

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: P677469

Luminaire Tested: **CCW-SA-2E-827-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677469
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

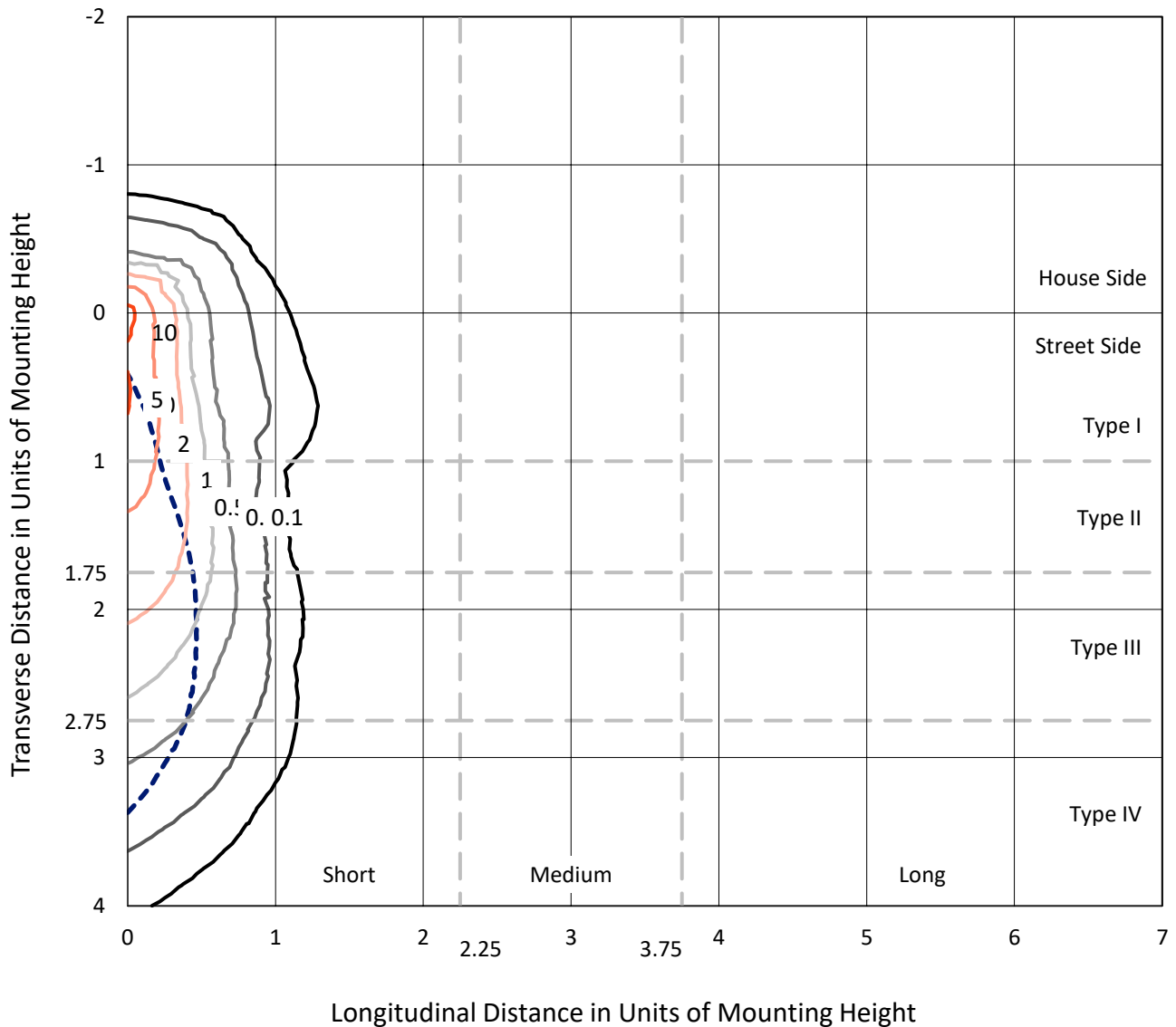
Lumens per Lamp: N/A
Luminaire Lumens: 7223 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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: P677469
 CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

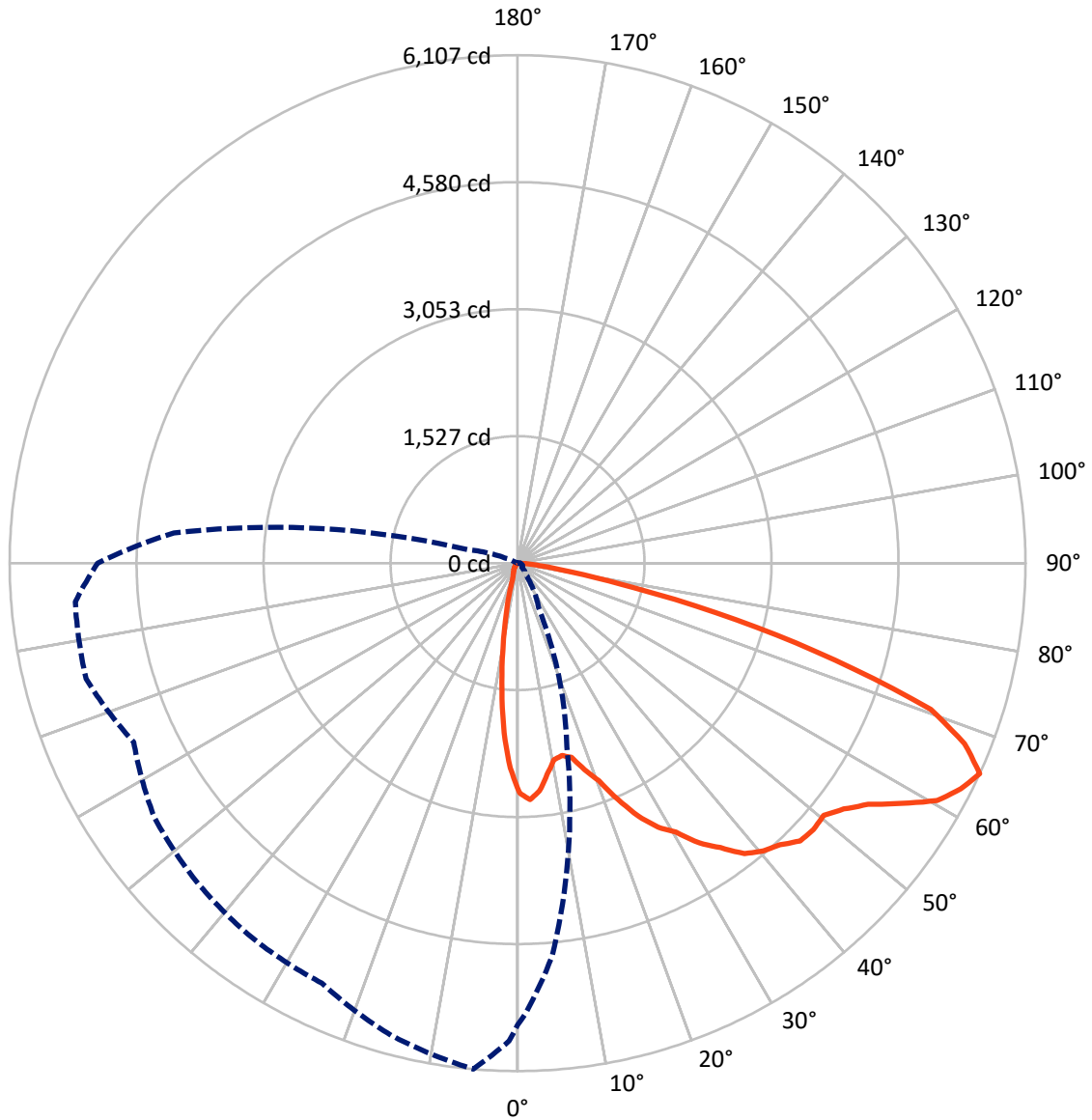
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P677469
CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677469

CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

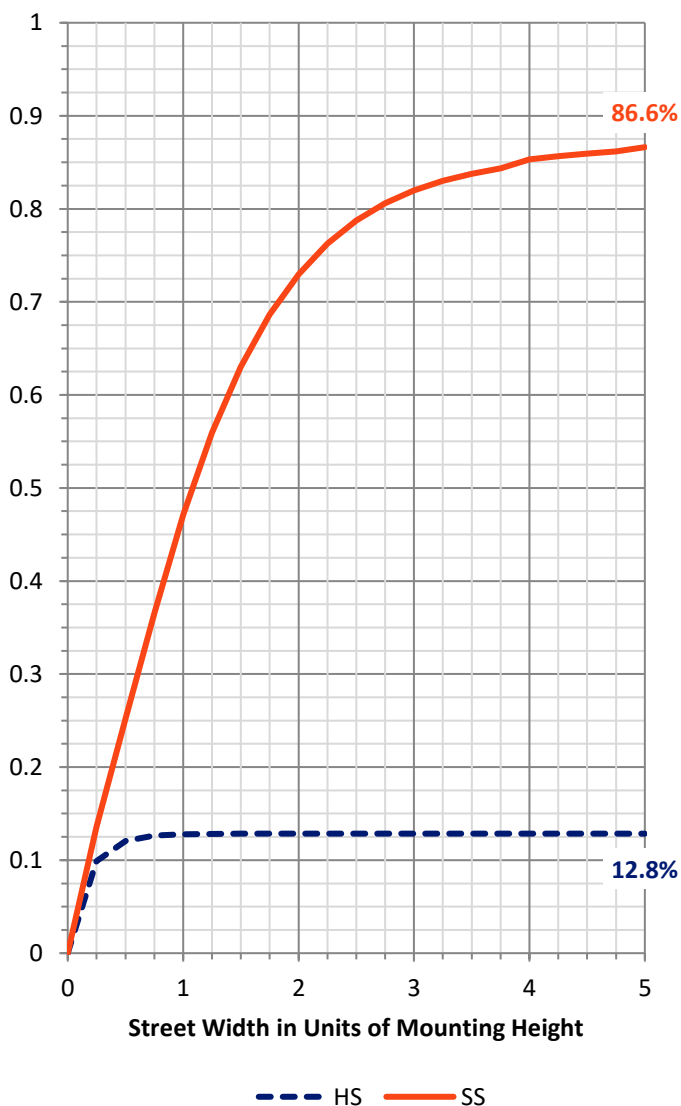
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	937.8	0.0	937.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	6285.2	0.0	6285.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	7223.0	0.0	7223.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	2.9
10°-20°	405.0	5.6
20°-30°	564.1	7.8
30°-40°	801.6	11.1
40°-50°	1111.5	15.4
50°-60°	1514.5	21.0
60°-70°	1665.1	23.1
70°-80°	818.4	11.3
80°-90°	133.6	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°	7223.0	100.0
0°-180°	7223.0	100.0



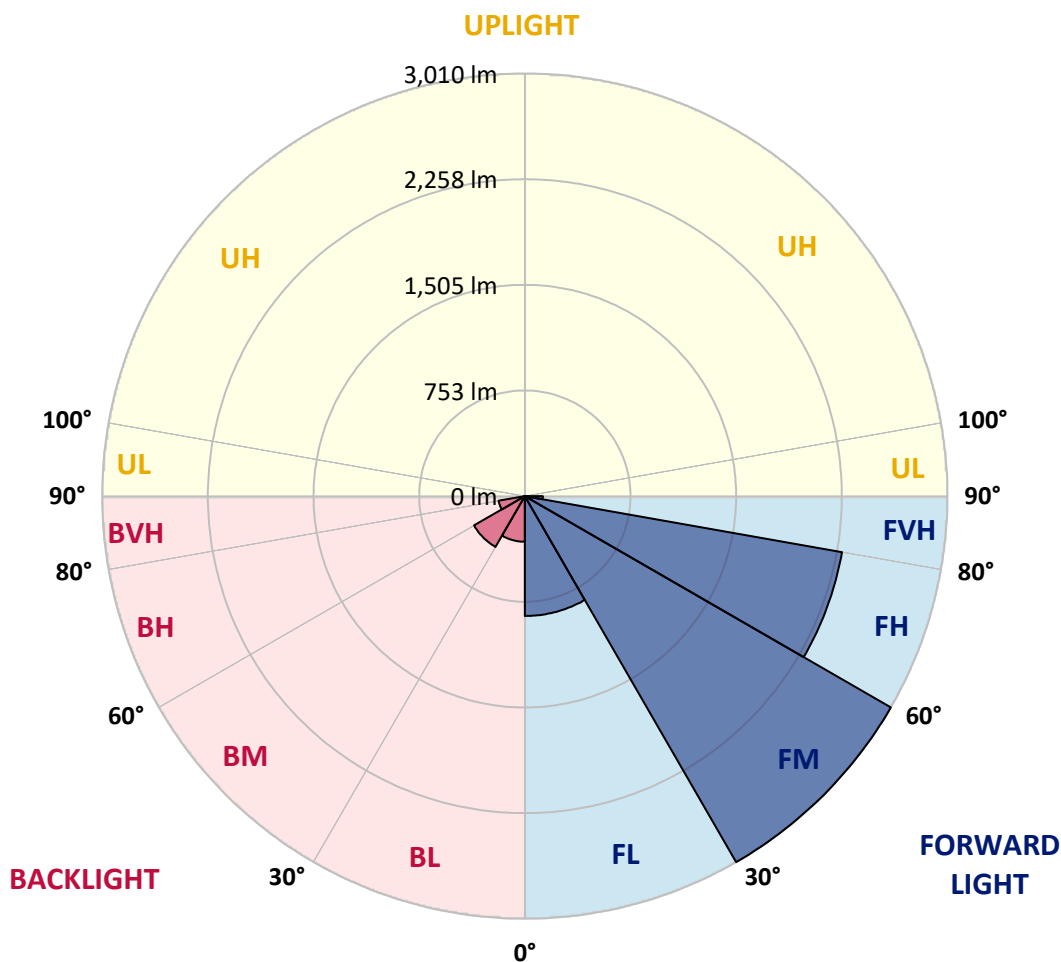
REPORT NUMBER: P677469
 CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.6	11.8			
FM (30°-60°)	3010.0	41.7			
FH (60°-80°)	2293.9	31.8			G2/5000
FVH (80°-90°)	127.6	1.8			G2/225
BL (0°-30°)	324.7	4.5	B1/500		
BM (30°-60°)	417.5	5.8	B1/1000		
BH (60°-80°)	189.5	2.6	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P677469

CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	2817.8	2850.9	2819.8	2710.7	2691.2	2638.7	2558.8	2553.0	2469.3	2479.0	2434.2
5°	2648.4	2681.5	2615.3	2471.2	2336.8	2229.7	2165.5	2050.6	2025.3	1968.8	1968.8
7.5°	2475.1	2473.1	2360.2	2239.5	2038.9	1842.2	1752.6	1587.1	1489.7	1437.2	1386.5
10°	2331.0	2299.8	2229.7	1980.5	1762.4	1557.9	1446.9	1337.8	1236.6	1148.9	1061.3
12.5°	2229.7	2249.2	2138.2	1867.5	1585.1	1443.0	1324.2	1209.3	1088.6	989.3	891.9
15°	2282.3	2251.1	2120.7	1842.2	1555.9	1361.2	1203.5	1063.3	928.9	798.4	724.4
17.5°	2445.9	2366.0	2212.2	1842.2	1495.6	1236.6	1045.7	880.2	736.1	619.3	527.7
20°	2665.9	2574.4	2408.9	1910.4	1450.8	1145.0	884.1	675.7	525.8	416.7	346.6
22.5°	2891.8	2819.8	2570.5	1937.6	1398.2	1022.4	697.2	488.8	350.5	280.4	245.4
25°	3162.5	3061.2	2788.6	2046.7	1320.3	903.6	549.2	340.8	260.9	223.9	202.5
27.5°	3378.7	3361.1	2993.1	2112.9	1261.9	806.2	434.3	270.7	216.2	188.9	175.3
30°	3651.3	3555.9	3242.4	2245.3	1195.7	695.2	362.2	243.4	198.6	169.4	159.7
32.5°	3814.9	3770.1	3372.8	2319.3	1121.7	603.7	311.6	214.2	181.1	159.7	149.9
35°	4052.5	3962.9	3559.8	2366.0	1082.7	551.1	280.4	194.7	151.9	130.5	118.8
37.5°	4317.3	4284.2	3783.7	2364.1	1026.3	519.9	259.0	181.1	144.1	120.7	107.1
40°	4588.0	4453.6	3920.0	2418.6	997.0	496.6	243.4	173.3	136.3	114.9	97.4
42.5°	4790.5	4636.7	4077.8	2399.1	962.0	455.7	237.6	161.6	130.5	105.2	89.6
45°	4845.0	4790.5	4219.9	2393.3	936.7	422.6	227.8	159.7	126.6	99.3	83.7
47.5°	4950.2	4913.2	4395.2	2403.0	917.2	397.3	204.5	163.6	120.7	93.5	79.8
50°	4996.9	4930.7	4537.3	2426.4	872.4	366.1	183.1	171.4	118.8	91.5	75.9
52.5°	5189.7	5131.3	4732.1	2492.6	835.4	325.2	161.6	163.6	122.7	85.7	72.1
55°	5378.6	5312.4	5032.0	2644.5	782.8	292.1	138.3	144.1	116.8	77.9	64.3
57.5°	5637.6	5528.5	5232.6	2706.8	736.1	247.3	122.7	118.8	109.1	70.1	56.5
60°	5676.5	5721.3	5203.3	2667.9	687.4	218.1	107.1	91.5	116.8	62.3	48.7
62.5°	5807.0	5620.1	5067.0	2578.3	652.4	200.6	95.4	75.9	101.3	54.5	40.9
65°	5555.8	5417.6	4747.7	2290.1	607.6	202.5	83.7	62.3	64.3	44.8	33.1
67.5°	5187.8	5078.7	4218.0	1976.6	562.8	198.6	74.0	54.5	48.7	38.9	29.2
70°	4552.9	4317.3	3583.1	1604.6	496.6	185.0	62.3	48.7	40.9	31.2	21.4
72.5°	3312.5	3217.0	2570.5	1240.5	445.9	167.5	58.4	40.9	35.1	23.4	17.5
75°	2229.7	2072.0	1622.1	814.0	358.3	146.1	48.7	37.0	27.3	17.5	13.6
77.5°	1178.2	1113.9	919.2	387.5	198.6	68.2	27.3	21.4	15.6	13.6	7.8
80°	510.2	453.7	397.3	157.7	70.1	31.2	17.5	11.7	9.7	7.8	3.9
82.5°	260.9	249.3	206.4	68.2	40.9	23.4	9.7	7.8	5.8	3.9	1.9
85°	128.5	132.4	109.1	21.4	23.4	13.6	1.9	1.9	0.0	0.0	0.0
87.5°	9.7	9.7	7.8	3.9	5.8	1.9	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: P677469
 CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	2416.7	2443.9	2397.2	2426.4	2412.8	2418.6	2424.5	2408.9	2412.8	2467.3	2469.3
5°	1935.7	1988.3	1968.8	1996.0	2042.8	2019.4	2040.8	2036.9	2040.8	2048.6	2083.7
7.5°	1380.7	1365.1	1402.1	1474.2	1557.9	1608.5	1583.2	1569.6	1561.8	1542.3	1565.7
10°	1041.8	1034.0	1024.3	1045.7	1100.3	1156.7	1187.9	1135.3	1106.1	1069.1	1055.5
12.5°	864.6	815.9	788.7	755.6	771.2	821.8	823.7	773.1	726.4	706.9	728.3
15°	681.6	648.5	599.8	553.0	529.7	568.6	535.5	486.8	426.5	418.7	416.7
17.5°	486.8	467.4	432.3	412.8	385.6	375.8	340.8	266.8	223.9	212.3	216.2
20°	331.1	315.5	313.5	296.0	284.3	276.5	220.1	171.4	157.7	159.7	161.6
22.5°	245.4	237.6	227.8	225.9	216.2	206.4	161.6	144.1	134.4	134.4	140.2
25°	200.6	196.7	186.9	183.1	179.2	165.5	136.3	122.7	118.8	114.9	120.7
27.5°	171.4	169.4	163.6	157.7	153.8	140.2	118.8	107.1	103.2	103.2	103.2
30°	153.8	153.8	146.1	134.4	134.4	118.8	101.3	93.5	89.6	89.6	87.6
32.5°	144.1	140.2	130.5	122.7	116.8	101.3	89.6	81.8	75.9	75.9	77.9
35°	116.8	116.8	114.9	109.1	101.3	85.7	75.9	68.2	64.3	62.3	64.3
37.5°	103.2	97.4	89.6	91.5	87.6	74.0	64.3	58.4	52.6	52.6	52.6
40°	93.5	87.6	79.8	74.0	72.1	66.2	56.5	46.7	40.9	38.9	38.9
42.5°	83.7	79.8	68.2	58.4	56.5	56.5	42.8	35.1	29.2	29.2	29.2
45°	77.9	72.1	62.3	50.6	40.9	42.8	35.1	25.3	21.4	19.5	19.5
47.5°	74.0	68.2	54.5	42.8	31.2	31.2	25.3	17.5	13.6	11.7	11.7
50°	68.2	62.3	48.7	35.1	23.4	19.5	15.6	9.7	5.8	3.9	3.9
52.5°	64.3	58.4	42.8	29.2	19.5	13.6	9.7	1.9	0.0	0.0	0.0
55°	58.4	50.6	37.0	23.4	15.6	7.8	1.9	0.0	0.0	0.0	0.0
57.5°	50.6	44.8	29.2	17.5	9.7	1.9	0.0	0.0	0.0	0.0	0.0
60°	42.8	37.0	23.4	13.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	35.1	31.2	17.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	29.2	23.4	13.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	25.3	19.5	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	19.5	13.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13.6	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.9	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: P677469
 CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	2477.0	2535.5	2590.0	2605.6	2648.4	2767.2	2767.2	2823.7	2924.9	2961.9	2969.7
5°	2089.5	2151.8	2163.5	2284.3	2340.7	2461.5	2541.3	2732.1	2847.0	2919.1	2963.9
7.5°	1589.0	1610.5	1655.3	1768.2	1879.2	2025.3	2177.1	2420.6	2623.1	2704.9	2856.8
10°	1092.5	1156.7	1254.1	1355.4	1528.7	1690.3	1887.0	2116.8	2366.0	2467.3	2597.8
12.5°	736.1	825.7	981.5	1125.6	1285.3	1448.8	1635.8	1943.5	2225.8	2366.0	2496.5
15°	430.4	539.4	673.8	907.5	1119.7	1302.8	1489.7	1801.3	2144.0	2325.1	2484.8
17.5°	218.1	251.2	362.2	564.7	845.2	1145.0	1423.5	1820.8	2206.4	2428.4	2560.8
20°	163.6	173.3	204.5	299.9	578.4	946.4	1361.2	1850.0	2379.7	2650.4	2722.4
22.5°	142.2	149.9	163.6	194.7	325.2	724.4	1273.6	1922.0	2615.3	2870.4	3022.3
25°	120.7	128.5	140.2	159.7	208.4	492.7	1166.5	1998.0	2825.6	3146.9	3289.1
27.5°	105.2	111.0	122.7	138.3	169.4	313.5	981.5	2099.3	3146.9	3481.9	3518.9
30°	89.6	95.4	105.2	122.7	144.1	222.0	720.5	2112.9	3324.1	3627.9	3731.1
32.5°	77.9	79.8	91.5	107.1	120.7	175.3	506.3	2126.5	3454.6	3816.8	3838.2
35°	64.3	68.2	79.8	89.6	105.2	138.3	383.6	2058.4	3624.0	4011.6	4005.7
37.5°	52.6	58.4	66.2	74.0	85.7	116.8	305.7	1931.8	3836.3	4313.4	4130.3
40°	40.9	46.7	54.5	64.3	72.1	105.2	229.8	1740.9	4058.3	4461.4	4266.7
42.5°	29.2	33.1	40.9	50.6	64.3	87.6	165.5	1515.0	4145.9	4634.7	4430.2
45°	21.4	25.3	31.2	42.8	66.2	70.1	114.9	1308.6	4239.4	4710.7	4393.2
47.5°	11.7	15.6	23.4	37.0	58.4	52.6	81.8	1123.6	4346.5	4778.8	4422.5
50°	3.9	5.8	13.6	38.9	46.7	40.9	64.3	1024.3	4451.7	4792.4	4480.9
52.5°	0.0	0.0	7.8	40.9	35.1	31.2	56.5	985.4	4424.4	4835.3	4443.9
55°	0.0	0.0	1.9	17.5	19.5	23.4	46.7	983.4	4617.2	4848.9	4646.4
57.5°	0.0	0.0	0.0	5.8	11.7	19.5	40.9	921.1	4739.9	5187.8	4919.0
60°	0.0	0.0	0.0	1.9	7.8	13.6	31.2	866.6	4864.5	5339.7	5211.1
62.5°	0.0	0.0	0.0	0.0	1.9	5.8	21.4	782.8	4613.3	5328.0	5493.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	13.6	619.3	4149.8	5049.5	5337.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	428.4	3633.8	4699.0	5051.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	259.0	2932.7	4120.6	4284.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.0	2093.4	3271.6	3515.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.8	1295.0	2391.4	2691.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	839.3	1811.0	2042.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	447.9	1135.3	1320.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	194.7	689.4	794.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.3	418.7	477.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.3	85.7
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: P677469

CATALOG NUMBER: CCW-SA-2E-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4	2761.4
2.5°	2973.6	3030.1	3051.5	3018.4	3022.3	2954.1	2944.4	2849.0	2810.0	2817.8
5°	3109.9	3191.7	3236.5	3199.5	3115.8	2985.3	2866.5	2753.6	2683.5	2648.4
7.5°	3078.8	3170.3	3226.8	3261.8	3166.4	2956.1	2775.0	2562.7	2473.1	2475.1
10°	2907.4	3098.2	3213.1	3168.4	3123.6	2913.2	2632.8	2403.0	2323.2	2331.0
12.5°	2769.1	2981.4	3049.6	3084.6	2993.1	2825.6	2636.7	2373.8	2284.3	2229.7
15°	2683.5	2841.2	2845.1	2899.6	2862.6	2862.6	2677.6	2420.6	2342.7	2282.3
17.5°	2683.5	2718.5	2714.6	2734.1	2796.4	2870.4	2780.8	2609.5	2455.6	2445.9
20°	2743.8	2634.8	2609.5	2617.2	2669.8	2889.9	3008.7	2794.5	2697.1	2665.9
22.5°	2884.0	2644.5	2490.7	2463.4	2625.0	2887.9	3154.7	3086.6	2917.1	2891.8
25°	3076.8	2627.0	2459.5	2424.5	2547.1	2958.0	3355.3	3368.9	3215.1	3162.5
27.5°	3259.9	2704.9	2455.6	2447.8	2609.5	2942.5	3493.6	3594.8	3421.5	3378.7
30°	3322.2	2782.8	2527.7	2424.5	2632.8	2998.9	3489.7	3754.5	3641.6	3651.3
32.5°	3396.2	2860.7	2535.5	2494.6	2732.1	3090.5	3600.7	4011.6	3929.8	3814.9
35°	3505.2	2965.8	2609.5	2572.5	2802.2	3172.2	3624.0	4200.5	4186.8	4052.5
37.5°	3598.7	3069.0	2763.3	2769.1	3016.5	3304.7	3727.2	4432.2	4408.8	4317.3
40°	3664.9	3213.1	3002.8	3018.4	3203.4	3452.7	3910.3	4549.0	4722.3	4588.0
42.5°	3674.7	3341.7	3277.4	3402.0	3575.3	3682.5	3984.3	4628.9	4878.1	4790.5
45°	3711.7	3546.1	3725.3	3816.8	3959.0	3885.0	3980.4	4765.2	4889.8	4845.0
47.5°	3855.8	3918.1	4144.0	4422.5	4473.1	4229.7	4073.9	4786.6	4956.0	4950.2
50°	4005.7	4317.3	4634.7	4819.7	4884.0	4467.2	4161.5	4769.1	5043.7	4996.9
52.5°	4173.2	4663.9	5121.6	5349.4	5314.3	4730.1	4260.8	4911.2	5205.3	5189.7
55°	4278.3	4819.7	5435.1	5752.5	5725.2	5024.2	4576.3	5115.7	5417.6	5378.6
57.5°	4556.8	5072.9	5746.7	5894.7	5966.7	5409.8	4796.3	5450.7	5594.8	5637.6
60°	4786.6	5238.4	5828.4	6042.7	6068.0	5639.5	5181.9	5795.3	5820.7	5676.5
62.5°	5123.5	5302.7	5655.1	5847.9	5978.4	5770.0	5528.5	5980.3	5816.8	5807.0
65°	5370.8	5092.3	5331.9	5439.0	5522.7	5571.4	5877.1	6106.9	5744.7	5555.8
67.5°	5232.6	4695.1	4650.3	4656.1	4681.4	4975.5	5760.3	5797.3	5343.6	5187.8
70°	4605.5	3851.9	3791.5	3838.2	3711.7	4066.1	5287.1	5269.6	4714.6	4552.9
72.5°	3725.3	2808.1	2704.9	2769.1	2798.4	3174.2	4447.8	3996.0	3439.0	3312.5
75°	2960.0	2058.4	1737.0	1892.8	1992.1	2311.5	3474.1	2714.6	2401.1	2229.7
77.5°	2325.1	1557.9	1351.5	1289.2	1380.7	1680.6	2527.7	1425.5	1258.0	1178.2
80°	1474.2	1145.0	1242.4	1152.8	1191.8	1199.6	1316.4	648.5	516.0	510.2
82.5°	888.0	782.8	930.8	512.2	932.8	833.5	547.2	294.1	260.9	260.9
85°	629.0	484.9	321.3	208.4	414.8	457.6	212.3	151.9	132.4	128.5
87.5°	315.5	149.9	72.1	46.7	52.6	85.7	25.3	11.7	11.7	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)