

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: P676093

Luminaire Tested: **CCW-SA-2B-722-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676093
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-722-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T1 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

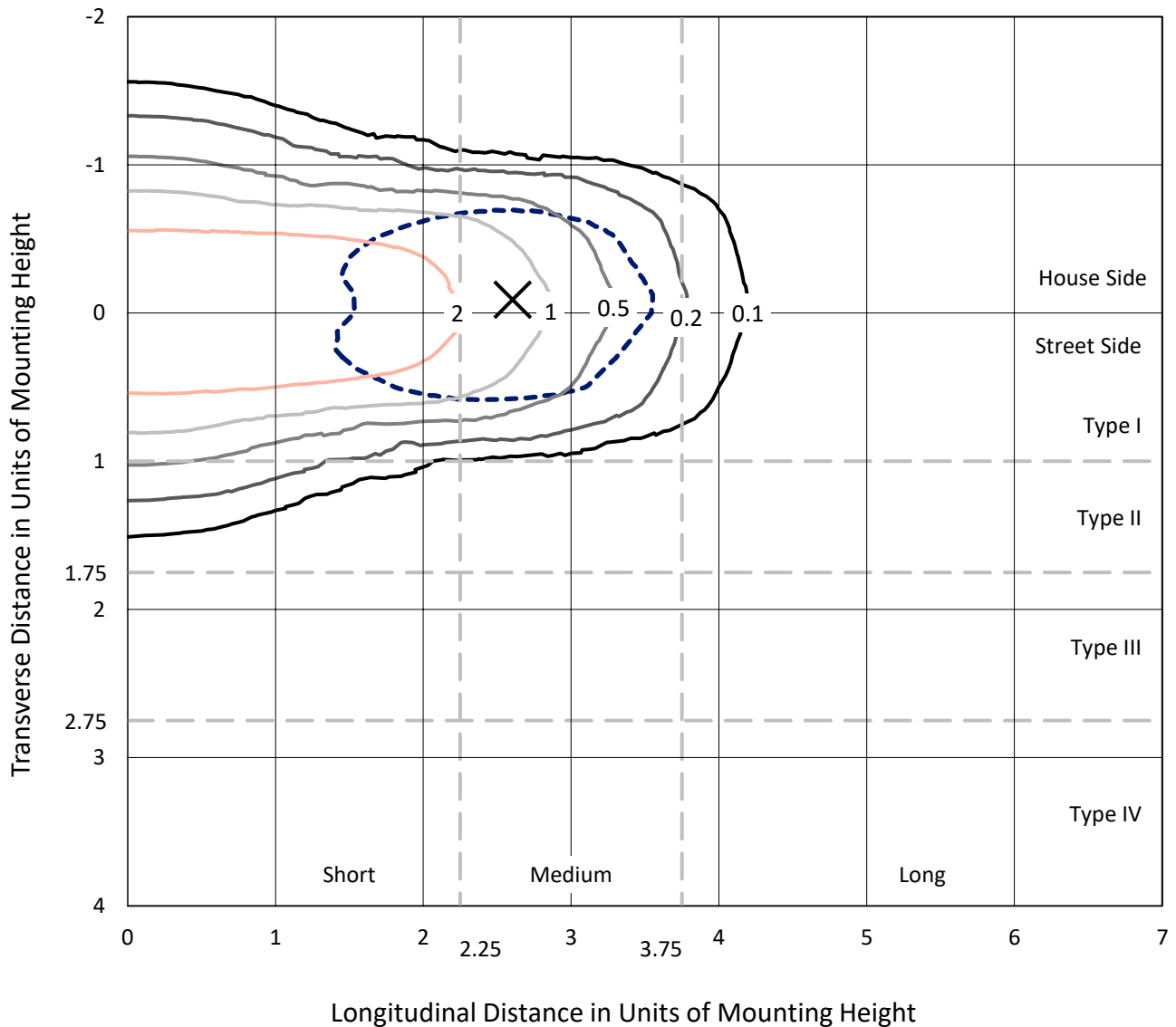
Lumens per Lamp: N/A
Luminaire Lumens: 4953.7 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 46
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

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Iso-Footcandle Lines of Horizontal Illumination

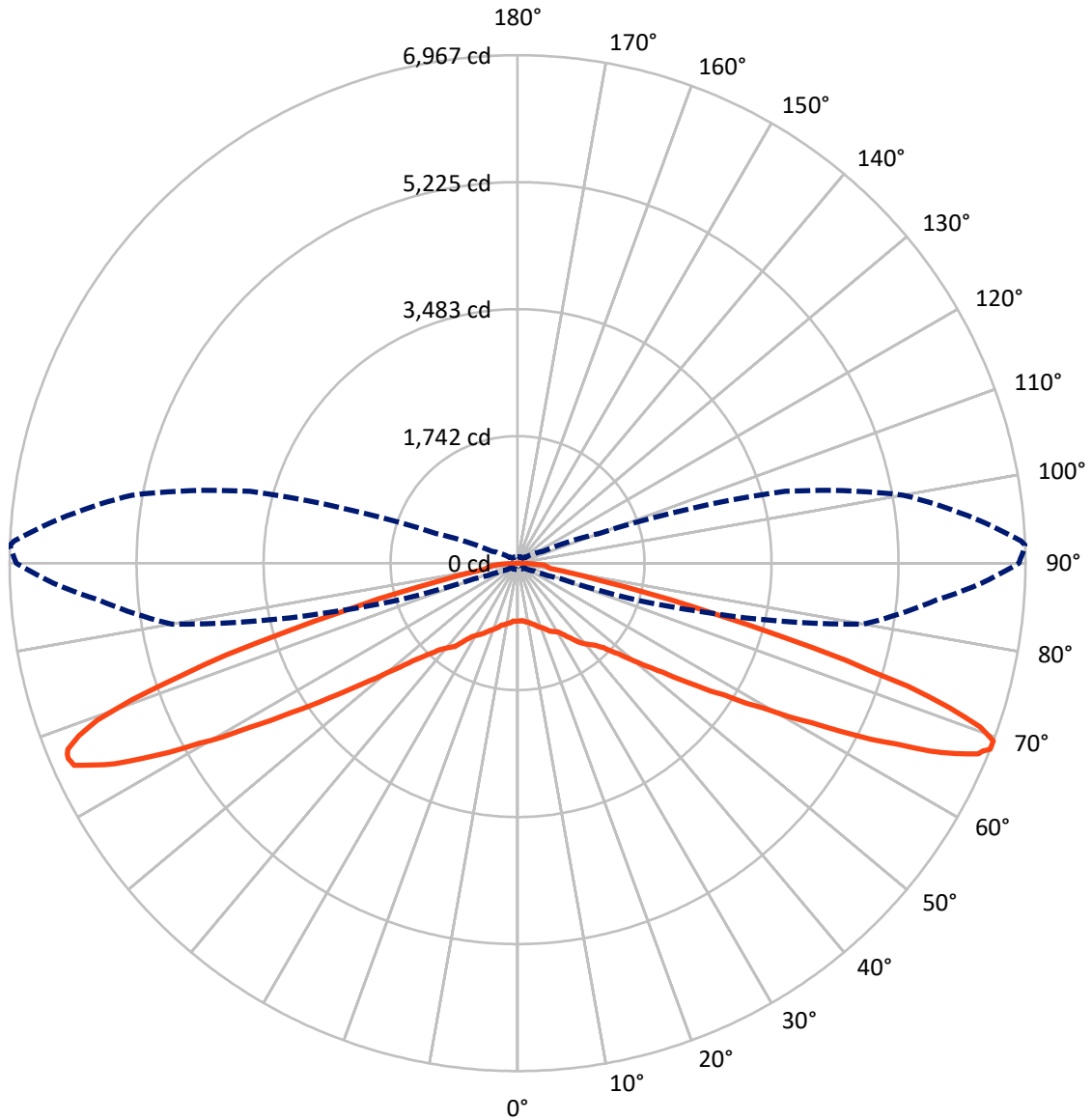
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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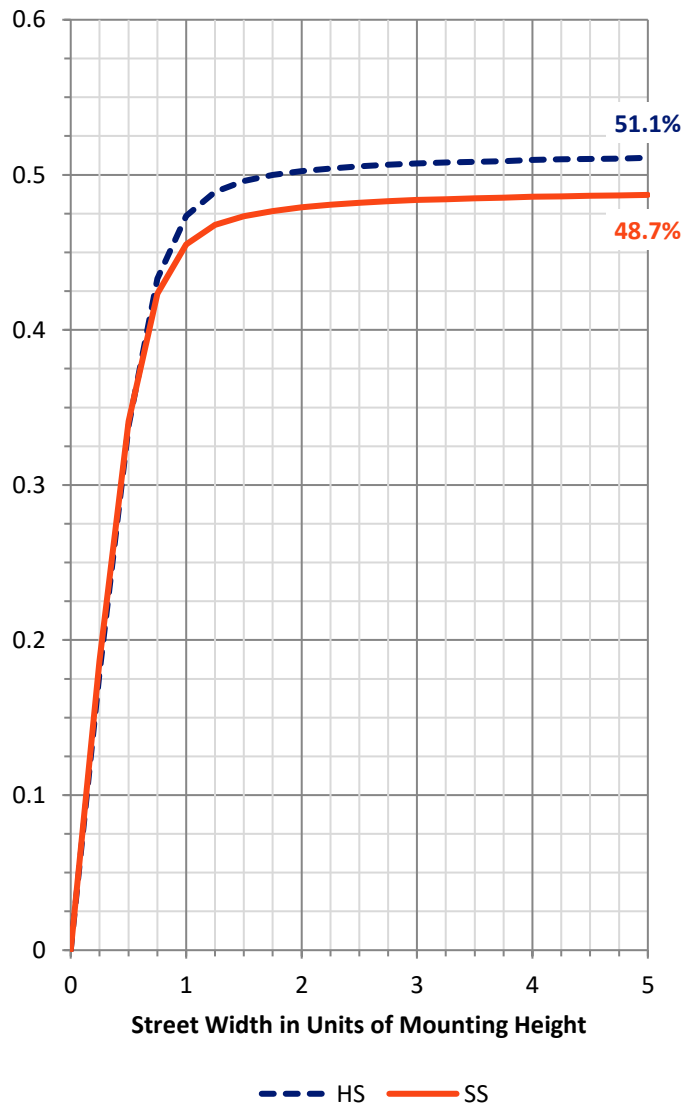
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2551.1	0.0	2551.1
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2402.6	0.0	2402.6
	% Fixture	48.5	0.0	48.5
Total	Lumens	4953.7	0.0	4953.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.6
10°-20°	257.0	5.2
20°-30°	438.6	8.9
30°-40°	612.3	12.4
40°-50°	778.9	15.7
50°-60°	984.9	19.9
60°-70°	1214.6	24.5
70°-80°	530.6	10.7
80°-90°	57.6	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°	4953.7	100.0
0°-180°	4953.7	100.0



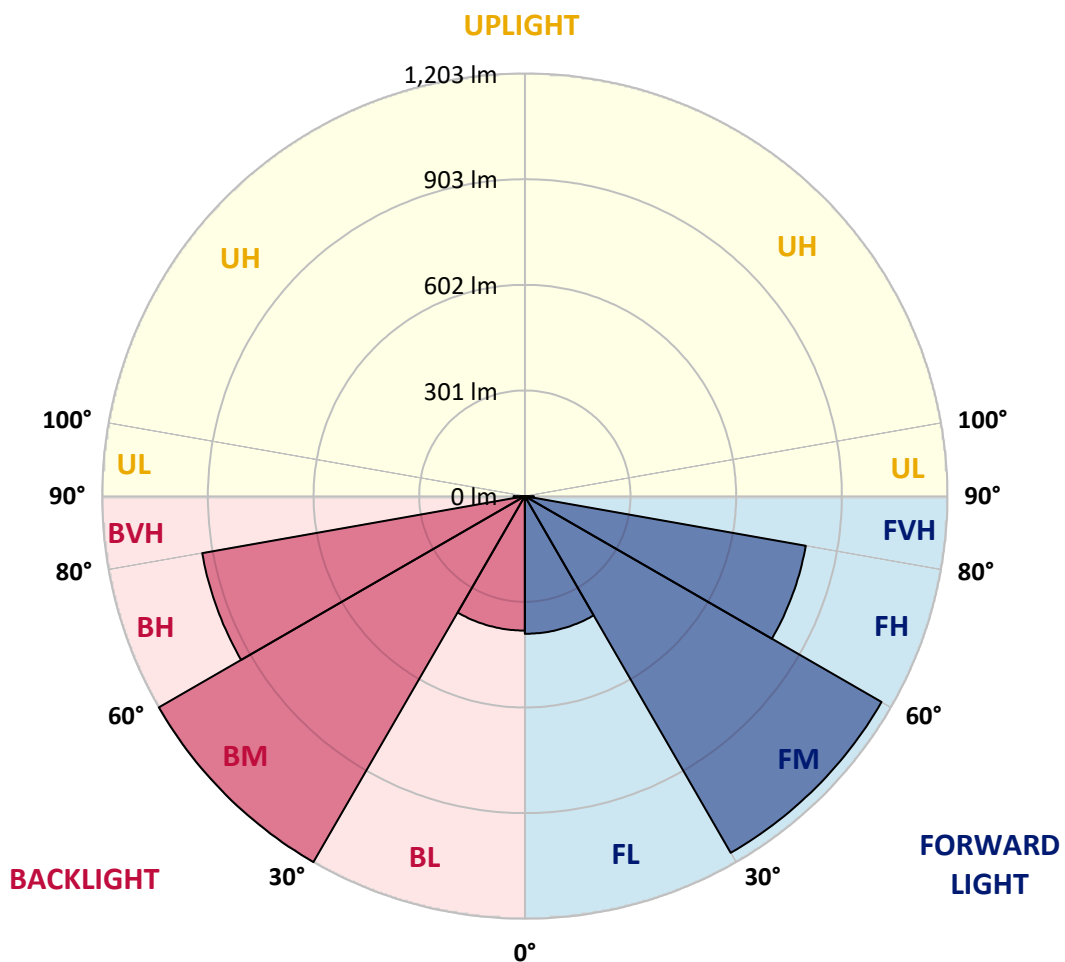
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.0	7.9			
FM (30°-60°)	1172.8	23.7			
FH (60°-80°)	812.3	16.4			G1/1800
FVH (80°-90°)	25.5	0.5			G1/100
BL (0°-30°)	382.8	7.7	B1/500		
BM (30°-60°)	1203.4	24.3	B2/2500		
BH (60°-80°)	932.9	18.8	B2/1000		G2/1000
BVH (80°-90°)	32.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1
2.5°	808.9	807.9	810.7	812.6	804.2	807.0	805.2	803.3	796.8	794.0	788.4
5°	831.2	834.0	843.3	834.9	838.6	834.0	819.1	823.8	815.4	813.5	807.9
7.5°	870.2	864.7	877.7	868.4	871.2	861.9	855.4	847.0	845.1	832.1	833.0
10°	878.6	889.8	895.3	893.5	895.3	900.0	887.9	874.9	857.2	853.5	840.5
12.5°	873.0	883.3	898.1	910.2	918.6	920.4	915.8	913.0	905.6	884.2	883.3
15°	867.4	860.0	869.3	911.1	939.0	957.6	964.1	948.3	950.2	922.3	911.1
17.5°	830.3	819.1	855.4	896.3	930.7	971.6	1003.2	998.5	998.5	976.2	960.4
20°	781.0	799.6	818.2	870.2	933.5	994.8	1055.3	1052.5	1041.3	1034.8	1000.4
22.5°	739.1	747.5	781.9	836.8	915.8	1001.3	1072.9	1124.1	1098.0	1072.0	1051.5
25°	710.3	702.9	746.6	803.3	899.1	990.2	1106.4	1159.4	1173.3	1153.8	1114.8
27.5°	669.4	669.4	703.8	757.7	845.1	984.6	1138.9	1219.8	1240.3	1211.5	1154.7
30°	622.9	628.5	658.3	719.6	805.2	943.7	1152.0	1289.6	1306.3	1281.2	1222.6
32.5°	586.7	586.7	620.1	685.2	777.3	925.1	1143.6	1358.4	1390.0	1371.4	1310.9
35°	547.6	544.8	569.0	640.6	732.6	888.8	1140.8	1413.2	1483.9	1484.8	1421.6
37.5°	491.8	503.0	533.7	590.4	697.3	853.5	1132.4	1479.2	1605.7	1627.0	1583.4
40°	454.6	459.3	487.2	549.5	642.5	811.7	1120.3	1533.1	1686.6	1760.0	1699.6
42.5°	400.7	407.2	428.6	505.8	589.5	752.2	1067.3	1571.3	1801.8	1885.5	1834.4
45°	344.0	347.7	379.3	442.6	532.7	681.5	1010.6	1632.6	1913.4	2084.5	2054.7
47.5°	276.1	278.0	305.0	371.0	464.9	610.8	923.2	1629.8	2003.6	2283.4	2367.1
50°	215.7	220.3	240.8	294.7	383.1	524.4	821.9	1607.5	2117.0	2510.3	2674.9
52.5°	172.0	172.9	185.9	228.7	295.7	437.9	713.1	1536.9	2223.9	2732.5	3052.3
55°	142.3	142.3	149.7	175.7	226.9	332.8	585.7	1419.7	2237.0	2978.0	3464.2
56°	136.7	134.8	141.3	163.6	204.5	300.3	526.2	1340.7	2255.6	3091.4	3670.6
57°	129.2	130.2	133.9	149.7	184.1	265.9	460.2	1263.5	2242.5	3184.4	3823.1
58°	125.5	123.7	131.1	141.3	162.7	236.2	414.7	1172.4	2222.1	3260.6	4045.3
59°	119.9	119.0	123.7	133.0	151.5	210.1	358.9	1073.9	2182.1	3359.2	4210.8
60°	118.1	117.1	119.0	126.4	139.5	184.1	316.1	958.6	2075.2	3460.5	4416.3
61°	112.5	113.4	117.1	121.8	132.0	165.5	284.5	840.5	2005.5	3546.0	4643.1
62°	113.4	111.6	113.4	117.1	124.6	152.5	249.2	724.3	1880.9	3642.7	4813.3
63°	107.9	106.9	109.7	114.4	118.1	137.6	217.6	625.7	1739.5	3665.0	4957.4
64°	106.0	105.1	106.0	112.5	113.4	129.2	192.5	534.6	1535.0	3703.2	5142.4
65°	101.3	101.3	103.2	106.0	109.7	121.8	172.0	463.9	1331.4	3602.8	5199.1
66°	97.6	98.6	98.6	103.2	106.0	113.4	158.1	394.2	1136.1	3442.8	5254.0
67°	94.8	94.8	95.8	99.5	102.3	106.9	142.3	341.2	958.6	3252.2	5169.4
67.5°	93.0	93.9	93.9	97.6	100.4	106.9	135.7	323.6	857.2	3043.0	5106.1
68°	90.2	91.1	91.1	94.8	97.6	103.2	131.1	295.7	790.3	2907.3	4989.0
69°	88.3	87.4	87.4	91.1	94.8	98.6	121.8	258.5	628.5	2528.0	4817.9
70°	82.7	82.7	84.6	87.4	90.2	93.9	112.5	227.8	531.8	2092.8	4377.2
71°	80.0	79.0	80.0	82.7	85.5	90.2	103.2	201.8	435.1	1737.7	3944.0
72°	74.4	76.2	76.2	79.0	81.8	84.6	96.7	175.7	365.4	1389.0	3467.0
72.5°	73.4	73.4	74.4	77.2	79.0	83.7	93.0	168.3	333.8	1224.5	3267.1
73°	70.7	70.7	71.6	74.4	76.2	80.9	90.2	151.5	304.0	1089.7	2893.4
74°	67.9	66.9	66.9	70.7	71.6	76.2	84.6	133.9	254.7	821.0	2322.5
75°	63.2	63.2	64.2	66.0	66.9	70.7	78.1	119.0	214.8	636.9	1816.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	52.1	53.0	53.9	55.8	55.8	58.6	64.2	82.7	131.1	322.6	834.0
80°	38.1	40.0	42.8	45.6	44.6	44.6	50.2	59.5	78.1	145.0	319.8
82.5°	30.7	32.5	29.8	33.5	33.5	31.6	36.3	43.7	53.0	71.6	114.4
85°	20.5	21.4	17.7	20.5	19.5	19.5	24.2	26.0	32.5	40.0	56.7
87.5°	9.3	9.3	7.4	8.4	8.4	8.4	12.1	9.3	13.9	19.5	33.5
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°	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1
2.5°	794.0	797.7	797.7	794.0	791.2	794.0	792.1	787.5	792.1	794.0	794.9
5°	805.2	797.7	801.4	793.1	798.6	797.7	795.9	800.5	801.4	801.4	807.9
7.5°	817.2	826.5	814.5	815.4	818.2	807.0	810.7	812.6	808.9	816.3	821.9
10°	838.6	842.3	838.6	824.7	834.0	826.5	823.8	832.1	830.3	832.1	840.5
12.5°	858.2	864.7	854.4	853.5	848.9	842.3	846.1	845.1	858.2	860.0	870.2
15°	898.1	881.4	877.7	876.7	874.9	872.1	874.0	874.9	891.6	894.4	918.6
17.5°	932.5	929.7	909.3	916.7	916.7	905.6	900.9	916.7	929.7	943.7	960.4
20°	967.9	965.1	942.8	943.7	935.3	945.5	940.0	954.8	977.2	981.8	996.7
22.5°	1009.7	997.6	981.8	983.7	986.5	979.0	975.3	995.8	1018.1	1031.1	1032.0
25°	1075.7	1045.0	1032.0	1033.9	1030.2	1024.6	1027.4	1053.4	1064.6	1092.4	1086.9
27.5°	1111.0	1093.4	1084.1	1062.7	1063.6	1055.3	1066.4	1105.5	1127.8	1149.2	1106.4
30°	1153.8	1142.7	1101.7	1094.3	1093.4	1089.7	1110.1	1160.3	1193.8	1205.9	1144.5
32.5°	1237.5	1192.9	1182.6	1176.1	1161.2	1165.9	1176.1	1242.1	1295.1	1292.3	1179.8
35°	1333.3	1302.6	1273.7	1268.2	1266.3	1253.3	1271.0	1348.1	1389.0	1376.9	1192.9
37.5°	1486.7	1440.2	1401.1	1379.7	1376.0	1366.7	1408.6	1469.9	1522.9	1475.5	1203.1
40°	1562.0	1509.9	1473.6	1460.6	1463.4	1476.4	1517.3	1611.2	1634.5	1547.1	1211.5
42.5°	1669.8	1613.1	1541.5	1535.0	1526.6	1533.1	1612.2	1738.6	1758.1	1643.8	1179.8
45°	1861.3	1775.8	1693.1	1655.9	1657.7	1675.4	1798.1	1936.7	1900.4	1710.7	1129.6
47.5°	2103.1	1977.6	1910.6	1860.4	1884.6	1865.1	2060.3	2170.9	2047.3	1795.3	1068.3
50°	2466.6	2290.9	2199.8	2139.3	2149.6	2166.3	2364.3	2458.2	2210.0	1836.2	974.4
52.5°	2925.0	2699.0	2565.2	2484.3	2491.7	2528.0	2783.6	2754.8	2395.9	1870.6	848.9
55°	3473.5	3241.1	2981.7	2948.2	2939.8	3026.3	3308.0	3065.4	2563.3	1815.8	718.7
56°	3763.6	3516.3	3246.7	3177.9	3157.4	3217.8	3548.8	3220.6	2620.9	1754.4	656.4
57°	4010.0	3773.8	3478.2	3361.0	3387.1	3500.5	3787.8	3366.6	2673.9	1691.2	597.8
58°	4348.4	4078.8	3766.4	3677.1	3653.9	3744.1	4045.3	3513.5	2691.6	1626.1	543.9
59°	4685.9	4362.3	4080.6	3917.9	3924.4	4089.0	4299.1	3688.3	2718.6	1543.4	475.1
60°	4942.5	4779.8	4403.3	4281.5	4264.7	4502.7	4552.0	3805.4	2747.4	1431.8	426.8
61°	5306.0	5094.1	4743.5	4586.4	4632.0	4822.6	4825.4	3952.3	2704.6	1290.5	367.2
62°	5567.3	5511.5	5143.3	4993.6	4979.7	5232.6	5109.9	4081.6	2667.4	1156.6	324.5
63°	5873.2	5873.2	5537.5	5420.4	5426.9	5626.8	5233.5	4210.8	2624.7	1008.8	285.4
64°	6032.2	6232.1	5922.5	5757.9	5800.7	5973.6	5453.9	4295.4	2492.6	859.1	251.0
65°	6169.8	6470.1	6298.1	6221.8	6156.8	6259.0	5644.5	4374.4	2290.9	730.8	223.1
66°	6286.0	6694.1	6637.4	6555.6	6549.1	6525.9	5681.7	4371.6	2082.6	617.3	195.2
67°	6227.4	6698.8	6802.0	6836.4	6826.2	6580.7	5616.6	4272.2	1815.8	521.6	173.9
67.5°	6174.4	6660.7	6900.5	6881.0	6923.8	6627.2	5627.7	4150.4	1626.1	472.3	163.6
68°	6127.9	6609.5	6940.5	6965.6	6944.2	6632.8	5566.4	4053.7	1496.9	443.5	154.3
69°	5775.6	6366.9	6876.4	6966.6	6911.7	6419.9	5371.1	3801.7	1189.1	378.4	142.3
70°	5422.3	6052.6	6564.9	6730.4	6662.5	6008.0	5124.7	3401.0	980.9	323.6	128.3
71°	4933.2	5468.7	6150.2	6249.7	6167.9	5539.4	4615.2	2978.0	763.3	274.3	114.4
72°	4269.4	4724.0	5374.8	5615.6	5494.8	4865.3	4100.2	2461.0	618.3	230.6	104.1
72.5°	3940.2	4406.0	5033.6	5053.1	5076.4	4572.5	3881.7	2161.7	539.3	213.8	101.3
73°	3627.9	4084.4	4627.3	4696.1	4597.6	4078.8	3555.3	1932.9	492.8	195.2	97.6
74°	2939.8	3200.2	3650.2	3717.1	3630.6	3325.7	2905.4	1482.0	392.4	168.3	89.3
75°	2313.2	2456.4	2863.6	2822.7	2693.5	2586.5	2252.8	1132.4	318.0	147.8	82.7



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1039.5	1125.9	1193.8	<i>1193.8</i>	1201.2	1146.4	1038.5	519.7	196.2	106.9	67.9
80°	396.1	443.5	458.4	<i>459.3</i>	465.8	482.5	449.1	255.7	116.2	76.2	54.9
82.5°	287.3	401.6	432.3	<i>410.0</i>	411.9	371.9	172.0	113.4	73.4	53.0	40.0
85°	260.3	349.6	370.0	<i>367.2</i>	368.2	344.0	101.3	55.8	42.8	33.5	27.9
87.5°	126.4	123.7	131.1	<i>147.8</i>	144.1	186.9	85.5	27.9	18.6	13.9	13.9
90°	0.0	0.0	0.0	<i>0.0</i>	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°	792.1	792.1	792.1	792.1	792.1	792.1
2.5°	787.5	786.6	799.6	786.6	794.0	788.4
5°	796.8	800.5	803.3	808.9	795.9	808.9
7.5°	824.7	828.4	829.3	834.0	828.4	827.5
10°	846.1	855.4	860.9	842.3	853.5	852.6
12.5°	887.9	878.6	877.7	874.0	863.7	860.0
15°	917.7	903.7	895.3	880.5	868.4	863.7
17.5°	959.5	932.5	898.1	867.4	846.1	829.3
20°	985.5	937.2	868.4	832.1	799.6	807.0
22.5°	1002.3	932.5	841.4	794.9	762.4	771.7
25°	1007.8	909.3	822.8	765.2	733.6	727.1
27.5°	992.0	882.3	786.6	721.5	693.6	699.2
30°	984.6	843.3	753.1	688.9	651.7	657.3
32.5°	965.1	803.3	708.5	643.4	616.4	607.1
35°	937.2	769.8	665.7	604.3	571.8	564.4
37.5°	902.8	728.0	628.5	554.1	525.3	519.7
40°	851.6	677.8	574.6	510.4	477.0	476.0
42.5°	807.0	629.4	524.4	458.4	424.9	426.8
45°	750.3	564.4	466.7	410.0	376.5	378.4
47.5°	677.8	503.9	411.9	348.7	320.8	318.9
50°	592.2	435.1	344.9	291.0	267.8	263.1
52.5°	510.4	365.4	282.6	234.3	214.8	212.9
55°	407.2	284.5	220.3	184.1	169.2	170.1
56°	370.0	262.2	200.8	168.3	157.1	157.1
57°	334.7	232.4	182.2	155.3	145.0	145.0
58°	295.7	204.5	165.5	140.4	135.7	132.0
59°	268.7	185.9	149.7	133.0	125.5	124.6
60°	237.1	167.4	139.5	124.6	119.0	118.1
61°	210.1	150.6	128.3	116.2	114.4	114.4
62°	187.8	139.5	119.0	112.5	111.6	108.8
63°	168.3	128.3	114.4	106.9	104.1	106.9
64°	150.6	118.1	110.6	105.1	101.3	103.2
65°	136.7	113.4	106.0	102.3	98.6	99.5
66°	127.4	106.0	102.3	97.6	95.8	96.7
67°	115.3	102.3	98.6	93.9	93.0	93.9
67.5°	111.6	99.5	96.7	92.0	91.1	92.0
68°	108.8	97.6	95.8	91.1	90.2	89.3
69°	101.3	93.9	91.1	89.3	87.4	86.5
70°	94.8	90.2	88.3	85.5	83.7	82.7
71°	91.1	85.5	84.6	81.8	80.0	79.0
72°	86.5	82.7	80.9	77.2	76.2	77.2
72.5°	85.5	80.9	80.0	76.2	75.3	75.3
73°	82.7	77.2	78.1	74.4	72.5	74.4
74°	77.2	75.3	73.4	70.7	69.7	69.7
75°	72.5	70.7	68.8	66.9	66.9	66.9



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	61.4	60.4	61.4	57.6	56.7	55.8
80°	49.3	49.3	50.2	47.4	45.6	44.6
82.5°	37.2	38.1	40.0	37.2	35.3	33.5
85°	24.2	25.1	25.1	22.3	26.0	24.2
87.5°	12.1	13.0	12.1	11.2	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)