.7	277.8	488.4	737.2	1003.0	1100.9	1159.1
25°	46.3	49.3	53.8	61.2	79.9	189.0	447.4	766.3	1083.7	1206.9	1261.4
27.5°	40.3	42.6	47.1	53.0	65.0	120.2	376.4	805.1	1206.9	1335.4	1349.6
30°	34.4	36.6	40.3	47.1	55.3	85.1	276.3	810.3	1274.9	1391.4	1431.0
32.5°	29.9	30.6	35.1	41.1	46.3	67.2	194.2	815.6	1324.9	1463.8	1472.1
35°	24.6	26.1	30.6	34.4	40.3	53.0	147.1	789.4	1389.9	1538.5	1536.3
37.5°	20.2	22.4	25.4	28.4	32.9	44.8	117.3	740.9	1471.3	1654.3	1584.1
40°	15.7	17.9	20.9	24.6	27.6	40.3	88.1	667.7	1556.5	1711.1	1636.4
42.5°	11.2	12.7	15.7	19.4	24.6	33.6	63.5	581.1	1590.1	1777.5	1699.1
45°	8.2	9.7	11.9	16.4	25.4	26.9	44.1	501.9	1625.9	1806.7	1684.9
47.5°	4.5	6.0	9.0	14.2	22.4	20.2	31.4	430.9	1667.0	1832.8	1696.1
50°	1.5	2.2	5.2	14.9	17.9	15.7	24.6	392.8	1707.3	1838.0	1718.5
52.5°	0.0	0.0	3.0	15.7	13.4	11.9	21.7	377.9	1696.9	1854.5	1704.3
55°	0.0	0.0	0.7	6.7	7.5	9.0	17.9	377.2	1770.8	1859.7	1782.0
57.5°	0.0	0.0	0.0	2.2	4.5	7.5	15.7	353.3	1817.9	1989.6	1886.6
60°	0.0	0.0	0.0	0.7	3.0	5.2	11.9	332.4	1865.7	2047.9	1998.6
62.5°	0.0	0.0	0.0	0.0	0.7	2.2	8.2	300.2	1769.3	2043.4	2106.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	237.5	1591.6	1936.6	2047.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	164.3	1393.6	1802.2	1937.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.3	1124.8	1580.4	1643.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.6	802.9	1254.7	1348.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	496.7	917.1	1032.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	321.9	694.6	783.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	171.8	435.4	506.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.7	264.4	304.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	160.6	183.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	32.9
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: P677494

CATALOG NUMBER: CCW-SA-1C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1140.5	1162.1	1170.3	1157.6	1159.1	1133.0	1129.3	1092.7	1077.7	1080.7
5°	1192.7	1224.1	1241.3	1227.1	1195.0	1144.9	1099.4	1056.1	1029.2	1015.7
7.5°	1180.8	1215.9	1237.5	1251.0	1214.4	1133.7	1064.3	982.9	948.5	949.3
10°	1115.1	1188.3	1232.3	1215.1	1198.0	1117.3	1009.8	921.6	891.0	894.0
12.5°	1062.0	1143.4	1169.6	1183.0	1147.9	1083.7	1011.2	910.4	876.1	855.2
15°	1029.2	1089.7	1091.2	1112.1	1097.9	1097.9	1026.9	928.3	898.5	875.3
17.5°	1029.2	1042.6	1041.1	1048.6	1072.5	1100.9	1066.5	1000.8	941.8	938.1
20°	1052.3	1010.5	1000.8	1003.8	1023.9	1108.3	1153.9	1071.7	1034.4	1022.5
22.5°	1106.1	1014.2	955.2	944.8	1006.8	1107.6	1209.9	1183.8	1118.8	1109.1
25°	1180.0	1007.5	943.3	929.8	976.9	1134.5	1286.8	1292.1	1233.1	1212.9
27.5°	1250.2	1037.4	941.8	938.8	1000.8	1128.5	1339.9	1378.7	1312.2	1295.8
30°	1274.1	1067.3	969.4	929.8	1009.8	1150.2	1338.4	1439.9	1396.6	1400.4
32.5°	1302.5	1097.1	972.4	956.7	1047.8	1185.3	1380.9	1538.5	1507.2	1463.1
35°	1344.3	1137.5	1000.8	986.6	1074.7	1216.6	1389.9	1611.0	1605.7	1554.2
37.5°	1380.2	1177.1	1059.8	1062.0	1156.9	1267.4	1429.5	1699.9	1690.9	1655.8
40°	1405.6	1232.3	1151.7	1157.6	1228.6	1324.2	1499.7	1744.7	1811.1	1759.6
42.5°	1409.3	1281.6	1257.0	1304.8	1371.2	1412.3	1528.1	1775.3	1870.9	1837.3
45°	1423.5	1360.0	1428.7	1463.8	1518.4	1490.0	1526.6	1827.6	1875.4	1858.2
47.5°	1478.8	1502.7	1589.3	1696.1	1715.5	1622.2	1562.4	1835.8	1900.8	1898.5
50°	1536.3	1655.8	1777.5	1848.5	1873.1	1713.3	1596.0	1829.1	1934.4	1916.4
52.5°	1600.5	1788.7	1964.2	2051.6	2038.2	1814.1	1634.1	1883.6	1996.4	1990.4
55°	1640.8	1848.5	2084.5	2206.2	2195.8	1926.9	1755.1	1962.0	2077.8	2062.8
57.5°	1747.7	1945.6	2204.0	2260.7	2288.4	2074.8	1839.5	2090.5	2145.7	2162.2
60°	1835.8	2009.1	2235.3	2317.5	2327.2	2162.9	1987.4	2222.7	2232.4	2177.1
62.5°	1965.0	2033.7	2168.9	2242.8	2292.9	2212.9	2120.3	2293.6	2230.9	2227.1
65°	2059.8	1953.0	2044.9	2086.0	2118.1	2136.8	2254.0	2342.2	2203.2	2130.8
67.5°	2006.8	1800.7	1783.5	1785.7	1795.4	1908.2	2209.2	2223.4	2049.4	1989.6
70°	1766.3	1477.3	1454.1	1472.1	1423.5	1559.4	2027.7	2021.0	1808.1	1746.2
72.5°	1428.7	1077.0	1037.4	1062.0	1073.2	1217.4	1705.8	1532.6	1319.0	1270.4
75°	1135.2	789.4	666.2	725.9	764.0	886.5	1332.4	1041.1	920.9	855.2
77.5°	891.7	597.5	518.3	494.4	529.5	644.5	969.4	546.7	482.5	451.8
80°	565.4	439.2	476.5	442.1	457.1	460.1	504.9	248.7	197.9	195.7
82.5°	340.6	300.2	357.0	196.4	357.7	319.7	209.9	112.8	100.1	100.1
85°	241.2	186.0	123.2	79.9	159.1	175.5	81.4	58.3	50.8	49.3
87.5°	121.0	57.5	27.6	17.9	20.2	32.9	9.7	4.5	4.5	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)