

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: P676202

Luminaire Tested: **CCW-SA-2A-840-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676202
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-840-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

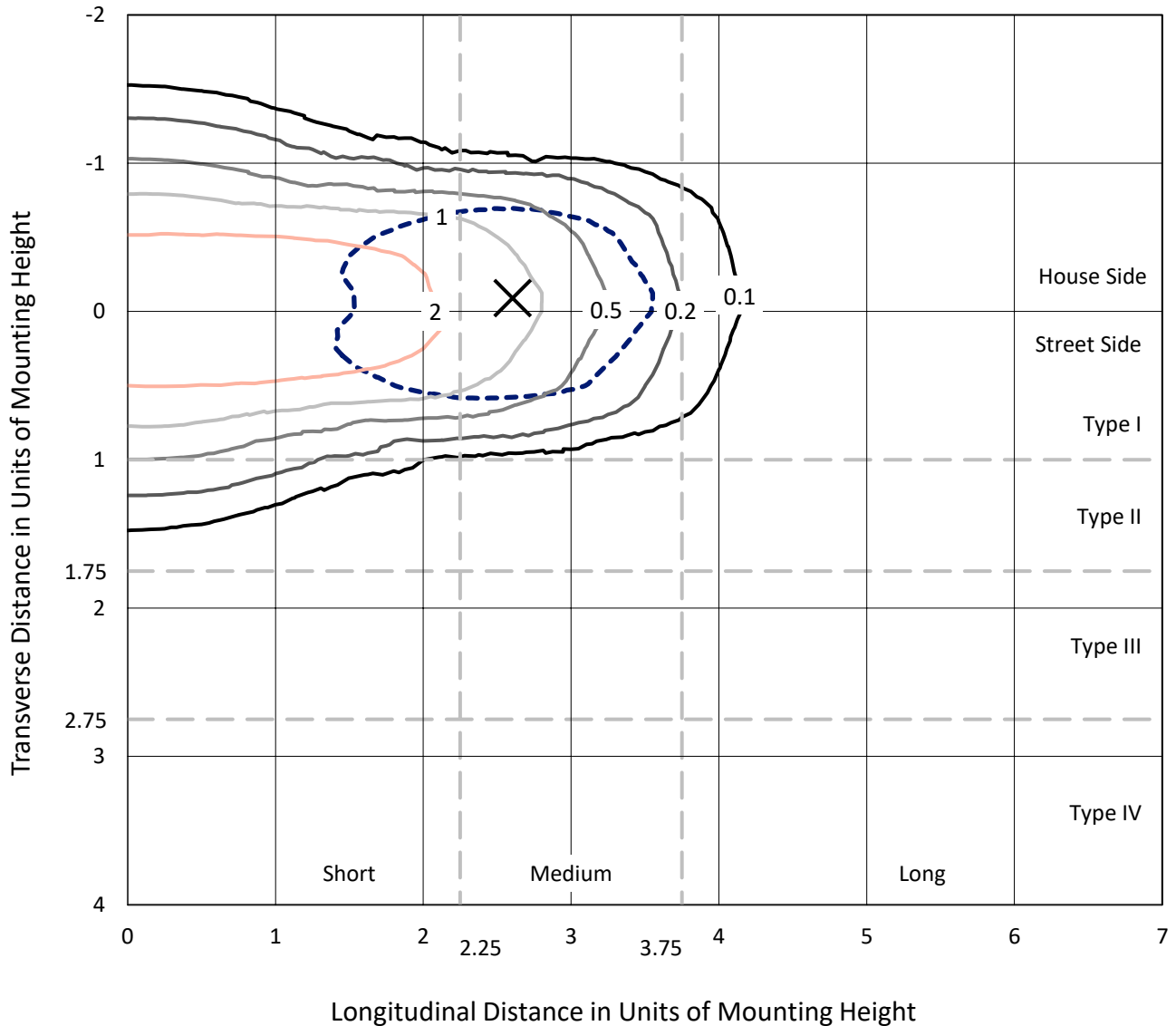
Lumens per Lamp: N/A
Luminaire Lumens: 4542.8 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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: P676202
 CATALOG NUMBER: CCW-SA-2A-840-U-T1

Iso-Footcandle Lines of Horizontal Illumination

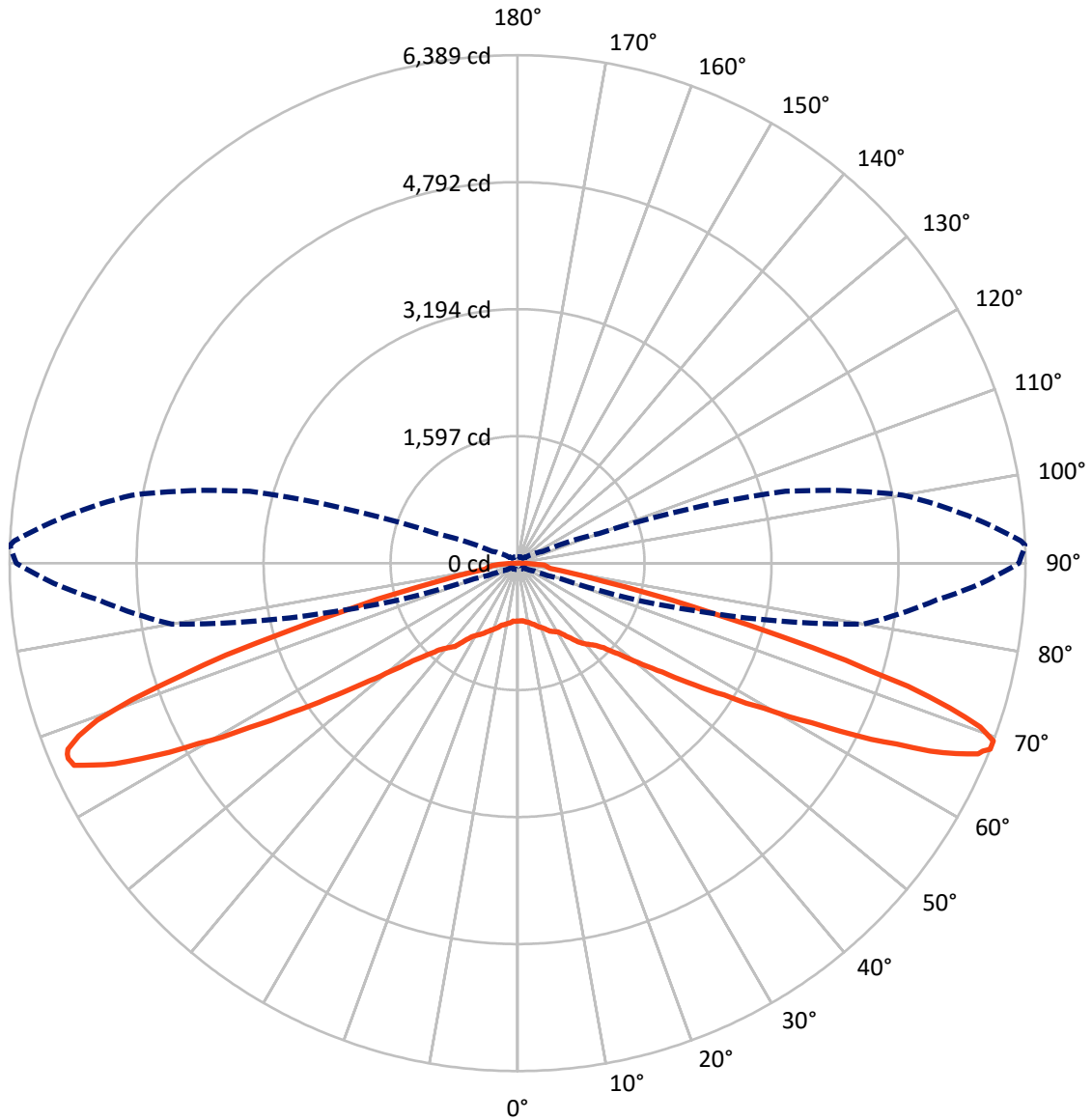
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type I - Short - N/A

REPORT NUMBER: P676202
CATALOG NUMBER: CCW-SA-2A-840-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676202
 CATALOG NUMBER: CCW-SA-2A-840-U-T1

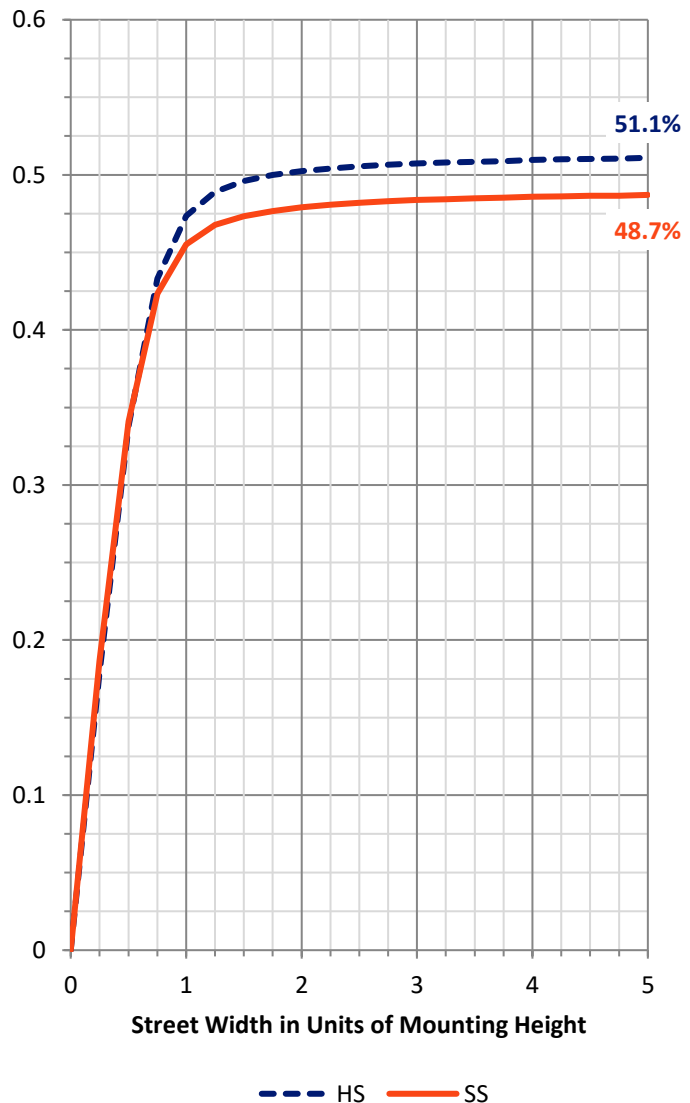
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2339.5	0.0	2339.5
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2203.3	0.0	2203.3
	% Fixture	48.5	0.0	48.5
Total	Lumens	4542.8	0.0	4542.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.6
10°-20°	235.7	5.2
20°-30°	402.2	8.9
30°-40°	561.6	12.4
40°-50°	714.3	15.7
50°-60°	903.2	19.9
60°-70°	1113.8	24.5
70°-80°	486.6	10.7
80°-90°	52.8	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°	4542.8	100.0
0°-180°	4542.8	100.0



REPORT NUMBER: P676202

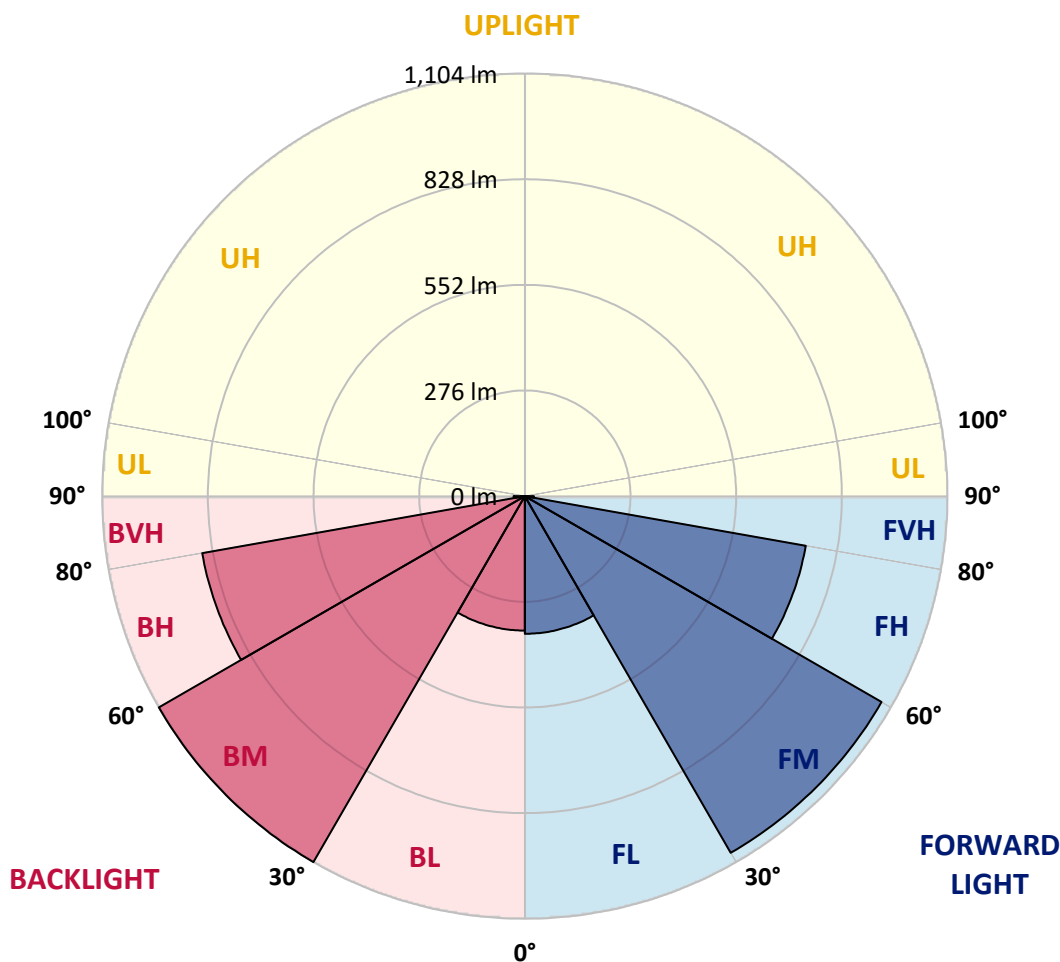
CATALOG NUMBER: CCW-SA-2A-840-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.5	7.9			
FM	(30°-60°)	1075.5	23.7			
FH	(60°-80°)	744.9	16.4			G1/1800
FVH	(80°-90°)	23.4	0.5			G1/100
BL	(0°-30°)	351.1	7.7	B1/500		
BM	(30°-60°)	1103.5	24.3	B2/2500		
BH	(60°-80°)	855.5	18.8	B2/1000		G2/1000
BVH	(80°-90°)	29.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





REPORT NUMBER: P676202

CATALOG NUMBER: CCW-SA-2A-840-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4
2.5°	741.8	740.9	743.5	745.2	737.5	740.1	738.4	736.7	730.7	728.1	723.0
5°	762.2	764.8	773.3	765.6	769.1	764.8	751.2	755.4	747.7	746.0	740.9
7.5°	798.0	792.9	804.9	796.3	798.9	790.4	784.4	776.7	775.0	763.1	763.9
10°	805.7	816.0	821.1	819.4	821.1	825.3	814.2	802.3	786.1	782.7	770.8
12.5°	800.6	810.0	823.6	834.7	842.4	844.1	839.8	837.3	830.4	810.8	810.0
15°	795.5	788.7	797.2	835.6	861.1	878.2	884.2	869.7	871.4	845.8	835.6
17.5°	761.4	751.2	784.4	821.9	853.5	891.0	920.0	915.7	915.7	895.2	880.8
20°	716.2	733.2	750.3	798.0	856.0	912.3	967.7	965.2	954.9	949.0	917.4
22.5°	677.8	685.5	717.1	767.4	839.8	918.3	983.9	1030.8	1006.9	983.1	964.3
25°	651.4	644.6	684.7	736.7	824.5	908.0	1014.6	1063.2	1076.0	1058.1	1022.3
27.5°	613.9	613.9	645.4	694.9	775.0	902.9	1044.5	1118.6	1137.4	1111.0	1058.9
30°	571.3	576.4	603.7	659.9	738.4	865.4	1056.4	1182.6	1197.9	1174.9	1121.2
32.5°	538.0	538.0	568.7	628.4	712.8	848.4	1048.7	1245.7	1274.7	1257.6	1202.2
35°	502.2	499.6	521.8	587.5	671.9	815.1	1046.2	1296.0	1360.8	1361.6	1303.6
37.5°	451.0	461.3	489.4	541.4	639.5	782.7	1038.5	1356.5	1472.5	1492.1	1452.0
40°	416.9	421.2	446.8	503.9	589.2	744.3	1027.4	1406.0	1546.6	1614.0	1558.6
42.5°	367.5	373.4	393.1	463.8	540.6	689.8	978.8	1440.9	1652.4	1729.1	1682.2
45°	315.5	318.9	347.9	405.8	488.5	625.0	926.8	1497.2	1754.7	1911.6	1884.3
47.5°	253.2	254.9	279.7	340.2	426.3	560.2	846.6	1494.6	1837.4	2094.0	2170.8
50°	197.8	202.1	220.8	270.3	351.3	480.9	753.7	1474.2	1941.4	2302.1	2453.0
52.5°	157.7	158.6	170.5	209.7	271.1	401.6	654.0	1409.4	2039.5	2505.8	2799.1
55°	130.5	130.5	137.3	161.1	208.0	305.2	537.1	1301.9	2051.4	2730.9	3176.8
56°	125.3	123.6	129.6	150.1	187.6	275.4	482.6	1229.5	2068.4	2834.9	3366.1
57°	118.5	119.4	122.8	137.3	168.8	243.8	422.0	1158.7	2056.5	2920.2	3506.0
58°	115.1	113.4	120.2	129.6	149.2	216.6	380.3	1075.1	2037.8	2990.1	3709.7
59°	110.0	109.1	113.4	121.9	139.0	192.7	329.1	984.8	2001.1	3080.5	3861.5
60°	108.3	107.4	109.1	116.0	127.9	168.8	289.9	879.0	1903.0	3173.4	4049.9
61°	103.2	104.0	107.4	111.7	121.1	151.8	260.9	770.8	1839.1	3251.9	4258.0
62°	104.0	102.3	104.0	107.4	114.3	139.8	228.5	664.2	1724.8	3340.5	4414.0
63°	98.9	98.1	100.6	104.9	108.3	126.2	199.5	573.8	1595.2	3361.0	4546.1
64°	97.2	96.3	97.2	103.2	104.0	118.5	176.5	490.3	1407.7	3396.0	4715.8
65°	92.9	92.9	94.6	97.2	100.6	111.7	157.7	425.5	1220.9	3303.9	4767.8
66°	89.5	90.4	90.4	94.6	97.2	104.0	144.9	361.5	1041.9	3157.2	4818.1
67°	87.0	87.0	87.8	91.2	93.8	98.1	130.5	312.9	879.0	2982.5	4740.5
67.5°	85.3	86.1	86.1	89.5	92.1	98.1	124.5	296.7	786.1	2790.6	4682.6
68°	82.7	83.6	83.6	87.0	89.5	94.6	120.2	271.1	724.7	2666.1	4575.1
69°	81.0	80.1	80.1	83.6	87.0	90.4	111.7	237.0	576.4	2318.3	4418.3
70°	75.9	75.9	77.6	80.1	82.7	86.1	103.2	208.9	487.7	1919.2	4014.1
71°	73.3	72.5	73.3	75.9	78.4	82.7	94.6	185.0	399.0	1593.5	3616.8
72°	68.2	69.9	69.9	72.5	75.0	77.6	88.7	161.1	335.1	1273.8	3179.4
72.5°	67.4	67.4	68.2	70.8	72.5	76.7	85.3	154.3	306.1	1122.9	2996.1
73°	64.8	64.8	65.7	68.2	69.9	74.2	82.7	139.0	278.8	999.3	2653.3
74°	62.2	61.4	61.4	64.8	65.7	69.9	77.6	122.8	233.6	752.9	2129.8
75°	58.0	58.0	58.8	60.5	61.4	64.8	71.6	109.1	197.0	584.0	1666.0



REPORT NUMBER: P676202
 CATALOG NUMBER: CCW-SA-2A-840-U-T1

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	47.7	48.6	49.5	51.2	51.2	53.7	58.8	75.9	120.2	295.9	764.8
80°	35.0	36.7	39.2	41.8	40.9	40.9	46.0	54.6	71.6	133.0	293.3
82.5°	28.1	29.8	27.3	30.7	30.7	29.0	33.3	40.1	48.6	65.7	104.9
85°	18.8	19.6	16.2	18.8	17.9	17.9	22.2	23.9	29.8	36.7	52.0
87.5°	8.5	8.5	6.8	7.7	7.7	7.7	11.1	8.5	12.8	17.9	30.7
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: P676202

CATALOG NUMBER: CCW-SA-2A-840-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4	726.4
2.5°	728.1	731.5	731.5	728.1	725.6	728.1	726.4	722.2	726.4	728.1	729.0
5°	738.4	731.5	735.0	727.3	732.4	731.5	729.8	734.1	735.0	735.0	740.9
7.5°	749.4	758.0	746.9	747.7	750.3	740.1	743.5	745.2	741.8	748.6	753.7
10°	769.1	772.5	769.1	756.3	764.8	758.0	755.4	763.1	761.4	763.1	770.8
12.5°	787.0	792.9	783.6	782.7	778.4	772.5	775.9	775.0	787.0	788.7	798.0
15°	823.6	808.3	804.9	804.0	802.3	799.8	801.5	802.3	817.7	820.2	842.4
17.5°	855.2	852.6	833.9	840.7	840.7	830.4	826.2	840.7	852.6	865.4	880.8
20°	887.6	885.0	864.6	865.4	857.7	867.1	862.0	875.6	896.1	900.4	914.0
22.5°	925.9	914.9	900.4	902.1	904.6	897.8	894.4	913.2	933.6	945.6	946.4
25°	986.5	958.3	946.4	948.1	944.7	939.6	942.1	966.0	976.2	1001.8	996.7
27.5°	1018.9	1002.7	994.2	974.5	975.4	967.7	978.0	1013.8	1034.2	1053.8	1014.6
30°	1058.1	1047.9	1010.3	1003.5	1002.7	999.3	1018.0	1064.1	1094.8	1105.8	1049.6
32.5°	1134.8	1093.9	1084.5	1078.6	1064.9	1069.2	1078.6	1139.1	1187.7	1185.1	1082.0
35°	1222.7	1194.5	1168.1	1163.0	1161.3	1149.3	1165.5	1236.3	1273.8	1262.7	1093.9
37.5°	1363.3	1320.7	1284.9	1265.3	1261.9	1253.3	1291.7	1348.0	1396.6	1353.1	1103.3
40°	1432.4	1384.6	1351.4	1339.5	1342.0	1354.0	1391.5	1477.6	1498.9	1418.8	1111.0
42.5°	1531.3	1479.3	1413.6	1407.7	1400.0	1406.0	1478.4	1594.4	1612.3	1507.4	1082.0
45°	1706.9	1628.5	1552.6	1518.5	1520.2	1536.4	1649.0	1776.0	1742.7	1568.8	1035.9
47.5°	1928.6	1813.5	1752.1	1706.1	1728.3	1710.3	1889.4	1990.9	1877.5	1646.4	979.7
50°	2262.0	2100.8	2017.3	1961.9	1971.2	1986.6	2168.2	2254.3	2026.7	1683.9	893.5
52.5°	2682.3	2475.1	2352.4	2278.2	2285.0	2318.3	2552.7	2526.3	2197.2	1715.5	778.4
55°	3185.4	2972.2	2734.3	2703.6	2696.0	2775.3	3033.6	2811.1	2350.7	1665.2	659.1
56°	3451.4	3224.6	2977.3	2914.2	2895.5	2950.9	3254.4	2953.5	2403.5	1608.9	601.9
57°	3677.3	3460.8	3189.6	3082.2	3106.1	3210.1	3473.6	3087.3	2452.1	1550.9	548.2
58°	3987.7	3740.4	3453.9	3372.1	3350.8	3433.5	3709.7	3222.0	2468.3	1491.2	498.8
59°	4297.2	4000.5	3742.1	3592.9	3598.9	3749.8	3942.5	3382.3	2493.0	1415.3	435.7
60°	4532.5	4383.3	4038.0	3926.3	3910.9	4129.2	4174.4	3489.8	2519.5	1313.0	391.4
61°	4865.9	4671.5	4350.0	4206.0	4247.7	4422.5	4425.1	3624.5	2480.3	1183.4	336.8
62°	5105.5	5054.3	4716.7	4579.4	4566.6	4798.5	4686.0	3743.0	2446.2	1060.7	297.6
63°	5386.0	5386.0	5078.2	4970.8	4976.7	5160.0	4799.4	3861.5	2406.9	925.1	261.8
64°	5531.8	5715.1	5431.2	5280.3	5319.5	5478.1	5001.4	3939.1	2285.9	787.8	230.2
65°	5658.0	5933.4	5775.6	5705.7	5646.0	5739.8	5176.2	4011.6	2100.8	670.2	204.6
66°	5764.5	6138.8	6086.8	6011.8	6005.8	5984.5	5210.3	4009.0	1909.9	566.1	179.0
67°	5710.8	6143.1	6237.7	6269.3	6259.9	6034.8	5150.7	3917.8	1665.2	478.3	159.4
67.5°	5662.2	6108.1	6328.1	6310.2	6349.4	6077.4	5160.9	3806.1	1491.2	433.1	150.1
68°	5619.6	6061.2	6364.8	6387.8	6368.2	6082.6	5104.6	3717.4	1372.7	406.7	141.5
69°	5296.5	5838.7	6305.9	6388.7	6338.3	5887.3	4925.6	3486.3	1090.5	347.0	130.5
70°	4972.5	5550.5	6020.3	6172.1	6109.8	5509.6	4699.6	3118.9	899.5	296.7	117.7
71°	4524.0	5015.1	5640.1	5731.3	5656.3	5079.9	4232.4	2730.9	700.0	251.5	104.9
72°	3915.2	4332.1	4929.0	5149.8	5039.0	4461.7	3760.0	2256.9	567.0	211.4	95.5
72.5°	3613.4	4040.5	4616.1	4634.0	4655.3	4193.2	3559.7	1982.3	494.5	196.1	92.9
73°	3326.9	3745.5	4243.5	4306.6	4216.2	3740.4	3260.4	1772.6	451.9	179.0	89.5
74°	2696.0	2934.7	3347.4	3408.8	3329.5	3049.8	2664.4	1359.1	359.8	154.3	81.9
75°	2121.3	2252.6	2626.1	2588.5	2470.0	2372.0	2065.9	1038.5	291.6	135.6	75.9



REPORT NUMBER: P676202
 CATALOG NUMBER: CCW-SA-2A-840-U-T1

CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	953.2	1032.5	1094.8	1094.8	1101.6	1051.3	952.4	476.6	179.9	98.1	62.2
80°	363.2	406.7	420.3	421.2	427.2	442.5	411.8	234.5	106.6	69.9	50.3
82.5°	263.5	368.3	396.5	376.0	377.7	341.0	157.7	104.0	67.4	48.6	36.7
85°	238.7	320.6	339.3	336.8	337.6	315.5	92.9	51.2	39.2	30.7	25.6
87.5°	116.0	113.4	120.2	135.6	132.2	171.4	78.4	25.6	17.1	12.8	12.8
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):

	135°	145°	155°	165°	175°	180°
0°	726.4	726.4	726.4	726.4	726.4	726.4
2.5°	722.2	721.3	733.2	721.3	728.1	723.0
5°	730.7	734.1	736.7	741.8	729.8	741.8
7.5°	756.3	759.7	760.5	764.8	759.7	758.8
10°	775.9	784.4	789.5	772.5	782.7	781.8
12.5°	814.2	805.7	804.9	801.5	792.1	788.7
15°	841.5	828.7	821.1	807.4	796.3	792.1
17.5°	879.9	855.2	823.6	795.5	775.9	760.5
20°	903.8	859.4	796.3	763.1	733.2	740.1
22.5°	919.1	855.2	771.6	729.0	699.1	707.7
25°	924.2	833.9	754.6	701.7	672.7	666.7
27.5°	909.7	809.1	721.3	661.6	636.1	641.2
30°	902.9	773.3	690.6	631.8	597.7	602.8
32.5°	885.0	736.7	649.7	590.0	565.3	556.8
35°	859.4	706.0	610.5	554.2	524.4	517.5
37.5°	827.9	667.6	576.4	508.2	481.7	476.6
40°	781.0	621.6	526.9	468.1	437.4	436.5
42.5°	740.1	577.2	480.9	420.3	389.6	391.4
45°	688.1	517.5	428.0	376.0	345.3	347.0
47.5°	621.6	462.1	377.7	319.7	294.2	292.4
50°	543.1	399.0	316.3	266.9	245.6	241.3
52.5°	468.1	335.1	259.2	214.9	197.0	195.2
55°	373.4	260.9	202.1	168.8	155.2	156.0
56°	339.3	240.4	184.2	154.3	144.1	144.1
57°	306.9	213.2	167.1	142.4	133.0	133.0
58°	271.1	187.6	151.8	128.7	124.5	121.1
59°	246.4	170.5	137.3	121.9	115.1	114.3
60°	217.4	153.5	127.9	114.3	109.1	108.3
61°	192.7	138.1	117.7	106.6	104.9	104.9
62°	172.2	127.9	109.1	103.2	102.3	99.8
63°	154.3	117.7	104.9	98.1	95.5	98.1
64°	138.1	108.3	101.5	96.3	92.9	94.6
65°	125.3	104.0	97.2	93.8	90.4	91.2
66°	116.8	97.2	93.8	89.5	87.8	88.7
67°	105.7	93.8	90.4	86.1	85.3	86.1
67.5°	102.3	91.2	88.7	84.4	83.6	84.4
68°	99.8	89.5	87.8	83.6	82.7	81.9
69°	92.9	86.1	83.6	81.9	80.1	79.3
70°	87.0	82.7	81.0	78.4	76.7	75.9
71°	83.6	78.4	77.6	75.0	73.3	72.5
72°	79.3	75.9	74.2	70.8	69.9	70.8
72.5°	78.4	74.2	73.3	69.9	69.1	69.1
73°	75.9	70.8	71.6	68.2	66.5	68.2
74°	70.8	69.1	67.4	64.8	63.9	63.9
75°	66.5	64.8	63.1	61.4	61.4	61.4



REPORT NUMBER: P676202
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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	56.3	55.4	56.3	52.9	52.0	51.2
80°	45.2	45.2	46.0	43.5	41.8	40.9
82.5°	34.1	35.0	36.7	34.1	32.4	30.7
85°	22.2	23.0	23.0	20.5	23.9	22.2
87.5°	11.1	11.9	11.1	10.2	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)