

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: P677365

Luminaire Tested: **CCW-SA-2A-850-U-SLL-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P677365
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

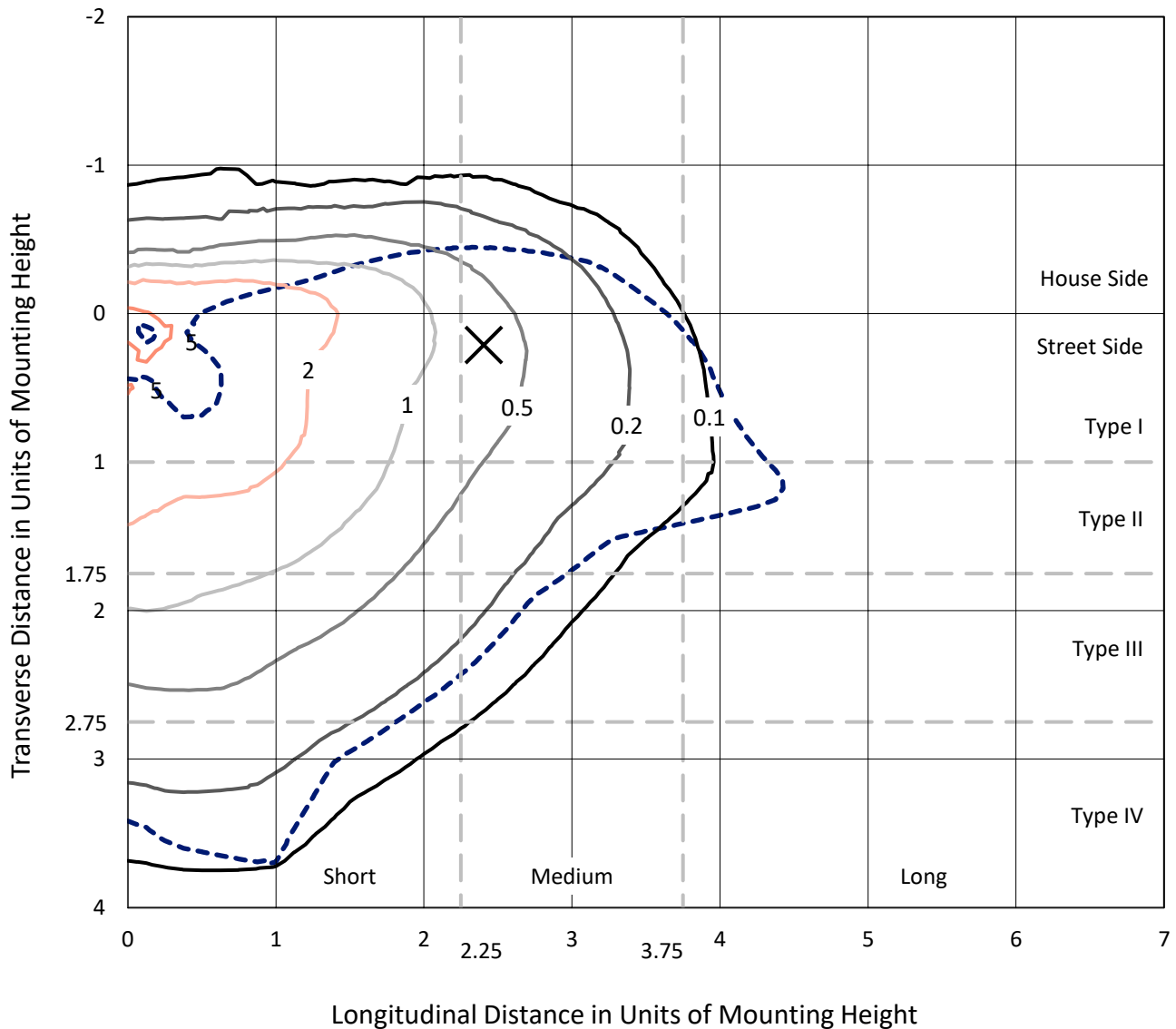
Lumens per Lamp: N/A
Luminaire Lumens: 3464.2 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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: P677365
 CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

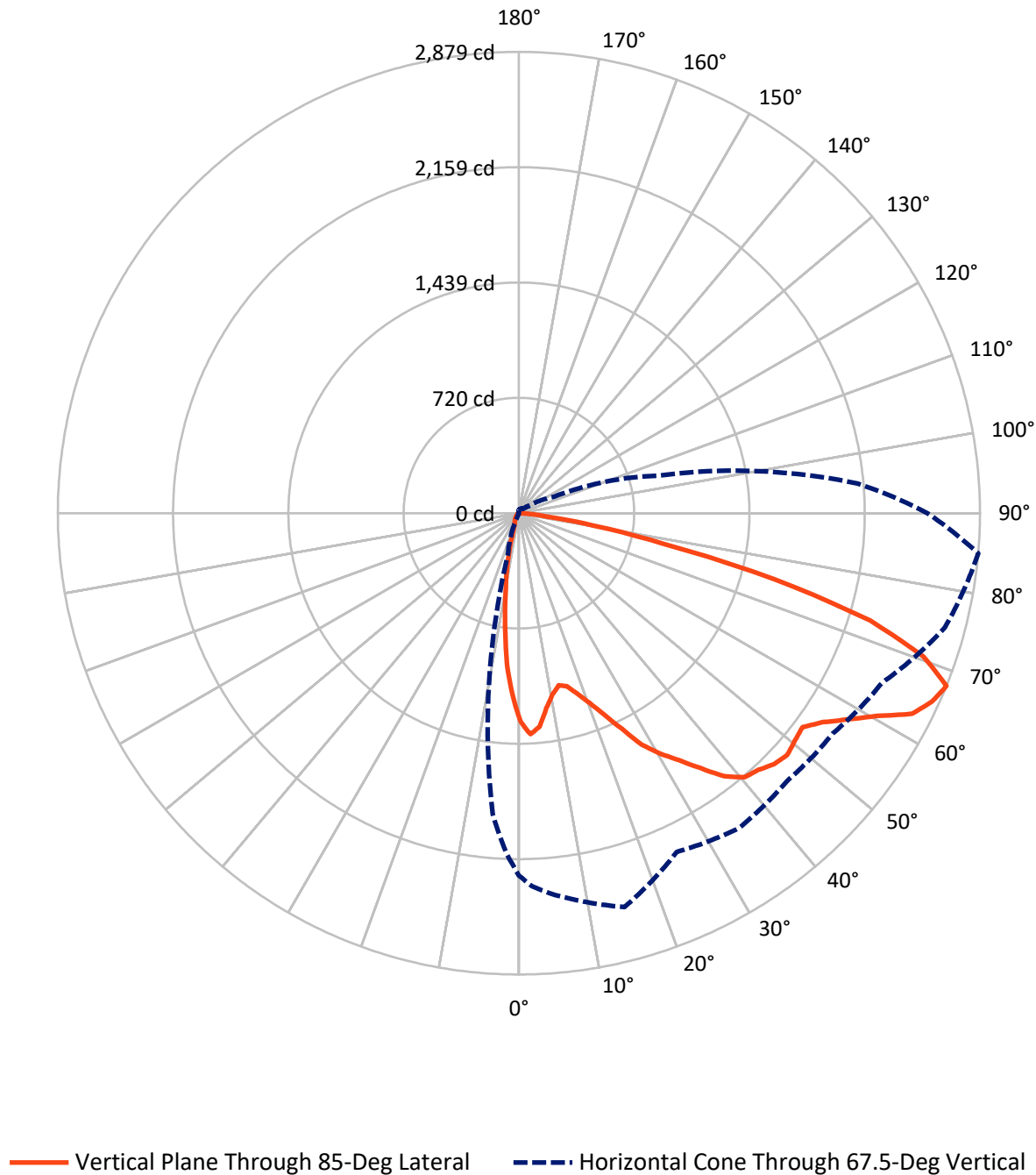
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P677365
CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P677365

CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

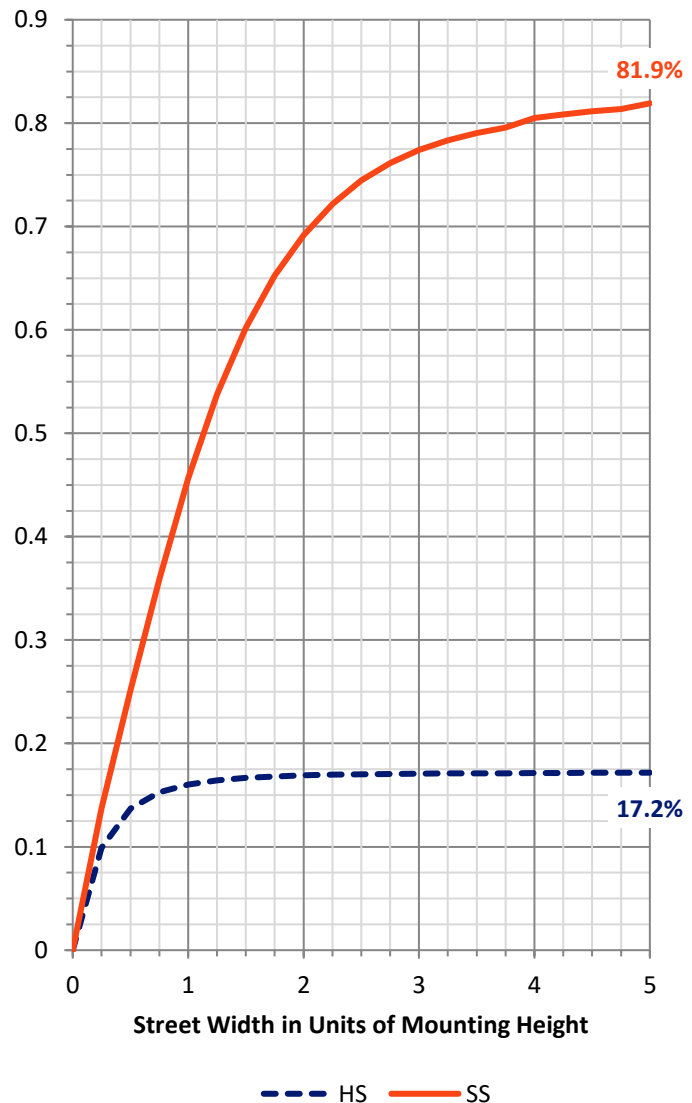
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	601.5	0.0	601.5
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	2862.6	0.0	2862.6
	% Fixture	82.6	0.0	82.6
Total	Lumens	3464.2	0.0	3464.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	2.9
10°-20°	194.0	5.6
20°-30°	268.5	7.8
30°-40°	379.5	11.0
40°-50°	516.7	14.9
50°-60°	684.3	19.8
60°-70°	794.5	22.9
70°-80°	449.9	13.0
80°-90°	77.7	2.2
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°	3464.2	100.0
0°-180°	3464.2	100.0

Coefficient of Utilization



REPORT NUMBER: P677365

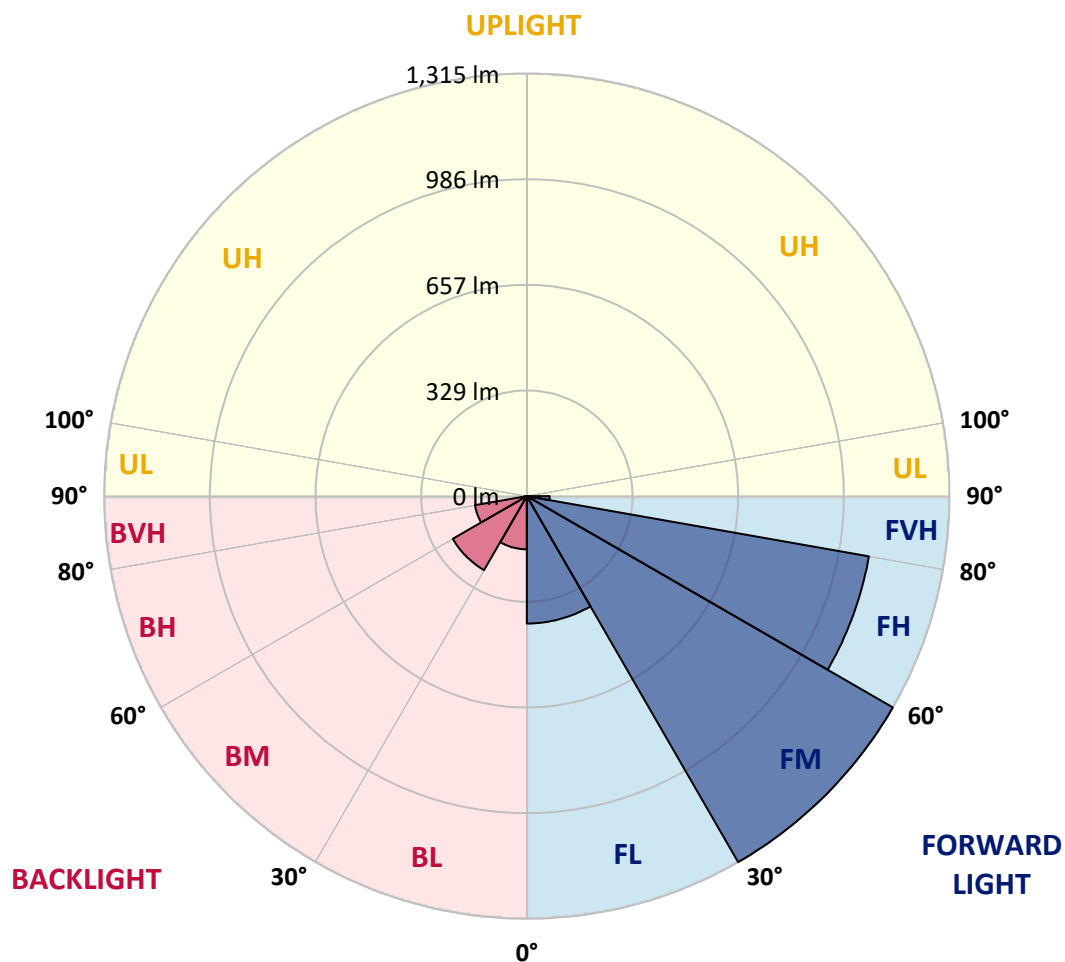
CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.1	11.4			
FM	(30°-60°)	1314.7	38.0			
FH	(60°-80°)	1080.6	31.2			G1/1800
FVH	(80°-90°)	71.2	2.1			G1/100
BL	(0°-30°)	165.4	4.8	B1/500		
BM	(30°-60°)	265.8	7.7	B1/1000		
BH	(60°-80°)	163.8	4.7	B1/500		G1/500
BVH	(80°-90°)	6.6	0.2			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 III Medium



REPORT NUMBER: P677365

CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1353.4	1382.0	1383.0	1395.9	1408.9	1408.9	1439.4	1432.0	1405.2	1400.5	1381.1
5°	1363.5	1373.7	1381.1	1446.8	1502.3	1496.7	1513.4	1502.3	1450.5	1383.9	1338.6
7.5°	1275.7	1286.8	1316.4	1428.3	1503.2	1528.2	1559.7	1490.3	1435.7	1315.4	1228.5
10°	1159.1	1180.4	1235.0	1362.6	1455.1	1534.7	1534.7	1479.2	1373.7	1256.2	1149.9
12.5°	1094.3	1136.9	1166.5	1296.0	1416.3	1470.8	1469.0	1439.4	1370.9	1222.9	1102.7
15°	1105.4	1117.5	1180.4	1281.2	1360.8	1358.0	1391.3	1382.0	1333.9	1252.5	1120.2
17.5°	1156.3	1174.8	1229.4	1281.2	1319.1	1308.0	1307.1	1351.5	1354.3	1302.5	1185.9
20°	1239.6	1294.2	1320.1	1335.8	1289.5	1242.4	1236.8	1298.8	1346.9	1366.3	1264.6
22.5°	1372.8	1408.9	1461.6	1381.1	1260.9	1201.7	1190.6	1259.0	1356.1	1442.2	1366.3
25°	1503.2	1531.0	1581.9	1478.2	1293.2	1193.3	1173.9	1233.1	1391.3	1547.6	1489.3
27.5°	1641.1	1665.1	1670.7	1549.5	1310.8	1176.7	1153.6	1233.1	1420.9	1603.1	1636.4
30°	1725.2	1753.9	1759.5	1612.4	1339.5	1190.6	1179.5	1238.7	1441.2	1650.3	1741.9
32.5°	1819.6	1827.0	1822.4	1623.5	1370.9	1231.3	1185.0	1275.7	1464.4	1706.7	1838.1
35°	1932.5	1945.4	1898.2	1674.4	1441.2	1257.2	1240.5	1321.0	1504.1	1732.6	1954.7
37.5°	2018.5	2059.2	1952.8	1693.8	1455.1	1311.7	1314.5	1415.3	1531.9	1764.1	2083.2
40°	2180.4	2111.9	2045.3	1760.4	1507.8	1404.2	1389.4	1512.5	1625.3	1784.4	2167.4
42.5°	2269.2	2233.1	2081.4	1766.9	1589.3	1531.9	1535.6	1622.6	1674.4	1841.8	2190.5
45°	2291.4	2253.4	2130.4	1771.5	1669.7	1682.7	1746.5	1763.2	1746.5	1879.7	2234.0
47.5°	2347.8	2265.5	2124.9	1833.5	1800.2	1850.1	1931.5	1967.6	1844.6	1865.8	2254.4
50°	2336.7	2289.5	2112.8	1859.4	1959.3	2091.6	2146.1	2131.3	1953.7	1837.2	2232.2
52.5°	2290.5	2239.6	2149.8	1929.7	2108.2	2268.2	2344.1	2307.1	2050.9	1901.9	2217.4
55°	2358.0	2319.1	2197.9	2025.0	2220.1	2423.7	2477.3	2449.6	2170.2	1962.1	2301.6
57.5°	2431.1	2422.7	2328.4	2136.9	2352.4	2583.7	2583.7	2549.5	2273.8	2049.0	2426.4
60°	2536.5	2555.0	2424.6	2210.9	2397.8	2574.4	2708.6	2668.8	2378.3	2201.6	2568.0
62.5°	2502.3	2561.5	2548.5	2370.0	2449.6	2619.8	2692.9	2722.5	2507.8	2387.6	2756.7
65°	2392.2	2455.1	2547.6	2474.5	2410.7	2509.7	2546.7	2636.4	2572.6	2562.4	2834.4
67.5°	2260.8	2329.3	2386.7	2544.8	2332.1	2397.8	2365.4	2394.1	2502.3	2753.9	2878.8
70°	1974.1	2039.8	2130.4	2388.5	2123.9	2064.7	2056.4	2042.5	2210.9	2685.5	2677.1
72.5°	1623.5	1654.0	1803.9	1941.7	1571.7	1560.6	1573.5	1557.8	1753.0	2431.1	2293.2
75°	1215.5	1246.1	1331.2	1491.2	1070.3	1006.5	1080.5	1153.6	1338.6	1887.1	1647.5
77.5°	914.0	952.8	1006.5	1115.6	785.4	685.5	695.6	765.0	967.6	1511.5	923.2
80°	593.0	588.3	691.9	767.8	591.1	609.6	583.7	634.6	701.2	808.5	471.8
82.5°	342.3	346.9	390.4	440.3	411.7	470.9	339.5	567.1	500.5	329.3	175.8
85°	192.4	200.7	240.5	305.3	258.1	173.0	141.5	281.2	314.5	135.1	85.1
87.5°	19.4	16.7	32.4	115.6	70.3	28.7	42.6	67.5	75.9	50.9	25.0
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: P677365

CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1353.4	1353.4	1330.2	1291.4	1275.7	1247.9	1210.0	1222.0	1209.1	1161.9	1149.9
5°	1297.9	1253.5	1205.4	1146.2	1111.9	1041.6	1019.4	979.6	986.1	946.3	948.2
7.5°	1182.2	1147.1	1065.7	988.0	920.4	859.4	773.4	741.0	709.5	693.8	712.3
10°	1114.7	1049.0	938.0	836.3	746.5	691.9	634.6	590.2	549.5	519.0	512.5
12.5°	1065.7	1007.4	873.3	749.3	679.0	634.6	581.9	520.8	481.0	428.3	412.6
15°	1050.9	979.6	838.1	715.1	646.6	573.5	513.4	453.3	401.5	346.0	326.5
17.5°	1101.7	1019.4	837.2	687.3	591.1	512.5	429.2	361.7	309.0	258.1	246.1
20°	1187.8	1062.0	864.0	670.7	538.4	432.9	338.6	271.0	211.8	178.5	170.2
22.5°	1285.8	1134.1	866.8	626.3	485.7	353.4	247.0	178.5	145.2	129.5	124.9
25°	1406.1	1249.8	900.1	590.2	423.7	268.3	175.8	136.9	117.5	108.2	106.4
27.5°	1505.1	1330.2	936.2	552.3	362.6	198.9	137.8	111.9	101.8	92.5	91.6
30°	1607.8	1422.7	946.3	529.1	309.9	163.7	118.4	99.0	87.9	83.3	82.3
32.5°	1697.5	1523.6	978.7	491.2	259.9	144.3	107.3	88.8	81.4	74.0	73.1
35°	1813.1	1581.9	994.4	470.9	241.4	130.4	98.1	81.4	70.3	65.7	63.8
37.5°	1937.1	1638.3	1004.6	455.1	225.7	122.1	92.5	76.8	66.6	60.1	58.3
40°	2052.7	1717.8	989.8	435.7	213.7	111.9	88.8	71.2	62.0	55.5	52.7
42.5°	2141.5	1795.5	985.2	417.2	200.7	108.2	84.2	68.5	58.3	50.9	50.0
45°	2191.5	1848.3	952.8	402.4	190.6	110.1	82.3	64.8	55.5	49.0	45.3
47.5°	2179.4	1889.0	961.1	397.8	176.7	102.7	81.4	62.0	50.9	45.3	42.6
50°	2246.0	1971.3	947.3	383.0	166.5	92.5	88.8	62.0	50.0	43.5	40.7
52.5°	2257.1	2046.2	976.9	356.1	150.8	85.1	87.9	61.1	48.1	41.6	37.9
55°	2349.7	2133.2	1034.2	341.3	137.8	74.0	80.5	59.2	43.5	37.9	36.1
57.5°	2475.5	2313.6	1071.2	327.5	120.3	64.8	67.5	58.3	39.8	35.2	32.4
60°	2596.6	2385.7	1074.0	302.5	103.6	58.3	52.7	58.3	37.0	31.5	28.7
62.5°	2687.3	2385.7	1055.5	281.2	90.7	51.8	46.3	55.5	33.3	27.8	25.9
65°	2638.3	2321.9	1007.4	263.6	82.3	45.3	39.8	42.6	29.6	24.1	22.2
67.5°	2550.4	2123.0	901.0	242.4	81.4	39.8	34.2	31.5	25.9	21.3	19.4
70°	2409.8	1854.7	750.2	218.3	79.6	36.1	30.5	26.8	23.1	18.5	16.7
72.5°	1941.7	1531.9	616.1	204.4	77.7	31.5	25.9	23.1	19.4	15.7	13.9
75°	1345.0	978.7	474.6	174.8	75.9	28.7	24.1	20.4	16.7	13.0	12.0
77.5°	806.7	654.0	306.2	131.4	50.0	23.1	20.4	15.7	13.9	11.1	10.2
80°	377.4	309.0	124.0	50.9	24.1	16.7	13.9	12.0	11.1	9.3	8.3
82.5°	148.0	130.4	60.1	29.6	19.4	13.0	11.1	10.2	9.3	7.4	6.5
85°	79.6	70.3	28.7	20.4	13.9	9.3	9.3	8.3	7.4	6.5	5.6
87.5°	17.6	13.0	12.0	12.0	10.2	7.4	7.4	6.5	5.6	4.6	3.7
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: P677365

CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1143.4	1157.3	1135.0	1148.9	1129.5	1144.3	1146.2	1132.3	1136.0	1154.5	1162.8
5°	974.1	964.8	944.5	938.0	938.9	926.9	931.5	938.0	948.2	953.7	970.4
7.5°	702.1	723.4	722.5	738.2	739.1	737.3	724.3	696.6	705.8	698.4	707.7
10°	502.3	511.6	529.1	539.3	557.8	547.6	518.0	506.9	501.4	500.5	509.7
12.5°	401.5	379.3	377.4	381.1	390.4	378.3	363.5	350.6	357.1	370.0	380.2
15°	310.8	292.3	268.3	264.6	266.4	260.9	245.1	228.5	233.1	246.1	253.5
17.5°	238.7	217.4	200.7	189.6	185.9	166.5	143.4	129.5	125.8	124.9	131.4
20°	161.0	157.3	154.5	140.6	140.6	112.9	93.4	83.3	83.3	85.1	86.0
22.5°	120.3	115.6	116.6	113.8	106.4	84.2	74.0	71.2	71.2	73.1	73.1
25°	104.5	98.1	96.2	95.3	87.9	72.2	64.8	62.0	62.0	63.8	63.8
27.5°	88.8	87.0	84.2	80.5	74.0	62.0	57.4	54.6	55.5	56.4	55.5
30°	81.4	76.8	73.1	73.1	65.7	55.5	51.8	50.0	48.1	50.0	50.9
32.5°	72.2	69.4	67.5	64.8	56.4	49.0	45.3	43.5	42.6	42.6	43.5
35°	62.0	62.0	60.1	56.4	49.0	44.4	39.8	37.9	37.0	37.9	37.9
37.5°	55.5	52.7	53.7	50.0	43.5	38.9	34.2	32.4	32.4	31.5	32.4
40°	51.8	47.2	44.4	42.6	38.9	33.3	29.6	27.8	26.8	26.8	26.8
42.5°	46.3	42.6	37.0	36.1	35.2	28.7	24.1	23.1	22.2	21.3	21.3
45°	43.5	37.9	33.3	28.7	28.7	24.1	20.4	18.5	17.6	16.7	17.6
47.5°	39.8	34.2	28.7	24.1	23.1	19.4	15.7	13.9	13.0	13.0	13.0
50°	37.9	30.5	25.0	20.4	17.6	15.7	12.0	10.2	9.3	9.3	9.3
52.5°	35.2	28.7	22.2	17.6	13.9	12.0	9.3	7.4	6.5	6.5	6.5
55°	31.5	25.9	19.4	14.8	12.0	9.3	6.5	4.6	3.7	3.7	3.7
57.5°	29.6	23.1	16.7	13.0	9.3	6.5	3.7	2.8	2.8	1.9	2.8
60°	26.8	20.4	13.9	10.2	7.4	4.6	2.8	0.9	0.9	0.9	0.9
62.5°	23.1	17.6	12.0	8.3	5.6	2.8	0.9	0.0	0.0	0.0	0.0
65°	19.4	13.9	9.3	6.5	3.7	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	16.7	12.0	7.4	4.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	14.8	10.2	5.6	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12.0	8.3	4.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	10.2	6.5	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.3	4.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.5	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.9	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: P677365

CATALOG NUMBER: CCW-SA-2A-850-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1174.8	1169.3	1197.0	1242.4	1265.5	1310.8	1321.9	1350.6	1343.2	1353.4
5°	972.2	983.3	1024.0	1090.6	1114.7	1180.4	1242.4	1304.3	1344.1	1363.5
7.5°	721.5	758.5	808.5	869.6	931.5	1017.6	1123.0	1195.2	1234.0	1275.7
10°	537.5	577.2	634.6	694.7	795.6	891.8	997.2	1086.9	1120.2	1159.1
12.5°	422.8	484.7	551.3	616.1	676.2	767.8	898.2	1028.7	1064.7	1094.3
15°	294.2	370.0	465.3	549.5	633.7	713.2	848.3	1006.5	1055.5	1105.4
17.5°	162.8	222.9	332.1	450.5	574.5	696.6	864.9	1047.2	1121.2	1156.3
20°	94.4	118.4	196.1	336.7	500.5	660.5	873.3	1123.9	1222.0	1239.6
22.5°	77.7	86.0	111.0	210.9	409.8	637.4	915.8	1231.3	1331.2	1372.8
25°	66.6	73.1	86.0	126.7	309.9	588.3	942.6	1365.4	1457.9	1503.2
27.5°	59.2	65.7	75.9	93.4	210.9	520.8	987.0	1486.6	1579.1	1641.1
30°	51.8	57.4	67.5	79.6	146.2	445.0	1025.0	1575.4	1705.8	1725.2
32.5°	46.3	50.9	58.3	68.5	108.2	337.6	1055.5	1667.0	1777.0	1819.6
35°	39.8	45.3	50.0	58.3	82.3	254.4	1037.0	1738.2	1881.6	1932.5
37.5°	35.2	38.9	43.5	49.0	69.4	198.9	999.1	1823.3	1971.3	2018.5
40°	29.6	32.4	37.9	43.5	62.9	153.6	955.6	1926.0	2097.1	2180.4
42.5°	25.0	27.8	31.5	40.7	51.8	113.8	867.7	2005.5	2198.9	2269.2
45°	19.4	23.1	28.7	40.7	41.6	84.2	777.1	2064.7	2256.2	2291.4
47.5°	14.8	18.5	27.8	35.2	33.3	58.3	669.7	2132.3	2315.4	2347.8
50°	11.1	14.8	31.5	30.5	27.8	44.4	602.2	2179.4	2319.1	2336.7
52.5°	7.4	11.1	25.9	23.1	23.1	38.9	583.7	2177.6	2328.4	2290.5
55°	5.6	8.3	14.8	16.7	20.4	34.2	567.1	2247.0	2331.2	2358.0
57.5°	3.7	6.5	10.2	13.0	17.6	29.6	532.8	2330.2	2417.2	2431.1
60°	1.9	4.6	7.4	10.2	14.8	25.9	484.7	2391.3	2521.7	2536.5
62.5°	0.9	2.8	5.6	8.3	12.0	20.4	434.8	2294.2	2476.4	2502.3
65°	0.0	1.9	3.7	5.6	7.4	14.8	353.4	2071.2	2296.9	2392.2
67.5°	0.0	0.0	1.9	3.7	4.6	11.1	266.4	1884.3	2131.3	2260.8
70°	0.0	0.0	0.9	0.9	2.8	8.3	170.2	1560.6	1902.8	1974.1
72.5°	0.0	0.0	0.0	0.0	0.9	5.6	99.0	1159.1	1491.2	1623.5
75°	0.0	0.0	0.0	0.0	0.0	4.6	50.0	745.6	1037.9	1215.5
77.5°	0.0	0.0	0.0	0.0	0.0	3.7	26.8	481.0	765.0	914.0
80°	0.0	0.0	0.0	0.0	0.0	0.9	15.7	279.4	489.4	593.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	136.9	292.3	342.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	73.1	146.2	192.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	10.2	19.4
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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