

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: P181688

Luminaire Tested: **ICS-E02-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181688
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: ICS-E02-LED-E1-T4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

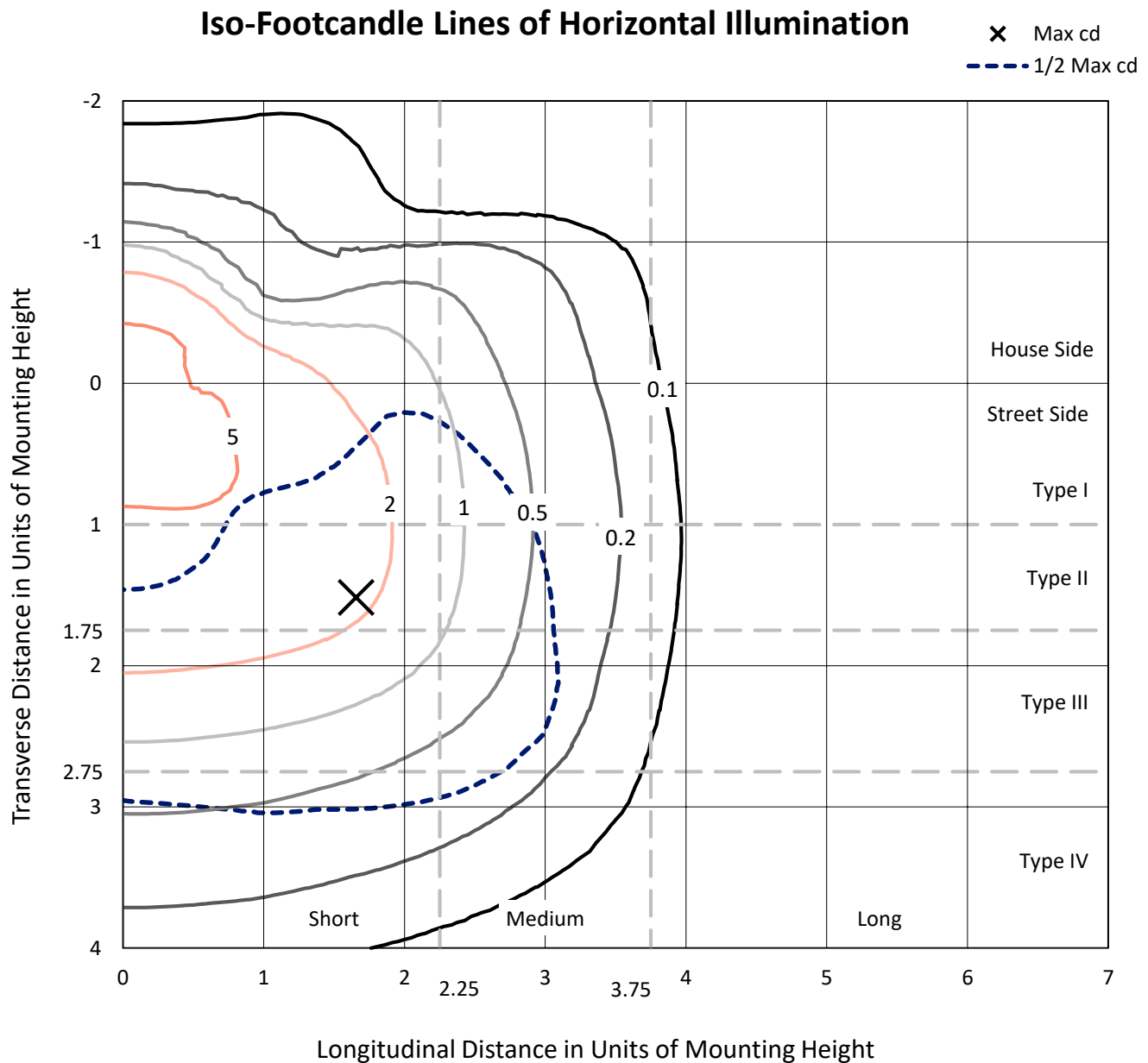
Lumens per Lamp: N/A
Luminaire Lumens: 4968.6 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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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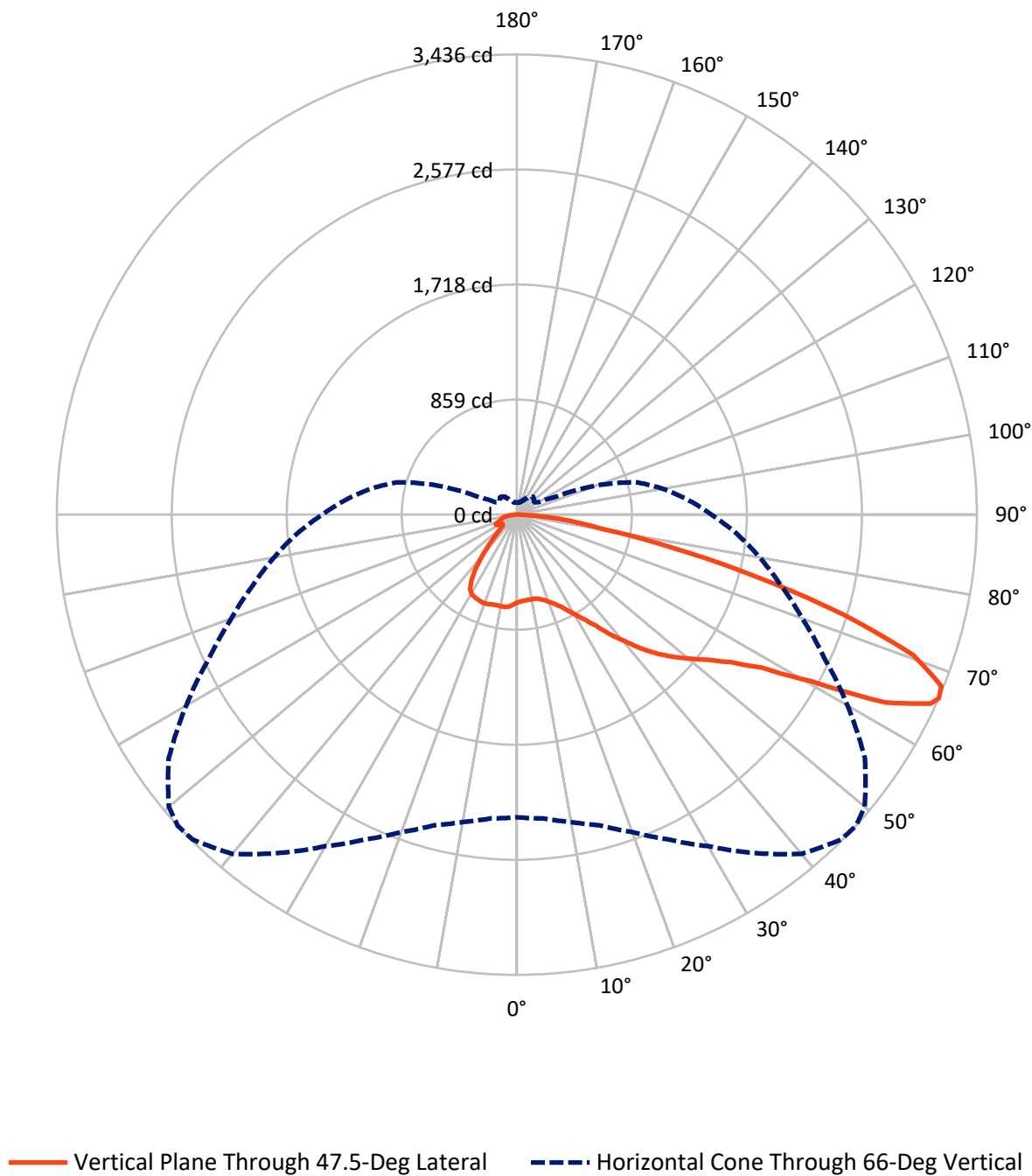


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1060.2	0.0	1060.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3908.4	0.0	3908.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	4968.6	0.0	4968.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.3
10°-20°	193.1	3.9
20°-30°	332.6	6.7
30°-40°	503.2	10.1
40°-50°	652.2	13.1
50°-60°	899.2	18.1
60°-70°	1397.0	28.1
70°-80°	812.4	16.3
80°-90°	115.5	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°	4968.6	100.0
0°-180°	4968.6	100.0

Coefficient of Utilization



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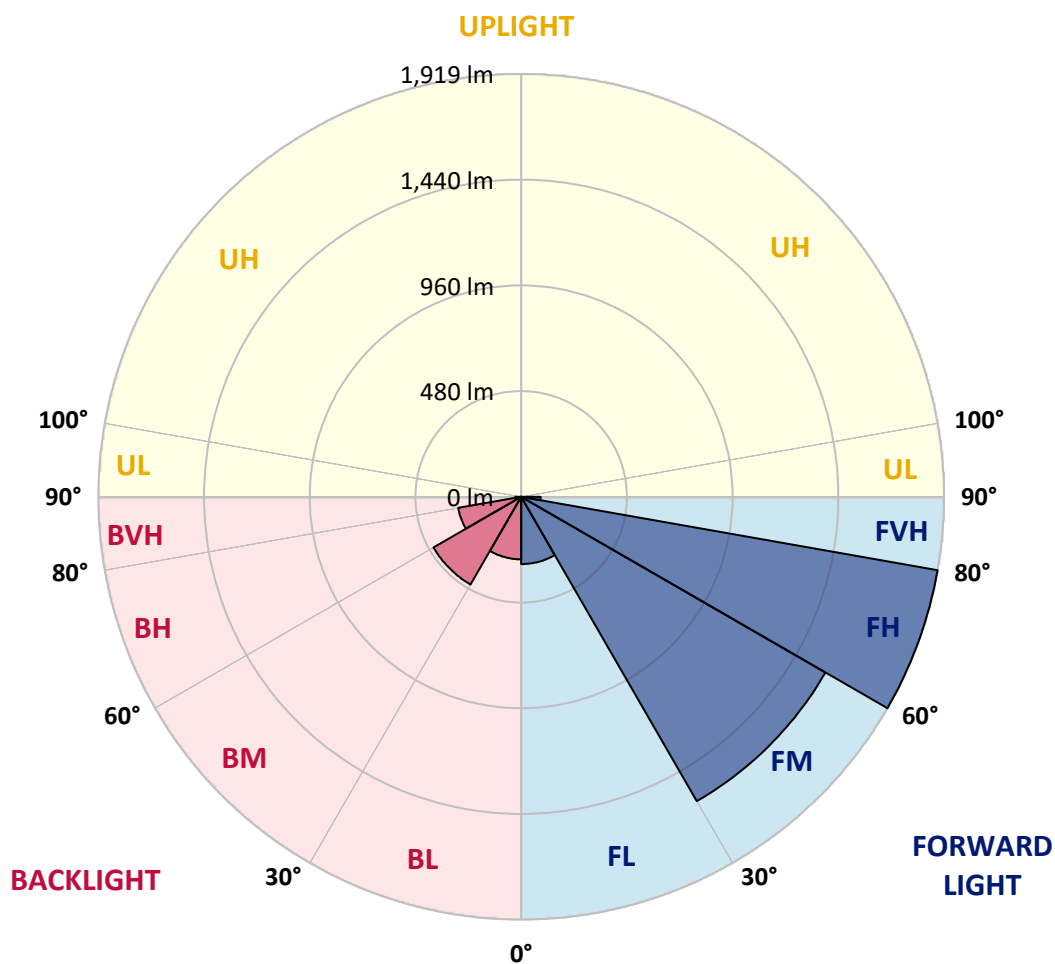
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.5	6.1			
FM	(30°-60°)	1594.9	32.1			
FH	(60°-80°)	1919.4	38.6			G2/5000
FVH	(80°-90°)	88.7	1.8			G1/100
BL	(0°-30°)	283.8	5.7	B1/500		
BM	(30°-60°)	459.6	9.2	B1/1000		
BH	(60°-80°)	290.0	5.8	B1/500		G1/500
BVH	(80°-90°)	26.9	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9
2.5°	642.9	645.0	643.4	643.9	643.9	644.5	644.5	645.0	644.5	646.1	647.2
5°	631.3	632.4	631.9	633.0	634.1	636.3	635.7	638.5	639.0	640.7	643.4
7.5°	627.0	625.9	626.4	628.1	629.1	630.2	631.3	633.5	635.2	639.0	641.2
10°	631.3	630.8	631.3	632.4	632.4	633.0	631.9	634.1	635.2	638.5	640.7
12.5°	649.4	649.4	648.3	648.3	647.2	646.1	643.4	641.8	641.2	641.8	642.9
15°	678.5	677.4	675.2	673.5	671.3	667.5	663.7	660.4	658.2	654.9	653.8
17.5°	707.0	705.3	703.1	700.9	698.2	694.4	688.3	684.5	678.5	674.6	672.4
20°	739.9	736.6	733.8	731.1	725.6	724.5	718.5	711.9	704.8	696.0	694.9
22.5°	782.6	777.1	773.8	772.2	766.7	765.1	755.2	745.9	737.1	725.6	722.9
25°	825.9	820.4	818.8	816.6	812.7	810.6	801.2	790.8	779.3	763.4	760.1
27.5°	868.1	868.6	864.3	865.9	864.8	861.0	851.7	841.2	832.5	813.8	810.0
30°	920.7	917.4	915.2	918.5	914.7	915.2	907.0	901.5	887.3	876.3	868.6
32.5°	975.5	975.0	978.3	980.4	979.9	978.8	972.2	966.7	954.1	938.2	935.0
35°	1050.6	1053.9	1056.6	1066.5	1066.5	1073.6	1067.0	1060.5	1045.7	1026.5	1019.9
37.5°	1101.6	1102.7	1113.6	1126.8	1143.2	1158.6	1162.9	1164.6	1158.6	1144.3	1134.4
40°	1148.1	1150.3	1167.9	1188.2	1212.3	1242.4	1260.5	1268.7	1270.4	1263.8	1242.4
42.5°	1194.7	1198.0	1216.1	1245.7	1279.1	1317.5	1349.3	1369.6	1381.1	1381.1	1368.5
45°	1249.0	1253.4	1273.1	1305.4	1344.3	1392.6	1436.4	1475.3	1494.0	1495.1	1483.0
47.5°	1313.1	1316.9	1340.0	1372.8	1412.8	1461.6	1517.0	1561.4	1595.9	1598.1	1588.2
50°	1395.9	1401.3	1420.5	1450.1	1491.2	1540.5	1595.9	1657.8	1694.0	1702.8	1692.3
52.5°	1505.5	1506.6	1522.5	1549.9	1589.9	1637.0	1695.6	1763.0	1810.7	1817.8	1800.9
55°	1656.7	1655.1	1665.5	1695.1	1725.2	1761.9	1822.8	1898.4	1951.6	1962.5	1945.0
57.5°	1862.2	1860.6	1869.4	1876.5	1932.9	1968.6	2028.3	2100.6	2152.2	2183.9	2153.8
60°	2180.7	2179.0	2193.3	2234.9	2277.1	2329.2	2387.3	2473.9	2546.2	2555.5	2525.9
62.5°	2411.4	2419.6	2450.8	2499.6	2585.1	2687.0	2793.4	2907.4	3055.9	3103.0	3088.8
65°	2330.8	2347.3	2390.6	2464.5	2578.5	2719.4	2886.0	3092.6	3291.5	3402.8	3399.5
66°	2258.5	2276.6	2329.7	2401.0	2521.5	2675.5	2857.5	3082.7	3305.2	3428.0	3435.7
67.5°	2126.9	2147.2	2199.3	2283.7	2401.0	2564.8	2760.5	3005.5	3257.0	3400.0	3420.3
70°	1871.0	1894.0	1931.8	2001.4	2117.1	2263.4	2469.5	2688.7	2952.3	3116.2	3140.8
72.5°	1564.1	1584.4	1626.6	1683.6	1778.4	1870.5	2032.1	2193.8	2382.3	2569.2	2551.1
75°	1122.9	1131.7	1156.9	1218.8	1269.8	1352.6	1482.4	1615.1	1743.9	1829.4	1841.4
77.5°	583.7	606.7	642.3	710.8	766.2	840.7	925.1	1024.8	1119.1	1197.5	1176.1
80°	382.0	391.8	423.6	458.7	499.3	546.9	603.4	640.7	652.7	647.8	652.7
82.5°	220.3	238.4	280.6	307.5	337.6	354.0	399.0	441.7	465.8	435.7	424.7
85°	28.0	36.2	114.0	143.6	164.4	189.1	202.8	228.5	213.2	190.7	232.4
87.5°	6.0	5.5	7.7	16.4	17.0	14.2	26.9	28.5	17.5	8.8	11.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9
2.5°	648.3	648.9	650.0	651.6	652.7	653.8	654.9	656.6	657.6	658.7	660.9
5°	645.6	647.8	650.0	652.2	654.9	659.3	662.0	664.2	666.4	670.8	672.4
7.5°	643.9	647.8	651.1	654.9	659.3	663.1	668.1	670.8	674.1	676.8	680.1
10°	642.9	648.3	651.6	657.1	662.0	665.9	671.3	674.6	678.5	681.8	683.4
12.5°	645.0	647.8	651.1	656.6	662.6	668.1	674.1	676.8	680.1	682.9	683.4
15°	654.4	654.4	654.9	659.3	665.3	669.7	674.6	677.4	679.0	680.7	680.7
17.5°	671.3	667.5	664.8	665.3	669.2	671.9	674.6	674.6	673.5	673.0	671.9
20°	691.1	686.1	680.7	676.8	675.7	673.5	671.9	666.4	662.0	658.2	655.5
22.5°	719.6	711.9	704.2	697.1	690.5	682.3	673.0	662.0	651.6	644.5	640.1
25°	754.7	748.6	739.3	728.3	720.1	704.8	692.7	676.8	663.7	654.4	646.7
27.5°	804.5	797.4	788.6	778.8	766.7	749.7	734.9	716.3	700.4	686.7	676.8
30°	866.5	857.1	850.6	838.5	830.3	811.1	796.3	773.3	742.6	720.7	707.0
32.5°	930.0	919.6	914.1	904.8	895.5	884.0	861.5	825.9	786.4	750.8	727.2
35°	1015.0	1004.0	994.1	985.9	972.2	950.8	931.1	888.4	834.1	784.2	744.8
37.5°	1121.8	1103.8	1079.1	1058.3	1034.2	1003.5	973.3	929.5	867.5	802.9	750.3
40°	1235.8	1204.0	1169.0	1130.1	1088.4	1044.0	1009.5	965.1	895.5	818.8	746.4
42.5°	1354.8	1304.3	1255.6	1200.8	1142.7	1090.1	1045.1	996.3	916.3	823.2	731.1
45°	1472.6	1416.1	1342.1	1270.4	1196.9	1131.7	1081.3	1026.5	935.5	824.8	710.8
47.5°	1570.1	1512.0	1427.6	1337.8	1250.6	1176.6	1117.5	1058.3	961.3	836.3	705.9
50°	1673.2	1602.5	1508.8	1402.4	1303.8	1221.0	1158.0	1096.6	997.4	865.9	721.8
52.5°	1785.5	1704.4	1594.8	1475.9	1367.9	1275.3	1206.8	1143.8	1043.5	907.6	751.9
55°	1922.5	1823.3	1704.4	1570.1	1454.5	1352.0	1276.4	1201.9	1098.3	956.9	789.7
57.5°	2131.9	2010.2	1876.5	1723.6	1595.3	1474.2	1383.8	1297.8	1183.2	1030.3	841.2
60°	2510.6	2380.7	2207.0	2021.7	1871.0	1729.6	1597.0	1490.1	1349.3	1175.0	955.2
62.5°	3053.1	2880.5	2648.7	2389.5	2192.2	1988.3	1838.7	1679.7	1504.9	1316.9	1089.5
65°	3354.6	3145.2	2835.0	2534.1	2280.4	2059.0	1868.8	1684.7	1490.7	1310.9	1120.7
66°	3391.8	3173.7	2851.5	2534.7	2268.3	2040.9	1840.9	1650.1	1451.8	1280.2	1107.6
67.5°	3376.5	3153.4	2821.3	2487.0	2216.3	1971.8	1765.2	1567.4	1369.6	1209.5	1063.7
70°	3124.9	2913.4	2587.3	2263.4	2006.4	1765.2	1567.9	1373.4	1192.0	1055.0	947.6
72.5°	2595.0	2414.1	2130.8	1876.5	1674.8	1475.9	1308.7	1122.9	969.5	868.1	804.5
75°	1873.2	1763.6	1505.5	1359.7	1182.7	1050.6	888.4	778.2	668.1	618.7	607.8
77.5°	1183.2	1035.8	871.9	717.9	590.2	489.4	380.9	323.3	269.6	264.2	319.0
80°	599.0	539.3	415.4	331.0	278.4	225.2	178.1	134.8	94.3	113.4	135.9
82.5°	392.4	327.2	256.5	211.0	183.6	152.4	118.4	82.2	60.3	68.0	93.2
85°	212.1	180.9	145.8	115.1	93.2	83.3	55.9	39.5	38.9	41.7	53.2
87.5°	15.3	15.3	12.1	11.0	13.2	11.0	9.9	9.9	9.3	9.9	13.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9	654.9
2.5°	662.0	663.7	664.2	667.0	668.6	669.7	670.8	670.8	671.3	673.0	673.5
5°	674.6	677.4	680.7	682.9	684.0	687.2	688.3	688.3	689.4	691.6	693.3
7.5°	682.3	686.1	689.4	690.5	692.7	693.8	695.5	696.6	696.6	698.8	699.8
10°	685.1	687.2	690.5	690.5	692.7	692.7	694.4	694.9	694.9	697.1	698.8
12.5°	685.1	686.1	688.9	688.9	690.5	691.1	693.3	694.9	695.5	698.2	700.4
15°	681.8	682.9	685.1	685.6	689.4	691.6	696.6	699.8	699.8	702.6	703.7
17.5°	672.4	675.2	679.6	684.0	691.1	696.0	702.0	704.8	702.6	700.9	699.3
20°	657.1	662.0	672.4	683.4	696.0	702.6	705.9	703.1	695.5	687.8	682.9
22.5°	641.8	651.6	669.2	685.6	699.8	704.2	702.6	692.7	680.1	670.8	664.2
25°	648.9	660.4	677.4	692.2	701.5	700.4	693.8	680.1	666.4	654.4	643.4
27.5°	678.5	691.1	700.4	705.3	704.2	696.6	686.1	670.8	654.4	638.5	623.1
30°	706.4	713.0	715.2	711.4	702.6	690.0	676.8	659.3	637.4	617.6	600.1
32.5°	719.0	712.5	702.0	691.6	677.4	666.4	648.3	629.1	601.7	578.2	560.6
35°	719.0	692.7	666.4	644.5	623.1	609.4	588.6	562.8	537.6	517.9	504.2
37.5°	703.1	652.7	609.4	573.8	546.9	532.1	500.9	477.9	456.5	449.9	441.2
40°	674.1	599.6	537.1	490.5	456.5	434.6	403.4	387.5	379.2	376.0	374.3
42.5°	635.2	540.4	457.1	399.5	362.8	338.1	317.3	307.5	306.9	306.4	306.4
45°	593.5	476.8	379.2	310.7	278.4	256.5	246.6	242.8	246.1	245.5	246.1
47.5°	567.8	428.6	308.0	235.1	210.4	196.2	191.3	192.9	195.7	194.6	194.6
50°	564.5	403.9	260.3	183.0	164.4	157.3	156.2	156.2	157.8	156.7	156.2
52.5°	576.5	400.1	235.7	157.3	142.5	136.5	135.4	134.8	134.3	131.0	128.2
55°	597.4	408.8	228.5	150.7	135.4	128.8	127.1	126.0	123.9	119.5	114.5
57.5°	639.0	436.2	235.1	154.0	137.6	132.1	130.4	130.4	126.0	118.9	111.8
60°	739.3	505.8	262.0	166.6	148.0	142.5	143.6	143.0	136.5	126.0	115.1
62.5°	868.6	596.8	297.0	184.1	161.1	160.0	165.5	164.4	153.5	137.6	121.7
65°	928.4	639.6	306.9	188.0	163.9	168.8	179.8	178.7	165.0	143.0	122.8
66°	929.5	639.6	302.5	184.7	160.0	166.1	177.0	176.5	162.8	140.8	120.6
67.5°	907.0	622.0	289.9	178.1	152.4	156.7	166.6	166.1	153.5	135.4	116.2
70°	822.6	556.8	257.6	166.6	141.9	139.8	143.0	140.8	132.6	120.0	106.9
72.5°	704.8	467.5	224.7	157.8	134.8	126.0	123.9	122.2	115.6	108.5	100.3
75°	555.2	369.9	197.3	151.3	128.2	116.7	112.9	110.7	106.3	101.4	94.8
77.5°	342.5	264.7	172.1	142.5	123.3	111.8	109.1	105.8	99.2	93.2	88.2
80°	152.9	163.9	141.4	124.4	110.2	99.7	95.4	90.4	83.9	80.0	77.3
82.5°	101.9	105.8	102.5	93.2	83.3	75.1	68.5	68.5	67.4	64.1	63.0
85°	65.2	65.8	63.6	57.5	53.7	48.8	46.0	46.6	48.8	48.2	47.7
87.5°	14.8	14.8	17.5	16.4	19.2	20.3	21.9	23.6	26.9	26.9	28.5
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):

	160°	165°	170°	175°	180°
0°	654.9	654.9	654.9	654.9	654.9
2.5°	674.1	675.2	676.3	674.6	675.2
5°	693.3	692.7	695.5	693.8	694.9
7.5°	699.3	699.8	702.0	702.0	702.6
10°	699.8	700.9	703.7	705.3	706.4
12.5°	702.6	704.8	709.2	710.3	710.3
15°	704.8	705.9	708.6	709.7	710.8
17.5°	697.1	694.9	696.0	696.6	696.0
20°	677.9	675.7	675.2	673.0	674.1
22.5°	657.1	651.1	647.2	642.9	642.9
25°	631.9	622.6	614.9	607.2	608.9
27.5°	608.3	596.3	588.6	583.7	582.6
30°	585.3	572.7	565.6	559.5	559.5
32.5°	546.9	538.2	528.9	525.0	524.5
35°	493.8	488.3	480.6	479.0	476.2
37.5°	434.0	432.4	425.8	425.3	422.5
40°	371.6	372.7	370.5	369.4	367.7
42.5°	309.1	314.6	313.5	312.9	311.8
45°	249.4	253.2	253.7	255.4	258.1
47.5°	196.2	197.3	198.4	197.8	198.4
50°	153.5	150.7	150.2	148.5	150.2
52.5°	123.9	119.5	117.3	115.1	114.0
55°	109.1	104.7	102.5	101.4	100.3
57.5°	105.2	100.8	97.6	95.4	94.8
60°	106.3	99.7	95.4	92.6	92.1
62.5°	109.1	100.3	94.3	91.5	91.0
65°	108.5	99.2	93.7	90.4	89.9
66°	106.9	98.1	92.6	89.9	89.3
67.5°	104.1	96.5	91.5	89.3	88.2
70°	99.2	94.3	90.4	87.7	86.6
72.5°	94.8	91.0	87.7	84.9	84.4
75°	89.9	86.6	83.3	81.1	80.6
77.5°	83.9	80.6	78.4	76.7	76.2
80°	74.0	71.8	69.6	67.4	67.4
82.5°	61.4	59.7	57.5	55.9	55.4
85°	47.1	47.1	45.5	43.8	43.3
87.5°	28.0	27.4	27.4	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

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