

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: P181633

Luminaire Tested: **ICM-F02-LED-E1-T4-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181633  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F02-LED-E1-T4-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4239.3 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 55  
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

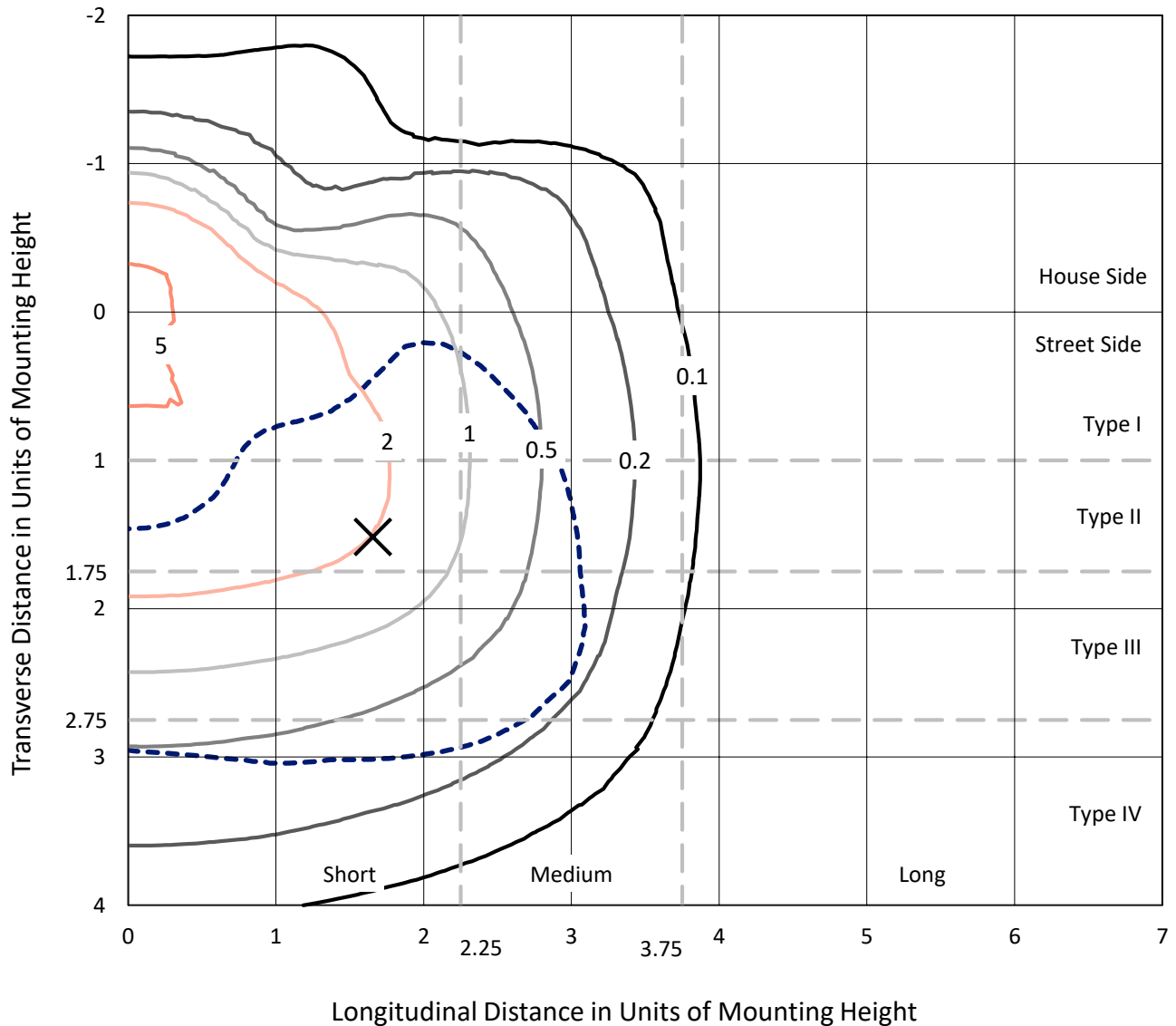


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

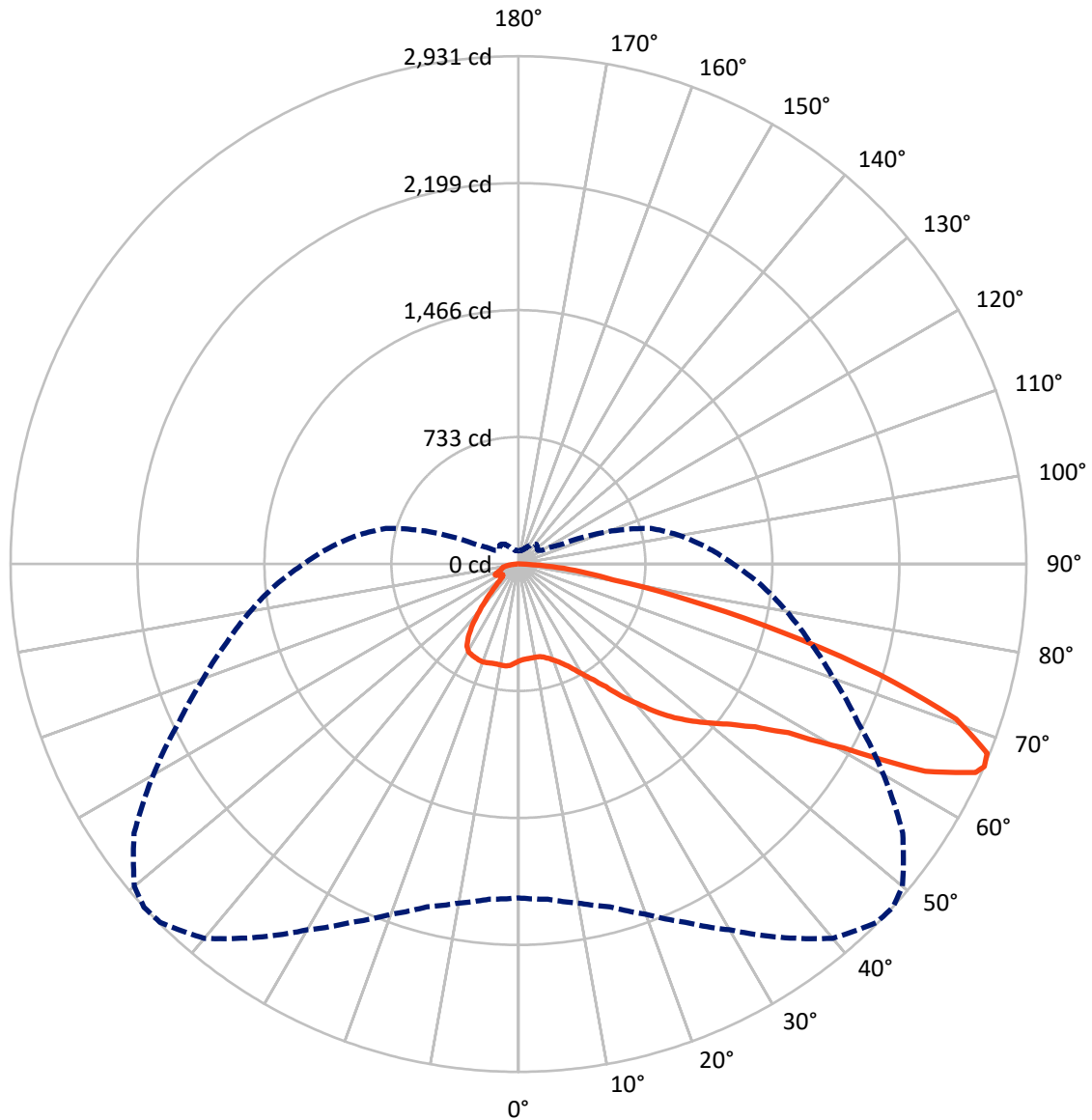


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	904.6	0.0	904.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	3334.7	0.0	3334.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	4239.3	0.0	4239.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	1.3
10°-20°	164.7	3.9
20°-30°	283.8	6.7
30°-40°	429.3	10.1
40°-50°	556.4	13.1
50°-60°	767.2	18.1
60°-70°	1191.9	28.1
70°-80°	693.1	16.3
80°-90°	98.6	2.3
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°	4239.3	100.0
0°-180°	4239.3	100.0



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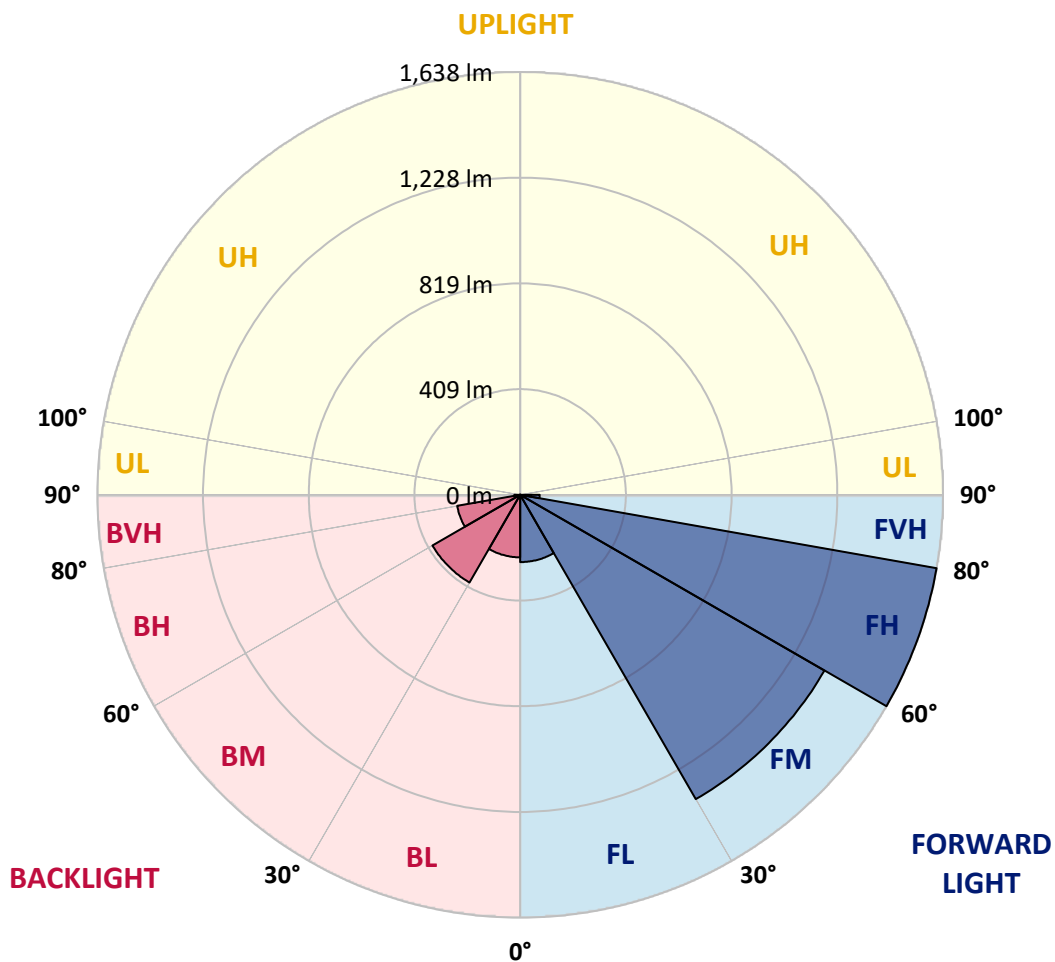
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.6	6.1			
FM	(30°-60°)	1360.8	32.1			
FH	(60°-80°)	1637.6	38.6			G1/1800
FVH	(80°-90°)	75.6	1.8			G1/100
BL	(0°-30°)	242.1	5.7	B1/500		
BM	(30°-60°)	392.1	9.2	B1/1000		
BH	(60°-80°)	247.4	5.8	B1/500		G1/500
BVH	(80°-90°)	22.9	0.5			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°	47.5°
0°	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8
2.5°	548.5	550.3	548.9	549.4	549.4	549.9	549.9	550.3	549.9	551.3	552.2
5°	538.7	539.6	539.2	540.1	541.0	542.9	542.4	544.7	545.2	546.6	548.9
7.5°	534.9	534.0	534.4	535.9	536.8	537.8	538.7	540.6	542.0	545.2	547.1
10°	538.7	538.2	538.7	539.6	539.6	540.1	539.2	541.0	542.0	544.7	546.6
12.5°	554.1	554.1	553.1	553.1	552.2	551.3	548.9	547.5	547.1	547.5	548.5
15°	578.9	578.0	576.1	574.7	572.8	569.5	566.2	563.4	561.6	558.8	557.9
17.5°	603.2	601.8	599.9	598.1	595.7	592.5	587.3	584.0	578.9	575.6	573.8
20°	631.3	628.5	626.1	623.8	619.1	618.1	613.0	607.4	601.3	593.9	592.9
22.5°	667.7	663.1	660.3	658.9	654.1	652.7	644.4	636.4	628.9	619.1	616.7
25°	704.7	700.0	698.6	696.7	693.4	691.5	683.6	674.7	664.9	651.4	648.6
27.5°	740.7	741.1	737.4	738.8	737.9	734.6	726.6	717.8	710.2	694.4	691.1
30°	785.6	782.8	780.8	783.7	780.4	780.8	773.9	769.2	757.0	747.7	741.1
32.5°	832.3	831.8	834.7	836.6	836.1	835.2	829.5	824.8	814.1	800.6	797.7
35°	896.4	899.2	901.5	910.0	910.0	916.0	910.4	904.8	892.2	875.8	870.2
37.5°	939.9	940.8	950.1	961.4	975.4	988.5	992.2	993.7	988.5	976.4	967.9
40°	979.6	981.5	996.5	1013.8	1034.3	1060.0	1075.4	1082.5	1083.9	1078.2	1060.0
42.5°	1019.4	1022.1	1037.6	1062.9	1091.4	1124.1	1151.3	1168.6	1178.3	1178.3	1167.5
45°	1065.7	1069.4	1086.2	1113.8	1147.0	1188.2	1225.6	1258.8	1274.7	1275.6	1265.3
47.5°	1120.4	1123.6	1143.3	1171.4	1205.5	1247.1	1294.3	1332.2	1361.7	1363.5	1355.1
50°	1191.0	1195.6	1212.0	1237.2	1272.3	1314.4	1361.7	1414.5	1445.3	1452.8	1443.9
52.5°	1284.5	1285.4	1299.0	1322.3	1356.5	1396.8	1446.7	1504.3	1544.9	1551.0	1536.5
55°	1413.5	1412.1	1421.0	1446.2	1472.0	1503.4	1555.3	1619.7	1665.1	1674.4	1659.5
57.5°	1588.8	1587.5	1595.0	1601.0	1649.2	1679.6	1730.6	1792.3	1836.3	1863.4	1837.7
60°	1860.6	1859.2	1871.4	1906.9	1942.9	1987.3	2036.8	2110.7	2172.5	2180.4	2155.2
62.5°	2057.4	2064.5	2091.1	2132.7	2205.7	2292.7	2383.4	2480.6	2607.3	2647.6	2635.4
65°	1988.7	2002.7	2039.6	2102.8	2200.0	2320.2	2462.3	2638.6	2808.4	2903.3	2900.5
66°	1927.0	1942.4	1987.7	2048.6	2151.4	2282.8	2438.1	2630.2	2820.1	2924.9	2931.4
67.5°	1814.7	1832.0	1876.5	1948.5	2048.6	2188.4	2355.3	2564.3	2778.9	2900.9	2918.3
70°	1596.4	1616.0	1648.3	1707.6	1806.3	1931.2	2107.0	2294.1	2518.9	2658.7	2679.8
72.5°	1334.5	1351.8	1387.8	1436.5	1517.3	1595.9	1733.9	1871.8	2032.7	2192.1	2176.7
75°	958.1	965.6	987.1	1039.9	1083.4	1154.1	1264.8	1378.0	1487.9	1560.8	1571.1
77.5°	498.0	517.6	548.0	606.5	653.7	717.3	789.3	874.4	954.8	1021.7	1003.4
80°	326.0	334.3	361.5	391.4	426.0	466.7	514.8	546.6	556.9	552.7	556.9
82.5°	188.0	203.4	239.4	262.3	288.0	302.0	340.4	376.8	397.5	371.7	362.4
85°	23.8	30.9	97.3	122.5	140.3	161.3	173.0	195.0	181.9	162.7	198.2
87.5°	5.1	4.7	6.5	14.0	14.5	12.2	22.9	24.3	15.0	7.4	9.4
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8
2.5°	553.1	553.7	554.6	556.0	556.9	557.9	558.8	560.2	561.1	562.0	563.9
5°	550.8	552.7	554.6	556.5	558.8	562.5	564.8	566.7	568.6	572.4	573.8
7.5°	549.4	552.7	555.5	558.8	562.5	565.8	570.0	572.4	575.2	577.5	580.3
10°	548.5	553.1	556.0	560.7	564.8	568.1	572.8	575.6	578.9	581.7	583.1
12.5°	550.3	552.7	555.5	560.2	565.3	570.0	575.2	577.5	580.3	582.6	583.1
15°	558.3	558.3	558.8	562.5	567.6	571.4	575.6	578.0	579.4	580.7	580.7
17.5°	572.8	569.5	567.2	567.6	571.0	573.3	575.6	575.6	574.7	574.2	573.3
20°	589.7	585.4	580.7	577.5	576.6	574.7	573.3	568.6	564.8	561.6	559.3
22.5°	614.0	607.4	600.8	594.8	589.2	582.1	574.2	564.8	556.0	549.9	546.1
25°	643.9	638.7	630.8	621.4	614.4	601.3	591.1	577.5	566.2	558.3	551.7
27.5°	686.4	680.4	672.8	664.5	654.1	639.6	627.1	611.2	597.6	585.9	577.5
30°	739.3	731.4	725.7	715.4	708.4	692.0	679.4	659.8	633.6	614.9	603.2
32.5°	793.5	784.7	779.9	772.0	764.1	754.2	735.1	704.7	671.0	640.6	620.5
35°	866.0	856.7	848.2	841.2	829.5	811.3	794.4	758.0	711.7	669.1	635.4
37.5°	957.1	941.8	920.7	902.9	882.3	856.2	830.4	793.0	740.2	685.0	640.1
40°	1054.4	1027.3	997.4	964.2	928.7	890.8	861.3	823.4	764.1	698.6	636.8
42.5°	1155.9	1112.8	1071.3	1024.5	975.0	930.1	891.7	850.1	781.9	702.3	623.8
45°	1256.5	1208.3	1145.1	1083.9	1021.2	965.6	922.6	875.8	798.1	703.7	606.5
47.5°	1339.6	1290.1	1218.1	1141.4	1067.1	1003.9	953.4	902.9	820.2	713.6	602.2
50°	1427.5	1367.3	1287.3	1196.6	1112.4	1041.8	988.0	935.6	851.0	738.8	615.8
52.5°	1523.5	1454.2	1360.7	1259.3	1167.1	1088.1	1029.7	975.9	890.3	774.3	641.6
55°	1640.3	1555.7	1454.2	1339.6	1241.0	1153.6	1089.0	1025.4	937.0	816.4	673.8
57.5°	1819.0	1715.2	1601.0	1470.6	1361.1	1257.9	1180.7	1107.3	1009.5	879.1	717.8
60°	2142.1	2031.3	1883.0	1724.9	1596.4	1475.7	1362.6	1271.4	1151.3	1002.5	815.0
62.5°	2604.9	2457.7	2259.9	2038.7	1870.3	1696.5	1568.8	1433.2	1284.0	1123.6	929.6
65°	2862.2	2683.6	2418.9	2162.2	1945.7	1756.8	1594.5	1437.4	1271.8	1118.5	956.2
66°	2894.0	2707.8	2432.9	2162.6	1935.4	1741.3	1570.6	1407.9	1238.7	1092.3	945.0
67.5°	2880.9	2690.5	2407.2	2122.0	1891.0	1682.4	1506.1	1337.3	1168.6	1032.0	907.6
70°	2666.2	2485.8	2207.5	1931.2	1711.8	1506.1	1337.8	1171.8	1017.0	900.1	808.5
72.5°	2214.1	2059.7	1818.1	1601.0	1428.9	1259.3	1116.7	958.1	827.2	740.7	686.4
75°	1598.2	1504.8	1284.5	1160.1	1009.0	896.4	758.0	664.0	570.0	527.9	518.6
77.5°	1009.5	883.7	743.9	612.6	503.6	417.6	325.0	275.9	230.0	225.4	272.1
80°	511.1	460.1	354.4	282.4	237.6	192.2	152.0	115.1	80.5	96.8	116.0
82.5°	334.8	279.2	218.8	180.0	156.7	130.0	101.0	70.1	51.4	58.0	79.5
85°	180.9	154.3	124.4	98.2	79.5	71.1	47.7	33.7	33.2	35.5	45.4
87.5°	13.1	13.1	10.3	9.4	11.3	9.4	8.4	8.4	7.9	8.4	11.3
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8	558.8
2.5°	564.8	566.2	566.7	569.0	570.4	571.4	572.4	572.4	572.8	574.2	574.7
5°	575.6	578.0	580.7	582.6	583.5	586.3	587.3	587.3	588.2	590.1	591.5
7.5°	582.1	585.4	588.2	589.2	591.1	592.0	593.4	594.3	594.3	596.2	597.1
10°	584.5	586.3	589.2	589.2	591.1	591.1	592.5	592.9	592.9	594.8	596.2
12.5°	584.5	585.4	587.7	587.7	589.2	589.7	591.5	592.9	593.4	595.7	597.6
15°	581.7	582.6	584.5	584.9	588.2	590.1	594.3	597.1	597.1	599.4	600.4
17.5°	573.8	576.1	579.8	583.5	589.7	593.9	599.0	601.3	599.4	598.1	596.7
20°	560.7	564.8	573.8	583.1	593.9	599.4	602.2	599.9	593.4	586.8	582.6
22.5°	547.5	556.0	571.0	584.9	597.1	600.8	599.4	591.1	580.3	572.4	566.7
25°	553.7	563.4	578.0	590.6	598.5	597.6	592.0	580.3	568.6	558.3	548.9
27.5°	578.9	589.7	597.6	601.8	600.8	594.3	585.4	572.4	558.3	544.7	531.6
30°	602.7	608.4	610.2	607.0	599.4	588.7	577.5	562.5	543.8	527.0	512.0
32.5°	613.5	607.9	599.0	590.1	578.0	568.6	553.1	536.8	513.4	493.3	478.3
35°	613.5	591.1	568.6	549.9	531.6	520.0	502.2	480.2	458.7	441.9	430.1
37.5°	599.9	556.9	520.0	489.6	466.7	454.0	427.4	407.7	389.5	383.9	376.4
40°	575.2	511.5	458.2	418.5	389.5	370.8	344.2	330.6	323.5	320.7	319.4
42.5°	542.0	461.0	390.0	340.8	309.6	288.5	270.7	262.3	261.9	261.4	261.4
45°	506.4	406.8	323.5	265.1	237.6	218.8	210.4	207.2	210.0	209.5	210.0
47.5°	484.5	365.7	262.8	200.6	179.5	167.4	163.2	164.6	167.0	166.0	166.0
50°	481.6	344.7	222.1	156.2	140.3	134.2	133.3	133.3	134.7	133.8	133.3
52.5°	491.9	341.3	201.0	134.2	121.6	116.5	115.5	115.1	114.6	111.7	109.4
55°	509.7	348.8	195.0	128.6	115.5	109.9	108.5	107.5	105.7	102.0	97.8
57.5°	545.2	372.2	200.6	131.3	117.4	112.7	111.3	111.3	107.5	101.5	95.3
60°	630.8	431.6	223.5	142.1	126.2	121.6	122.5	122.0	116.5	107.5	98.2
62.5°	741.1	509.2	253.4	157.1	137.5	136.6	141.2	140.3	130.9	117.4	103.8
65°	792.1	545.7	261.9	160.4	139.8	144.0	153.4	152.5	140.7	122.0	104.7
66°	793.0	545.7	258.1	157.6	136.6	141.7	151.1	150.6	138.9	120.2	102.9
67.5°	773.9	530.7	247.4	152.0	130.0	133.8	142.1	141.7	130.9	115.5	99.2
70°	701.9	475.1	219.8	142.1	121.1	119.3	122.0	120.2	113.1	102.4	91.2
72.5°	601.3	398.9	191.7	134.7	115.1	107.5	105.7	104.3	98.7	92.6	85.6
75°	473.7	315.6	168.4	129.0	109.4	99.6	96.3	94.4	90.7	86.5	80.9
77.5°	292.3	225.9	146.8	121.6	105.2	95.3	93.0	90.2	84.7	79.5	75.3
80°	130.4	139.8	120.7	106.1	94.0	85.1	81.4	77.1	71.5	68.3	66.0
82.5°	87.0	90.2	87.4	79.5	71.1	64.1	58.4	58.4	57.5	54.7	53.8
85°	55.6	56.1	54.2	49.1	45.9	41.6	39.3	39.7	41.6	41.1	40.7
87.5°	12.7	12.7	15.0	14.0	16.4	17.3	18.7	20.1	22.9	22.9	24.3
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):**

	160°	165°	170°	175°	180°
0°	558.8	558.8	558.8	558.8	558.8
2.5°	575.2	576.1	577.0	575.6	576.1
5°	591.5	591.1	593.4	592.0	592.9
7.5°	596.7	597.1	599.0	599.0	599.4
10°	597.1	598.1	600.4	601.8	602.7
12.5°	599.4	601.3	605.0	606.1	606.1
15°	601.3	602.2	604.6	605.5	606.5
17.5°	594.8	592.9	593.9	594.3	593.9
20°	578.4	576.6	576.1	574.2	575.2
22.5°	560.7	555.5	552.2	548.5	548.5
25°	539.2	531.2	524.7	518.0	519.5
27.5°	519.1	508.7	502.2	498.0	497.0
30°	499.4	488.7	482.5	477.4	477.4
32.5°	466.7	459.2	451.3	448.0	447.4
35°	421.3	416.7	410.0	408.7	406.3
37.5°	370.3	368.9	363.4	362.9	360.6
40°	317.0	318.0	316.1	315.2	313.8
42.5°	263.7	268.4	267.4	267.0	266.0
45°	212.7	216.0	216.5	217.9	220.3
47.5°	167.4	168.4	169.3	168.8	169.3
50°	130.9	128.6	128.1	126.7	128.1
52.5°	105.7	102.0	100.1	98.2	97.3
55°	93.0	89.3	87.4	86.5	85.6
57.5°	89.8	86.0	83.3	81.4	80.9
60°	90.7	85.1	81.4	79.0	78.5
62.5°	93.0	85.6	80.5	78.0	77.6
65°	92.6	84.7	80.0	77.1	76.7
66°	91.2	83.7	79.0	76.7	76.2
67.5°	88.8	82.3	78.0	76.2	75.3
70°	84.7	80.5	77.1	74.8	73.9
72.5°	80.9	77.6	74.8	72.5	72.0
75°	76.7	73.9	71.1	69.2	68.7
77.5°	71.5	68.7	66.9	65.5	65.0
80°	63.2	61.2	59.3	57.5	57.5
82.5°	52.4	51.0	49.1	47.7	47.3
85°	40.2	40.2	38.8	37.4	36.9
87.5°	23.8	23.3	23.3	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

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