

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: P676168

Luminaire Tested: **CCW-SA-1F-827-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676168
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T1 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

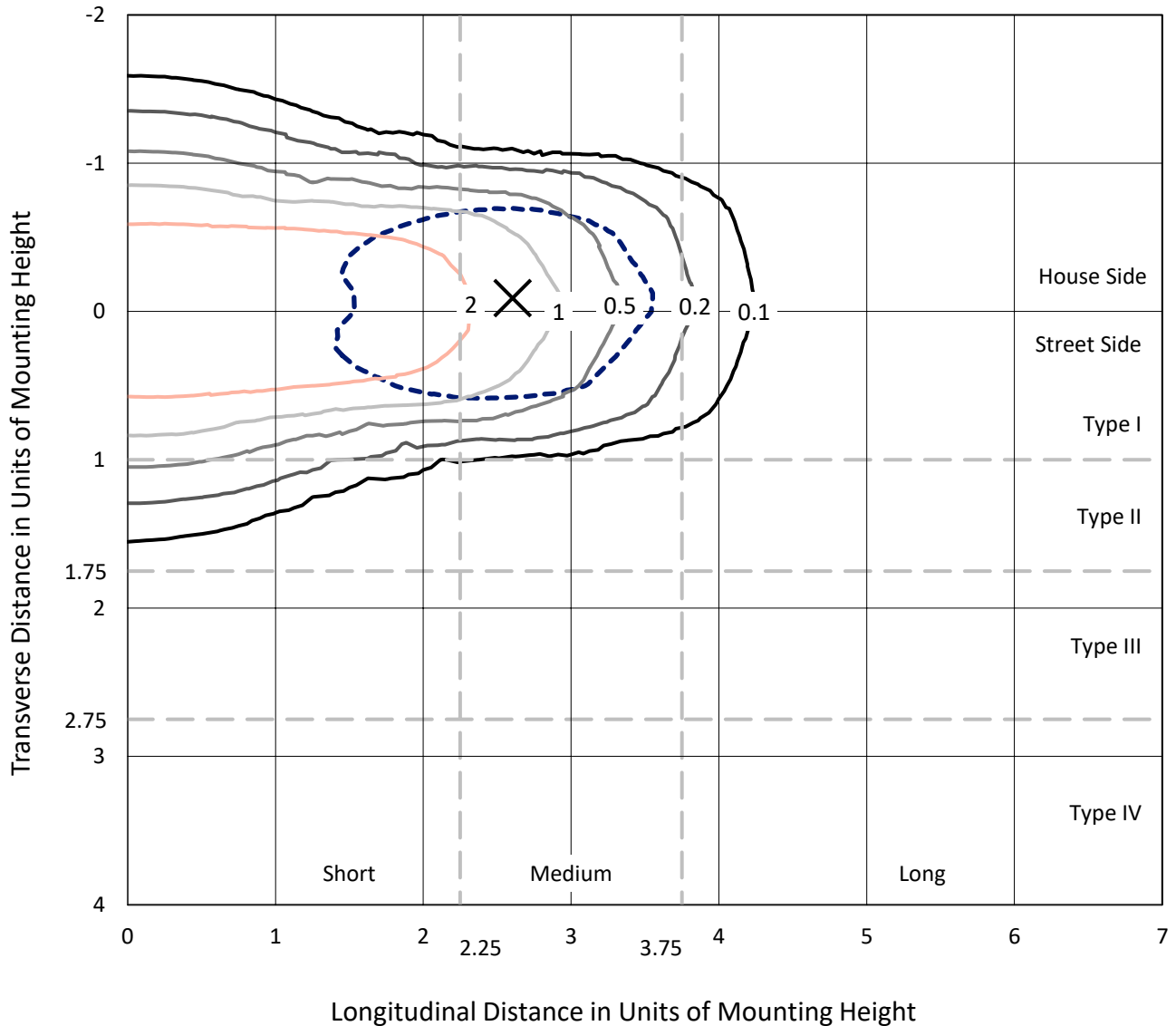
Lumens per Lamp: N/A
Luminaire Lumens: 5367 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 67
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

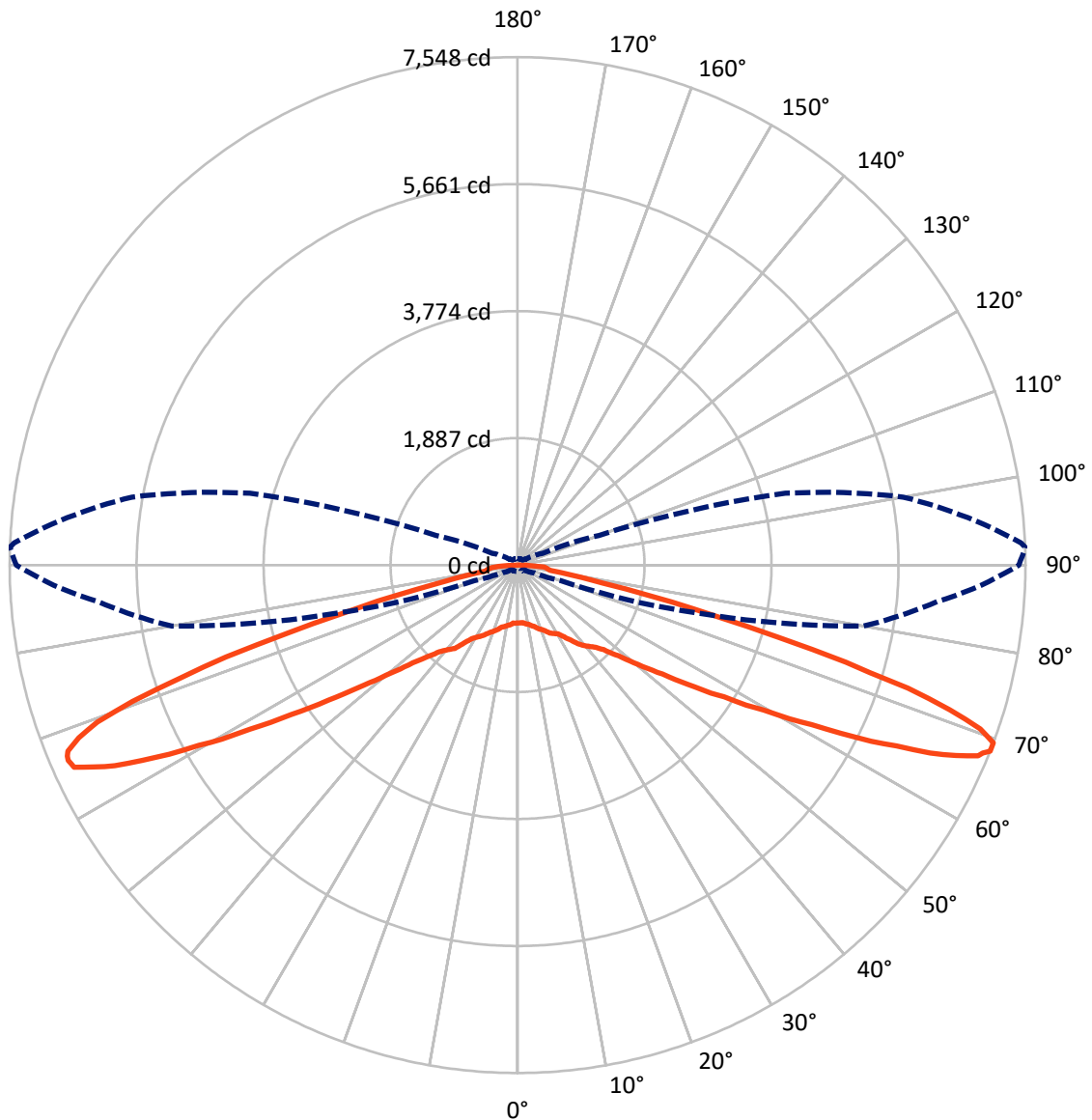
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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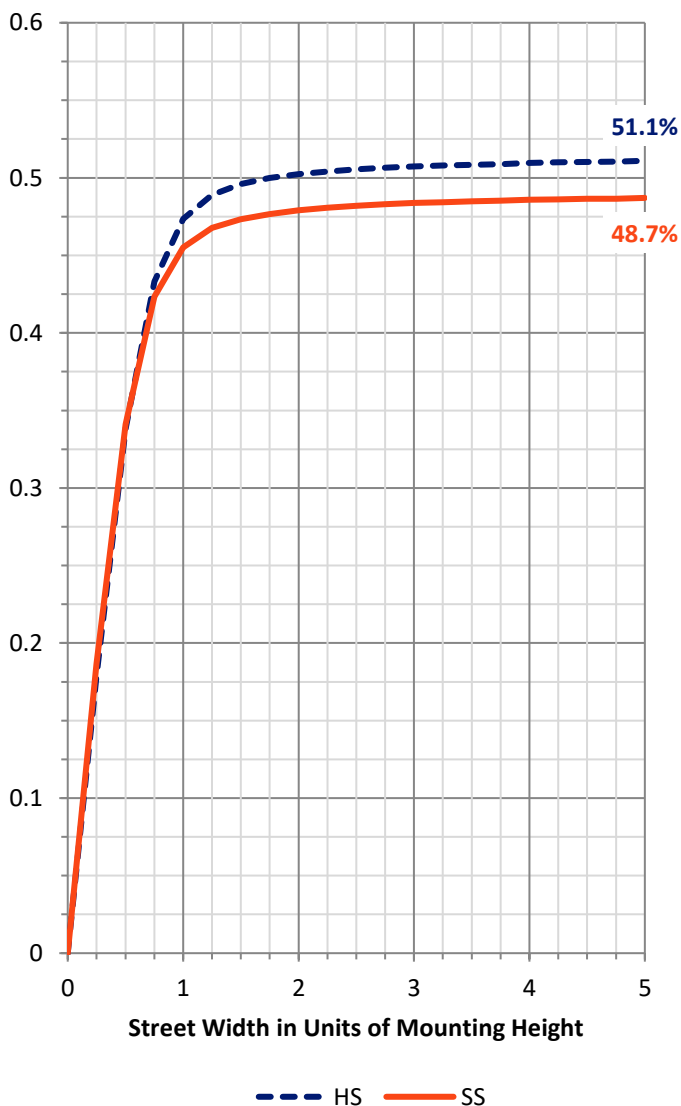
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2763.9	0.0	2763.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2603.1	0.0	2603.1
	% Fixture	48.5	0.0	48.5
Total	Lumens	5367.0	0.0	5367.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.6
10°-20°	278.4	5.2
20°-30°	475.1	8.9
30°-40°	663.4	12.4
40°-50°	843.9	15.7
50°-60°	1067.0	19.9
60°-70°	1315.9	24.5
70°-80°	574.8	10.7
80°-90°	62.4	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°	5367.0	100.0
0°-180°	5367.0	100.0



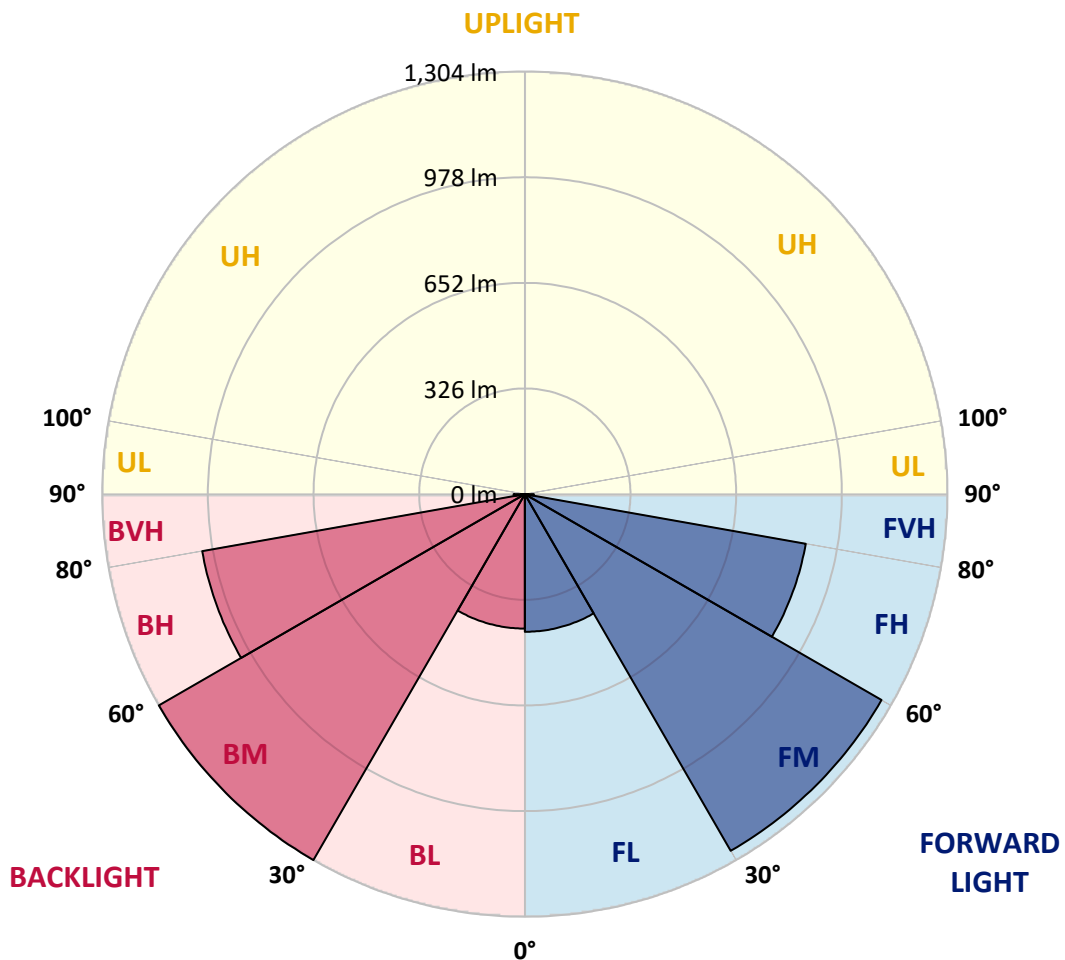
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.8	7.9			
FM (30°-60°)	1270.6	23.7			
FH (60°-80°)	880.1	16.4			G1/1800
FVH (80°-90°)	27.7	0.5			G1/100
BL (0°-30°)	414.8	7.7	B1/500		
BM (30°-60°)	1303.8	24.3	B2/2500		
BH (60°-80°)	1010.7	18.8	B3/2500		G3/2500
BVH (80°-90°)	34.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2
2.5°	876.4	875.4	878.4	880.4	871.3	874.3	872.3	870.3	863.3	860.2	854.2
5°	900.5	903.6	913.6	904.6	908.6	903.6	887.4	892.5	883.4	881.4	875.4
7.5°	942.8	936.8	950.9	940.8	943.9	933.8	926.7	917.7	915.6	901.5	902.6
10°	951.9	964.0	970.0	968.0	970.0	975.1	962.0	947.9	928.7	924.7	910.6
12.5°	945.9	956.9	973.1	986.2	995.2	997.2	992.2	989.2	981.1	958.0	956.9
15°	939.8	931.8	941.8	987.2	1017.4	1037.5	1044.6	1027.5	1029.5	999.3	987.2
17.5°	899.5	887.4	926.7	971.0	1008.3	1052.6	1086.9	1081.9	1081.9	1057.7	1040.6
20°	846.1	866.3	886.4	942.8	1011.3	1077.8	1143.3	1140.3	1128.2	1121.1	1083.9
22.5°	800.8	809.9	847.2	906.6	992.2	1084.9	1162.4	1217.8	1189.6	1161.4	1139.3
25°	769.6	761.5	808.9	870.3	974.1	1072.8	1198.7	1256.1	1271.2	1250.1	1207.8
27.5°	725.3	725.3	762.5	821.0	915.6	1066.7	1234.0	1321.6	1343.8	1312.5	1251.1
30°	674.9	680.9	713.2	779.7	872.3	1022.4	1248.1	1397.1	1415.3	1388.1	1324.6
32.5°	635.6	635.6	671.9	742.4	842.1	1002.3	1239.0	1471.7	1505.9	1485.8	1420.3
35°	593.3	590.3	616.5	694.0	793.8	963.0	1236.0	1531.1	1607.7	1608.7	1540.2
37.5°	532.9	545.0	578.2	639.6	755.5	924.7	1226.9	1602.6	1739.6	1762.8	1715.5
40°	492.6	497.6	527.8	595.3	696.1	879.4	1213.8	1661.1	1827.3	1906.8	1841.4
42.5°	434.2	441.2	464.4	548.0	638.6	814.9	1156.4	1702.4	1952.2	2042.8	1987.4
45°	372.7	376.7	411.0	479.5	577.2	738.4	1094.9	1768.8	2073.1	2258.4	2226.2
47.5°	299.2	301.2	330.4	401.9	503.7	661.8	1000.3	1765.8	2170.8	2474.0	2564.6
50°	233.7	238.7	260.9	319.3	415.0	568.1	890.5	1741.6	2293.7	2719.7	2898.0
52.5°	186.4	187.4	201.5	247.8	320.3	474.4	772.6	1665.1	2409.5	2960.5	3307.0
55°	154.1	154.1	162.2	190.4	245.8	360.6	634.6	1538.2	2423.6	3226.4	3753.2
56°	148.1	146.1	153.1	177.3	221.6	325.4	570.1	1452.5	2443.7	3349.3	3976.9
57°	140.0	141.0	145.1	162.2	199.4	288.1	498.6	1368.9	2429.6	3450.0	4142.1
58°	136.0	134.0	142.0	153.1	176.3	255.9	449.3	1270.2	2407.5	3532.6	4382.8
59°	129.9	128.9	134.0	144.0	164.2	227.7	388.8	1163.4	2364.2	3639.4	4562.1
60°	127.9	126.9	128.9	137.0	151.1	199.4	342.5	1038.5	2248.3	3749.2	4784.7
61°	121.9	122.9	126.9	132.0	143.0	179.3	308.2	910.6	2172.8	3841.9	5030.5
62°	122.9	120.9	122.9	126.9	135.0	165.2	270.0	784.7	2037.8	3946.7	5214.9
63°	116.8	115.8	118.9	123.9	127.9	149.1	235.7	677.9	1884.7	3970.8	5371.0
64°	114.8	113.8	114.8	121.9	122.9	140.0	208.5	579.2	1663.1	4012.1	5571.4
65°	109.8	109.8	111.8	114.8	118.9	132.0	186.4	502.6	1442.5	3903.3	5632.9
66°	105.8	106.8	106.8	111.8	114.8	122.9	171.2	427.1	1230.9	3730.1	5692.3
67°	102.7	102.7	103.8	107.8	110.8	115.8	154.1	369.7	1038.5	3523.6	5600.7
67.5°	100.7	101.7	101.7	105.8	108.8	115.8	147.1	350.5	928.7	3296.9	5532.2
68°	97.7	98.7	98.7	102.7	105.8	111.8	142.0	320.3	856.2	3149.9	5405.2
69°	95.7	94.7	94.7	98.7	102.7	106.8	132.0	280.0	680.9	2738.9	5219.9
70°	89.7	89.7	91.7	94.7	97.7	101.7	121.9	246.8	576.2	2267.5	4742.4
71°	86.6	85.6	86.6	89.7	92.7	97.7	111.8	218.6	471.4	1882.7	4273.0
72°	80.6	82.6	82.6	85.6	88.6	91.7	104.8	190.4	395.9	1504.9	3756.3
72.5°	79.6	79.6	80.6	83.6	85.6	90.7	100.7	182.3	361.6	1326.6	3539.7
73°	76.6	76.6	77.6	80.6	82.6	87.6	97.7	164.2	329.4	1180.6	3134.8
74°	73.5	72.5	72.5	76.6	77.6	82.6	91.7	145.1	276.0	889.5	2516.3
75°	68.5	68.5	69.5	71.5	72.5	76.6	84.6	128.9	232.7	690.0	1968.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	56.4	57.4	58.4	60.4	60.4	63.5	69.5	89.7	142.0	349.5	903.6
80°	41.3	43.3	46.3	49.4	48.4	48.4	54.4	64.5	84.6	157.1	346.5
82.5°	33.2	35.3	32.2	36.3	36.3	34.2	39.3	47.3	57.4	77.6	123.9
85°	22.2	23.2	19.1	22.2	21.2	21.2	26.2	28.2	35.3	43.3	61.4
87.5°	10.1	10.1	8.1	9.1	9.1	9.1	13.1	10.1	15.1	21.2	36.3
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°	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2
2.5°	860.2	864.3	864.3	860.2	857.2	860.2	858.2	853.2	858.2	860.2	861.3
5°	872.3	864.3	868.3	859.2	865.3	864.3	862.3	867.3	868.3	868.3	875.4
7.5°	885.4	895.5	882.4	883.4	886.4	874.3	878.4	880.4	876.4	884.4	890.5
10°	908.6	912.6	908.6	893.5	903.6	895.5	892.5	901.5	899.5	901.5	910.6
12.5°	929.8	936.8	925.7	924.7	919.7	912.6	916.7	915.6	929.8	931.8	942.8
15°	973.1	954.9	950.9	949.9	947.9	944.9	946.9	947.9	966.0	969.0	995.2
17.5°	1010.3	1007.3	985.2	993.2	993.2	981.1	976.1	993.2	1007.3	1022.4	1040.6
20°	1048.6	1045.6	1021.4	1022.4	1013.4	1024.4	1018.4	1034.5	1058.7	1063.7	1079.8
22.5°	1093.9	1080.8	1063.7	1065.7	1068.8	1060.7	1056.7	1078.8	1103.0	1117.1	1118.1
25°	1165.5	1132.2	1118.1	1120.1	1116.1	1110.1	1113.1	1141.3	1153.4	1183.6	1177.5
27.5°	1203.7	1184.6	1174.5	1151.4	1152.4	1143.3	1155.4	1197.7	1221.9	1245.0	1198.7
30°	1250.1	1238.0	1193.7	1185.6	1184.6	1180.6	1202.7	1257.1	1293.4	1306.5	1240.0
32.5°	1340.7	1292.4	1281.3	1274.3	1258.1	1263.2	1274.3	1345.8	1403.2	1400.2	1278.3
35°	1444.5	1411.2	1380.0	1374.0	1372.0	1357.9	1377.0	1460.6	1504.9	1491.8	1292.4
37.5°	1610.7	1560.3	1518.0	1494.9	1490.8	1480.8	1526.1	1592.6	1650.0	1598.6	1303.5
40°	1692.3	1635.9	1596.6	1582.5	1585.5	1599.6	1643.9	1745.7	1770.9	1676.2	1312.5
42.5°	1809.1	1747.7	1670.1	1663.1	1654.0	1661.1	1746.7	1883.7	1904.8	1780.9	1278.3
45°	2016.6	1924.0	1834.3	1794.0	1796.0	1815.2	1948.1	2098.2	2058.9	1853.5	1223.9
47.5°	2278.5	2142.6	2070.0	2015.6	2041.8	2020.7	2232.2	2352.1	2218.1	1945.1	1157.4
50°	2672.4	2482.0	2383.3	2317.8	2328.9	2347.0	2561.6	2663.3	2394.4	1989.4	1055.7
52.5°	3169.0	2924.2	2779.2	2691.5	2699.6	2738.9	3015.9	2984.7	2595.8	2026.7	919.7
55°	3763.3	3511.5	3230.5	3194.2	3185.1	3278.8	3584.0	3321.1	2777.2	1967.3	778.7
56°	4077.6	3809.7	3517.5	3443.0	3420.8	3486.3	3844.9	3489.3	2839.6	1900.8	711.2
57°	4344.5	4088.7	3768.4	3641.4	3669.6	3792.5	4103.8	3647.5	2897.0	1832.3	647.7
58°	4711.2	4419.1	4080.6	3983.9	3958.7	4056.5	4382.8	3806.6	2916.2	1761.8	589.3
59°	5076.9	4726.3	4421.1	4244.8	4251.9	4430.2	4657.8	3996.0	2945.4	1672.1	514.7
60°	5354.9	5178.6	4770.6	4638.7	4620.5	4878.4	4931.8	4122.9	2976.6	1551.3	462.4
61°	5748.7	5519.1	5139.3	4969.1	5018.4	5224.9	5228.0	4282.1	2930.3	1398.2	397.9
62°	6031.8	5971.4	5572.5	5410.3	5395.2	5669.2	5536.2	4422.1	2890.0	1253.1	351.6
63°	6363.2	6363.2	5999.6	5872.6	5879.7	6096.3	5670.2	4562.1	2843.6	1092.9	309.2
64°	6535.4	6752.0	6416.6	6238.3	6284.6	6472.0	5908.9	4653.8	2700.6	930.8	272.0
65°	6684.5	7009.9	6823.5	6740.9	6670.4	6781.2	6115.4	4739.4	2482.0	791.7	241.8
66°	6810.4	7252.7	7191.2	7102.6	7095.5	7070.3	6155.7	4736.4	2256.4	668.9	211.5
67°	6747.0	7257.7	7369.5	7406.8	7395.7	7129.8	6085.2	4628.6	1967.3	565.1	188.4
67.5°	6689.6	7216.4	7476.3	7455.1	7501.5	7180.1	6097.3	4496.6	1761.8	511.7	177.3
68°	6639.2	7161.0	7519.6	7546.8	7523.6	7186.2	6030.8	4391.9	1621.8	480.5	167.2
69°	6257.4	6898.1	7450.1	7547.8	7488.4	6955.5	5819.2	4118.9	1288.4	410.0	154.1
70°	5874.7	6557.6	7112.6	7291.9	7218.4	6509.3	5552.3	3684.8	1062.7	350.5	139.0
71°	5344.8	5925.0	6663.4	6771.2	6682.5	6001.6	5000.3	3226.4	827.0	297.2	123.9
72°	4625.6	5118.2	5823.3	6084.2	5953.2	5271.3	4442.3	2666.4	669.9	249.8	112.8
72.5°	4269.0	4773.7	5453.6	5474.7	5499.9	4954.0	4205.5	2342.0	584.2	231.7	109.8
73°	3930.5	4425.1	5013.4	5087.9	4981.2	4419.1	3852.0	2094.2	533.9	211.5	105.8
74°	3185.1	3467.2	3954.7	4027.2	3933.6	3603.2	3147.9	1605.7	425.1	182.3	96.7
75°	2506.2	2661.3	3102.5	3058.2	2918.2	2802.3	2440.7	1226.9	344.5	160.2	89.7



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1126.2	1219.9	1293.4	1293.4	1301.4	1242.0	1125.2	563.1	212.5	115.8	73.5
80°	429.1	480.5	496.6	497.6	504.7	522.8	486.5	277.0	125.9	82.6	59.4
82.5°	311.3	435.2	468.4	444.2	446.2	402.9	186.4	122.9	79.6	57.4	43.3
85°	282.0	378.7	400.9	397.9	398.9	372.7	109.8	60.4	46.3	36.3	30.2
87.5°	137.0	134.0	142.0	160.2	156.1	202.5	92.7	30.2	20.1	15.1	15.1
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°	858.2	858.2	858.2	858.2	858.2	858.2
2.5°	853.2	852.2	866.3	852.2	860.2	854.2
5°	863.3	867.3	870.3	876.4	862.3	876.4
7.5°	893.5	897.5	898.5	903.6	897.5	896.5
10°	916.7	926.7	932.8	912.6	924.7	923.7
12.5°	962.0	951.9	950.9	946.9	935.8	931.8
15°	994.2	979.1	970.0	953.9	940.8	935.8
17.5°	1039.5	1010.3	973.1	939.8	916.7	898.5
20°	1067.8	1015.4	940.8	901.5	866.3	874.3
22.5°	1085.9	1010.3	911.6	861.3	826.0	836.1
25°	1091.9	985.2	891.5	829.0	794.8	787.7
27.5°	1074.8	955.9	852.2	781.7	751.5	757.5
30°	1066.7	913.6	815.9	746.4	706.1	712.2
32.5°	1045.6	870.3	767.6	697.1	667.8	657.8
35°	1015.4	834.1	721.2	654.8	619.5	611.4
37.5°	978.1	788.7	680.9	600.4	569.1	563.1
40°	922.7	734.3	622.5	553.0	516.8	515.7
42.5°	874.3	682.0	568.1	496.6	460.3	462.4
45°	812.9	611.4	505.7	444.2	408.0	410.0
47.5°	734.3	546.0	446.2	377.7	347.5	345.5
50°	641.7	471.4	373.7	315.3	290.1	285.1
52.5°	553.0	395.9	306.2	253.8	232.7	230.7
55°	441.2	308.2	238.7	199.4	183.3	184.3
56°	400.9	284.1	217.6	182.3	170.2	170.2
57°	362.6	251.8	197.4	168.2	157.1	157.1
58°	320.3	221.6	179.3	152.1	147.1	143.0
59°	291.1	201.5	162.2	144.0	136.0	135.0
60°	256.9	181.3	151.1	135.0	128.9	127.9
61°	227.7	163.2	139.0	125.9	123.9	123.9
62°	203.5	151.1	128.9	121.9	120.9	117.9
63°	182.3	139.0	123.9	115.8	112.8	115.8
64°	163.2	127.9	119.9	113.8	109.8	111.8
65°	148.1	122.9	114.8	110.8	106.8	107.8
66°	138.0	114.8	110.8	105.8	103.8	104.8
67°	124.9	110.8	106.8	101.7	100.7	101.7
67.5°	120.9	107.8	104.8	99.7	98.7	99.7
68°	117.9	105.8	103.8	98.7	97.7	96.7
69°	109.8	101.7	98.7	96.7	94.7	93.7
70°	102.7	97.7	95.7	92.7	90.7	89.7
71°	98.7	92.7	91.7	88.6	86.6	85.6
72°	93.7	89.7	87.6	83.6	82.6	83.6
72.5°	92.7	87.6	86.6	82.6	81.6	81.6
73°	89.7	83.6	84.6	80.6	78.6	80.6
74°	83.6	81.6	79.6	76.6	75.5	75.5
75°	78.6	76.6	74.5	72.5	72.5	72.5



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	66.5	65.5	66.5	62.5	61.4	60.4
80°	53.4	53.4	54.4	51.4	49.4	48.4
82.5°	40.3	41.3	43.3	40.3	38.3	36.3
85°	26.2	27.2	27.2	24.2	28.2	26.2
87.5°	13.1	14.1	13.1	12.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)