

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: P180927

Luminaire Tested: **ICS-E02-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180927
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: ICS-E02-LED-E1-SL4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4856.9 lumens
Efficiency: N/A
Efficacy: 93.2 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 (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

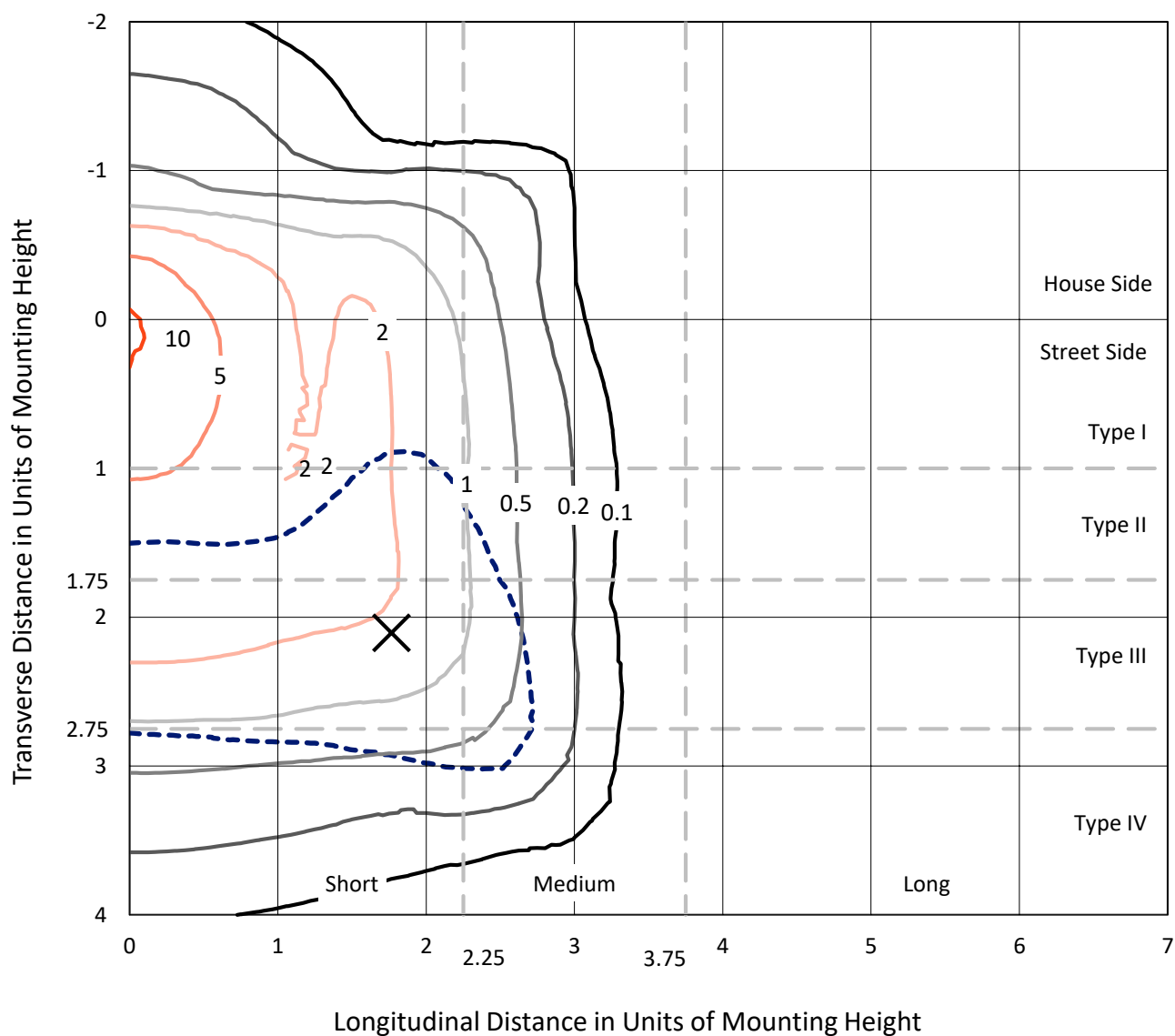


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

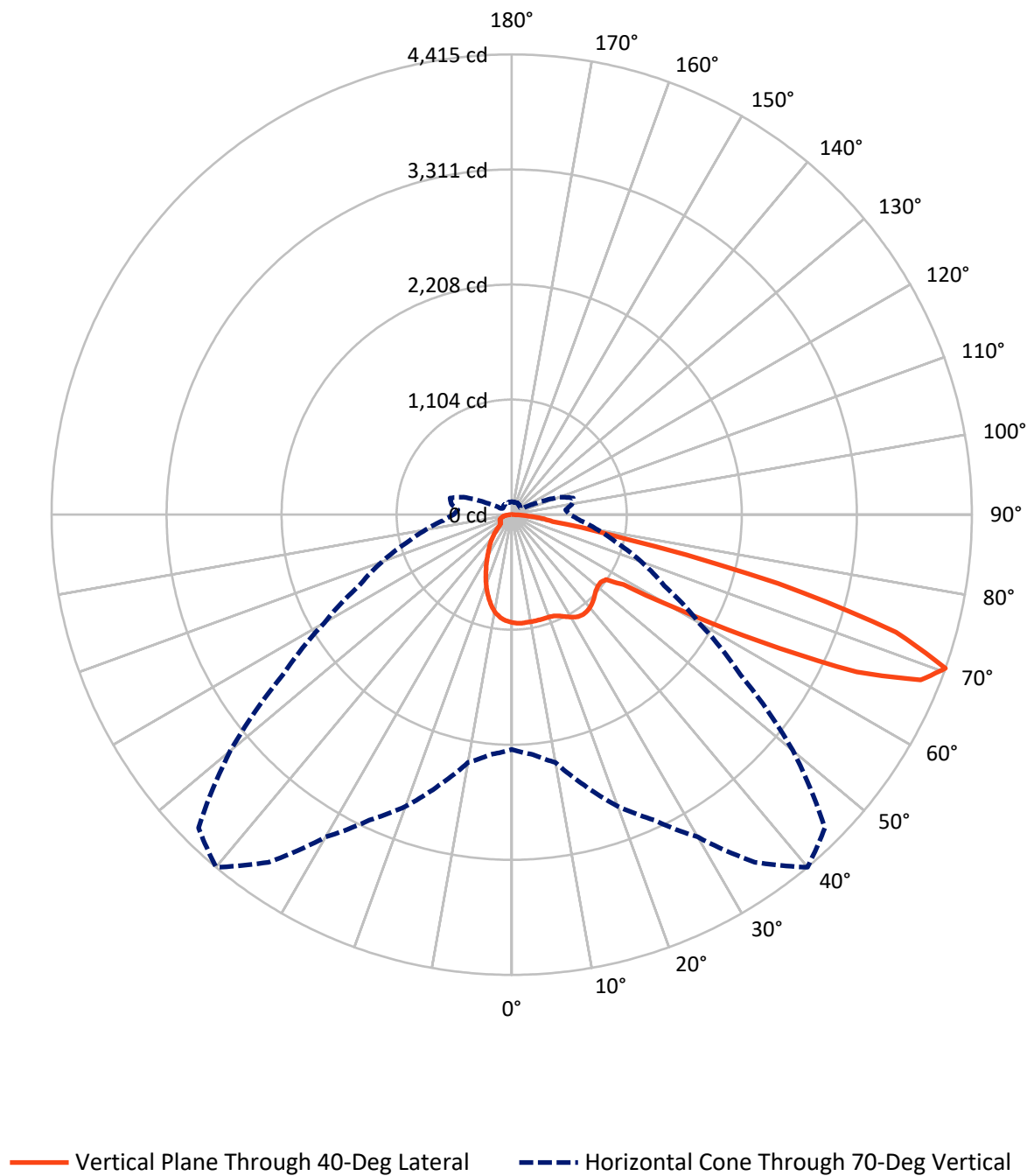


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.2	0.0	1008.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	3848.7	0.0	3848.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	4856.9	0.0	4856.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	2.0
10°-20°	265.0	5.5
20°-30°	392.4	8.1
30°-40°	495.8	10.2
40°-50°	560.8	11.5
50°-60°	798.0	16.4
60°-70°	1486.2	30.6
70°-80°	681.1	14.0
80°-90°	80.9	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°	4856.9	100.0
0°-180°	4856.9	100.0

Coefficient of Utilization



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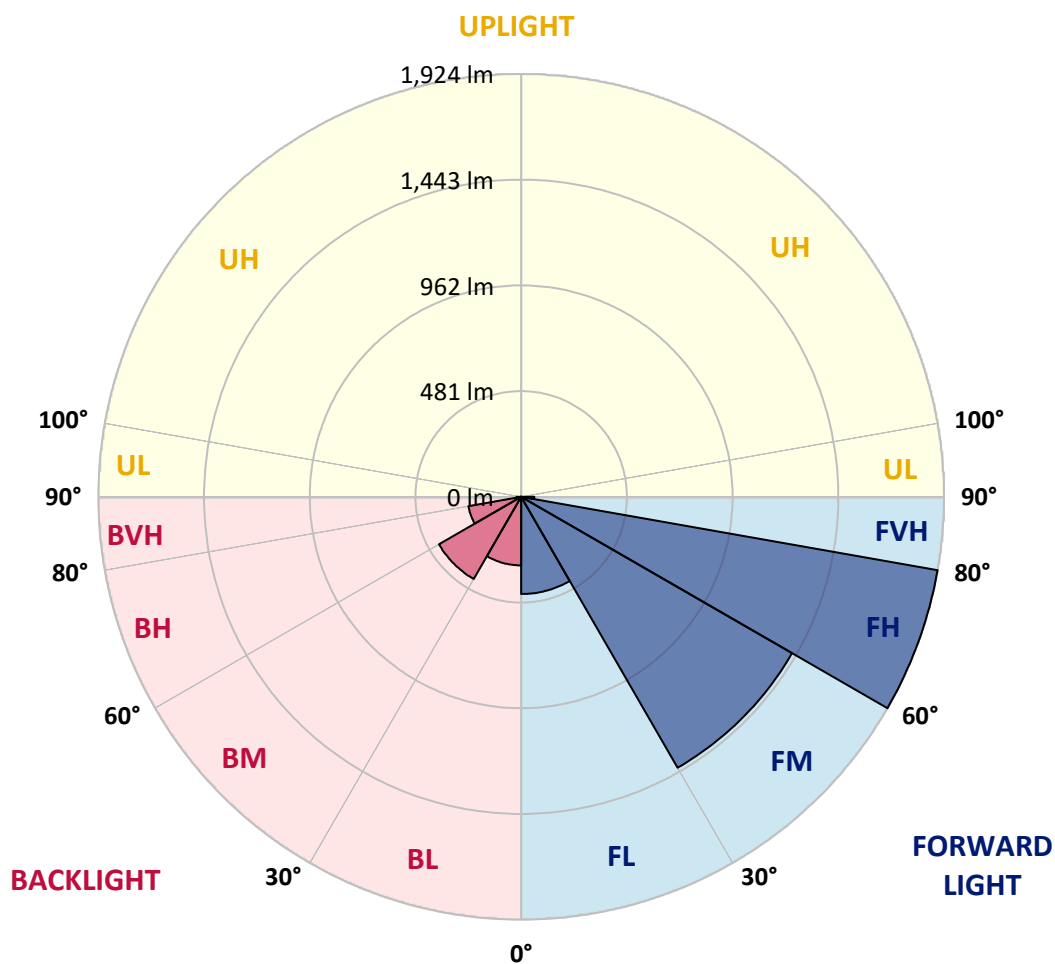
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.3	9.1			
FM	(30°-60°)	1422.9	29.3			
FH	(60°-80°)	1923.5	39.6			G2/5000
FVH	(80°-90°)	60.0	1.2			G1/100
BL	(0°-30°)	312.0	6.4	B1/500		
BM	(30°-60°)	431.7	8.9	B1/1000		
BH	(60°-80°)	243.7	5.0	B1/500		G1/500
BVH	(80°-90°)	20.9	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°	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3
2.5°	1052.2	1055.0	1051.7	1051.1	1051.1	1050.6	1047.3	1046.8	1042.4	1042.9	1044.0
5°	1059.9	1061.0	1058.8	1058.3	1057.2	1055.0	1052.2	1048.9	1045.7	1042.4	1039.6
7.5°	1067.6	1066.5	1064.8	1064.8	1063.2	1059.9	1054.4	1050.0	1042.9	1039.1	1034.2
10°	1078.5	1076.9	1074.7	1073.6	1070.9	1065.9	1058.3	1052.2	1043.5	1035.8	1027.6
12.5°	1089.0	1088.4	1085.1	1083.5	1079.1	1074.2	1064.8	1055.5	1044.0	1032.0	1021.0
15°	1107.6	1105.4	1102.1	1098.8	1091.7	1085.1	1070.9	1059.9	1043.5	1027.6	1010.6
17.5°	1139.9	1136.1	1132.8	1125.7	1116.9	1105.4	1084.6	1065.9	1043.5	1020.5	1001.3
20°	1199.1	1190.9	1186.5	1177.2	1161.8	1141.0	1108.7	1078.5	1045.1	1015.5	989.8
22.5°	1266.0	1260.5	1254.5	1248.4	1224.3	1194.2	1150.3	1105.4	1055.0	1013.3	980.4
25°	1341.1	1333.9	1330.6	1320.2	1297.8	1263.2	1203.5	1141.0	1077.4	1022.1	980.4
27.5°	1407.9	1405.7	1405.2	1393.1	1371.7	1331.2	1260.5	1185.4	1108.1	1040.2	988.7
30°	1468.7	1466.6	1465.5	1458.9	1434.2	1386.0	1309.3	1224.9	1141.6	1065.4	1004.0
32.5°	1533.4	1526.3	1523.0	1510.4	1482.4	1426.0	1338.3	1250.6	1167.9	1090.1	1021.0
35°	1586.0	1580.0	1573.4	1555.3	1515.9	1449.0	1350.9	1259.4	1178.3	1103.8	1029.8
37.5°	1624.4	1618.4	1609.0	1586.0	1537.3	1456.7	1350.4	1256.7	1174.4	1101.6	1031.4
40°	1641.4	1635.4	1625.5	1596.4	1541.1	1452.3	1340.0	1244.1	1162.9	1090.1	1024.8
42.5°	1634.8	1630.4	1617.8	1589.9	1529.0	1432.6	1319.1	1220.5	1141.0	1071.4	1010.0
45°	1609.6	1606.3	1594.2	1564.7	1501.6	1400.8	1288.4	1190.9	1114.7	1048.4	990.3
47.5°	1571.8	1570.7	1558.6	1529.6	1467.1	1369.0	1256.7	1161.8	1088.4	1025.9	973.9
50°	1530.1	1524.6	1518.6	1491.8	1434.8	1341.6	1233.6	1143.8	1073.6	1017.7	966.7
52.5°	1503.8	1502.2	1496.7	1472.6	1417.8	1325.7	1223.2	1137.2	1072.5	1016.1	962.9
55°	1737.3	1741.1	1690.7	1586.0	1494.0	1369.6	1254.5	1170.6	1099.4	1042.4	1003.5
57.5°	2569.8	2552.8	2466.2	2258.5	2023.9	1714.3	1491.2	1355.9	1267.6	1277.5	1297.2
60°	2993.9	2990.7	2974.8	2894.2	2738.0	2502.4	2240.9	1941.2	1845.8	1856.2	1863.9
62.5°	3183.6	3188.5	3200.6	3170.4	3129.3	3060.8	2930.4	2809.8	2682.1	2634.4	2506.7
65°	3271.3	3280.0	3307.4	3324.4	3340.3	3352.4	3403.9	3545.3	3638.4	3464.2	3058.6
67.5°	3089.8	3132.0	3222.5	3310.7	3389.6	3502.0	3676.3	4004.5	4233.1	4018.8	3430.7
70°	2252.4	2310.0	2413.6	2686.5	2978.0	3232.9	3570.5	4070.3	4415.0	4249.5	3522.8
72.5°	1412.3	1428.2	1474.2	1574.5	1791.0	2118.2	2708.4	3458.1	3856.0	3723.9	2977.5
75°	896.0	901.5	899.9	922.9	959.6	1030.9	1264.3	2042.5	2641.6	2435.5	1659.5
77.5°	533.8	542.0	545.3	552.4	570.0	595.2	614.4	694.9	1107.6	1075.3	602.3
80°	447.2	453.8	448.3	446.7	435.7	428.0	437.3	428.0	397.3	382.5	352.4
82.5°	236.8	236.2	234.6	250.5	282.8	308.0	327.2	322.8	292.1	248.8	211.0
85°	129.9	134.3	134.3	139.8	134.8	135.4	139.8	147.4	136.5	114.0	93.2
87.5°	11.0	17.0	13.7	17.0	23.0	16.4	15.9	15.9	13.7	9.9	8.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3
2.5°	1041.3	1040.2	1038.0	1036.3	1036.3	1033.6	1032.0	1030.9	1030.3	1028.1	1028.1
5°	1038.0	1034.2	1030.3	1027.6	1025.9	1023.2	1018.8	1016.6	1013.9	1011.7	1010.6
7.5°	1030.9	1023.7	1017.7	1013.3	1007.8	1003.5	998.0	993.0	988.1	985.9	984.8
10°	1019.9	1010.6	1001.3	993.0	985.4	977.7	970.6	963.5	957.4	953.0	948.7
12.5°	1009.5	995.2	983.2	971.1	959.1	949.8	939.9	929.5	920.7	912.5	910.3
15°	995.2	978.8	963.5	948.7	933.9	918.5	906.5	894.9	880.7	871.4	864.3
17.5°	982.1	962.4	943.7	926.2	908.1	892.2	874.1	858.8	844.5	830.3	819.9
20°	967.8	946.5	926.7	907.0	887.3	867.0	846.2	826.4	808.9	791.9	774.9
22.5°	955.2	933.3	914.1	892.8	870.8	847.8	823.7	799.0	778.8	756.8	737.1
25°	947.6	923.4	903.7	882.9	858.8	833.6	806.2	777.1	752.5	727.2	703.7
27.5°	947.6	916.3	896.0	875.2	850.6	823.7	793.6	761.8	733.8	705.9	676.8
30°	955.8	917.4	890.0	868.1	842.9	813.8	780.4	747.0	716.3	683.4	655.5
32.5°	963.5	919.6	885.6	857.7	828.6	800.1	766.2	730.5	696.6	665.3	635.7
35°	968.4	919.6	877.4	841.8	808.9	781.0	747.5	711.9	677.4	646.7	619.3
37.5°	968.9	915.2	864.3	823.7	789.2	760.1	728.3	694.9	662.0	633.5	610.5
40°	963.5	906.5	851.1	804.5	768.4	738.8	709.7	679.6	650.0	626.4	606.7
42.5°	953.6	897.1	838.5	789.2	751.4	720.7	693.8	668.1	642.3	622.0	605.6
45°	938.8	884.5	827.0	779.9	742.6	710.3	684.0	662.6	640.7	623.7	607.2
47.5°	925.6	880.2	830.8	785.9	747.0	713.5	686.7	668.6	651.6	640.1	617.6
50°	922.9	878.0	832.5	790.8	751.4	717.4	693.8	684.5	679.6	672.4	637.9
52.5°	915.2	877.4	844.5	821.5	796.3	780.4	755.7	764.5	759.0	733.8	671.3
55°	995.8	1006.7	1037.4	1081.3	1121.8	1131.2	1128.4	1118.0	1062.6	914.1	751.9
57.5°	1369.0	1430.9	1489.0	1514.8	1511.5	1482.4	1461.6	1419.4	1339.4	1158.6	910.8
60°	1887.4	1897.3	1866.6	1821.1	1744.4	1680.3	1611.8	1532.9	1416.7	1239.7	1008.4
62.5°	2364.8	2232.2	2095.7	1967.5	1850.7	1748.8	1653.4	1543.3	1392.0	1207.3	995.8
65°	2701.8	2421.2	2205.9	2021.7	1856.8	1714.3	1595.3	1452.3	1281.9	1115.3	922.9
67.5°	2875.6	2445.4	2114.9	1858.4	1624.4	1427.1	1268.7	1129.5	1002.9	930.0	807.8
70°	2681.6	2075.4	1615.1	1325.2	1045.1	838.0	662.0	555.7	519.0	588.0	611.6
72.5°	1998.2	1350.9	960.7	743.1	569.4	453.8	348.0	273.5	222.5	233.5	303.1
75°	944.8	583.1	412.1	313.5	249.4	206.6	168.8	154.5	129.3	107.4	100.8
77.5°	367.7	268.0	221.4	162.2	115.1	92.6	78.9	76.2	77.8	75.6	74.5
80°	280.0	189.6	118.9	87.1	75.1	66.3	58.6	56.4	57.5	60.3	63.0
82.5°	156.2	97.6	72.3	63.0	56.4	48.2	43.8	40.6	41.1	44.4	50.4
85°	60.3	47.1	43.3	41.7	38.9	31.2	26.9	27.4	31.2	37.3	37.3
87.5°	6.6	6.6	8.8	6.6	6.6	6.6	6.0	7.1	7.7	9.9	11.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3	1036.3
2.5°	1027.0	1027.0	1027.0	1025.9	1026.5	1024.3	1024.3	1022.6	1025.4	1023.7	1023.2
5°	1011.1	1010.6	1008.4	1008.4	1008.4	1008.4	1010.0	1005.7	1008.9	1008.9	1007.3
7.5°	984.3	984.3	978.3	981.5	980.4	982.1	984.3	982.1	985.4	987.6	985.9
10°	947.0	947.0	942.1	945.9	944.3	948.1	951.9	949.8	951.9	955.2	956.3
12.5°	905.9	903.7	899.3	901.0	901.0	903.2	904.8	907.6	910.3	914.7	916.9
15°	858.2	854.9	849.5	849.5	846.2	847.3	850.6	851.7	857.1	863.2	870.3
17.5°	809.5	801.2	795.2	788.1	782.6	787.0	790.8	793.6	797.9	807.3	812.2
20°	763.4	747.0	735.5	726.2	720.1	722.9	727.8	731.1	734.9	737.1	738.8
22.5°	717.9	699.3	683.4	671.9	662.0	664.8	662.6	660.9	663.7	656.6	656.0
25°	678.5	656.6	635.2	621.5	609.4	605.6	594.1	591.3	583.7	577.6	573.2
27.5°	650.0	621.5	597.9	582.0	562.8	548.6	533.8	519.0	510.8	500.9	496.0
30°	627.5	597.4	569.4	542.6	517.3	495.4	475.7	456.5	443.4	429.1	419.8
32.5°	606.7	578.7	544.8	508.0	474.1	449.4	423.6	401.7	380.9	362.3	348.6
35°	592.4	561.2	517.9	473.0	434.6	405.5	378.1	346.9	321.7	297.6	282.8
37.5°	584.8	546.4	493.2	443.4	400.6	367.7	333.8	297.6	266.9	244.4	222.0
40°	578.7	531.6	471.3	417.1	372.1	332.7	293.2	250.5	216.5	192.9	175.4
42.5°	572.2	515.2	452.1	396.2	346.4	300.3	252.6	207.2	174.8	158.4	150.7
45°	565.0	500.9	434.0	376.5	321.2	265.3	210.4	168.2	149.1	143.6	143.6
47.5°	563.4	491.6	420.9	357.3	292.7	224.7	171.5	145.2	139.8	140.8	143.0
50°	570.0	488.9	409.4	334.9	254.8	181.9	145.2	136.5	137.6	140.8	144.1
52.5°	585.9	491.0	397.3	303.6	209.9	150.2	134.3	133.7	137.0	141.9	145.2
55°	612.7	491.0	374.3	257.0	167.7	134.8	130.4	132.6	137.0	141.4	144.1
57.5°	670.3	486.1	333.8	205.5	140.3	129.3	129.3	132.1	135.9	140.3	142.5
60°	738.8	479.5	276.8	158.9	126.6	125.0	128.8	132.1	135.4	139.2	141.4
62.5°	743.1	462.5	219.2	131.5	119.5	122.2	128.2	132.6	133.7	136.5	139.2
65°	682.9	403.4	174.3	117.8	116.2	120.6	126.6	129.9	130.4	131.5	134.3
67.5°	597.9	328.8	140.8	111.3	112.9	117.8	121.1	123.9	125.5	128.2	128.8
70°	491.0	264.2	120.6	104.7	106.3	111.8	114.5	117.3	120.6	123.9	122.2
72.5°	348.0	205.5	105.8	97.6	99.7	104.7	108.0	110.2	112.9	116.2	114.0
75°	148.0	143.6	91.5	88.2	91.5	94.8	98.1	101.4	104.1	105.8	105.8
77.5°	75.6	84.4	78.9	78.9	81.1	84.4	87.1	90.4	92.1	93.7	95.9
80°	64.1	65.2	66.3	68.5	70.7	74.0	76.7	79.5	80.0	80.6	81.7
82.5°	53.2	55.4	56.4	59.7	61.4	62.5	64.1	64.1	65.2	65.2	63.6
85°	38.4	41.1	42.7	43.3	42.7	43.3	43.8	44.9	47.7	47.7	45.5
87.5°	11.0	10.4	13.2	13.7	14.8	17.0	19.2	23.0	24.1	25.2	25.2
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°	1036.3	1036.3	1036.3	1036.3
2.5°	1022.6	1023.7	1021.5	1022.1
5°	1007.3	1009.5	1006.7	1010.0
7.5°	987.6	990.9	990.3	989.8
10°	959.1	963.5	963.5	965.1
12.5°	922.9	925.6	927.8	928.9
15°	874.1	879.1	881.8	881.8
17.5°	815.5	818.8	820.4	818.2
20°	741.0	739.9	740.4	734.9
22.5°	654.9	656.6	651.6	652.7
25°	570.5	567.8	570.0	566.7
27.5°	488.9	489.4	483.4	486.1
30°	411.0	408.3	400.6	404.5
32.5°	335.9	328.8	320.6	315.7
35°	265.3	254.3	250.5	248.8
37.5°	208.3	196.2	192.4	188.0
40°	165.5	161.1	159.5	160.6
42.5°	148.5	148.5	149.6	150.2
45°	144.1	145.8	147.4	148.0
47.5°	144.7	146.3	148.5	149.1
50°	145.8	147.4	149.1	149.6
52.5°	146.3	146.3	147.4	148.0
55°	145.2	144.7	145.2	145.8
57.5°	143.0	141.9	142.5	144.1
60°	141.9	140.3	141.4	142.5
62.5°	139.2	138.7	139.8	140.3
65°	133.2	133.7	135.4	135.4
67.5°	127.7	128.2	128.8	129.3
70°	121.1	121.7	122.8	123.3
72.5°	113.4	115.6	117.3	119.5
75°	107.4	109.6	112.9	115.1
77.5°	97.0	98.6	102.5	105.2
80°	82.2	81.7	82.2	83.9
82.5°	63.0	63.0	62.5	61.9
85°	44.4	43.8	42.2	42.2
87.5°	24.1	23.6	23.0	21.9
90°	0.0	0.0	0.0	0.0

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