

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: P181432

Luminaire Tested: **ICM-F02-LED-E1-T3-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181432  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
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-T3-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3997.6 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - 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

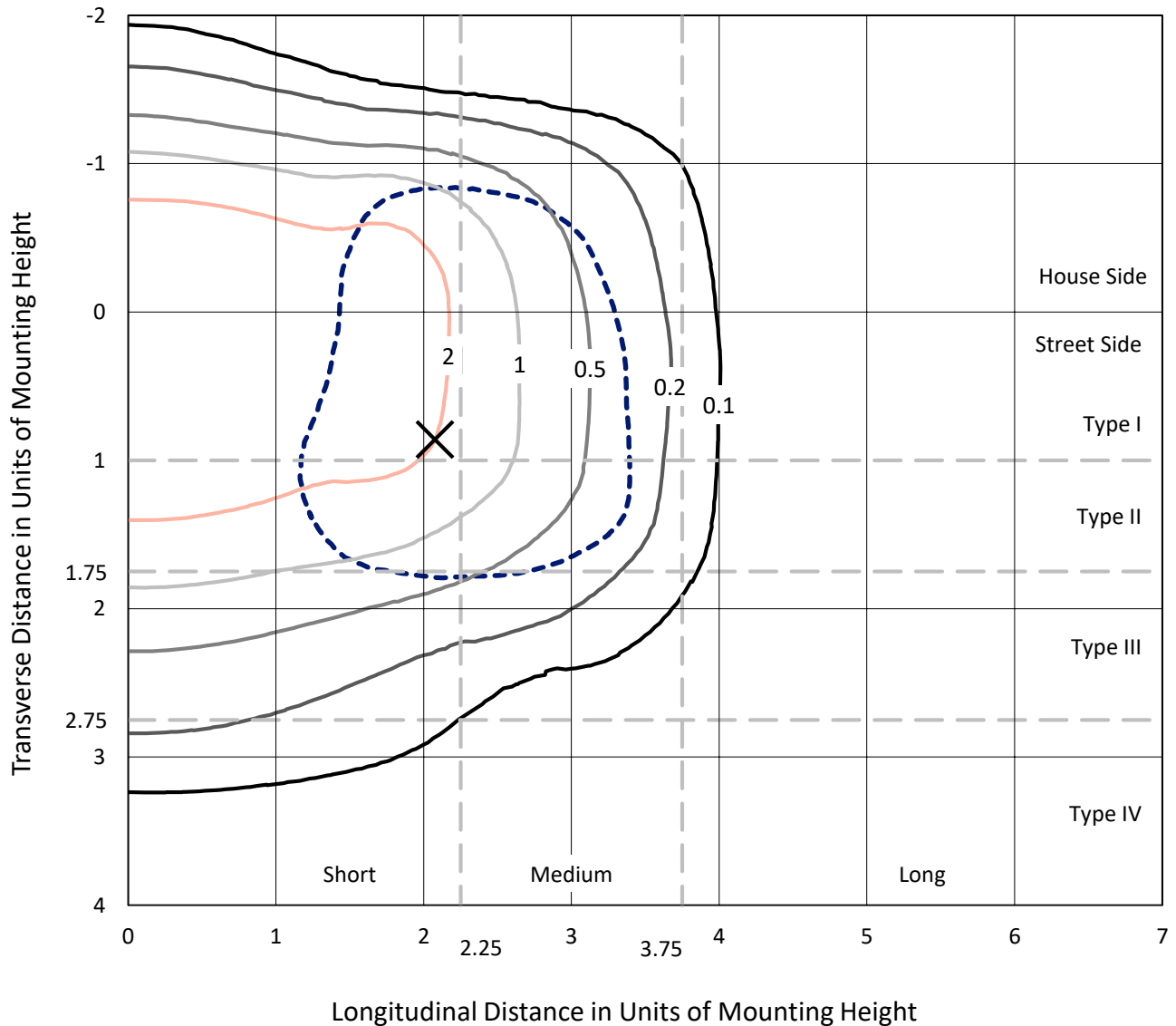


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

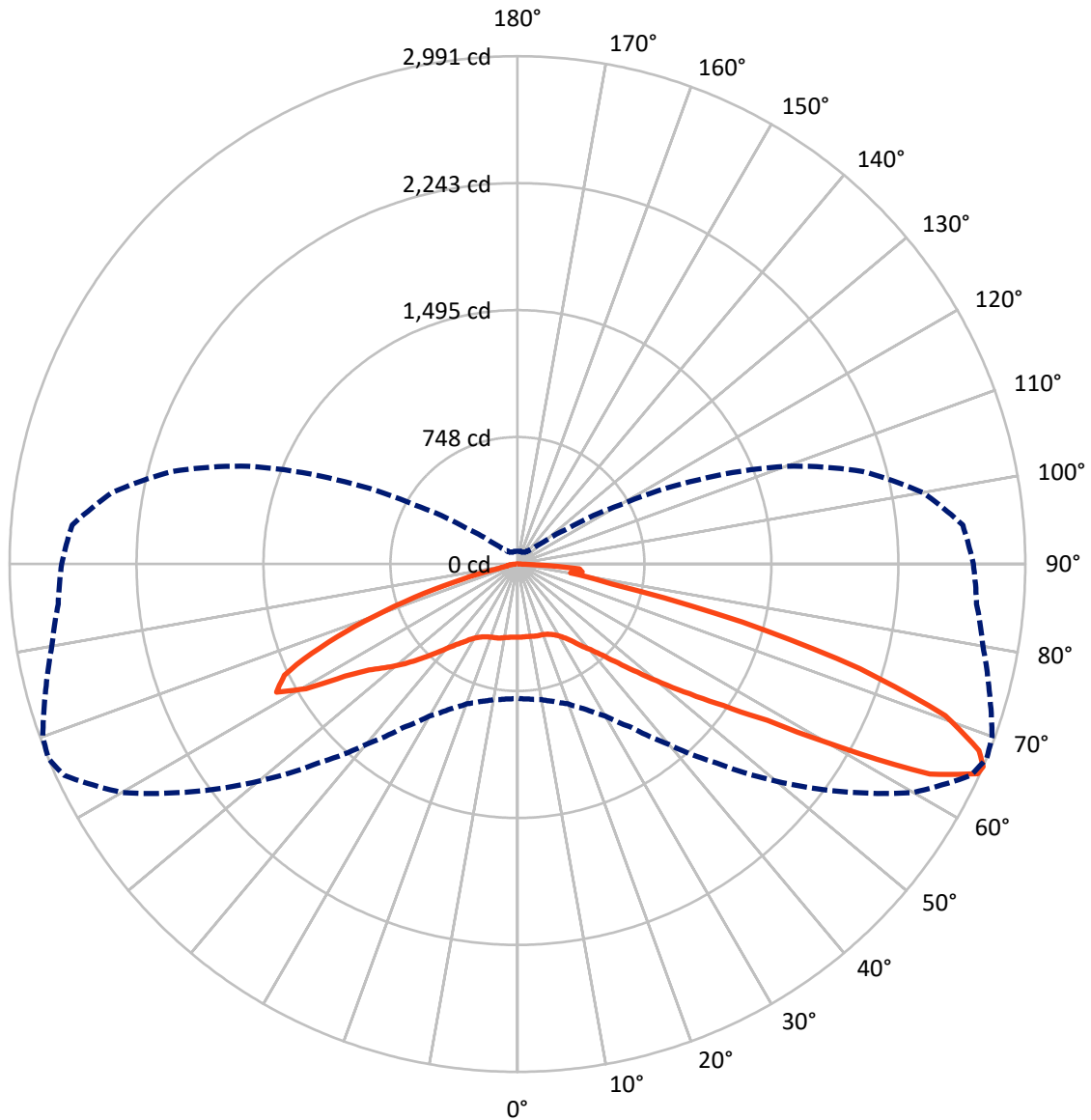


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1380.5	0.0	1380.5
	% Fixture	34.5	0.0	34.5
<b>Street Side</b>	Lumens	2617.1	0.0	2617.1
	% Fixture	65.5	0.0	65.5
<b>Total</b>	Lumens	3997.6	0.0	3997.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.3	1.0
10°-20°	121.8	3.0
20°-30°	209.3	5.2
30°-40°	339.8	8.5
40°-50°	567.3	14.2
50°-60°	893.3	22.3
60°-70°	1218.2	30.5
70°-80°	527.3	13.2
80°-90°	79.3	2.0
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°	3997.6	100.0
0°-180°	3997.6	100.0



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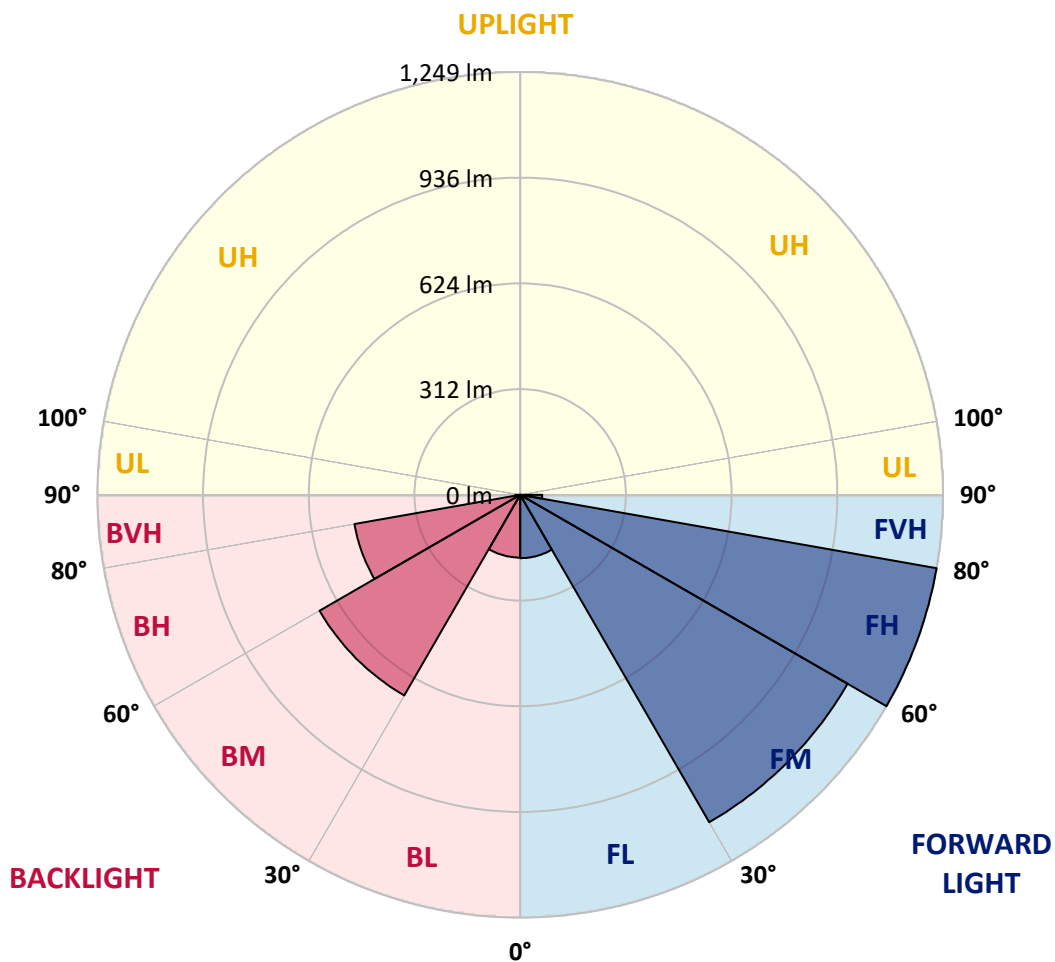
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.0	4.7			
FM	(30°-60°)	1116.4	27.9			
FH	(60°-80°)	1248.6	31.2			G1/1800
FVH	(80°-90°)	65.1	1.6			G1/100
BL	(0°-30°)	185.3	4.6	B1/500		
BM	(30°-60°)	684.1	17.1	B1/1000		
BH	(60°-80°)	496.9	12.4	B1/500		G1/500
BVH	(80°-90°)	14.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	432.6	434.2	432.6	432.9	433.4	432.9	432.6	432.6	431.3	432.1	432.9
5°	430.8	432.1	431.6	432.1	432.6	432.1	431.6	432.1	431.3	431.6	432.9
7.5°	428.7	428.2	428.7	429.5	430.3	430.3	430.3	430.8	430.3	430.3	431.6
10°	422.1	422.6	423.4	424.7	425.2	426.5	426.5	427.7	428.2	429.0	430.8
12.5°	414.0	414.3	415.3	416.1	418.2	420.4	420.4	423.4	424.7	426.9	430.0
15°	407.9	408.3	409.2	410.0	411.8	414.0	415.3	418.7	420.8	424.7	429.0
17.5°	411.4	410.9	411.8	412.2	412.2	414.0	414.0	416.6	419.2	422.6	428.2
20°	421.3	421.3	422.1	422.1	421.7	422.6	420.8	420.8	421.3	423.0	426.9
22.5°	431.3	430.8	432.6	433.4	433.8	435.1	433.4	432.9	430.8	429.5	430.8
25°	440.7	440.3	442.4	443.7	446.0	447.2	447.2	447.2	445.5	443.4	442.0
27.5°	455.4	455.4	457.6	458.9	460.6	463.2	464.5	464.5	464.9	461.9	459.7
30°	480.0	480.5	480.9	482.6	484.4	485.2	487.0	488.3	489.6	487.8	484.4
32.5°	509.4	506.8	506.8	509.4	511.6	514.1	515.1	516.7	519.4	518.0	517.7
35°	544.5	543.5	542.7	543.5	546.1	549.2	552.7	555.6	554.0	556.6	555.3
37.5°	596.3	597.1	597.6	597.6	597.1	598.1	599.7	602.8	601.9	602.8	604.5
40°	681.9	678.8	675.8	676.2	671.9	672.7	665.9	668.8	669.3	666.2	667.5
42.5°	767.4	769.1	770.4	773.9	770.9	769.1	762.6	762.6	759.2	756.2	755.3
45°	859.8	863.4	863.7	870.6	868.1	873.7	878.4	877.1	871.5	871.1	865.0
47.5°	933.8	939.4	945.4	953.6	960.1	972.7	987.4	994.7	999.0	1002.4	995.5
50°	989.0	991.6	1007.2	1020.2	1034.4	1055.2	1075.4	1101.9	1123.0	1132.9	1142.4
52.5°	1018.9	1025.3	1042.2	1062.5	1087.5	1118.7	1151.5	1193.4	1229.7	1254.0	1275.5
55°	1025.3	1031.8	1050.8	1076.8	1110.9	1152.8	1199.9	1256.9	1311.4	1358.1	1403.5
57.5°	1007.2	1014.5	1034.9	1064.7	1104.8	1155.8	1215.0	1289.8	1364.9	1440.6	1507.5
60°	974.0	983.0	1001.6	1031.0	1075.4	1132.9	1203.8	1297.6	1403.0	1518.8	1647.1
62.5°	919.1	928.6	945.9	978.2	1024.0	1087.5	1169.7	1286.3	1435.4	1617.8	1845.4
65°	830.9	835.3	856.4	889.2	929.9	999.8	1090.1	1231.0	1425.0	1678.6	1992.4
66°	791.2	798.5	811.4	837.8	876.7	942.4	1033.1	1176.1	1385.7	1657.5	1988.5
67.5°	728.9	734.5	743.2	760.9	784.7	833.0	919.1	1054.3	1265.6	1550.3	1906.0
70°	589.4	592.0	603.6	609.7	617.9	633.9	665.0	742.8	907.4	1174.8	1538.2
72.5°	401.9	409.2	421.7	439.0	461.5	483.1	497.8	507.7	543.2	700.8	1024.9
75°	294.7	302.4	318.4	341.3	380.7	425.6	472.3	493.9	479.2	458.9	570.8
77.5°	171.1	181.5	194.9	216.9	253.2	312.8	392.7	463.6	511.6	514.6	488.7
80°	72.2	73.5	81.7	92.9	115.3	157.3	219.5	321.5	427.7	499.5	516.4
82.5°	16.5	20.3	26.0	30.7	37.6	51.8	76.9	127.9	231.2	362.5	472.7
85°	6.0	6.0	8.2	12.1	13.9	15.5	20.3	32.4	55.3	102.0	212.6
87.5°	0.0	0.5	0.8	0.8	1.8	2.1	3.4	4.7	4.3	3.9	12.9
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	432.1	431.6	430.8	430.8	430.8	430.8	430.0	430.3	429.5	430.0	430.0
5°	431.6	431.6	431.3	430.3	430.8	430.8	431.3	430.3	430.3	430.8	430.3
7.5°	431.6	431.3	431.3	431.3	431.6	431.3	431.6	431.6	431.6	432.1	432.1
10°	431.6	431.6	432.6	432.9	432.9	433.4	434.7	434.7	435.1	435.5	436.4
12.5°	432.1	433.8	435.1	436.4	436.8	437.7	439.9	439.9	440.7	442.0	442.4
15°	432.6	435.1	437.7	438.6	439.4	441.1	443.4	444.2	445.5	446.8	447.6
17.5°	432.1	435.5	438.6	439.9	441.1	443.4	446.0	446.8	448.5	450.2	452.0
20°	431.6	436.4	441.1	442.9	444.7	447.6	451.1	453.3	455.0	457.6	459.4
22.5°	434.2	439.9	446.3	448.9	452.0	455.8	460.6	463.2	465.4	467.9	469.2
25°	442.4	446.8	454.5	458.9	462.8	469.2	475.7	478.8	481.3	483.5	483.9
27.5°	456.3	457.6	467.1	472.7	478.3	488.7	496.5	498.6	503.4	505.1	504.7
30°	478.8	476.6	484.4	493.0	501.2	515.4	525.0	530.6	534.9	534.9	531.4
32.5°	511.2	507.7	509.9	519.8	529.3	550.0	561.3	568.7	571.6	570.8	563.4
35°	553.5	551.4	550.0	557.9	572.9	597.1	611.8	615.7	620.5	619.6	610.1
37.5°	603.6	601.9	601.9	611.0	625.7	661.5	677.5	680.1	679.6	672.7	655.1
40°	662.8	662.0	658.1	663.3	675.8	722.4	744.1	747.5	742.8	731.5	710.8
42.5°	747.9	742.8	730.7	733.7	743.2	788.6	816.7	826.1	821.4	810.1	776.5
45°	859.0	853.4	833.0	830.5	835.6	875.4	911.7	913.9	913.0	898.7	859.0
47.5°	989.5	980.8	959.3	952.3	950.6	987.4	1022.3	1025.8	1023.6	1002.4	949.3
50°	1130.8	1118.2	1104.0	1099.3	1092.3	1118.7	1154.1	1154.5	1145.9	1116.5	1066.8
52.5°	1281.6	1277.2	1274.6	1269.9	1266.9	1289.8	1311.4	1298.4	1285.5	1254.8	1211.5
55°	1433.7	1451.4	1469.5	1471.3	1476.5	1501.0	1500.7	1465.2	1455.7	1438.9	1396.1
57.5°	1595.3	1660.9	1718.0	1735.7	1752.9	1798.8	1794.4	1759.5	1747.4	1726.6	1691.2
60°	1815.2	1992.4	2156.9	2196.3	2223.5	2278.4	2273.2	2219.2	2244.3	2242.5	2196.8
62.5°	2123.3	2418.0	2664.7	2725.1	2744.2	2750.2	2717.4	2659.1	2683.6	2711.4	2570.5
65°	2332.0	2678.5	2931.7	2978.3	2980.9	2908.8	2835.8	2767.1	2761.0	2737.2	2535.9
66°	2336.8	2691.5	2945.5	2990.9	2974.9	2876.4	2783.9	2714.8	2684.9	2632.7	2424.0
67.5°	2252.9	2610.7	2884.2	2932.1	2897.1	2757.6	2630.2	2541.1	2482.8	2398.1	2214.0
70°	1892.1	2246.8	2583.9	2673.3	2684.6	2476.3	2299.5	2195.0	2116.4	2000.1	1841.6
72.5°	1406.9	1727.5	2024.8	2110.3	2154.0	1987.6	1838.5	1759.0	1651.5	1529.1	1416.4
75°	881.9	1108.3	1307.4	1367.5	1326.5	1197.8	1108.3	1075.1	969.2	896.2	844.7
77.5°	504.3	575.1	591.1	568.2	519.8	398.0	283.0	209.6	182.0	201.4	222.0
80°	492.2	451.1	359.5	316.3	286.5	197.0	115.8	79.5	66.1	67.8	73.5
82.5°	533.2	572.1	471.0	384.1	322.3	217.8	120.1	63.9	43.2	51.0	57.5
85°	346.5	482.2	434.2	366.0	296.4	186.2	99.0	33.3	22.0	28.9	39.7
87.5°	35.0	38.4	32.8	44.5	33.3	15.5	7.8	4.7	4.3	5.2	7.8
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8	430.8
2.5°	430.3	430.3	430.8	431.3	431.6	432.1	432.1	432.1	432.1	432.9	432.6
5°	431.3	432.1	432.9	433.4	434.2	434.2	435.5	435.1	435.1	436.4	436.8
7.5°	432.9	434.2	436.0	435.5	437.3	436.8	437.7	437.7	436.4	436.8	436.0
10°	436.8	438.6	439.4	438.1	438.6	436.8	436.4	434.2	431.6	430.3	428.7
12.5°	443.4	445.0	445.0	442.9	440.3	436.4	433.4	428.7	424.7	422.6	420.4
15°	448.9	450.7	450.2	446.8	442.9	436.8	432.6	426.9	421.3	417.9	415.6
17.5°	453.3	454.1	452.8	448.1	443.7	438.1	433.8	427.7	421.3	416.9	413.1
20°	459.7	458.9	455.8	449.8	445.0	439.9	436.4	431.3	423.9	418.2	412.7
22.5°	469.2	465.8	460.2	453.7	448.9	444.2	440.7	435.1	427.7	420.8	414.3
25°	481.8	474.9	467.1	460.2	455.8	450.7	446.8	440.7	432.9	425.2	417.4
27.5°	499.9	487.8	477.9	471.8	467.1	460.6	455.8	448.1	439.9	430.8	422.1
30°	520.2	503.8	494.3	489.6	484.4	477.5	470.1	460.2	450.7	440.7	430.3
32.5°	546.6	526.7	517.7	512.9	506.0	497.3	488.7	477.5	464.1	451.1	438.6
35°	581.1	560.8	551.4	544.0	534.5	523.3	510.7	495.6	477.5	460.2	444.2
37.5°	618.3	596.3	587.2	579.4	565.2	550.5	532.7	510.7	486.1	463.2	443.4
40°	665.4	645.1	633.4	620.0	603.2	577.7	550.0	518.0	486.5	458.4	435.1
42.5°	725.0	704.7	687.4	666.2	636.9	597.6	558.2	516.7	478.8	446.8	421.7
45°	804.1	779.4	749.7	712.5	665.0	610.1	558.7	508.6	464.1	428.7	401.9
47.5°	900.9	863.4	814.5	751.8	683.5	613.6	551.8	492.2	441.1	402.7	372.9
50°	1015.8	956.7	876.3	784.3	693.0	608.4	534.5	467.5	408.7	367.7	332.3
52.5°	1147.2	1050.4	932.0	807.5	692.7	591.1	505.1	430.3	366.4	320.7	286.9
55°	1301.4	1157.6	989.5	824.8	680.6	559.2	460.2	378.0	314.1	271.8	240.7
57.5°	1527.5	1331.3	1089.7	851.6	656.4	509.9	399.3	315.4	259.3	219.1	192.7
60°	1940.5	1621.2	1270.3	905.7	619.2	437.7	327.9	248.5	201.4	168.9	151.3
62.5°	2251.6	1845.4	1368.0	893.6	544.5	348.7	243.3	181.0	148.2	126.1	115.0
65°	2207.1	1775.9	1263.8	769.6	426.9	245.9	161.6	123.2	102.0	91.6	85.1
66°	2106.4	1685.1	1173.6	692.7	369.0	204.4	133.1	103.3	87.7	80.4	76.1
67.5°	1915.5	1516.7	1011.9	567.7	283.4	148.2	100.3	81.7	71.3	68.3	65.2
70°	1592.2	1209.4	710.3	330.5	144.7	82.5	63.5	57.0	54.4	54.0	53.1
72.5°	1220.2	856.0	418.2	156.4	75.2	54.9	49.3	47.1	46.2	46.2	46.7
75°	747.9	480.9	184.9	76.5	52.7	46.2	43.6	42.8	42.3	42.8	42.3
77.5°	249.8	152.9	79.1	57.9	48.0	42.8	41.0	40.2	40.2	40.2	40.2
80°	76.5	66.5	60.5	53.6	45.4	40.7	38.0	37.6	38.0	38.4	37.1
82.5°	57.5	54.4	51.0	47.5	41.0	36.3	35.4	35.4	35.4	34.1	32.4
85°	42.3	42.0	34.6	32.4	30.2	30.2	30.2	30.2	28.9	26.8	25.0
87.5°	7.8	7.3	7.8	8.2	12.1	12.9	12.9	13.9	15.2	14.2	14.2
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):**

	160°	165°	170°	175°	180°
0°	430.8	430.8	430.8	430.8	430.8
2.5°	432.6	432.1	433.4	432.6	432.9
5°	436.4	436.0	436.8	436.0	437.3
7.5°	435.1	434.2	433.8	434.2	434.7
10°	426.0	425.2	424.7	424.3	424.7
12.5°	418.2	416.6	416.6	415.6	416.1
15°	412.7	411.4	410.9	410.0	410.5
17.5°	410.0	407.9	407.0	406.1	406.1
20°	408.3	405.8	404.5	403.5	403.2
22.5°	408.3	404.5	402.7	401.9	401.4
25°	410.0	405.3	402.7	401.4	400.9
27.5°	413.5	407.4	404.5	402.7	402.7
30°	419.5	411.8	407.4	405.3	404.8
32.5°	425.6	415.3	409.2	406.6	405.8
35°	428.7	415.3	407.9	403.5	402.7
37.5°	425.2	409.6	400.6	394.0	392.7
40°	414.3	398.0	388.0	382.0	381.1
42.5°	400.1	384.1	372.5	368.1	366.9
45°	380.7	361.7	350.0	343.9	344.4
47.5°	347.4	327.9	317.6	312.0	312.8
50°	308.1	289.0	280.0	274.0	275.3
52.5°	264.8	247.6	239.0	235.9	235.1
55°	219.5	206.1	200.1	196.6	195.3
57.5°	178.0	168.6	164.2	159.9	160.3
60°	140.5	135.6	134.4	129.6	129.2
62.5°	110.6	107.6	106.3	102.8	103.3
65°	83.8	83.0	83.8	81.7	82.5
66°	75.6	76.1	76.1	74.8	75.6
67.5°	65.2	66.1	67.4	66.1	67.0
70°	54.0	54.9	55.7	55.7	55.7
72.5°	47.1	48.0	48.4	48.4	48.4
75°	43.2	43.6	44.1	43.2	43.2
77.5°	40.7	40.7	39.7	39.3	38.9
80°	36.7	36.3	35.0	34.1	34.1
82.5°	30.7	29.8	28.9	27.6	27.6
85°	23.3	22.5	21.6	19.9	19.0
87.5°	12.1	12.6	12.1	10.0	8.7
90°	0.0	0.0	0.0	0.0	0.0

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