

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: P181433

Luminaire Tested: **ICM-F02-LED-E1-T3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181433
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-T3-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4326.1 lumens
Efficiency: N/A
Efficacy: 78.7 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: B2 - U0 - G2

Input Watts (W): 55
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

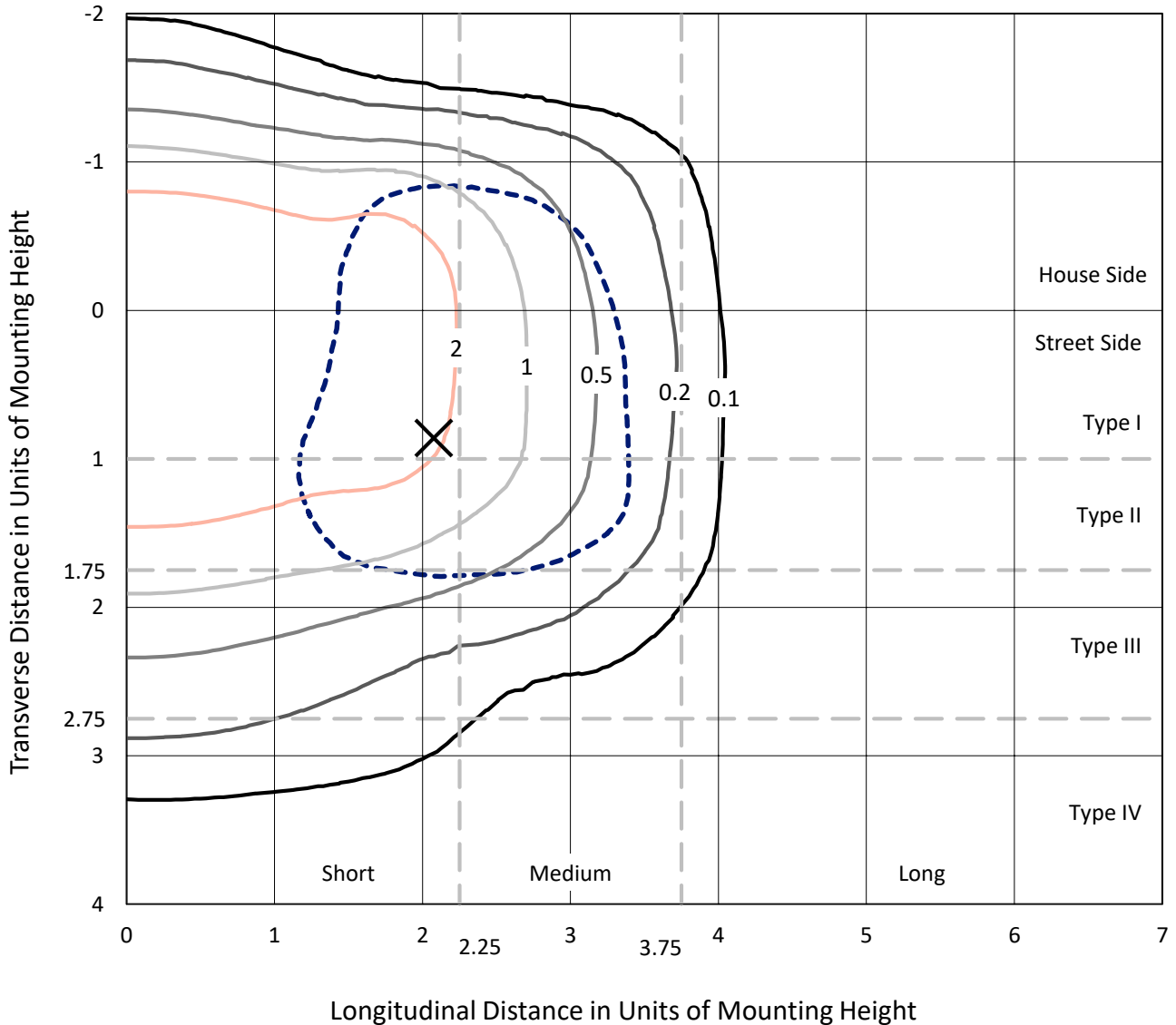


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

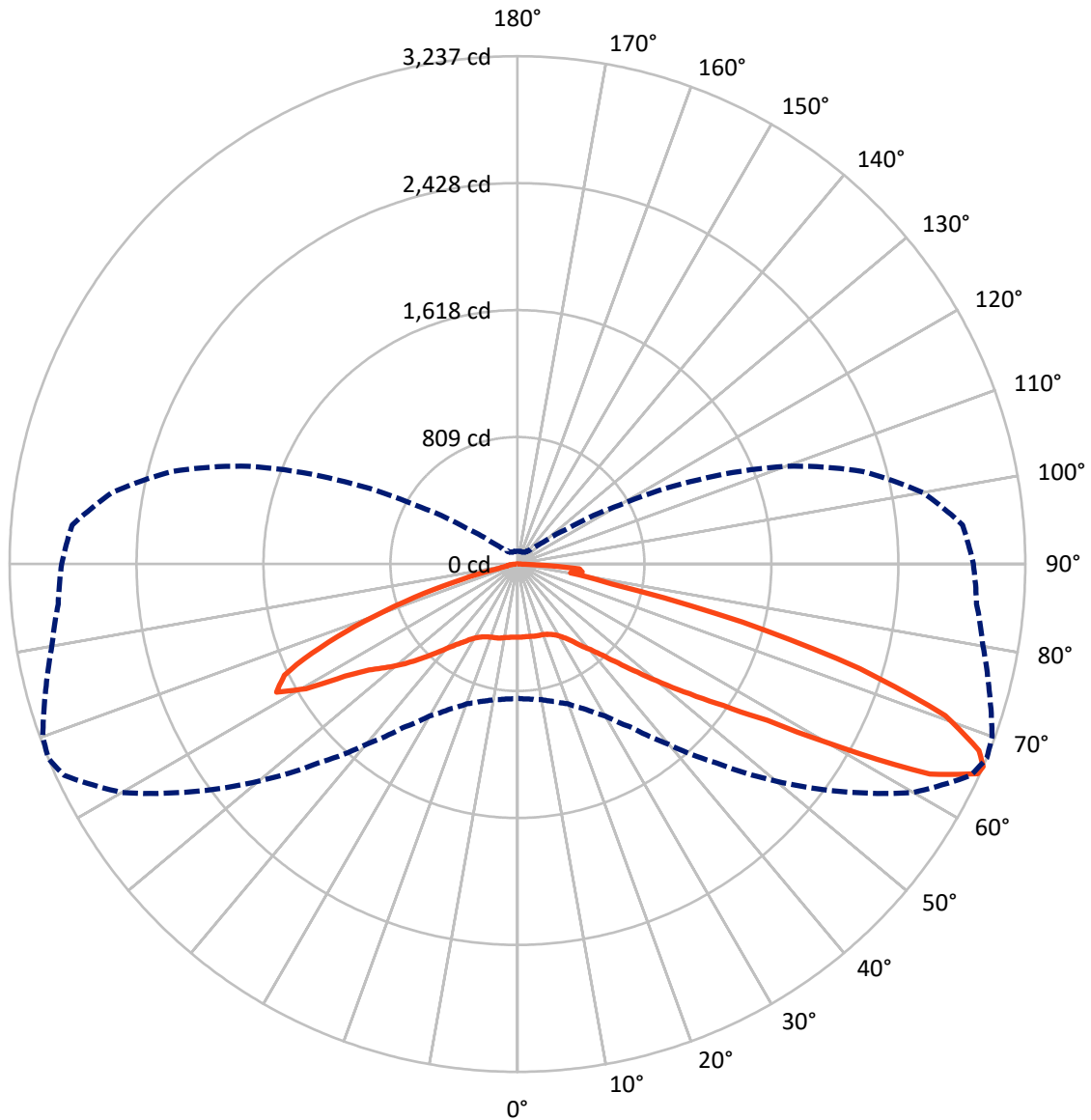


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Semi-Cutoff

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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
House Side	Lumens	1493.9	0.0	1493.9
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	2832.1	0.0	2832.1
	% Fixture	65.5	0.0	65.5
Total	Lumens	4326.1	0.0	4326.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.0
10°-20°	131.8	3.0
20°-30°	226.5	5.2
30°-40°	367.7	8.5
40°-50°	613.9	14.2
50°-60°	966.7	22.3
60°-70°	1318.3	30.5
70°-80°	570.7	13.2
80°-90°	85.8	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°	4326.1	100.0
0°-180°	4326.1	100.0

Coefficient of Utilization



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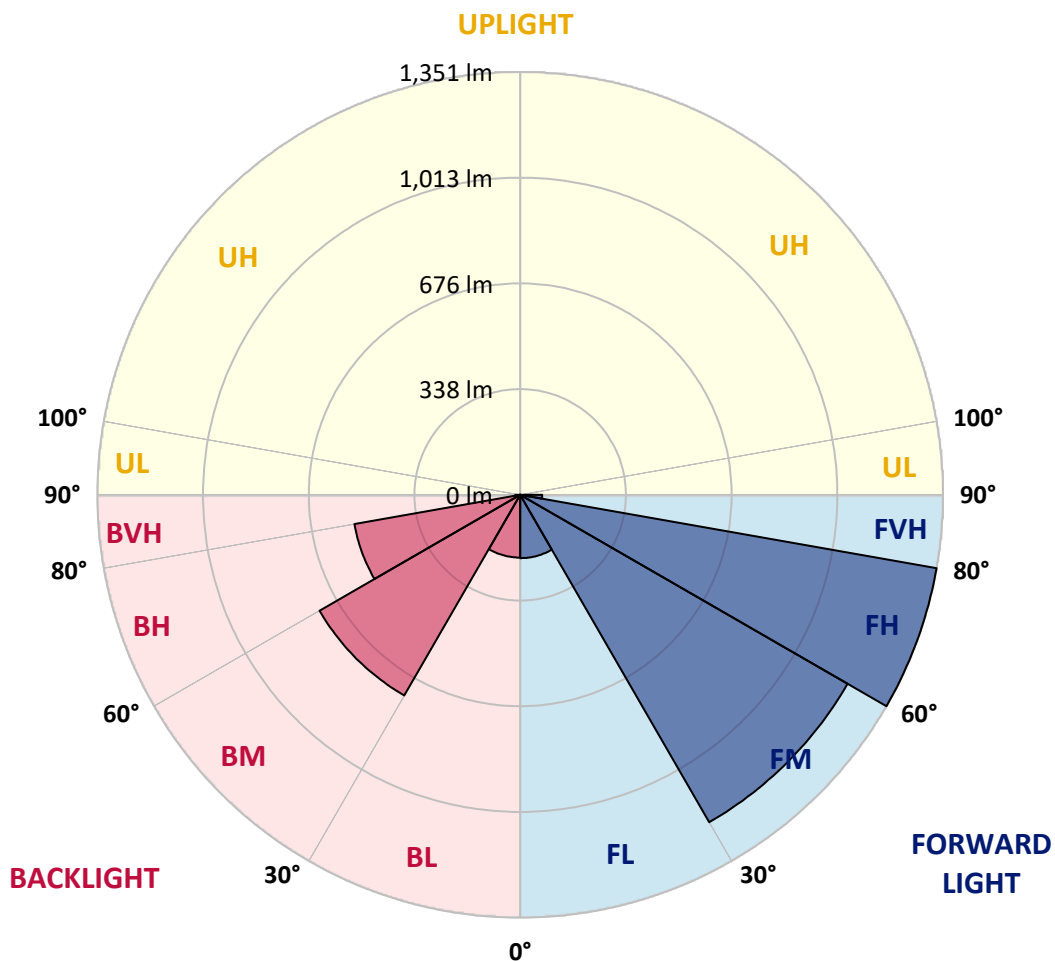
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	202.4	4.7			
FM	(30°-60°)	1208.1	27.9			
FH	(60°-80°)	1351.2	31.2			G1/1800
FVH	(80°-90°)	70.5	1.6			G1/100
BL	(0°-30°)	200.5	4.6	B1/500		
BM	(30°-60°)	740.3	17.1	B1/1000		
BH	(60°-80°)	537.7	12.4	B2/1000		G2/1000
BVH	(80°-90°)	15.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2
2.5°	468.1	470.0	468.1	468.6	469.0	468.6	468.1	468.1	466.7	467.6	468.6
5°	466.2	467.6	467.2	467.6	468.1	467.6	467.2	467.6	466.7	467.2	468.6
7.5°	463.8	463.4	463.8	464.7	465.8	465.8	465.8	466.2	465.8	465.8	467.2
10°	456.8	457.3	458.2	459.6	460.1	461.5	461.5	462.9	463.4	464.3	466.2
12.5°	448.0	448.5	449.4	450.3	452.7	455.0	455.0	458.2	459.6	462.0	465.2
15°	441.4	441.9	442.8	443.7	445.6	448.0	449.4	453.1	455.4	459.6	464.3
17.5°	445.1	444.7	445.6	446.0	446.0	448.0	448.0	450.8	453.6	457.3	463.4
20°	455.9	455.9	456.8	456.8	456.4	457.3	455.4	455.4	455.9	457.8	462.0
22.5°	466.7	466.2	468.1	469.0	469.5	470.9	469.0	468.6	466.2	464.7	466.2
25°	476.9	476.5	478.8	480.2	482.5	484.0	484.0	484.0	482.0	479.7	478.3
27.5°	492.8	492.8	495.2	496.6	498.4	501.3	502.7	502.7	503.2	499.8	497.5
30°	519.5	520.0	520.5	522.3	524.2	525.1	527.0	528.4	529.8	527.9	524.2
32.5°	551.3	548.5	548.5	551.3	553.7	556.5	557.4	559.3	562.0	560.7	560.2
35°	589.2	588.2	587.3	588.2	591.1	594.3	598.1	601.3	599.4	602.2	600.8
37.5°	645.3	646.2	646.7	646.7	646.2	647.2	649.0	652.3	651.4	652.3	654.1
40°	737.9	734.6	731.4	731.8	727.1	728.0	720.6	723.8	724.3	721.0	722.4
42.5°	830.4	832.3	833.7	837.5	834.1	832.3	825.3	825.3	821.6	818.3	817.4
45°	930.5	934.2	934.7	942.2	939.4	945.5	950.6	949.2	943.2	942.7	936.1
47.5°	1010.5	1016.6	1023.1	1032.0	1039.0	1052.6	1068.5	1076.4	1081.1	1084.8	1077.3
50°	1070.3	1073.1	1090.0	1104.0	1119.4	1141.9	1163.8	1192.4	1215.3	1226.1	1236.3
52.5°	1102.6	1109.6	1127.8	1149.8	1176.9	1210.6	1246.1	1291.5	1330.8	1356.9	1380.4
55°	1109.6	1116.7	1137.2	1165.2	1202.1	1247.5	1298.5	1360.2	1419.2	1469.7	1518.7
57.5°	1090.0	1098.0	1119.9	1152.2	1195.6	1250.8	1314.9	1395.7	1477.1	1559.0	1631.5
60°	1054.0	1063.8	1083.9	1115.7	1163.8	1226.1	1302.7	1404.2	1518.2	1643.6	1782.4
62.5°	994.6	1004.8	1023.5	1058.6	1108.2	1176.9	1265.8	1392.0	1553.3	1750.7	1997.1
65°	899.2	903.8	926.8	962.3	1006.2	1082.1	1179.7	1332.2	1542.1	1816.6	2156.1
66°	856.2	864.1	878.1	906.7	948.7	1019.8	1118.1	1272.8	1499.5	1793.7	2151.9
67.5°	788.8	794.9	804.3	823.4	849.1	901.5	994.6	1140.9	1369.6	1677.8	2062.5
70°	637.8	640.6	653.2	659.8	668.7	686.0	719.6	803.8	982.0	1271.4	1664.7
72.5°	434.9	442.8	456.4	475.1	499.4	522.8	538.7	549.4	587.7	758.4	1109.1
75°	318.9	327.4	344.7	369.4	411.9	460.6	511.1	534.4	518.6	496.6	617.7
77.5°	185.2	196.4	210.9	234.7	274.0	338.5	425.0	501.8	553.7	556.9	528.8
80°	78.0	79.5	88.4	100.6	124.8	170.2	237.6	347.9	462.9	540.6	558.8
82.5°	17.8	22.0	28.1	33.2	40.7	56.1	83.3	138.4	250.1	392.3	511.5
85°	6.5	6.5	8.9	13.1	15.0	16.8	22.0	35.1	59.8	110.3	230.0
87.5°	0.0	0.5	0.9	0.9	1.9	2.3	3.7	5.1	4.7	4.2	14.0
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2
2.5°	467.6	467.2	466.2	466.2	466.2	466.2	465.2	465.8	464.7	465.2	465.2
5°	467.2	467.2	466.7	465.8	466.2	466.2	466.7	465.8	465.8	466.2	465.8
7.5°	467.2	466.7	466.7	466.7	467.2	466.7	467.2	467.2	467.2	467.6	467.6
10°	467.2	467.2	468.1	468.6	468.6	469.0	470.4	470.4	470.9	471.4	472.3
12.5°	467.6	469.5	470.9	472.3	472.7	473.7	476.0	476.0	476.9	478.3	478.8
15°	468.1	470.9	473.7	474.6	475.5	477.4	479.7	480.7	482.0	483.5	484.5
17.5°	467.6	471.4	474.6	476.0	477.4	479.7	482.5	483.5	485.4	487.3	489.1
20°	467.2	472.3	477.4	479.3	481.1	484.5	488.2	490.5	492.4	495.2	497.0
22.5°	470.0	476.0	483.1	485.9	489.1	493.3	498.4	501.3	503.6	506.4	507.8
25°	478.8	483.5	491.9	496.6	500.8	507.8	514.8	518.0	520.9	523.3	523.7
27.5°	493.8	495.2	505.5	511.5	517.6	528.8	537.3	539.6	544.7	546.6	546.1
30°	518.0	515.7	524.2	533.5	542.4	557.9	568.1	574.2	578.9	578.9	575.2
32.5°	553.1	549.4	551.7	562.5	572.8	595.3	607.4	615.4	618.6	617.7	609.8
35°	599.0	596.7	595.3	603.6	620.0	646.2	662.1	666.3	671.4	670.5	660.3
37.5°	653.2	651.4	651.4	661.2	677.1	715.9	733.2	736.0	735.5	728.0	708.8
40°	717.3	716.4	712.2	717.8	731.4	781.9	805.2	808.9	803.8	791.6	769.2
42.5°	809.4	803.8	790.7	794.0	804.3	853.4	883.7	894.1	888.9	876.7	840.3
45°	929.6	923.5	901.5	898.7	904.3	947.4	986.6	988.9	988.0	972.6	929.6
47.5°	1070.8	1061.4	1038.1	1030.6	1028.8	1068.5	1106.3	1110.1	1107.7	1084.8	1027.3
50°	1223.7	1210.1	1194.7	1189.6	1182.1	1210.6	1248.9	1249.4	1240.1	1208.3	1154.5
52.5°	1386.9	1382.2	1379.5	1374.2	1371.0	1395.7	1419.2	1405.1	1391.1	1357.9	1311.2
55°	1551.5	1570.6	1590.3	1592.2	1597.8	1624.4	1623.9	1585.6	1575.4	1557.1	1510.8
57.5°	1726.3	1797.4	1859.2	1878.3	1897.0	1946.6	1942.0	1904.0	1891.0	1868.5	1830.2
60°	1964.4	2156.1	2334.2	2376.8	2406.2	2465.6	2460.0	2401.6	2428.7	2426.8	2377.2
62.5°	2297.8	2616.7	2883.6	2949.1	2969.7	2976.2	2940.7	2877.6	2904.2	2934.2	2781.7
65°	2523.6	2898.6	3172.7	3223.2	3226.0	3147.8	3068.9	2994.4	2987.9	2962.3	2744.3
66°	2528.8	2912.7	3187.6	3236.7	3219.4	3112.8	3012.8	2937.9	2905.6	2849.0	2623.2
67.5°	2438.1	2825.2	3121.2	3173.1	3135.3	2984.2	2846.2	2750.0	2686.8	2595.2	2395.9
70°	2047.6	2431.5	2796.2	2893.0	2905.1	2679.8	2488.6	2375.4	2290.2	2164.5	1992.8
72.5°	1522.5	1869.4	2191.2	2283.7	2331.0	2150.9	1989.6	1903.5	1787.2	1654.8	1532.8
75°	954.3	1199.4	1415.0	1479.9	1435.5	1296.2	1199.4	1163.4	1048.8	969.8	914.1
77.5°	545.7	622.3	639.6	614.9	562.5	430.7	306.2	226.8	196.8	217.9	240.4
80°	532.6	488.2	389.0	342.2	310.0	213.2	125.3	86.0	71.5	73.4	79.5
82.5°	577.0	619.1	509.7	415.7	348.8	235.6	130.0	69.2	46.8	55.2	62.2
85°	375.0	521.9	470.0	396.1	320.7	201.5	107.1	36.0	23.8	31.3	43.0
87.5°	37.9	41.6	35.5	48.2	36.0	16.8	8.4	5.1	4.7	5.6	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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2	466.2
2.5°	465.8	465.8	466.2	466.7	467.2	467.6	467.6	467.6	467.6	468.6	468.1
5°	466.7	467.6	468.6	469.0	470.0	470.0	471.4	470.9	470.9	472.3	472.7
7.5°	468.6	470.0	471.8	471.4	473.2	472.7	473.7	473.7	472.3	472.7	471.8
10°	472.7	474.6	475.5	474.1	474.6	472.7	472.3	470.0	467.2	465.8	463.8
12.5°	479.7	481.6	481.6	479.3	476.5	472.3	469.0	463.8	459.6	457.3	455.0
15°	485.9	487.7	487.3	483.5	479.3	472.7	468.1	462.0	455.9	452.2	449.9
17.5°	490.5	491.4	490.0	484.9	480.2	474.1	469.5	462.9	455.9	451.3	447.0
20°	497.5	496.6	493.3	486.8	481.6	476.0	472.3	466.7	458.7	452.7	446.5
22.5°	507.8	504.1	498.0	491.0	485.9	480.7	476.9	470.9	462.9	455.4	448.5
25°	521.4	513.9	505.5	498.0	493.3	487.7	483.5	476.9	468.6	460.1	451.7
27.5°	541.0	527.9	517.1	510.6	505.5	498.4	493.3	484.9	476.0	466.2	456.8
30°	563.0	545.2	534.9	529.8	524.2	516.7	508.7	498.0	487.7	476.9	465.8
32.5°	591.5	570.0	560.2	555.1	547.5	538.2	528.8	516.7	502.2	488.2	474.6
35°	628.9	607.0	596.7	588.7	578.4	566.2	552.7	536.4	516.7	498.0	480.7
37.5°	669.1	645.3	635.4	627.1	611.6	595.7	576.6	552.7	526.0	501.3	479.7
40°	720.1	698.1	685.5	671.0	652.7	625.2	595.3	560.7	526.5	496.1	470.9
42.5°	784.7	762.6	743.9	721.0	689.2	646.7	604.1	559.3	518.0	483.5	456.4
45°	870.2	843.5	811.3	771.1	719.6	660.3	604.6	550.3	502.2	463.8	434.9
47.5°	975.0	934.2	881.4	813.6	739.7	664.0	597.1	532.6	477.4	435.8	403.5
50°	1099.4	1035.3	948.3	848.7	750.1	658.3	578.4	506.0	442.3	398.0	359.5
52.5°	1241.5	1136.8	1008.6	874.0	749.6	639.6	546.6	465.8	396.6	347.0	310.5
55°	1408.4	1252.7	1070.8	892.7	736.5	605.0	498.0	409.1	339.9	294.1	260.5
57.5°	1652.9	1440.7	1179.3	921.6	710.2	551.7	432.1	341.3	280.6	237.0	208.6
60°	2100.0	1754.4	1374.7	980.1	670.1	473.7	354.9	268.8	217.9	182.8	163.6
62.5°	2436.7	1997.1	1480.4	967.0	589.2	377.3	263.3	195.9	160.4	136.6	124.4
65°	2388.5	1921.8	1367.7	832.7	462.0	266.0	174.9	133.3	110.3	99.2	92.1
66°	2279.5	1823.6	1270.0	749.6	399.4	221.2	144.0	111.7	94.9	87.0	82.3
67.5°	2072.8	1641.2	1095.1	614.4	306.7	160.4	108.5	88.4	77.1	73.9	70.6
70°	1723.1	1308.8	768.7	357.7	156.7	89.3	68.7	61.8	58.9	58.4	57.5
72.5°	1320.5	926.3	452.7	169.3	81.4	59.3	53.3	51.0	50.0	50.0	50.5
75°	809.4	520.5	200.1	82.8	57.0	50.0	47.3	46.3	45.9	46.3	45.9
77.5°	270.2	165.5	85.6	62.7	51.9	46.3	44.5	43.4	43.4	43.4	43.4
80°	82.8	72.0	65.5	58.0	49.1	44.0	41.1	40.7	41.1	41.6	40.2
82.5°	62.2	58.9	55.2	51.4	44.5	39.3	38.3	38.3	38.3	36.9	35.1
85°	45.9	45.4	37.4	35.1	32.7	32.7	32.7	32.7	31.3	29.0	27.2
87.5°	8.4	7.9	8.4	8.9	13.1	14.0	14.0	15.0	16.4	15.4	15.4
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):

	160°	165°	170°	175°	180°
0°	466.2	466.2	466.2	466.2	466.2
2.5°	468.1	467.6	469.0	468.1	468.6
5°	472.3	471.8	472.7	471.8	473.2
7.5°	470.9	470.0	469.5	470.0	470.4
10°	461.0	460.1	459.6	459.2	459.6
12.5°	452.7	450.8	450.8	449.9	450.3
15°	446.5	445.1	444.7	443.7	444.2
17.5°	443.7	441.4	440.5	439.5	439.5
20°	441.9	439.1	437.7	436.7	436.3
22.5°	441.9	437.7	435.8	434.9	434.4
25°	443.7	438.6	435.8	434.4	434.0
27.5°	447.4	440.9	437.7	435.8	435.8
30°	454.0	445.6	440.9	438.6	438.1
32.5°	460.6	449.4	442.8	440.0	439.1
35°	463.8	449.4	441.4	436.7	435.8
37.5°	460.1	443.3	433.5	426.4	425.0
40°	448.5	430.7	419.9	413.4	412.4
42.5°	433.0	415.7	403.1	398.4	397.0
45°	411.9	391.4	378.8	372.2	372.7
47.5°	375.9	354.9	343.7	337.6	338.5
50°	333.4	312.8	303.0	296.5	297.9
52.5°	286.6	267.9	258.6	255.4	254.3
55°	237.6	223.1	216.5	212.7	211.4
57.5°	192.7	182.3	177.7	173.0	173.5
60°	152.0	146.8	145.4	140.3	139.8
62.5°	119.7	116.5	115.1	111.3	111.7
65°	90.7	89.8	90.7	88.4	89.3
66°	81.9	82.3	82.3	80.9	81.9
67.5°	70.6	71.5	72.9	71.5	72.5
70°	58.4	59.3	60.3	60.3	60.3
72.5°	51.0	51.9	52.4	52.4	52.4
75°	46.8	47.3	47.7	46.8	46.8
77.5°	44.0	44.0	43.0	42.5	42.0
80°	39.7	39.3	37.9	36.9	36.9
82.5°	33.2	32.3	31.3	30.0	30.0
85°	25.2	24.3	23.3	21.5	20.6
87.5°	13.1	13.6	13.1	10.8	9.4
90°	0.0	0.0	0.0	0.0	0.0

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