

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: P180866

Luminaire Tested: **ICM-E02-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180866
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4638.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

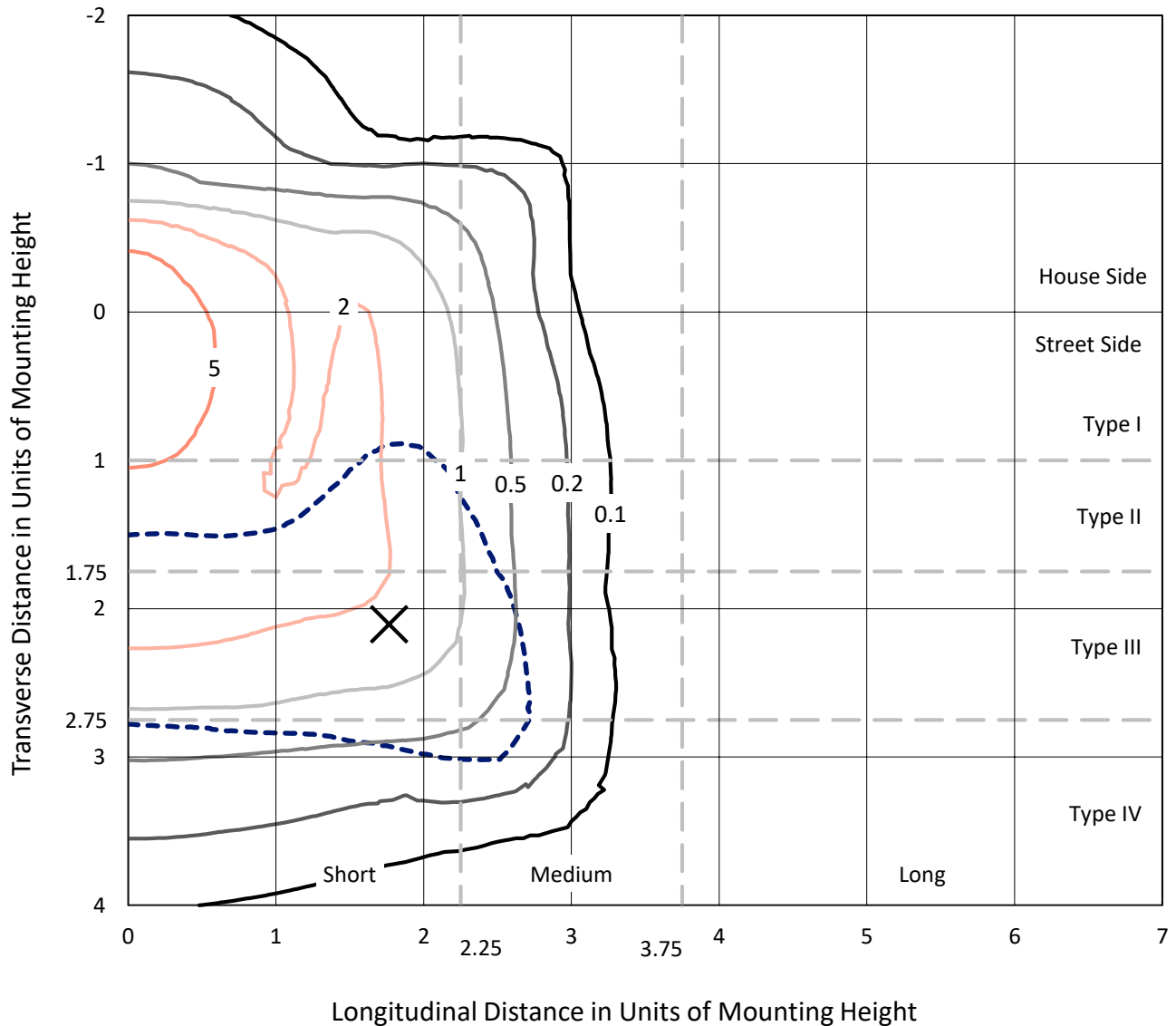
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

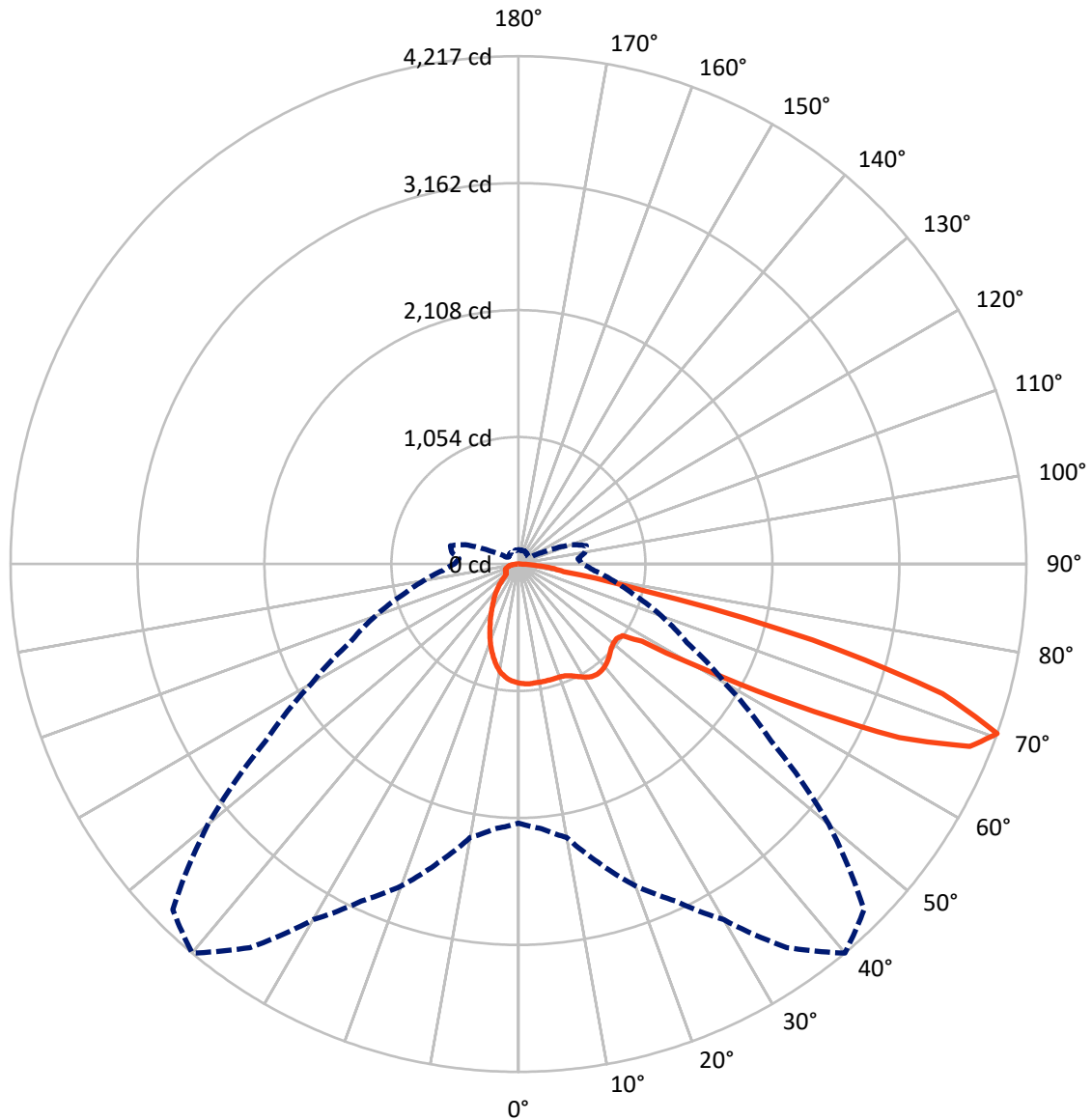
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.9	0.0	962.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	3675.7	0.0	3675.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	4638.6	0.0	4638.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	2.0
10°-20°	253.1	5.5
20°-30°	374.7	8.1
30°-40°	473.5	10.2
40°-50°	535.6	11.5
50°-60°	762.1	16.4
60°-70°	1419.4	30.6
70°-80°	650.5	14.0
80°-90°	77.2	1.7
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°	4638.6	100.0
0°-180°	4638.6	100.0



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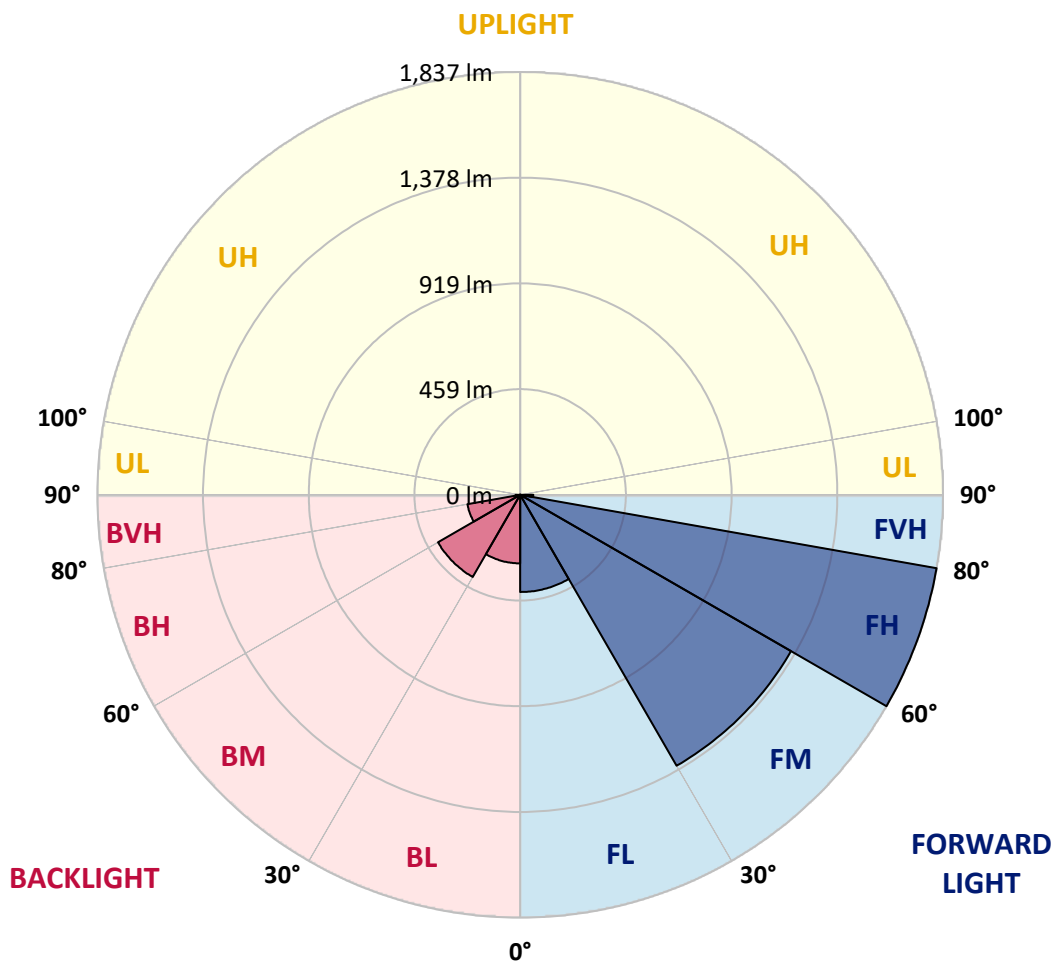
CATALOG NUMBER: ICM-E02-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.4	9.1			
FM	(30°-60°)	1359.0	29.3			
FH	(60°-80°)	1837.1	39.6			G2/5000
FVH	(80°-90°)	57.3	1.2			G1/100
BL	(0°-30°)	297.9	6.4	B1/500		
BM	(30°-60°)	412.3	8.9	B1/1000		
BH	(60°-80°)	232.8	5.0	B1/500		G1/500
BVH	(80°-90°)	19.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	1004.9	1007.5	1004.4	1003.9	1003.9	1003.4	1000.2	999.7	995.5	996.0	997.1
5°	1012.3	1013.3	1011.3	1010.7	1009.7	1007.5	1004.9	1001.8	998.7	995.5	992.9
7.5°	1019.6	1018.5	1016.9	1016.9	1015.4	1012.3	1007.1	1002.9	996.0	992.4	987.6
10°	1030.1	1028.5	1026.4	1025.4	1022.7	1018.1	1010.7	1004.9	996.6	989.2	981.4
12.5°	1040.0	1039.4	1036.4	1034.8	1030.6	1025.9	1016.9	1008.1	997.1	985.6	975.1
15°	1057.8	1055.7	1052.6	1049.4	1042.6	1036.4	1022.7	1012.3	996.6	981.4	965.1
17.5°	1088.7	1085.0	1081.9	1075.1	1066.7	1055.7	1035.8	1018.1	996.6	974.6	956.3
20°	1145.2	1137.4	1133.2	1124.3	1109.6	1089.8	1058.9	1030.1	998.1	969.9	945.3
22.5°	1209.0	1203.8	1198.1	1192.3	1169.3	1140.5	1098.6	1055.7	1007.5	967.8	936.4
25°	1280.8	1274.0	1270.8	1260.8	1239.4	1206.4	1149.4	1089.8	1029.0	976.2	936.4
27.5°	1344.7	1342.5	1342.1	1330.5	1310.1	1271.4	1203.8	1132.1	1058.3	993.4	944.2
30°	1402.7	1400.7	1399.6	1393.3	1369.8	1323.7	1250.4	1169.8	1090.2	1017.5	958.9
32.5°	1464.5	1457.7	1454.5	1442.5	1415.8	1361.9	1278.1	1194.4	1115.4	1041.0	975.1
35°	1514.7	1509.0	1502.7	1485.4	1447.7	1383.9	1290.2	1202.8	1125.3	1054.1	983.4
37.5°	1551.4	1545.6	1536.8	1514.7	1468.2	1391.3	1289.7	1200.2	1121.7	1052.0	985.0
40°	1567.6	1561.9	1552.5	1524.7	1471.8	1387.1	1279.7	1188.1	1110.7	1041.0	978.8
42.5°	1561.3	1557.1	1545.1	1518.4	1460.3	1368.2	1259.8	1165.6	1089.8	1023.3	964.7
45°	1537.2	1534.1	1522.6	1494.3	1434.1	1337.9	1230.5	1137.4	1064.7	1001.3	945.8
47.5°	1501.1	1500.1	1488.6	1460.8	1401.1	1307.4	1200.2	1109.6	1039.4	979.8	930.1
50°	1461.3	1456.1	1450.3	1424.8	1370.2	1281.3	1178.1	1092.4	1025.4	972.0	923.3
52.5°	1436.2	1434.7	1429.4	1406.4	1354.1	1266.1	1168.3	1086.1	1024.3	970.4	919.6
55°	1659.2	1662.9	1614.7	1514.7	1426.8	1308.0	1198.1	1118.0	1050.0	995.5	958.3
57.5°	2454.2	2438.1	2355.4	2156.9	1932.9	1637.2	1424.2	1294.9	1210.6	1220.1	1238.9
60°	2859.4	2856.2	2841.0	2764.1	2615.0	2389.9	2140.2	1853.9	1762.8	1772.8	1780.1
62.5°	3040.5	3045.2	3056.7	3027.9	2988.7	2923.3	2798.6	2683.6	2561.6	2516.0	2394.1
65°	3124.2	3132.6	3158.8	3175.0	3190.2	3201.7	3250.9	3386.0	3474.9	3308.5	2921.1
67.5°	2951.0	2991.3	3077.6	3161.9	3237.3	3344.6	3511.0	3824.6	4042.8	3838.2	3276.6
70°	2151.2	2206.2	2305.1	2565.8	2844.2	3087.6	3410.0	3887.4	4216.6	4058.5	3364.5
72.5°	1348.8	1364.0	1408.0	1503.7	1710.5	2023.0	2586.7	3302.7	3682.7	3556.6	2843.6
75°	855.8	861.0	859.4	881.4	916.5	984.6	1207.5	1950.7	2522.8	2326.1	1584.8
77.5°	509.8	517.7	520.7	527.6	544.4	568.4	586.7	663.7	1057.8	1026.9	575.3
80°	427.1	433.4	428.2	426.6	416.1	408.7	417.7	408.7	379.4	365.3	336.6
82.5°	226.1	225.6	224.0	239.2	270.0	294.1	312.5	308.3	279.0	237.6	201.5
85°	124.1	128.3	128.3	133.5	128.7	129.3	133.5	140.8	130.3	108.8	89.0
87.5°	10.5	16.2	13.1	16.2	22.0	15.7	15.2	15.2	13.1	9.4	8.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	994.5	993.4	991.4	989.8	989.8	987.2	985.6	984.6	984.0	982.0	982.0
5°	991.4	987.6	984.0	981.4	979.8	977.2	973.0	970.9	968.3	966.2	965.1
7.5°	984.6	977.8	972.0	967.8	962.5	958.3	953.1	948.4	943.7	941.6	940.6
10°	974.1	965.1	956.3	948.4	941.1	933.8	927.0	920.2	914.4	910.2	906.1
12.5°	964.1	950.5	939.0	927.4	916.0	907.1	897.7	887.7	879.4	871.4	869.4
15°	950.5	934.8	920.2	906.1	891.9	877.2	865.7	854.7	841.1	832.2	825.4
17.5°	938.0	919.1	901.3	884.6	867.3	852.1	834.8	820.2	806.6	792.9	783.0
20°	924.4	903.9	885.1	866.2	847.4	828.0	808.1	789.3	772.6	756.3	740.1
22.5°	912.3	891.4	873.0	852.7	831.7	809.7	786.7	763.2	743.7	722.8	704.0
25°	904.9	882.0	863.1	843.2	820.2	796.1	770.0	742.2	718.6	694.6	672.1
27.5°	904.9	875.2	855.8	835.9	812.3	786.7	757.9	727.5	700.8	674.1	646.4
30°	912.8	876.2	850.1	829.1	805.0	777.3	745.3	713.4	684.1	652.7	626.0
32.5°	920.2	878.2	845.9	819.2	791.4	764.2	731.7	697.7	665.2	635.4	607.2
35°	924.8	878.2	838.0	803.9	772.6	745.9	714.0	679.9	646.9	617.6	591.4
37.5°	925.4	874.1	825.4	786.7	753.7	726.0	695.6	663.7	632.3	605.0	583.1
40°	920.2	865.7	812.8	768.4	733.9	705.6	677.8	649.0	620.7	598.2	579.4
42.5°	910.7	856.8	800.8	753.7	717.6	688.3	662.6	638.1	613.4	594.1	578.3
45°	896.6	844.7	789.9	744.8	709.2	678.3	653.2	632.8	611.9	595.6	579.9
47.5°	884.0	840.6	793.5	750.6	713.4	681.5	655.8	638.5	622.3	611.4	589.9
50°	881.4	838.5	795.1	755.3	717.6	685.1	662.6	653.8	649.0	642.2	609.2
52.5°	874.1	838.0	806.6	784.6	760.5	745.3	721.8	730.1	724.9	700.8	641.2
55°	951.1	961.5	990.8	1032.7	1071.4	1080.3	1077.7	1067.7	1014.9	873.0	718.1
57.5°	1307.4	1366.6	1422.1	1446.7	1443.5	1415.8	1395.9	1355.6	1279.2	1106.5	869.9
60°	1802.6	1812.0	1782.7	1739.3	1666.0	1604.8	1539.4	1464.0	1353.0	1183.9	963.1
62.5°	2258.5	2131.8	2001.5	1879.1	1767.5	1670.2	1579.1	1474.0	1329.5	1153.0	951.1
65°	2580.4	2312.4	2106.7	1930.9	1773.3	1637.2	1523.6	1387.1	1224.3	1065.1	881.4
67.5°	2746.3	2335.5	2019.8	1774.9	1551.4	1363.0	1211.7	1078.7	957.9	888.2	771.5
70°	2561.0	1982.2	1542.5	1265.6	998.1	800.3	632.3	530.7	495.6	561.6	584.1
72.5°	1908.4	1290.2	917.5	709.8	543.8	433.4	332.4	261.2	212.5	223.0	289.5
75°	902.3	556.9	393.6	299.4	238.1	197.3	161.2	147.6	123.5	102.6	96.3
77.5°	351.2	255.9	211.4	154.9	110.0	88.5	75.3	72.7	74.3	72.2	71.2
80°	267.4	181.1	113.6	83.3	71.7	63.3	56.0	54.0	55.0	57.6	60.2
82.5°	149.2	93.2	69.1	60.2	54.0	46.0	41.9	38.7	39.3	42.4	48.2
85°	57.6	45.0	41.4	39.8	37.1	29.9	25.7	26.1	29.9	35.6	35.6
87.5°	6.3	6.3	8.4	6.3	6.3	6.3	5.8	6.8	7.3	9.4	11.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	980.8	980.8	980.8	979.8	980.4	978.2	978.2	976.7	979.3	977.8	977.2
5°	965.7	965.1	963.1	963.1	963.1	963.1	964.7	960.5	963.6	963.6	962.1
7.5°	940.0	940.0	934.2	937.4	936.4	938.0	940.0	938.0	941.1	943.2	941.6
10°	904.5	904.5	899.7	903.4	901.9	905.5	909.1	907.1	909.1	912.3	913.3
12.5°	865.2	863.1	858.9	860.5	860.5	862.6	864.2	866.8	869.4	873.6	875.6
15°	819.6	816.6	811.3	811.3	808.1	809.2	812.3	813.4	818.6	824.4	831.2
17.5°	773.0	765.2	759.4	752.7	747.4	751.6	755.3	757.9	762.1	771.0	775.7
20°	729.1	713.4	702.4	693.5	687.7	690.3	695.1	698.2	701.9	704.0	705.6
22.5°	685.7	667.9	652.7	641.7	632.3	634.9	632.8	631.3	633.9	627.1	626.5
25°	648.0	627.1	606.6	593.6	582.1	578.3	567.4	564.7	557.4	551.6	547.4
27.5°	620.7	593.6	571.1	555.8	537.6	523.9	509.8	495.6	487.8	478.4	473.7
30°	599.3	570.5	543.8	518.1	494.1	473.1	454.3	436.0	423.4	409.9	400.9
32.5°	579.4	552.7	520.3	485.2	452.7	429.2	404.6	383.6	363.7	346.0	332.9
35°	565.8	536.0	494.6	451.7	415.1	387.4	361.1	331.4	307.3	284.2	270.0
37.5°	558.5	521.9	471.1	423.4	382.6	351.2	318.8	284.2	254.9	233.4	212.0
40°	552.7	507.7	450.1	398.3	355.4	317.7	280.0	239.2	206.8	184.3	167.5
42.5°	546.4	492.0	431.8	378.4	330.8	286.8	241.3	197.9	167.0	151.3	143.9
45°	539.6	478.4	414.5	359.5	306.7	253.3	201.0	160.7	142.3	137.1	137.1
47.5°	538.0	469.5	402.0	341.3	279.5	214.6	163.8	138.7	133.5	134.5	136.7
50°	544.4	466.9	391.0	319.8	243.4	173.8	138.7	130.3	131.3	134.5	137.7
52.5°	559.5	468.9	379.4	290.0	200.5	143.4	128.3	127.7	130.9	135.5	138.7
55°	585.2	468.9	357.5	245.5	160.2	128.7	124.6	126.7	130.9	135.1	137.7
57.5°	640.1	464.3	318.8	196.3	134.0	123.5	123.5	126.1	129.8	134.0	136.1
60°	705.6	458.0	264.3	151.8	120.9	119.3	123.0	126.1	129.3	132.9	135.1
62.5°	709.8	441.8	209.4	125.6	114.1	116.7	122.5	126.7	127.7	130.3	132.9
65°	652.2	385.2	166.4	112.6	111.0	115.2	120.9	124.1	124.6	125.6	128.3
67.5°	571.1	314.0	134.5	106.2	107.8	112.6	115.6	118.3	119.8	122.5	123.0
70°	468.9	252.3	115.2	100.0	101.6	106.8	109.4	112.0	115.2	118.3	116.7
72.5°	332.4	196.3	101.0	93.2	95.3	100.0	103.1	105.2	107.8	111.0	108.8
75°	141.3	137.1	87.4	84.3	87.4	90.5	93.7	96.8	99.4	101.0	101.0
77.5°	72.2	80.6	75.3	75.3	77.5	80.6	83.3	86.3	87.9	89.5	91.6
80°	61.2	62.3	63.3	65.4	67.5	70.7	73.3	75.9	76.4	76.9	78.0
82.5°	50.8	52.8	54.0	57.0	58.6	59.6	61.2	61.2	62.3	62.3	60.7
85°	36.7	39.3	40.8	41.4	40.8	41.4	41.9	42.9	45.6	45.6	43.4
87.5°	10.5	10.0	12.6	13.1	14.1	16.2	18.3	22.0	23.1	24.1	24.1
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):

	165°	170°	175°	180°
0°	989.8	989.8	989.8	989.8
2.5°	976.7	977.8	975.6	976.2
5°	962.1	964.1	961.5	964.7
7.5°	943.2	946.3	945.8	945.3
10°	916.0	920.2	920.2	921.7
12.5°	881.4	884.0	886.1	887.2
15°	834.8	839.5	842.1	842.1
17.5°	778.8	782.0	783.5	781.5
20°	707.6	706.6	707.2	701.9
22.5°	625.5	627.1	622.3	623.4
25°	544.8	542.2	544.4	541.2
27.5°	466.9	467.4	461.7	464.3
30°	392.6	390.0	382.6	386.2
32.5°	320.8	314.0	306.2	301.5
35°	253.3	242.9	239.2	237.6
37.5°	198.9	187.3	183.7	179.5
40°	158.0	153.9	152.3	153.4
42.5°	141.9	141.9	142.9	143.4
45°	137.7	139.3	140.8	141.3
47.5°	138.1	139.7	141.9	142.3
50°	139.3	140.8	142.3	142.9
52.5°	139.7	139.7	140.8	141.3
55°	138.7	138.1	138.7	139.3
57.5°	136.7	135.5	136.1	137.7
60°	135.5	134.0	135.1	136.1
62.5°	132.9	132.5	133.5	134.0
65°	127.2	127.7	129.3	129.3
67.5°	122.0	122.5	123.0	123.5
70°	115.6	116.2	117.2	117.8
72.5°	108.4	110.4	112.0	114.1
75°	102.6	104.7	107.8	110.0
77.5°	92.7	94.2	97.9	100.5
80°	78.5	78.0	78.5	80.1
82.5°	60.2	60.2	59.6	59.2
85°	42.4	41.9	40.3	40.3
87.5°	23.1	22.5	22.0	20.9
90°	0.0	0.0	0.0	0.0

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