

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: P180926

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180926  
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-SL4-8030  
Description: ICON SITE SMALL 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: 4488.1 lumens  
Efficiency: N/A  
Efficacy: 86.1 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 - G1

Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

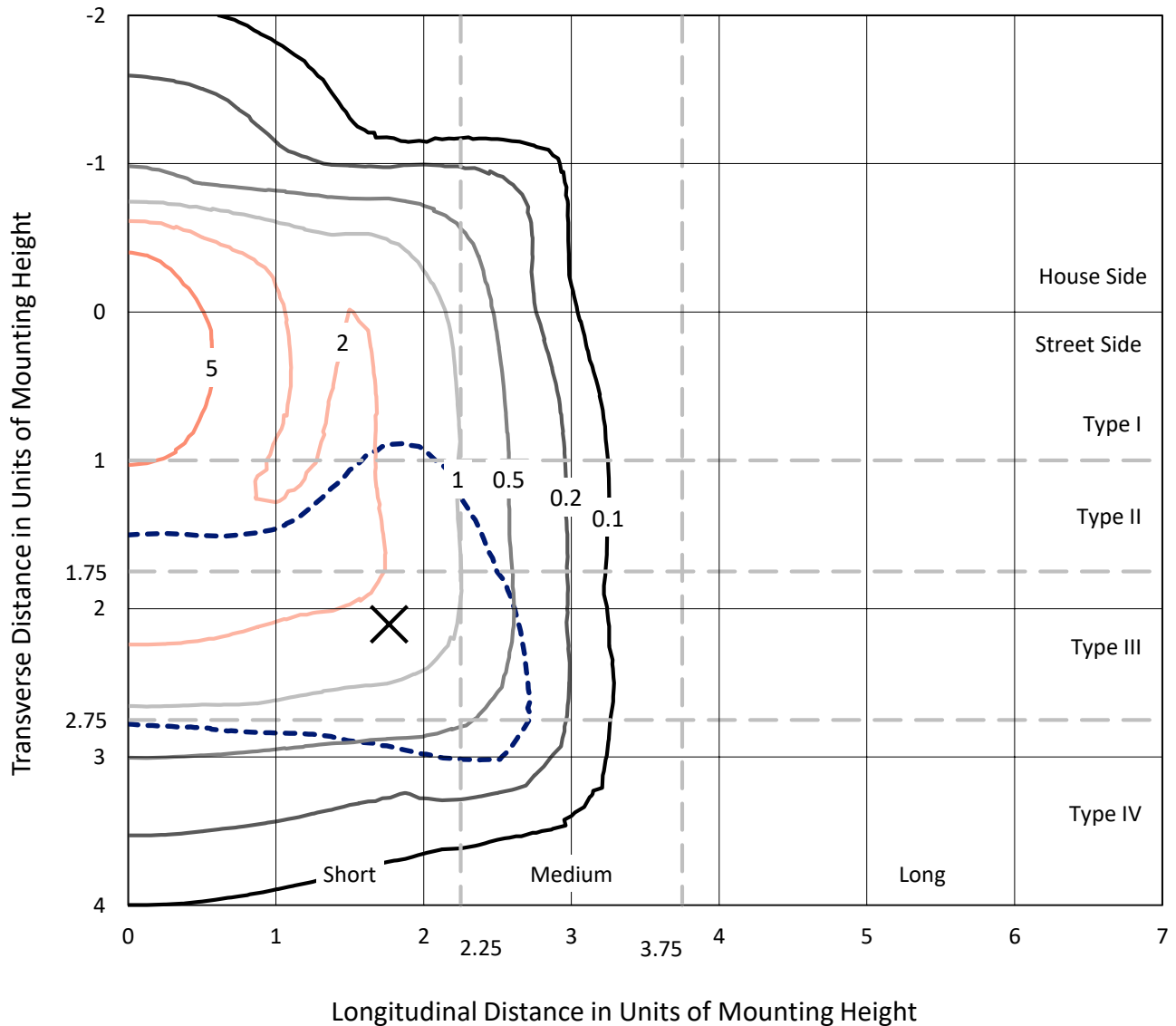


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

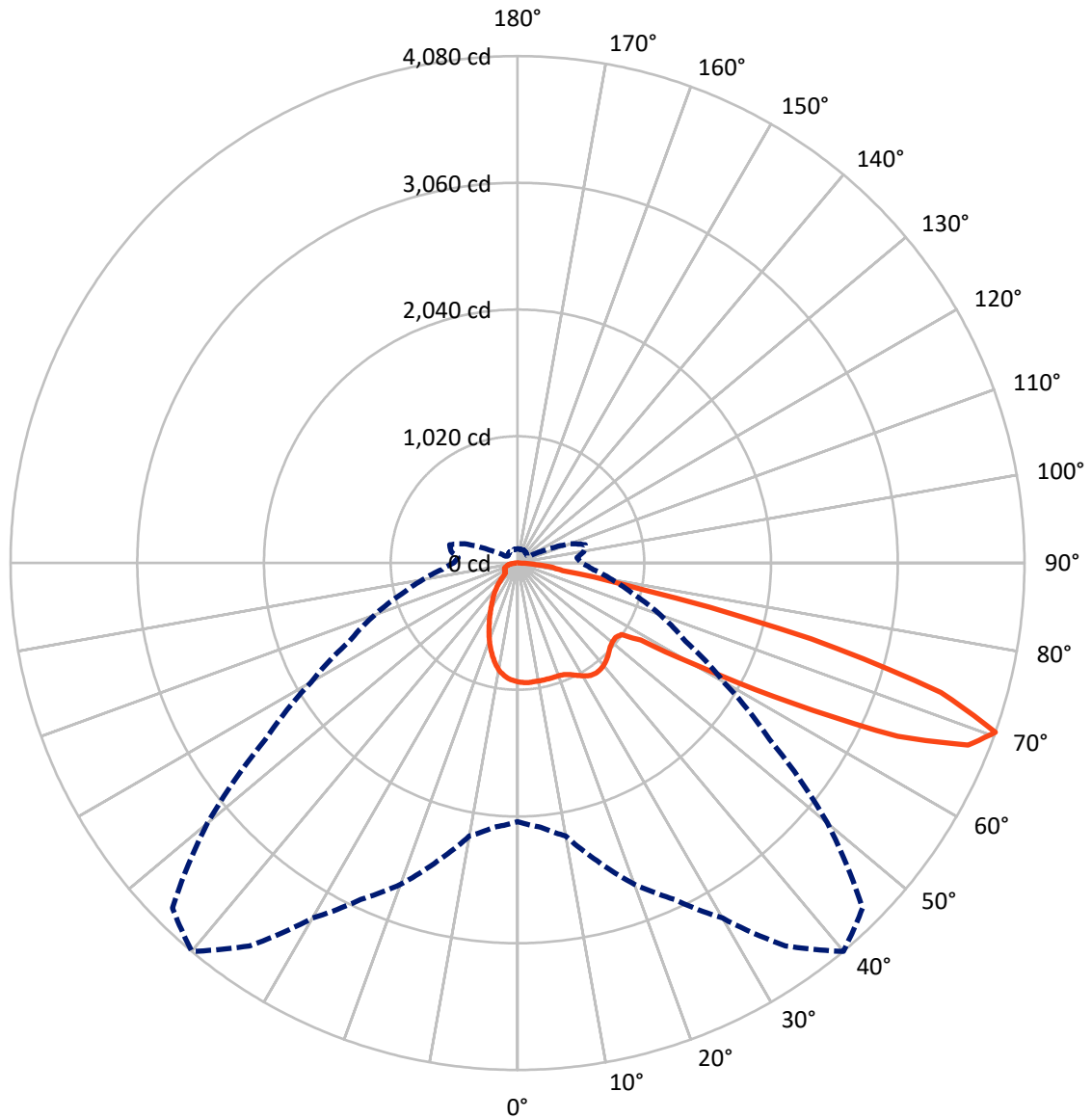


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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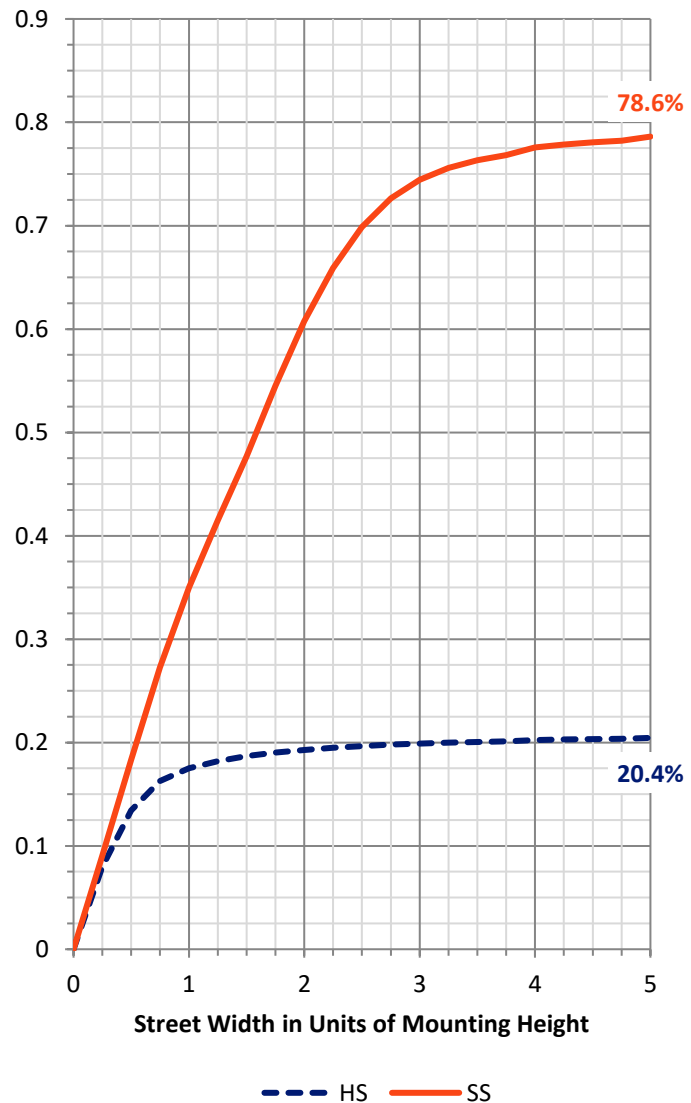
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	931.7	0.0	931.7
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	3556.4	0.0	3556.4
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	4488.1	0.0	4488.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	2.0
10°-20°	244.9	5.5
20°-30°	362.6	8.1
30°-40°	458.2	10.2
40°-50°	518.2	11.5
50°-60°	737.4	16.4
60°-70°	1373.3	30.6
70°-80°	629.4	14.0
80°-90°	74.7	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°	4488.1	100.0
0°-180°	4488.1	100.0



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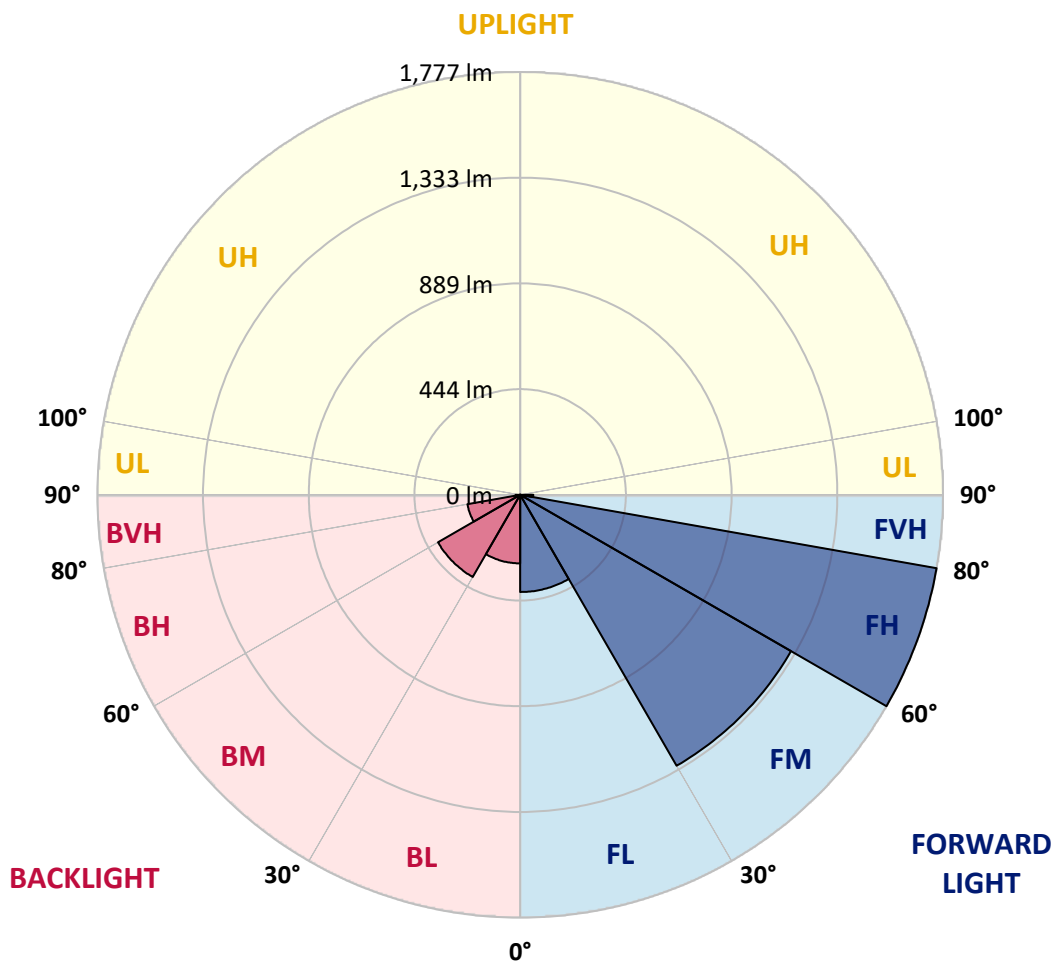
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.7	9.1			
FM	(30°-60°)	1314.9	29.3			
FH	(60°-80°)	1777.5	39.6			G1/1800
FVH	(80°-90°)	55.4	1.2			G1/100
BL	(0°-30°)	288.3	6.4	B1/500		
BM	(30°-60°)	398.9	8.9	B1/1000		
BH	(60°-80°)	225.2	5.0	B1/500		G1/500
BVH	(80°-90°)	19.3	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6
2.5°	972.3	974.9	971.8	971.3	971.3	970.8	967.8	967.3	963.2	963.7	964.7
5°	979.4	980.4	978.4	977.9	976.9	974.9	972.3	969.3	966.3	963.2	960.7
7.5°	986.5	985.5	984.0	984.0	982.5	979.4	974.4	970.3	963.7	960.2	955.6
10°	996.6	995.1	993.1	992.1	989.5	985.0	977.9	972.3	964.2	957.1	949.5
12.5°	1006.3	1005.8	1002.7	1001.2	997.1	992.6	984.0	975.4	964.7	953.6	943.5
15°	1023.5	1021.5	1018.4	1015.4	1008.8	1002.7	989.5	979.4	964.2	949.5	933.8
17.5°	1053.4	1049.8	1046.8	1040.2	1032.1	1021.5	1002.2	985.0	964.2	943.0	925.2
20°	1108.1	1100.5	1096.4	1087.8	1073.6	1054.4	1024.5	996.6	965.7	938.4	914.6
22.5°	1169.8	1164.8	1159.2	1153.6	1131.3	1103.5	1063.0	1021.5	974.9	936.4	906.0
25°	1239.2	1232.6	1229.6	1220.0	1199.2	1167.3	1112.1	1054.4	995.6	944.5	906.0
27.5°	1301.0	1299.0	1298.5	1287.3	1267.6	1230.1	1164.8	1095.4	1024.0	961.2	913.6
30°	1357.2	1355.2	1354.2	1348.1	1325.3	1280.7	1209.8	1131.9	1054.9	984.5	927.8
32.5°	1417.0	1410.4	1407.3	1395.7	1369.9	1317.7	1236.7	1155.7	1079.2	1007.3	943.5
35°	1465.6	1460.0	1453.9	1437.2	1400.8	1339.0	1248.3	1163.8	1088.8	1019.9	951.6
37.5°	1501.0	1495.5	1486.9	1465.6	1420.5	1346.1	1247.8	1161.2	1085.3	1017.9	953.1
40°	1516.7	1511.2	1502.0	1475.2	1424.1	1342.0	1238.2	1149.6	1074.6	1007.3	947.0
42.5°	1510.7	1506.6	1495.0	1469.1	1412.9	1323.8	1219.0	1127.8	1054.4	990.1	933.3
45°	1487.4	1484.3	1473.2	1445.8	1387.6	1294.4	1190.6	1100.5	1030.1	968.8	915.1
47.5°	1452.4	1451.4	1440.3	1413.4	1355.7	1265.0	1161.2	1073.6	1005.8	948.0	899.9
50°	1413.9	1408.9	1403.3	1378.5	1325.8	1239.7	1140.0	1056.9	992.1	940.4	893.3
52.5°	1389.6	1388.1	1383.0	1360.8	1310.1	1225.0	1130.3	1050.8	991.1	938.9	889.8
55°	1605.4	1608.9	1562.3	1465.6	1380.5	1265.5	1159.2	1081.7	1015.9	963.2	927.3
57.5°	2374.6	2358.9	2278.9	2087.0	1870.2	1584.1	1378.0	1252.9	1171.4	1180.5	1198.7
60°	2766.6	2763.5	2748.9	2674.4	2530.1	2312.3	2070.8	1793.7	1705.6	1715.3	1722.3
62.5°	2941.8	2946.4	2957.5	2929.7	2891.7	2828.4	2707.8	2596.4	2478.4	2434.4	2316.4
65°	3022.8	3030.9	3056.3	3072.0	3086.6	3097.8	3145.4	3276.0	3362.1	3201.1	2826.3
67.5°	2855.2	2894.2	2977.8	3059.3	3132.2	3236.0	3397.1	3700.4	3911.6	3713.6	3170.2
70°	2081.4	2134.6	2230.3	2482.5	2751.9	2987.4	3299.3	3761.2	4079.7	3926.8	3255.3
72.5°	1305.0	1319.7	1362.3	1455.0	1655.0	1957.3	2502.7	3195.5	3563.2	3441.1	2751.4
75°	828.0	833.1	831.5	852.8	886.7	952.6	1168.3	1887.4	2441.0	2250.5	1533.4
77.5°	493.3	500.9	503.9	510.5	526.7	550.0	567.7	642.1	1023.5	993.6	556.6
80°	413.2	419.3	414.3	412.7	402.6	395.5	404.1	395.5	367.2	353.5	325.6
82.5°	218.8	218.3	216.7	231.4	261.3	284.6	302.3	298.3	269.9	229.9	195.0
85°	120.0	124.1	124.1	129.1	124.6	125.1	129.1	136.2	126.1	105.3	86.1
87.5°	10.1	15.7	12.7	15.7	21.3	15.2	14.7	14.7	12.7	9.1	8.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6
2.5°	962.2	961.2	959.2	957.6	957.6	955.1	953.6	952.6	952.1	950.0	950.0
5°	959.2	955.6	952.1	949.5	948.0	945.5	941.4	939.4	936.9	934.9	933.8
7.5°	952.6	946.0	940.4	936.4	931.3	927.3	922.2	917.6	913.1	911.1	910.0
10°	942.5	933.8	925.2	917.6	910.5	903.5	896.9	890.3	884.7	880.7	876.6
12.5°	932.8	919.7	908.5	897.4	886.2	877.6	868.5	858.9	850.8	843.2	841.2
15°	919.7	904.5	890.3	876.6	862.9	848.8	837.6	827.0	813.8	805.2	798.6
17.5°	907.5	889.3	872.1	855.9	839.1	824.5	807.7	793.6	780.4	767.2	757.6
20°	894.3	874.6	856.4	838.1	819.9	801.2	781.9	763.7	747.5	731.8	716.1
22.5°	882.7	862.4	844.7	825.0	804.7	783.4	761.2	738.4	719.6	699.4	681.1
25°	875.6	853.3	835.1	815.8	793.6	770.3	744.9	718.1	695.3	672.0	650.2
27.5°	875.6	846.7	828.0	808.8	786.0	761.2	733.3	703.9	678.1	652.3	625.4
30°	883.2	847.8	822.4	802.2	778.9	752.0	721.1	690.3	661.9	631.5	605.7
32.5°	890.3	849.8	818.4	792.6	765.7	739.4	708.0	675.1	643.7	614.8	587.4
35°	894.8	849.8	810.8	777.9	747.5	721.7	690.8	657.8	625.9	597.6	572.3
37.5°	895.4	845.7	798.6	761.2	729.2	702.4	673.0	642.1	611.8	585.4	564.2
40°	890.3	837.6	786.5	743.4	710.0	682.7	655.8	628.0	600.6	578.8	560.6
42.5°	881.2	829.0	774.8	729.2	694.3	665.9	641.1	617.3	593.5	574.8	559.6
45°	867.5	817.4	764.2	720.6	686.2	656.3	632.0	612.3	592.0	576.3	561.1
47.5°	855.3	813.3	767.7	726.2	690.3	659.4	634.5	617.8	602.1	591.5	570.7
50°	852.8	811.3	769.3	730.8	694.3	662.9	641.1	632.5	628.0	621.4	589.5
52.5°	845.7	810.8	780.4	759.1	735.8	721.1	698.4	706.5	701.4	678.1	620.4
55°	920.2	930.3	958.7	999.2	1036.6	1045.3	1042.7	1033.1	982.0	844.7	694.8
57.5°	1265.0	1322.3	1375.9	1399.8	1396.7	1369.9	1350.6	1311.6	1237.7	1070.6	841.7
60°	1744.1	1753.2	1724.9	1682.8	1611.9	1552.7	1489.4	1416.5	1309.1	1145.5	931.8
62.5°	2185.2	2062.7	1936.6	1818.1	1710.2	1616.0	1527.9	1426.1	1286.3	1115.6	920.2
65°	2496.7	2237.4	2038.3	1868.2	1715.8	1584.1	1474.2	1342.0	1184.5	1030.6	852.8
67.5°	2657.2	2259.7	1954.3	1717.3	1501.0	1318.7	1172.4	1043.7	926.8	859.4	746.5
70°	2477.9	1917.8	1492.4	1224.5	965.7	774.3	611.8	513.5	479.6	543.4	565.2
72.5°	1846.4	1248.3	887.8	686.7	526.2	419.3	321.6	252.7	205.6	215.7	280.1
75°	873.1	538.8	380.8	289.7	230.4	190.9	156.0	142.8	119.5	99.3	93.2
77.5°	339.8	247.6	204.6	149.9	106.3	85.6	72.9	70.4	71.9	69.9	68.9
80°	258.8	175.2	109.9	80.5	69.4	61.3	54.2	52.2	53.2	55.7	58.2
82.5°	144.3	90.1	66.8	58.2	52.2	44.6	40.5	37.5	38.0	41.0	46.6
85°	55.7	43.6	40.0	38.5	36.0	28.9	24.8	25.3	28.9	34.4	34.4
87.5°	6.1	6.1	8.1	6.1	6.1	6.1	5.6	6.6	7.1	9.1	10.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6	957.6
2.5°	949.0	949.0	949.0	948.0	948.5	946.5	946.5	945.0	947.5	946.0	945.5
5°	934.3	933.8	931.8	931.8	931.8	931.8	933.3	929.3	932.3	932.3	930.8
7.5°	909.5	909.5	904.0	907.0	906.0	907.5	909.5	907.5	910.5	912.6	911.1
10°	875.1	875.1	870.5	874.1	872.6	876.1	879.7	877.6	879.7	882.7	883.7
12.5°	837.1	835.1	831.0	832.6	832.6	834.6	836.1	838.6	841.2	845.2	847.2
15°	793.1	790.0	785.0	785.0	781.9	782.9	786.0	787.0	792.0	797.6	804.2
17.5°	748.0	740.4	734.8	728.2	723.2	727.2	730.8	733.3	737.4	746.0	750.5
20°	705.4	690.3	679.6	671.0	665.4	668.0	672.5	675.6	679.1	681.1	682.7
22.5°	663.4	646.2	631.5	620.9	611.8	614.3	612.3	610.7	613.3	606.7	606.2
25°	627.0	606.7	586.9	574.3	563.1	559.6	549.0	546.4	539.3	533.8	529.7
27.5°	600.6	574.3	552.5	537.8	520.1	506.9	493.3	479.6	472.0	462.9	458.3
30°	579.9	552.0	526.2	501.4	478.1	457.8	439.6	421.8	409.7	396.5	387.9
32.5°	560.6	534.8	503.4	469.5	438.1	415.3	391.5	371.2	352.0	334.7	322.1
35°	547.4	518.6	478.6	437.0	401.6	374.8	349.4	320.6	297.3	275.0	261.3
37.5°	540.4	504.9	455.8	409.7	370.2	339.8	308.4	275.0	246.6	225.9	205.1
40°	534.8	491.2	435.5	385.4	343.9	307.4	270.9	231.4	200.0	178.3	162.1
42.5°	528.7	476.0	417.8	366.1	320.1	277.5	233.5	191.4	161.5	146.4	139.3
45°	522.1	462.9	401.1	347.9	296.8	245.1	194.5	155.5	137.7	132.7	132.7
47.5°	520.6	454.3	388.9	330.2	270.4	207.6	158.5	134.2	129.1	130.2	132.2
50°	526.7	451.7	378.3	309.4	235.5	168.1	134.2	126.1	127.1	130.2	133.2
52.5°	541.4	453.8	367.2	280.6	194.0	138.8	124.1	123.6	126.6	131.2	134.2
55°	566.2	453.8	345.9	237.5	155.0	124.6	120.5	122.6	126.6	130.7	133.2
57.5°	619.4	449.2	308.4	189.9	129.6	119.5	119.5	122.0	125.6	129.6	131.7
60°	682.7	443.1	255.7	146.9	117.0	115.5	119.0	122.0	125.1	128.6	130.7
62.5°	686.7	427.4	202.6	121.5	110.4	112.9	118.5	122.6	123.6	126.1	128.6
65°	631.0	372.7	161.0	108.9	107.4	111.4	117.0	120.0	120.5	121.5	124.1
67.5°	552.5	303.9	130.2	102.8	104.3	108.9	111.9	114.5	116.0	118.5	119.0
70°	453.8	244.1	111.4	96.7	98.2	103.3	105.8	108.4	111.4	114.5	112.9
72.5°	321.6	189.9	97.7	90.1	92.2	96.7	99.8	101.8	104.3	107.4	105.3
75°	136.7	132.7	84.6	81.5	84.6	87.6	90.6	93.7	96.2	97.7	97.7
77.5°	69.9	78.0	72.9	72.9	75.0	78.0	80.5	83.6	85.1	86.6	88.6
80°	59.3	60.3	61.3	63.3	65.3	68.4	70.9	73.4	73.9	74.4	75.5
82.5°	49.1	51.1	52.2	55.2	56.7	57.7	59.3	59.3	60.3	60.3	58.7
85°	35.4	38.0	39.5	40.0	39.5	40.0	40.5	41.5	44.1	44.1	42.0
87.5°	10.1	9.6	12.2	12.7	13.7	15.7	17.7	21.3	22.3	23.3	23.3
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):**

	165°	170°	175°	180°
0°	957.6	957.6	957.6	957.6
2.5°	945.0	946.0	944.0	944.5
5°	930.8	932.8	930.3	933.3
7.5°	912.6	915.6	915.1	914.6
10°	886.2	890.3	890.3	891.8
12.5°	852.8	855.3	857.4	858.4
15°	807.7	812.3	814.8	814.8
17.5°	753.6	756.6	758.1	756.1
20°	684.7	683.7	684.2	679.1
22.5°	605.2	606.7	602.1	603.1
25°	527.2	524.7	526.7	523.6
27.5°	451.7	452.2	446.7	449.2
30°	379.8	377.3	370.2	373.7
32.5°	310.4	303.9	296.3	291.7
35°	245.1	235.0	231.4	229.9
37.5°	192.4	181.3	177.8	173.7
40°	152.9	148.9	147.4	148.4
42.5°	137.2	137.2	138.3	138.8
45°	133.2	134.7	136.2	136.7
47.5°	133.7	135.2	137.2	137.7
50°	134.7	136.2	137.7	138.3
52.5°	135.2	135.2	136.2	136.7
55°	134.2	133.7	134.2	134.7
57.5°	132.2	131.2	131.7	133.2
60°	131.2	129.6	130.7	131.7
62.5°	128.6	128.1	129.1	129.6
65°	123.1	123.6	125.1	125.1
67.5°	118.0	118.5	119.0	119.5
70°	<i>111.9</i>	<i>112.4</i>	<i>113.4</i>	<i>113.9</i>
72.5°	104.8	106.9	108.4	110.4
75°	99.3	101.3	104.3	106.3
77.5°	89.6	91.2	94.7	97.2
80°	76.0	75.5	76.0	77.5
82.5°	58.2	58.2	57.7	57.2
85°	41.0	40.5	39.0	39.0
87.5°	22.3	21.8	21.3	20.3
90°	0.0	0.0	0.0	0.0

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