

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: P676109

Luminaire Tested: **CCW-SA-1B-730-U-T1**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676109  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-730-U-T1  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T1 distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

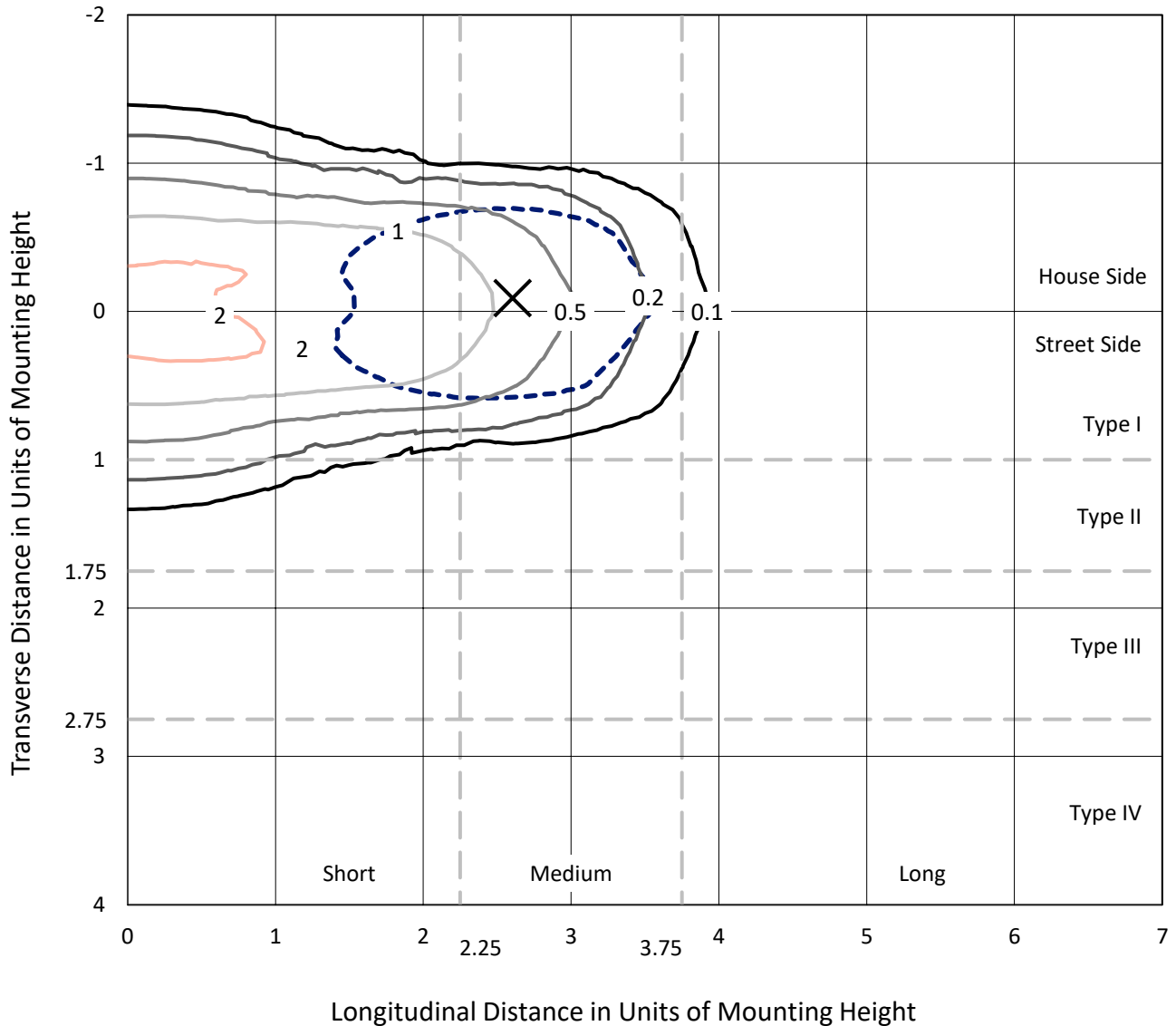
Lumens per Lamp: N/A  
Luminaire Lumens: 3062.4 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 24  
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: P676109  
 CATALOG NUMBER: CCW-SA-1B-730-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

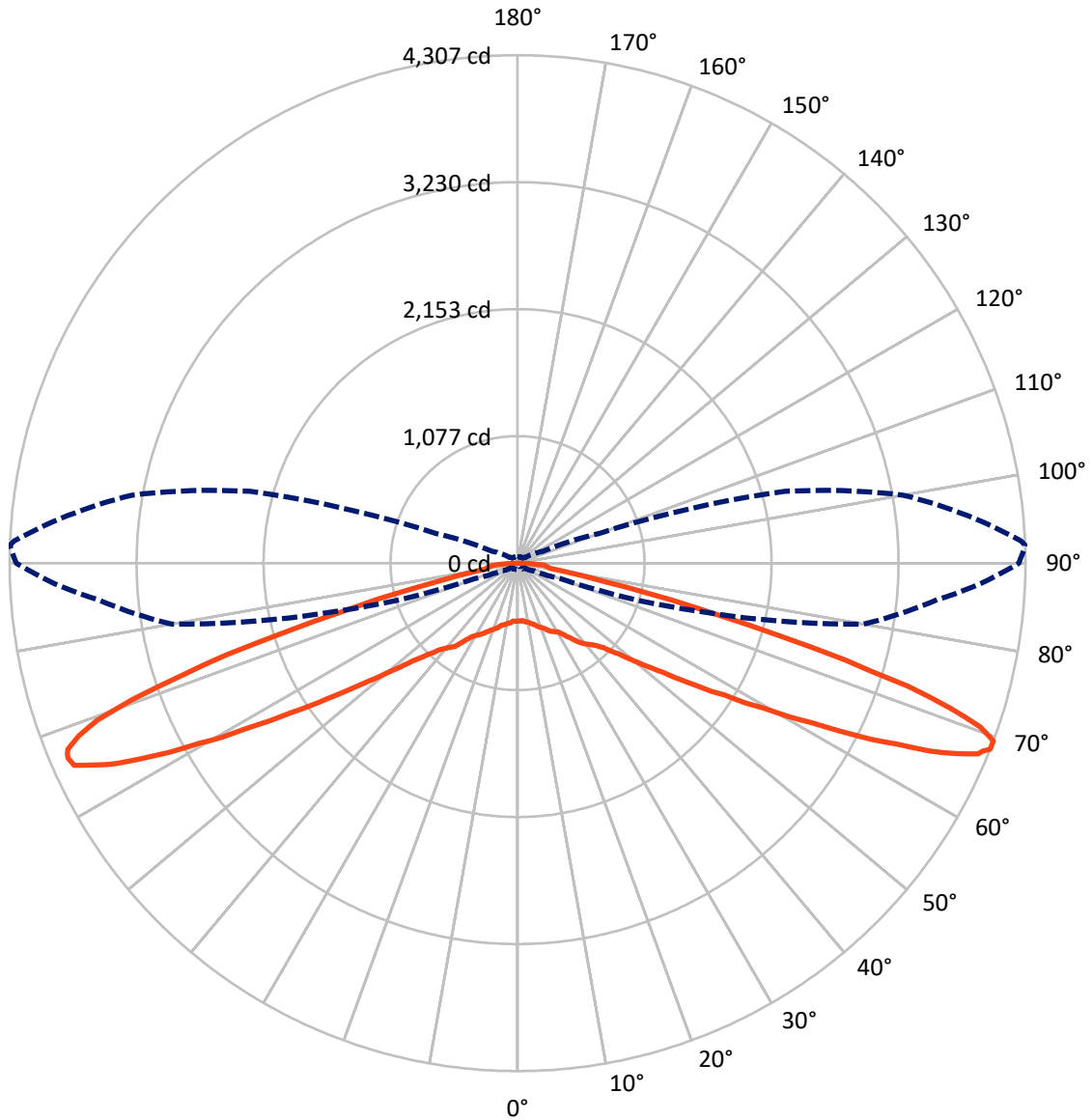
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P676109  
CATALOG NUMBER: CCW-SA-1B-730-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P676109  
 CATALOG NUMBER: CCW-SA-1B-730-U-T1

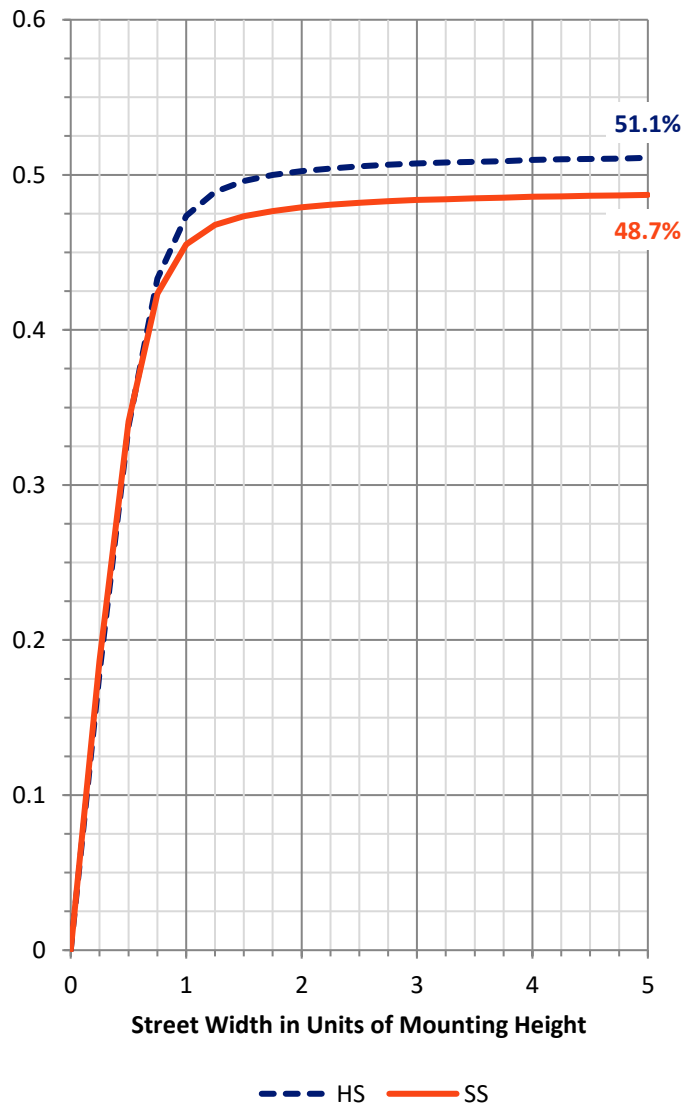
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1577.1	0.0	1577.1
	% Fixture	51.5	0.0	51.5
<b>Street Side</b>	Lumens	1485.3	0.0	1485.3
	% Fixture	48.5	0.0	48.5
<b>Total</b>	Lumens	3062.4	0.0	3062.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	1.6
10°-20°	158.9	5.2
20°-30°	271.1	8.9
30°-40°	378.5	12.4
40°-50°	481.5	15.7
50°-60°	608.8	19.9
60°-70°	750.9	24.5
70°-80°	328.0	10.7
80°-90°	35.6	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°	3062.4	100.0
0°-180°	3062.4	100.0

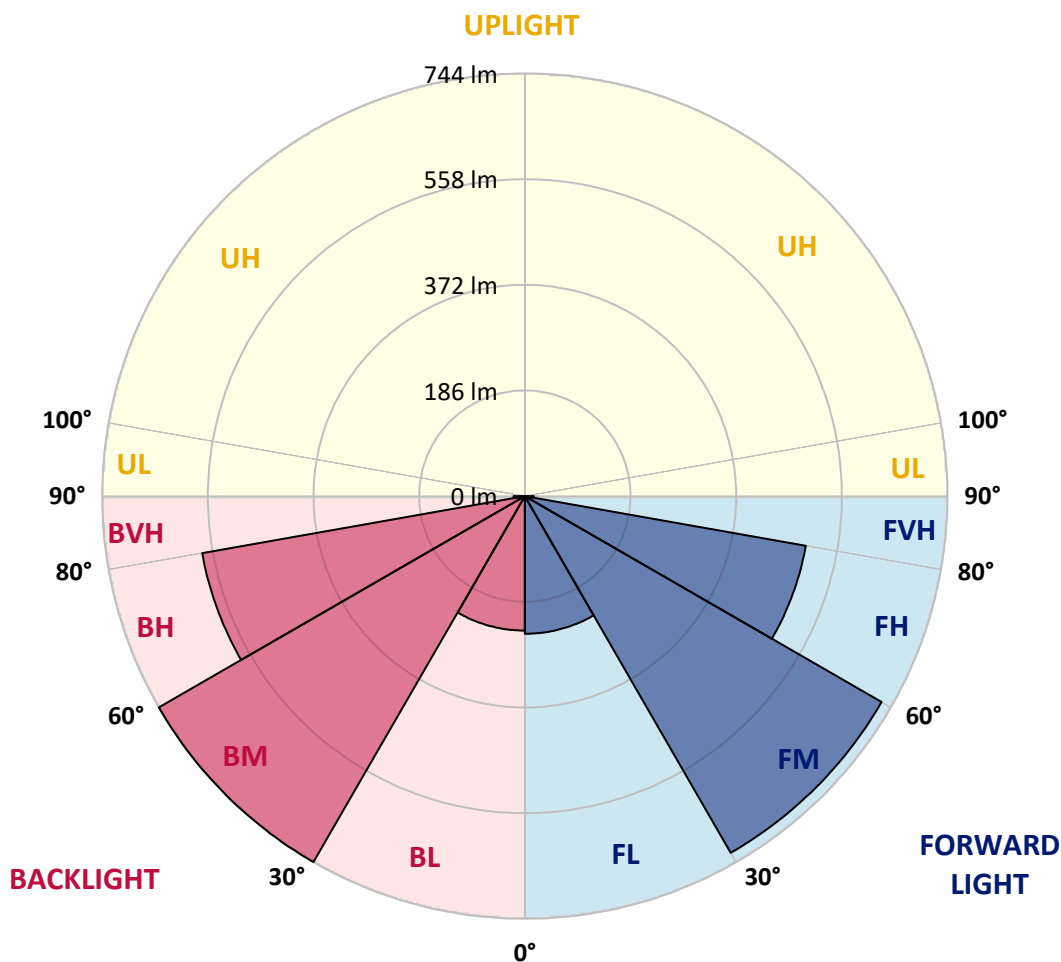


REPORT NUMBER: P676109  
 CATALOG NUMBER: CCW-SA-1B-730-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.4	7.9			
FM (30°-60°)	725.0	23.7			
FH (60°-80°)	502.2	16.4			G0/660
FVH (80°-90°)	15.8	0.5			G1/100
BL (0°-30°)	236.7	7.7	B1/500		
BM (30°-60°)	743.9	24.3	B1/1000		
BH (60°-80°)	576.7	18.8	B2/1000		G2/1000
BVH (80°-90°)	19.8	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: P676109  
 CATALOG NUMBER: CCW-SA-1B-730-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7
2.5°	500.0	499.5	501.2	502.3	497.2	498.9	497.7	496.6	492.6	490.9	487.4
5°	513.8	515.6	521.3	516.1	518.4	515.6	506.4	509.2	504.1	502.9	499.5
7.5°	538.0	534.5	542.6	536.8	538.6	532.8	528.8	523.6	522.5	514.4	515.0
10°	543.2	550.1	553.5	552.4	553.5	556.4	548.9	540.9	529.9	527.6	519.6
12.5°	539.7	546.0	555.2	562.7	567.9	569.0	566.1	564.4	559.8	546.6	546.0
15°	536.3	531.7	537.4	563.3	580.5	592.0	596.0	586.3	587.4	570.2	563.3
17.5°	513.3	506.4	528.8	554.1	575.3	600.6	620.2	617.3	617.3	603.5	593.7
20°	482.8	494.3	505.8	538.0	577.1	615.0	652.4	650.6	643.7	639.7	618.4
22.5°	456.9	462.1	483.4	517.3	566.1	619.0	663.3	694.9	678.8	662.7	650.1
25°	439.1	434.5	461.5	496.6	555.8	612.1	684.0	716.7	725.4	713.3	689.1
27.5°	413.8	413.8	435.1	468.4	522.5	608.7	704.1	754.1	766.7	748.9	713.9
30°	385.1	388.5	406.9	444.9	497.7	583.4	712.1	797.2	807.5	792.0	755.8
32.5°	362.7	362.7	383.4	423.6	480.5	571.9	707.0	839.7	859.3	847.8	810.4
35°	338.5	336.8	351.8	396.0	452.9	549.5	705.2	873.6	917.3	917.9	878.8
37.5°	304.1	310.9	329.9	365.0	431.1	527.6	700.1	914.5	992.6	1005.8	978.8
40°	281.1	283.9	301.2	339.7	397.2	501.8	692.6	947.8	1042.6	1088.0	1050.7
42.5°	247.7	251.7	265.0	312.7	364.4	465.0	659.8	971.4	1113.9	1165.6	1134.0
45°	212.7	215.0	234.5	273.6	329.3	421.3	624.8	1009.3	1182.9	1288.6	1270.2
47.5°	170.7	171.9	188.5	229.3	287.4	377.6	570.7	1007.6	1238.6	1411.6	1463.4
50°	133.3	136.2	148.9	182.2	236.8	324.2	508.1	993.8	1308.7	1551.9	1653.6
52.5°	106.3	106.9	115.0	141.4	182.8	270.7	440.8	950.1	1374.8	1689.2	1887.0
55°	87.9	87.9	92.5	108.6	140.2	205.8	362.1	877.7	1382.9	1841.0	2141.6
56°	84.5	83.3	87.4	101.2	126.4	185.6	325.3	828.8	1394.4	1911.1	2269.2
57°	79.9	80.5	82.8	92.5	113.8	164.4	284.5	781.1	1386.3	1968.6	2363.4
58°	77.6	76.4	81.0	87.4	100.6	146.0	256.3	724.8	1373.7	2015.7	2500.8
59°	74.1	73.6	76.4	82.2	93.7	129.9	221.9	663.9	1349.0	2076.6	2603.1
60°	73.0	72.4	73.6	78.2	86.2	113.8	195.4	592.6	1282.9	2139.3	2730.1
61°	69.5	70.1	72.4	75.3	81.6	102.3	175.9	519.6	1239.8	2192.2	2870.4
62°	70.1	69.0	70.1	72.4	77.0	94.3	154.0	447.7	1162.8	2251.9	2975.6
63°	66.7	66.1	67.8	70.7	73.0	85.1	134.5	386.8	1075.4	2265.7	3064.7
64°	65.5	64.9	65.5	69.5	70.1	79.9	119.0	330.5	948.9	2289.3	3179.0
65°	62.6	62.6	63.8	65.5	67.8	75.3	106.3	286.8	823.1	2227.2	3214.1
66°	60.4	60.9	60.9	63.8	65.5	70.1	97.7	243.7	702.4	2128.4	3248.0
67°	58.6	58.6	59.2	61.5	63.2	66.1	87.9	210.9	592.6	2010.5	3195.7
67.5°	57.5	58.1	58.1	60.4	62.1	66.1	83.9	200.0	529.9	1881.2	3156.6
68°	55.8	56.3	56.3	58.6	60.4	63.8	81.0	182.8	488.6	1797.3	3084.2
69°	54.6	54.0	54.0	56.3	58.6	60.9	75.3	159.8	388.5	1562.8	2978.4
70°	51.2	51.2	52.3	54.0	55.8	58.1	69.5	140.8	328.8	1293.8	2706.0
71°	49.4	48.9	49.4	51.2	52.9	55.8	63.8	124.7	269.0	1074.2	2438.2
72°	46.0	47.1	47.1	48.9	50.6	52.3	59.8	108.6	225.9	858.7	2143.3
72.5°	45.4	45.4	46.0	47.7	48.9	51.7	57.5	104.0	206.3	757.0	2019.7
73°	43.7	43.7	44.3	46.0	47.1	50.0	55.8	93.7	187.9	673.6	1788.7
74°	42.0	41.4	41.4	43.7	44.3	47.1	52.3	82.8	157.5	507.5	1435.8
75°	39.1	39.1	39.7	40.8	41.4	43.7	48.3	73.6	132.8	393.7	1123.1



REPORT NUMBER: P676109  
 CATALOG NUMBER: CCW-SA-1B-730-U-T1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	32.2	32.8	33.3	34.5	34.5	36.2	39.7	51.2	81.0	199.4	515.6
80°	23.6	24.7	26.4	28.2	27.6	27.6	31.0	36.8	48.3	89.7	197.7
82.5°	19.0	20.1	18.4	20.7	20.7	19.5	22.4	27.0	32.8	44.3	70.7
85°	12.6	13.2	10.9	12.6	12.1	12.1	14.9	16.1	20.1	24.7	35.1
87.5°	5.7	5.7	4.6	5.2	5.2	5.2	7.5	5.7	8.6	12.1	20.7
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°	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7	489.7
2.5°	490.9	493.1	493.1	490.9	489.1	490.9	489.7	486.8	489.7	490.9	491.4
5°	497.7	493.1	495.4	490.3	493.7	493.1	492.0	494.9	495.4	495.4	499.5
7.5°	505.2	511.0	503.5	504.1	505.8	498.9	501.2	502.3	500.0	504.6	508.1
10°	518.4	520.7	518.4	509.8	515.6	511.0	509.2	514.4	513.3	514.4	519.6
12.5°	530.5	534.5	528.2	527.6	524.8	520.7	523.0	522.5	530.5	531.7	538.0
15°	555.2	544.9	542.6	542.0	540.9	539.1	540.3	540.9	551.2	552.9	567.9
17.5°	576.5	574.8	562.1	566.7	566.7	559.8	556.9	566.7	574.8	583.4	593.7
20°	598.3	596.6	582.8	583.4	578.2	584.5	581.1	590.3	604.1	607.0	616.1
22.5°	624.2	616.7	607.0	608.1	609.8	605.2	602.9	615.6	629.4	637.4	638.0
25°	665.0	646.0	638.0	639.1	636.8	633.4	635.1	651.2	658.1	675.4	671.9
27.5°	686.8	675.9	670.2	657.0	657.5	652.4	659.3	683.4	697.2	710.4	684.0
30°	713.3	706.4	681.1	676.5	675.9	673.6	686.3	717.3	738.0	745.5	707.5
32.5°	765.0	737.4	731.1	727.1	717.9	720.8	727.1	767.9	800.6	798.9	729.4
35°	824.2	805.2	787.4	784.0	782.8	774.8	785.7	833.4	858.7	851.2	737.4
37.5°	919.1	890.3	866.2	853.0	850.7	844.9	870.8	908.7	941.5	912.2	743.7
40°	965.6	933.4	911.0	903.0	904.7	912.7	938.0	996.1	1010.4	956.4	748.9
42.5°	1032.3	997.2	953.0	948.9	943.8	947.8	996.6	1074.8	1086.9	1016.2	729.4
45°	1150.7	1097.8	1046.6	1023.7	1024.8	1035.7	1111.6	1197.2	1174.8	1057.6	698.3
47.5°	1300.1	1222.5	1181.1	1150.1	1165.1	1153.0	1273.7	1342.1	1265.6	1109.9	660.4
50°	1524.9	1416.2	1359.9	1322.5	1328.9	1339.2	1461.6	1519.7	1366.2	1135.2	602.4
52.5°	1808.2	1668.5	1585.8	1535.8	1540.4	1562.8	1720.9	1703.0	1481.2	1156.4	524.8
55°	2147.3	2003.6	1843.3	1822.6	1817.4	1870.9	2045.0	1895.0	1584.6	1122.5	444.3
56°	2326.7	2173.8	2007.1	1964.6	1951.9	1989.3	2193.9	1991.0	1620.3	1084.6	405.8
57°	2479.0	2333.0	2150.2	2077.8	2093.9	2164.0	2341.6	2081.2	1653.0	1045.5	369.6
58°	2688.2	2521.5	2328.4	2273.2	2258.8	2314.6	2500.8	2172.0	1663.9	1005.3	336.2
59°	2896.8	2696.8	2522.7	2422.1	2426.1	2527.8	2657.7	2280.1	1680.6	954.1	293.7
60°	3055.5	2954.9	2722.1	2646.8	2636.5	2783.6	2814.1	2352.5	1698.4	885.1	263.8
61°	3280.2	3149.1	2932.5	2835.3	2863.5	2981.3	2983.0	2443.3	1672.0	797.8	227.0
62°	3441.7	3407.2	3179.6	3087.1	3078.4	3234.8	3158.9	2523.2	1649.0	715.0	200.6
63°	3630.8	3630.8	3423.3	3350.9	3354.9	3478.5	3235.4	2603.1	1622.6	623.6	176.5
64°	3729.1	3852.7	3661.3	3559.5	3586.0	3692.9	3371.6	2655.4	1540.9	531.1	155.2
65°	3814.2	3999.8	3893.5	3846.3	3806.1	3869.3	3489.4	2704.3	1416.2	451.8	137.9
66°	3886.0	4138.3	4103.3	4052.7	4048.7	4034.3	3512.4	2702.6	1287.5	381.6	120.7
67°	3849.8	4141.2	4205.0	4226.3	4219.9	4068.2	3472.2	2641.1	1122.5	322.4	107.5
67.5°	3817.0	4117.6	4265.9	4253.8	4280.3	4096.9	3479.1	2565.8	1005.3	292.0	101.2
68°	3788.3	4086.0	4290.6	4306.2	4292.9	4100.4	3441.1	2506.0	925.4	274.2	95.4
69°	3570.4	3936.0	4251.0	4306.7	4272.8	3968.8	3320.4	2350.2	735.1	233.9	87.9
70°	3352.0	3741.7	4058.4	4160.7	4118.8	3714.1	3168.1	2102.5	606.4	200.0	79.3
71°	3049.7	3380.8	3802.1	3863.6	3813.0	3424.5	2853.1	1841.0	471.9	169.6	70.7
72°	2639.3	2920.4	3322.7	3471.6	3396.9	3007.8	2534.7	1521.4	382.2	142.5	64.4
72.5°	2435.9	2723.8	3111.8	3123.9	3138.2	2826.7	2399.7	1336.3	333.4	132.2	62.6
73°	2242.7	2524.9	2860.6	2903.1	2842.2	2521.5	2197.9	1194.9	304.6	120.7	60.4
74°	1817.4	1978.3	2256.5	2297.9	2244.5	2055.9	1796.1	916.2	242.6	104.0	55.2
75°	1430.0	1518.5	1770.3	1745.0	1665.1	1599.0	1392.7	700.1	196.6	91.4	51.2



REPORT NUMBER: P676109  
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**CANDELA DISTRIBUTION (continued):**

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	642.6	696.0	738.0	738.0	742.6	708.7	642.0	321.3	121.3	66.1	42.0
80°	244.9	274.2	283.4	283.9	288.0	298.3	277.6	158.1	71.8	47.1	33.9
82.5°	177.6	248.3	267.3	253.5	254.6	229.9	106.3	70.1	45.4	32.8	24.7
85°	160.9	216.1	228.8	227.0	227.6	212.7	62.6	34.5	26.4	20.7	17.2
87.5°	78.2	76.4	81.0	91.4	89.1	115.5	52.9	17.2	11.5	8.6	8.6
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°	489.7	489.7	489.7	489.7	489.7	489.7
2.5°	486.8	486.3	494.3	486.3	490.9	487.4
5°	492.6	494.9	496.6	500.0	492.0	500.0
7.5°	509.8	512.1	512.7	515.6	512.1	511.5
10°	523.0	528.8	532.2	520.7	527.6	527.1
12.5°	548.9	543.2	542.6	540.3	534.0	531.7
15°	567.3	558.7	553.5	544.3	536.8	534.0
17.5°	593.2	576.5	555.2	536.3	523.0	512.7
20°	609.3	579.4	536.8	514.4	494.3	498.9
22.5°	619.6	576.5	520.2	491.4	471.3	477.1
25°	623.0	562.1	508.7	473.0	453.5	449.5
27.5°	613.3	545.5	486.3	446.0	428.8	432.2
30°	608.7	521.3	465.6	425.9	402.9	406.4
32.5°	596.6	496.6	438.0	397.7	381.1	375.3
35°	579.4	475.9	411.5	373.6	353.5	348.9
37.5°	558.1	450.0	388.5	342.6	324.7	321.3
40°	526.5	419.0	355.2	315.5	294.9	294.3
42.5°	498.9	389.1	324.2	283.4	262.7	263.8
45°	463.8	348.9	288.5	253.5	232.8	233.9
47.5°	419.0	311.5	254.6	215.5	198.3	197.1
50°	366.1	269.0	213.2	179.9	165.5	162.7
52.5°	315.5	225.9	174.7	144.8	132.8	131.6
55°	251.7	175.9	136.2	113.8	104.6	105.2
56°	228.8	162.1	124.1	104.0	97.1	97.1
57°	206.9	143.7	112.7	96.0	89.7	89.7
58°	182.8	126.4	102.3	86.8	83.9	81.6
59°	166.1	115.0	92.5	82.2	77.6	77.0
60°	146.6	103.5	86.2	77.0	73.6	73.0
61°	129.9	93.1	79.3	71.8	70.7	70.7
62°	116.1	86.2	73.6	69.5	69.0	67.2
63°	104.0	79.3	70.7	66.1	64.4	66.1
64°	93.1	73.0	68.4	64.9	62.6	63.8
65°	84.5	70.1	65.5	63.2	60.9	61.5
66°	78.7	65.5	63.2	60.4	59.2	59.8
67°	71.3	63.2	60.9	58.1	57.5	58.1
67.5°	69.0	61.5	59.8	56.9	56.3	56.9
68°	67.2	60.4	59.2	56.3	55.8	55.2
69°	62.6	58.1	56.3	55.2	54.0	53.5
70°	58.6	55.8	54.6	52.9	51.7	51.2
71°	56.3	52.9	52.3	50.6	49.4	48.9
72°	53.5	51.2	50.0	47.7	47.1	47.7
72.5°	52.9	50.0	49.4	47.1	46.6	46.6
73°	51.2	47.7	48.3	46.0	44.8	46.0
74°	47.7	46.6	45.4	43.7	43.1	43.1
75°	44.8	43.7	42.5	41.4	41.4	41.4



REPORT NUMBER: P676109  
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**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
77.5°	37.9	37.4	37.9	35.6	35.1	34.5
80°	30.5	30.5	31.0	29.3	28.2	27.6
82.5°	23.0	23.6	24.7	23.0	21.8	20.7
85°	14.9	15.5	15.5	13.8	16.1	14.9
87.5°	7.5	8.0	7.5	6.9	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)