

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: P673029

Luminaire Tested: **CCP-SA-1A-835-U-T1**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673029  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-835-U-T1  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T1 distribution lens  
Light Source: (16) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

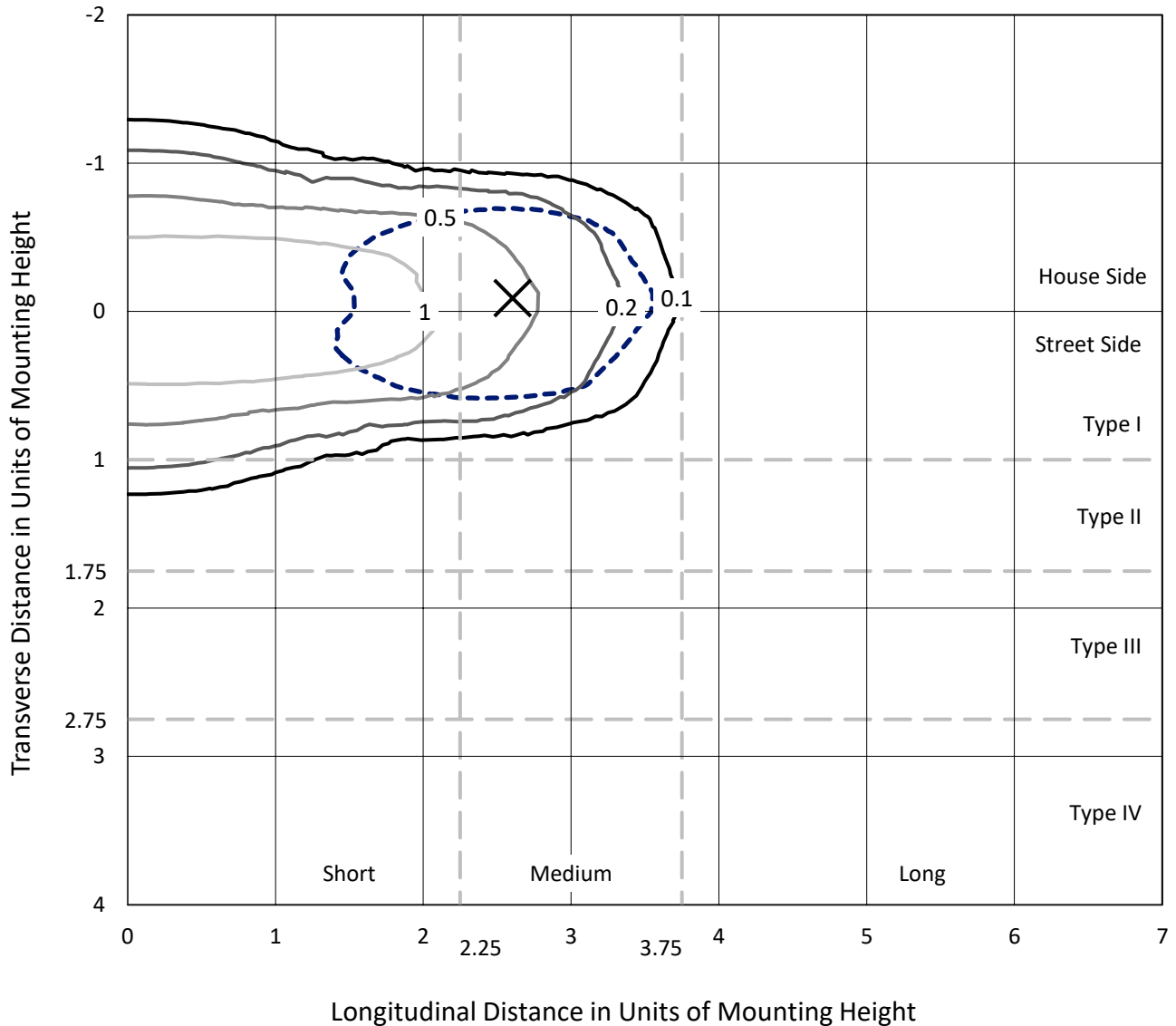
Lumens per Lamp: N/A  
Luminaire Lumens: 2195.2 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
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: P673029  
 CATALOG NUMBER: CCP-SA-1A-835-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

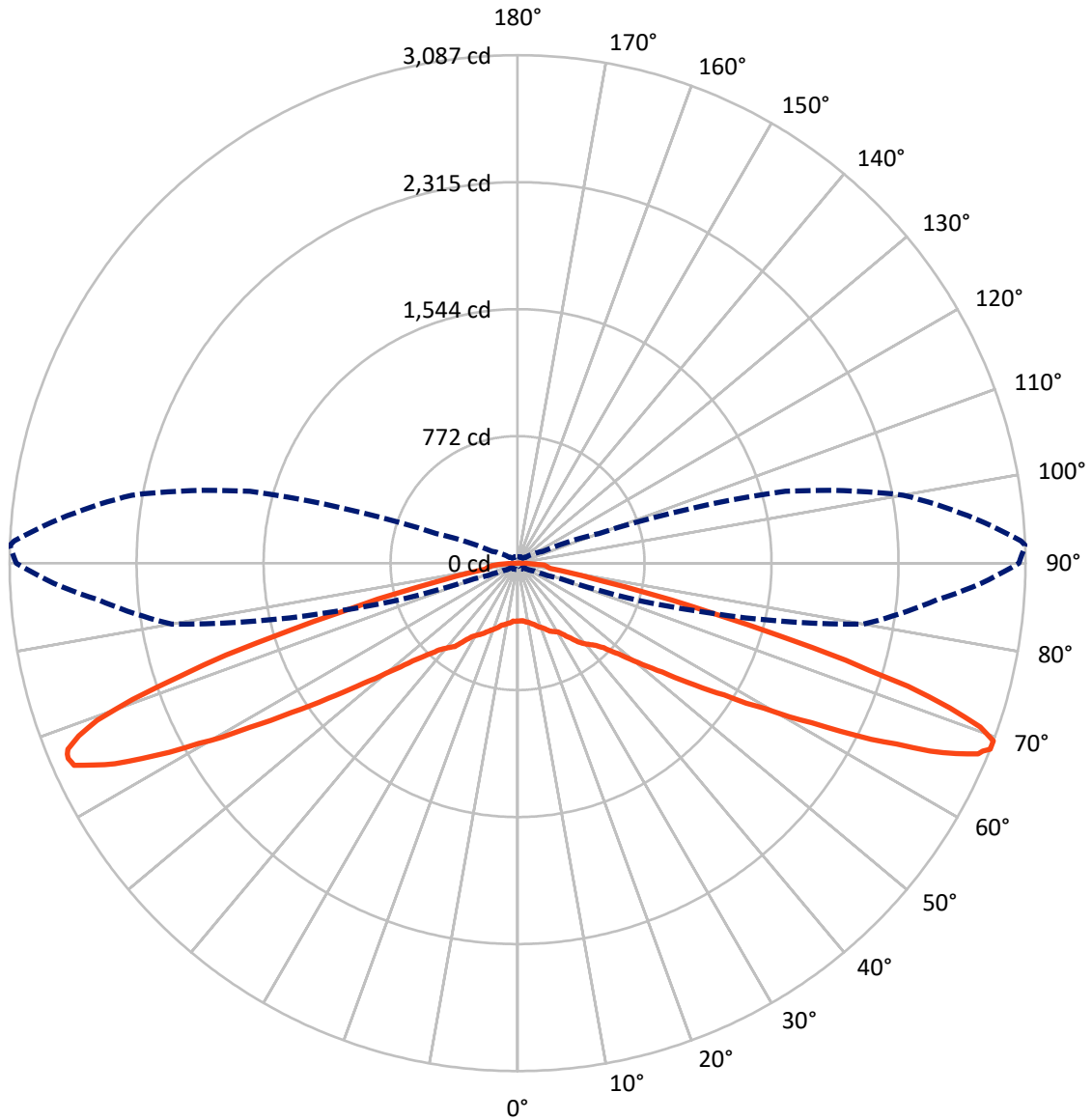
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P673029  
CATALOG NUMBER: CCP-SA-1A-835-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P673029  
 CATALOG NUMBER: CCP-SA-1A-835-U-T1

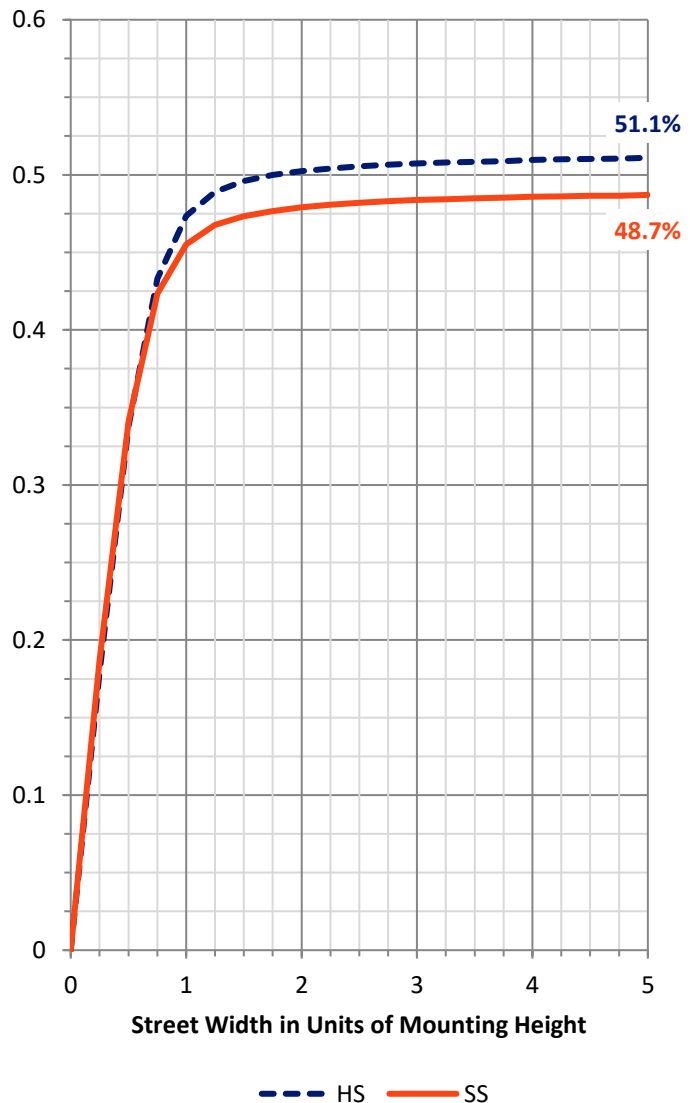
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1130.5	0.0	1130.5
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1064.7	0.0	1064.7
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	2195.2	0.0	2195.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	1.6
10°-20°	113.9	5.2
20°-30°	194.3	8.9
30°-40°	271.4	12.4
40°-50°	345.2	15.7
50°-60°	436.4	19.9
60°-70°	538.2	24.5
70°-80°	235.1	10.7
80°-90°	25.5	1.2
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°	2195.2	100.0
0°-180°	2195.2	100.0



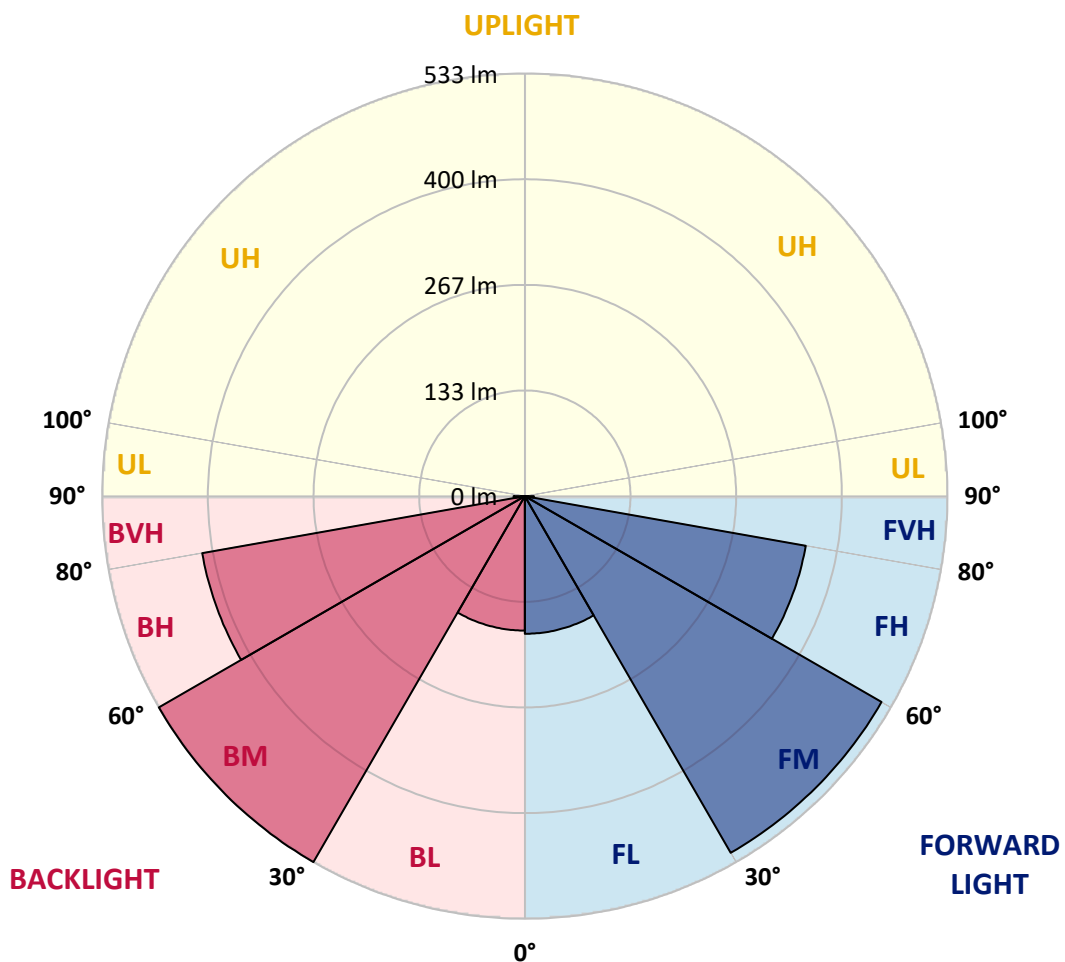
REPORT NUMBER: P673029  
 CATALOG NUMBER: CCP-SA-1A-835-U-T1

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.7	7.9			
FM (30°-60°)	519.7	23.7			
FH (60°-80°)	360.0	16.4			G0/660
FVH (80°-90°)	11.3	0.5			G1/100
BL (0°-30°)	169.6	7.7	B1/500		
BM (30°-60°)	533.3	24.3	B1/1000		
BH (60°-80°)	413.4	18.8	B1/500		G1/500
BVH (80°-90°)	14.2	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-G1**

Type I Short





REPORT NUMBER: P673029  
 CATALOG NUMBER: CCP-SA-1A-835-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0
2.5°	358.4	358.0	359.3	360.1	356.4	357.6	356.8	356.0	353.1	351.9	349.4
5°	368.3	369.6	373.7	370.0	371.6	369.6	363.0	365.0	361.3	360.5	358.0
7.5°	385.6	383.2	388.9	384.8	386.1	381.9	379.0	375.3	374.5	368.7	369.2
10°	389.3	394.3	396.8	395.9	396.8	398.8	393.5	387.7	379.9	378.2	372.5
12.5°	386.9	391.4	398.0	403.4	407.1	407.9	405.8	404.6	401.3	391.8	391.4
15°	384.4	381.1	385.2	403.8	416.1	424.4	427.3	420.2	421.1	408.7	403.8
17.5°	367.9	363.0	379.0	397.2	412.4	430.5	444.6	442.5	442.5	432.6	425.6
20°	346.1	354.3	362.6	385.6	413.7	440.8	467.6	466.4	461.4	458.6	443.3
22.5°	327.5	331.3	346.5	370.8	405.8	443.7	475.5	498.1	486.6	475.0	466.0
25°	314.8	311.5	330.8	356.0	398.4	438.8	490.3	513.8	520.0	511.3	494.0
27.5°	296.6	296.6	311.9	335.8	374.5	436.3	504.7	540.6	549.6	536.8	511.7
30°	276.0	278.5	291.7	318.9	356.8	418.2	510.5	571.5	578.9	567.7	541.8
32.5°	260.0	260.0	274.8	303.6	344.4	409.9	506.8	601.9	616.0	607.7	580.9
35°	242.7	241.4	252.1	283.9	324.7	393.9	505.5	626.3	657.6	658.0	630.0
37.5°	218.0	222.9	236.5	261.6	309.0	378.2	501.8	655.5	711.5	721.0	701.6
40°	201.5	203.5	215.9	243.5	284.7	359.7	496.5	679.4	747.4	779.9	753.2
42.5°	177.6	180.5	189.9	224.1	261.2	333.3	473.0	696.3	798.5	835.6	812.9
45°	152.4	154.1	168.1	196.1	236.1	302.0	447.9	723.5	847.9	923.7	910.5
47.5°	122.4	123.2	135.1	164.4	206.0	270.7	409.1	722.2	887.9	1011.9	1049.0
50°	95.6	97.6	106.7	130.6	169.7	232.4	364.2	712.4	938.1	1112.4	1185.3
52.5°	76.2	76.6	82.4	101.4	131.0	194.1	316.0	681.0	985.5	1210.9	1352.6
55°	63.0	63.0	66.3	77.9	100.5	147.5	259.6	629.1	991.3	1319.7	1535.1
56°	60.6	59.7	62.6	72.5	90.6	133.1	233.2	594.1	999.5	1369.9	1626.6
57°	57.3	57.7	59.3	66.3	81.6	117.8	203.9	559.9	993.8	1411.1	1694.2
58°	55.6	54.8	58.1	62.6	72.1	104.6	183.8	519.5	984.7	1444.9	1792.6
59°	53.1	52.7	54.8	58.9	67.2	93.1	159.0	475.9	967.0	1488.6	1866.0
60°	52.3	51.9	52.7	56.0	61.8	81.6	140.1	424.8	919.6	1533.5	1957.0
61°	49.9	50.3	51.9	54.0	58.5	73.3	126.1	372.5	888.7	1571.4	2057.6
62°	50.3	49.4	50.3	51.9	55.2	67.6	110.4	321.0	833.5	1614.2	2133.0
63°	47.8	47.4	48.6	50.7	52.3	61.0	96.4	277.3	770.9	1624.1	2196.8
64°	47.0	46.6	47.0	49.9	50.3	57.3	85.3	236.9	680.2	1641.0	2278.8
65°	44.9	44.9	45.7	47.0	48.6	54.0	76.2	205.6	590.0	1596.5	2303.9
66°	43.3	43.7	43.7	45.7	47.0	50.3	70.0	174.7	503.5	1525.7	2328.3
67°	42.0	42.0	42.4	44.1	45.3	47.4	63.0	151.2	424.8	1441.2	2290.8
67.5°	41.2	41.6	41.6	43.3	44.5	47.4	60.2	143.4	379.9	1348.5	2262.7
68°	40.0	40.4	40.4	42.0	43.3	45.7	58.1	131.0	350.2	1288.3	2210.8
69°	39.1	38.7	38.7	40.4	42.0	43.7	54.0	114.5	278.5	1120.2	2135.0
70°	36.7	36.7	37.5	38.7	40.0	41.6	49.9	100.9	235.7	927.4	1939.7
71°	35.4	35.0	35.4	36.7	37.9	40.0	45.7	89.4	192.8	770.0	1747.7
72°	33.0	33.8	33.8	35.0	36.3	37.5	42.8	77.9	161.9	615.5	1536.4
72.5°	32.5	32.5	33.0	34.2	35.0	37.1	41.2	74.6	147.9	542.6	1447.8
73°	31.3	31.3	31.7	33.0	33.8	35.8	40.0	67.2	134.7	482.9	1282.2
74°	30.1	29.7	29.7	31.3	31.7	33.8	37.5	59.3	112.9	363.8	1029.2
75°	28.0	28.0	28.4	29.3	29.7	31.3	34.6	52.7	95.2	282.2	805.1



REPORT NUMBER: P673029  
 CATALOG NUMBER: CCP-SA-1A-835-U-T1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	23.1	23.5	23.9	24.7	24.7	26.0	28.4	36.7	58.1	143.0	369.6
80°	16.9	17.7	19.0	20.2	19.8	19.8	22.2	26.4	34.6	64.3	141.7
82.5°	13.6	14.4	13.2	14.8	14.8	14.0	16.1	19.4	23.5	31.7	50.7
85°	9.1	9.5	7.8	9.1	8.7	8.7	10.7	11.5	14.4	17.7	25.1
87.5°	4.1	4.1	3.3	3.7	3.7	3.7	5.4	4.1	6.2	8.7	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0	351.0
2.5°	351.9	353.5	353.5	351.9	350.6	351.9	351.0	349.0	351.0	351.9	352.3
5°	356.8	353.5	355.2	351.4	353.9	353.5	352.7	354.7	355.2	355.2	358.0
7.5°	362.2	366.3	360.9	361.3	362.6	357.6	359.3	360.1	358.4	361.7	364.2
10°	371.6	373.3	371.6	365.5	369.6	366.3	365.0	368.7	367.9	368.7	372.5
12.5°	380.3	383.2	378.6	378.2	376.2	373.3	374.9	374.5	380.3	381.1	385.6
15°	398.0	390.6	388.9	388.5	387.7	386.5	387.3	387.7	395.1	396.4	407.1
17.5°	413.2	412.0	402.9	406.2	406.2	401.3	399.2	406.2	412.0	418.2	425.6
20°	428.9	427.7	417.8	418.2	414.5	419.0	416.5	423.1	433.0	435.1	441.7
22.5°	447.4	442.1	435.1	435.9	437.1	433.8	432.2	441.3	451.1	456.9	457.3
25°	476.7	463.1	457.3	458.2	456.5	454.0	455.3	466.8	471.7	484.1	481.6
27.5°	492.3	484.5	480.4	470.9	471.3	467.6	472.6	489.9	499.8	509.2	490.3
30°	511.3	506.4	488.2	484.9	484.5	482.9	491.9	514.2	529.0	534.4	507.2
32.5°	548.4	528.6	524.1	521.2	514.6	516.7	521.2	550.4	573.9	572.7	522.8
35°	590.8	577.2	564.5	562.0	561.2	555.4	563.2	597.4	615.5	610.2	528.6
37.5°	658.8	638.2	620.9	611.4	609.8	605.7	624.2	651.4	674.9	653.9	533.1
40°	692.2	669.1	653.0	647.3	648.5	654.3	672.4	714.0	724.3	685.6	536.8
42.5°	740.0	714.8	683.1	680.2	676.5	679.4	714.4	770.5	779.1	728.4	522.8
45°	824.8	786.9	750.3	733.8	734.6	742.4	796.8	858.2	842.1	758.1	500.6
47.5°	932.0	876.3	846.7	824.4	835.1	826.5	913.0	962.0	907.2	795.6	473.4
50°	1093.1	1015.2	974.8	948.0	952.6	960.0	1047.7	1089.3	979.3	813.7	431.8
52.5°	1296.2	1196.1	1136.7	1100.9	1104.2	1120.2	1233.6	1220.8	1061.7	829.0	376.2
55°	1539.3	1436.3	1321.3	1306.5	1302.8	1341.1	1465.9	1358.4	1135.9	804.7	318.5
56°	1667.8	1558.2	1438.7	1408.2	1399.2	1426.0	1572.6	1427.2	1161.4	777.5	290.9
57°	1777.0	1672.3	1541.3	1489.4	1500.9	1551.2	1678.5	1491.9	1184.9	749.4	264.9
58°	1927.0	1807.5	1669.0	1629.5	1619.2	1659.2	1792.6	1557.0	1192.8	720.6	241.0
59°	2076.5	1933.1	1808.3	1736.2	1739.1	1812.0	1905.1	1634.4	1204.7	683.9	210.5
60°	2190.2	2118.1	1951.3	1897.3	1889.9	1995.4	2017.2	1686.3	1217.5	634.5	189.1
61°	2351.3	2257.4	2102.1	2032.4	2052.6	2137.1	2138.3	1751.4	1198.5	571.9	162.7
62°	2467.1	2442.4	2279.2	2212.9	2206.7	2318.8	2264.4	1808.7	1182.1	512.5	143.8
63°	2602.7	2602.7	2453.9	2402.0	2404.9	2493.5	2319.2	1866.0	1163.1	447.0	126.5
64°	2673.1	2761.7	2624.5	2551.6	2570.5	2647.1	2416.8	1903.5	1104.6	380.7	111.2
65°	2734.1	2867.2	2790.9	2757.2	2728.3	2773.6	2501.3	1938.5	1015.2	323.8	98.9
66°	2785.6	2966.5	2941.3	2905.1	2902.2	2891.9	2517.8	1937.3	922.9	273.6	86.5
67°	2759.6	2968.5	3014.2	3029.5	3025.0	2916.2	2488.9	1893.2	804.7	231.1	77.0
67.5°	2736.1	2951.6	3057.9	3049.3	3068.2	2936.8	2493.9	1839.2	720.6	209.3	72.5
68°	2715.5	2929.0	3075.6	3086.8	3077.3	2939.3	2466.7	1796.4	663.3	196.5	68.4
69°	2559.4	2821.4	3047.2	3087.2	3062.9	2844.9	2380.2	1684.7	527.0	167.7	63.0
70°	2402.8	2682.2	2909.2	2982.5	2952.4	2662.4	2271.0	1507.1	434.7	143.4	56.9
71°	2186.1	2423.4	2725.4	2769.5	2733.3	2454.7	2045.2	1319.7	338.3	121.5	50.7
72°	1891.9	2093.4	2381.8	2488.5	2435.0	2156.0	1817.0	1090.6	274.0	102.2	46.1
72.5°	1746.1	1952.5	2230.6	2239.3	2249.6	2026.3	1720.1	957.9	239.0	94.8	44.9
73°	1607.7	1809.9	2050.6	2081.1	2037.4	1807.5	1575.5	856.6	218.4	86.5	43.3
74°	1302.8	1418.1	1617.5	1647.2	1608.9	1473.8	1287.5	656.7	173.9	74.6	39.6
75°	1025.1	1088.5	1269.0	1250.9	1193.6	1146.2	998.3	501.8	140.9	65.5	36.7



REPORT NUMBER: P673029  
 CATALOG NUMBER: CCP-SA-1A-835-U-T1

**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	460.6	498.9	529.0	529.0	532.3	508.0	460.2	230.3	86.9	47.4	30.1
80°	175.5	196.5	203.1	203.5	206.4	213.8	199.0	113.3	51.5	33.8	24.3
82.5°	127.3	178.0	191.6	181.7	182.5	164.8	76.2	50.3	32.5	23.5	17.7
85°	115.4	154.9	164.0	162.7	163.2	152.4	44.9	24.7	19.0	14.8	12.4
87.5°	56.0	54.8	58.1	65.5	63.9	82.8	37.9	12.4	8.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: CCP-SA-1A-835-U-T1

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	351.0	351.0	351.0	351.0	351.0	351.0
2.5°	349.0	348.6	354.3	348.6	351.9	349.4
5°	353.1	354.7	356.0	358.4	352.7	358.4
7.5°	365.5	367.1	367.5	369.6	367.1	366.7
10°	374.9	379.0	381.5	373.3	378.2	377.8
12.5°	393.5	389.3	388.9	387.3	382.8	381.1
15°	406.7	400.5	396.8	390.2	384.8	382.8
17.5°	425.2	413.2	398.0	384.4	374.9	367.5
20°	436.7	415.3	384.8	368.7	354.3	357.6
22.5°	444.1	413.2	372.9	352.3	337.8	342.0
25°	446.6	402.9	364.6	339.1	325.1	322.2
27.5°	439.6	391.0	348.6	319.7	307.4	309.8
30°	436.3	373.7	333.7	305.3	288.8	291.3
32.5°	427.7	356.0	313.9	285.1	273.2	269.0
35°	415.3	341.1	295.0	267.8	253.4	250.1
37.5°	400.1	322.6	278.5	245.6	232.8	230.3
40°	377.4	300.4	254.6	226.2	211.4	210.9
42.5°	357.6	278.9	232.4	203.1	188.3	189.1
45°	332.5	250.1	206.8	181.7	166.9	167.7
47.5°	300.4	223.3	182.5	154.5	142.1	141.3
50°	262.4	192.8	152.9	129.0	118.7	116.6
52.5°	226.2	161.9	125.3	103.8	95.2	94.3
55°	180.5	126.1	97.6	81.6	75.0	75.4
56°	164.0	116.2	89.0	74.6	69.6	69.6
57°	148.3	103.0	80.8	68.8	64.3	64.3
58°	131.0	90.6	73.3	62.2	60.2	58.5
59°	119.1	82.4	66.3	58.9	55.6	55.2
60°	105.1	74.2	61.8	55.2	52.7	52.3
61°	93.1	66.7	56.9	51.5	50.7	50.7
62°	83.2	61.8	52.7	49.9	49.4	48.2
63°	74.6	56.9	50.7	47.4	46.1	47.4
64°	66.7	52.3	49.0	46.6	44.9	45.7
65°	60.6	50.3	47.0	45.3	43.7	44.1
66°	56.4	47.0	45.3	43.3	42.4	42.8
67°	51.1	45.3	43.7	41.6	41.2	41.6
67.5°	49.4	44.1	42.8	40.8	40.4	40.8
68°	48.2	43.3	42.4	40.4	40.0	39.6
69°	44.9	41.6	40.4	39.6	38.7	38.3
70°	42.0	40.0	39.1	37.9	37.1	36.7
71°	40.4	37.9	37.5	36.3	35.4	35.0
72°	38.3	36.7	35.8	34.2	33.8	34.2
72.5°	37.9	35.8	35.4	33.8	33.4	33.4
73°	36.7	34.2	34.6	33.0	32.1	33.0
74°	34.2	33.4	32.5	31.3	30.9	30.9
75°	32.1	31.3	30.5	29.7	29.7	29.7



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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	27.2	26.8	27.2	25.5	25.1	24.7
80°	21.8	21.8	22.2	21.0	20.2	19.8
82.5°	16.5	16.9	17.7	16.5	15.7	14.8
85°	10.7	11.1	11.1	9.9	11.5	10.7
87.5°	5.4	5.8	5.4	4.9	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)