

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: P181429

Luminaire Tested: **ICM-E02-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181429
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-E02-LED-E1-T3
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5737.6 lumens
Efficiency: N/A
Efficacy: 110.1 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

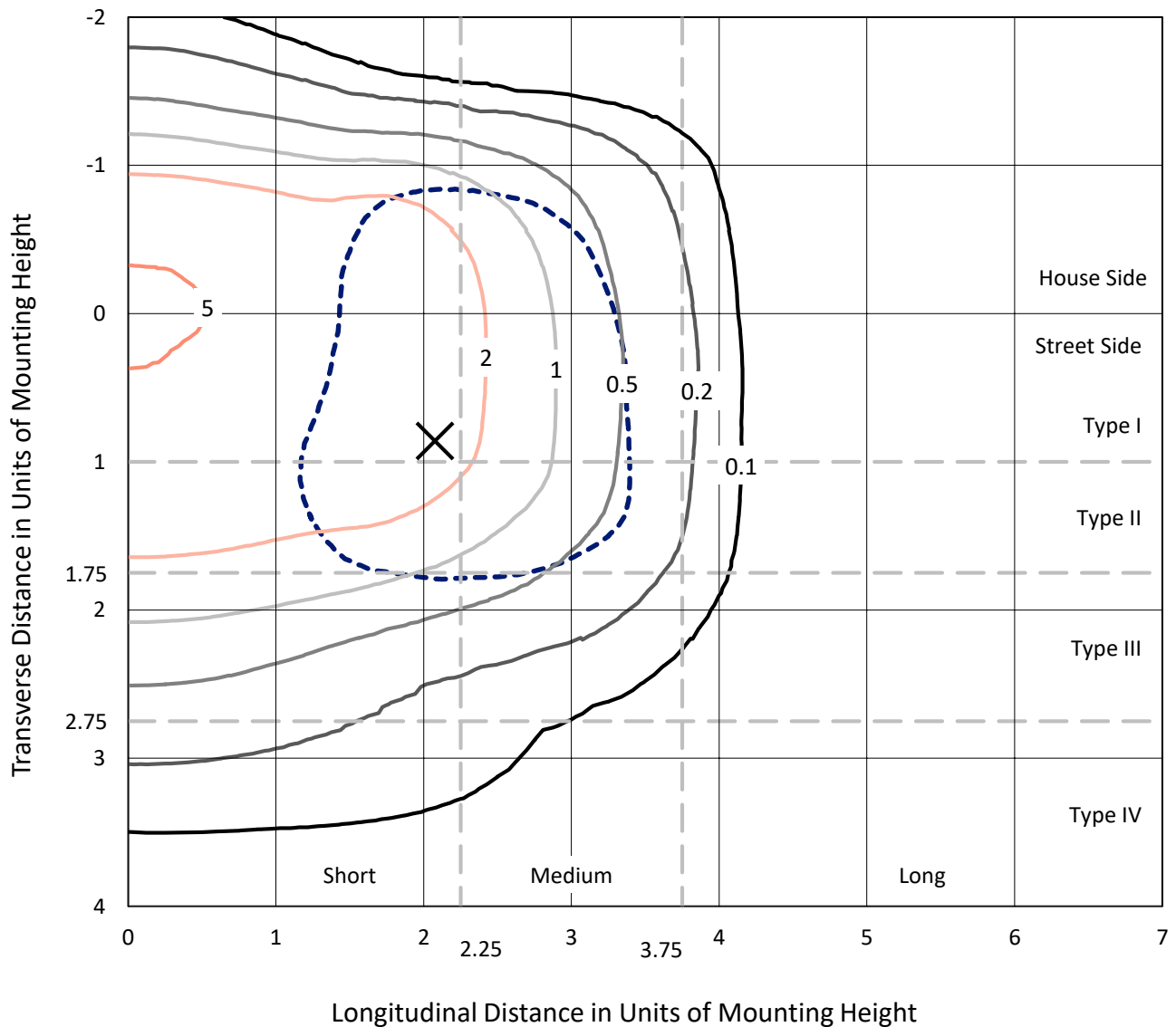
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

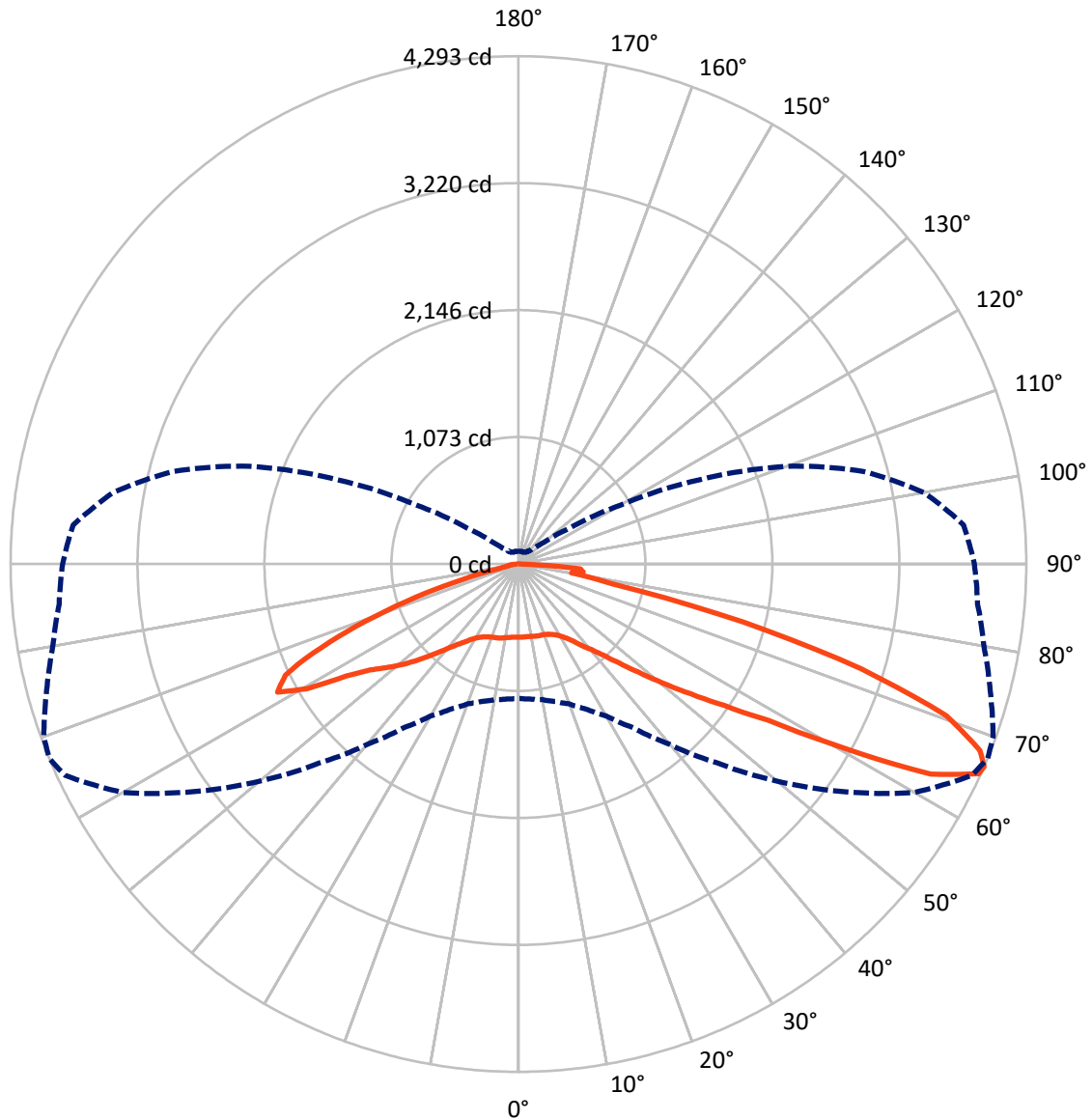
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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	1981.4	0.0	1981.4
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	3756.2	0.0	3756.2
	% Fixture	65.5	0.0	65.5
Total	Lumens	5737.6	0.0	5737.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	1.0
10°-20°	174.8	3.0
20°-30°	300.4	5.2
30°-40°	487.7	8.5
40°-50°	814.3	14.2
50°-60°	1282.2	22.3
60°-70°	1748.4	30.5
70°-80°	756.9	13.2
80°-90°	113.8	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°	5737.6	100.0
0°-180°	5737.6	100.0



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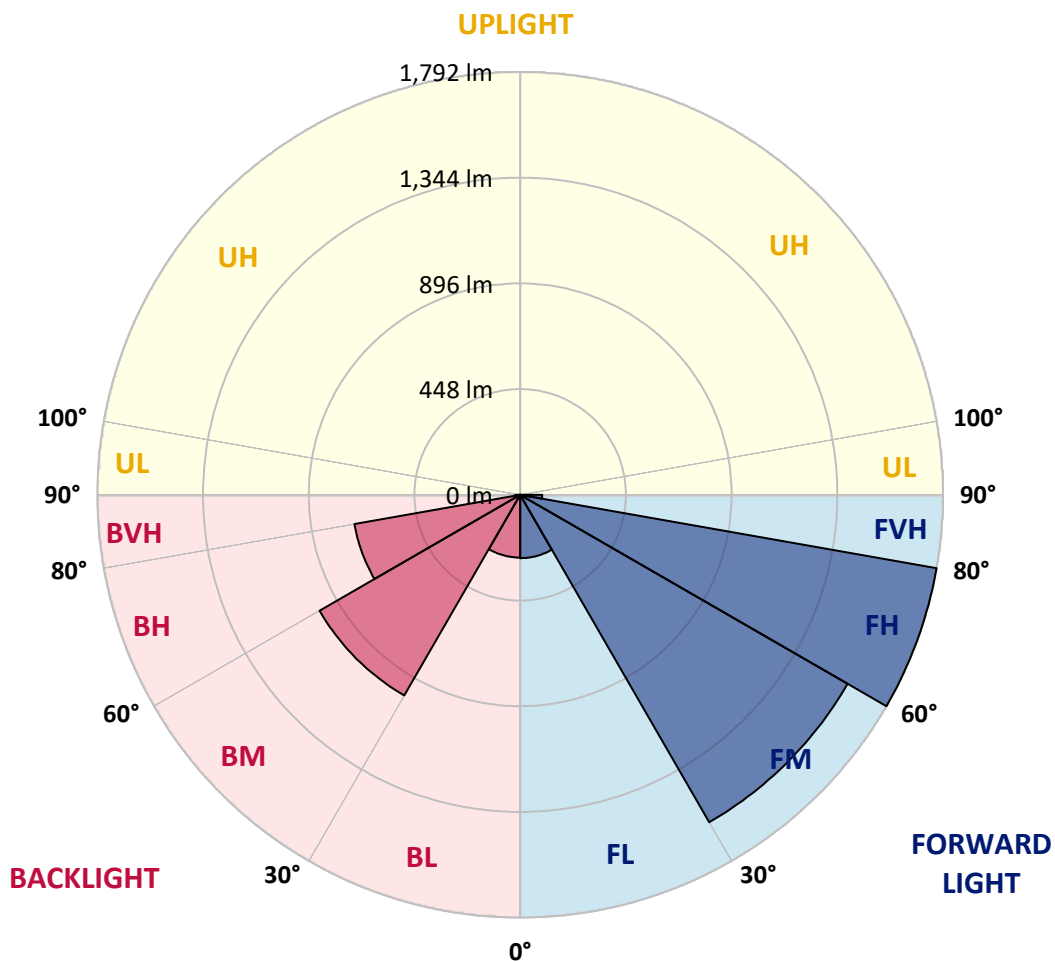
CATALOG NUMBER: ICM-E02-LED-E1-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.4	4.7			
FM	(30°-60°)	1602.3	27.9			
FH	(60°-80°)	1792.0	31.2			G1/1800
FVH	(80°-90°)	93.4	1.6			G1/100
BL	(0°-30°)	266.0	4.6	B1/500		
BM	(30°-60°)	981.8	17.1	B1/1000		
BH	(60°-80°)	713.2	12.4	B2/1000		G2/1000
BVH	(80°-90°)	20.4	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°	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3
2.5°	620.7	623.3	620.7	621.4	622.1	621.4	620.7	620.7	618.9	620.2	621.4
5°	618.3	620.2	619.5	620.2	620.7	620.2	619.5	620.2	618.9	619.5	621.4
7.5°	615.2	614.6	615.2	616.5	617.7	617.7	617.7	618.3	617.7	617.7	619.5
10°	605.9	606.5	607.7	609.6	610.2	612.1	612.1	614.0	614.6	615.8	618.3
12.5°	594.1	594.7	596.0	597.2	600.3	603.4	603.4	607.7	609.6	612.7	617.0
15°	585.4	586.1	587.3	588.6	591.0	594.1	596.0	600.9	604.0	609.6	615.8
17.5°	590.4	589.8	591.0	591.6	591.6	594.1	594.1	597.9	601.6	606.5	614.6
20°	604.7	604.7	605.9	605.9	605.3	606.5	604.0	604.0	604.7	607.2	612.7
22.5°	618.9	618.3	620.7	622.1	622.6	624.5	622.1	621.4	618.3	616.5	618.3
25°	632.6	631.9	635.1	636.9	640.0	641.9	641.9	641.9	639.4	636.3	634.4
27.5°	653.7	653.7	656.7	658.6	661.1	664.8	666.7	666.7	667.3	663.0	659.8
30°	689.0	689.6	690.2	692.7	695.2	696.5	698.9	700.7	702.6	700.2	695.2
32.5°	731.2	727.4	727.4	731.2	734.2	738.0	739.3	741.7	745.4	743.5	743.0
35°	781.4	780.2	778.9	780.2	783.9	788.2	793.2	797.5	795.1	798.8	796.9
37.5°	855.8	857.0	857.7	857.7	857.0	858.3	860.7	865.1	863.9	865.1	867.6
40°	978.6	974.2	970.0	970.5	964.4	965.6	955.6	960.0	960.7	956.3	958.1
42.5°	1101.4	1103.9	1105.8	1110.7	1106.3	1103.9	1094.6	1094.6	1089.6	1085.3	1084.0
45°	1234.1	1239.1	1239.7	1249.6	1245.9	1254.0	1260.8	1258.9	1250.9	1250.2	1241.6
47.5°	1340.2	1348.2	1356.9	1368.7	1378.0	1396.0	1417.0	1427.6	1433.8	1438.8	1428.8
50°	1419.5	1423.3	1445.6	1464.2	1484.7	1514.4	1543.5	1581.4	1611.8	1626.1	1639.7
52.5°	1462.3	1471.6	1495.8	1524.9	1560.9	1605.6	1652.8	1712.8	1764.9	1799.7	1830.7
55°	1471.6	1480.9	1508.2	1545.4	1594.4	1654.6	1722.2	1804.0	1882.2	1949.1	2014.2
57.5°	1445.6	1456.1	1485.3	1528.1	1585.8	1658.9	1743.9	1851.2	1959.1	2067.6	2163.7
60°	1397.9	1410.9	1437.5	1479.7	1543.5	1626.1	1727.7	1862.3	2013.7	2179.8	2364.0
62.5°	1319.1	1332.8	1357.5	1404.0	1469.8	1560.9	1678.8	1846.2	2060.2	2321.9	2648.7
65°	1192.6	1198.8	1229.1	1276.3	1334.6	1435.1	1564.7	1766.8	2045.3	2409.3	2859.6
66°	1135.5	1146.1	1164.7	1202.5	1258.3	1352.6	1482.8	1688.1	1988.8	2378.9	2854.0
67.5°	1046.2	1054.2	1066.7	1092.1	1126.2	1195.6	1319.1	1513.2	1816.5	2225.1	2735.6
70°	845.9	849.6	866.3	875.1	886.8	909.8	954.4	1066.1	1302.3	1686.2	2207.7
72.5°	576.7	587.3	605.3	630.1	662.3	693.3	714.4	728.7	779.5	1005.9	1471.0
75°	423.0	434.1	457.0	490.0	546.3	610.9	677.9	708.8	687.7	658.6	819.3
77.5°	245.6	260.5	279.7	311.4	363.4	449.0	563.7	665.4	734.2	738.6	701.4
80°	103.5	105.4	117.2	133.3	165.6	225.8	315.1	461.4	614.0	716.9	741.1
82.5°	23.5	29.1	37.2	44.0	54.0	74.4	110.4	183.5	331.8	520.3	678.4
85°	8.7	8.7	11.8	17.4	19.8	22.3	29.1	46.5	79.3	146.3	305.1
87.5°	0.0	0.7	1.2	1.2	2.5	3.1	4.9	6.8	6.2	5.6	18.6
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3
2.5°	620.2	619.5	618.3	618.3	618.3	618.3	617.0	617.7	616.5	617.0	617.0
5°	619.5	619.5	618.9	617.7	618.3	618.3	618.9	617.7	617.7	618.3	617.7
7.5°	619.5	618.9	618.9	618.9	619.5	618.9	619.5	619.5	619.5	620.2	620.2
10°	619.5	619.5	620.7	621.4	621.4	622.1	623.9	623.9	624.5	625.1	626.3
12.5°	620.2	622.6	624.5	626.3	627.0	628.2	631.4	631.4	632.6	634.4	635.1
15°	620.7	624.5	628.2	629.5	630.7	633.2	636.3	637.5	639.4	641.2	642.5
17.5°	620.2	625.1	629.5	631.4	633.2	636.3	640.0	641.2	643.7	646.2	648.7
20°	619.5	626.3	633.2	635.6	638.1	642.5	647.4	650.5	653.0	656.7	659.3
22.5°	623.3	631.4	640.7	644.4	648.7	654.2	661.1	664.8	667.9	671.6	673.5
25°	635.1	641.2	652.4	658.6	664.2	673.5	682.8	687.2	690.9	694.0	694.6
27.5°	654.9	656.7	670.4	678.4	686.5	701.4	712.6	715.6	722.5	724.9	724.4
30°	687.2	684.0	695.2	707.6	719.4	739.8	753.5	761.6	767.7	767.7	762.8
32.5°	733.7	728.7	731.8	746.1	759.7	789.5	805.6	816.1	820.5	819.3	808.7
35°	794.4	791.4	789.5	800.7	822.3	857.0	878.1	883.7	890.5	889.3	875.6
37.5°	866.3	863.9	863.9	876.9	898.0	949.5	972.4	976.1	975.5	965.6	940.2
40°	951.4	950.1	944.5	951.9	970.0	1036.9	1067.9	1072.8	1066.1	1050.0	1020.2
42.5°	1073.5	1066.1	1048.7	1053.0	1066.7	1131.8	1172.1	1185.8	1178.9	1162.8	1114.4
45°	1232.8	1224.8	1195.6	1191.9	1199.4	1256.5	1308.6	1311.6	1310.4	1290.0	1232.8
47.5°	1420.2	1407.7	1376.8	1366.8	1364.4	1417.0	1467.3	1472.3	1469.1	1438.8	1362.5
50°	1623.0	1604.9	1584.5	1577.7	1567.7	1605.6	1656.5	1657.0	1644.7	1602.5	1531.2
52.5°	1839.4	1833.2	1829.5	1822.6	1818.3	1851.2	1882.2	1863.5	1844.9	1800.9	1738.9
55°	2057.7	2083.1	2109.1	2111.6	2119.1	2154.4	2153.8	2103.0	2089.3	2065.1	2003.7
57.5°	2289.6	2383.9	2465.8	2491.2	2516.0	2581.7	2575.6	2525.3	2507.9	2478.2	2427.3
60°	2605.3	2859.6	3095.8	3152.3	3191.4	3270.1	3262.6	3185.1	3221.1	3218.6	3152.9
62.5°	3047.5	3470.4	3824.5	3911.4	3938.6	3947.3	3900.2	3816.5	3851.8	3891.5	3689.3
65°	3347.0	3844.4	4207.7	4274.7	4278.4	4174.9	4070.1	3971.5	3962.8	3928.7	3639.7
66°	3353.8	3863.0	4227.7	4292.8	4269.8	4128.4	3995.7	3896.5	3853.7	3778.6	3479.1
67.5°	3233.5	3747.0	4139.6	4208.4	4158.2	3957.9	3774.9	3647.2	3563.5	3441.9	3177.7
70°	2715.6	3224.9	3708.6	3837.0	3853.0	3554.2	3300.5	3150.4	3037.5	2870.7	2643.1
72.5°	2019.3	2479.4	2906.1	3028.9	3091.5	2852.8	2638.8	2524.7	2370.2	2194.7	2032.8
75°	1265.8	1590.7	1876.6	1962.8	1903.9	1719.1	1590.7	1543.0	1391.0	1286.2	1212.4
77.5°	723.7	825.4	848.4	815.5	746.1	571.2	406.2	300.7	261.1	289.0	318.8
80°	706.3	647.4	516.0	454.0	411.2	282.8	166.2	114.1	94.9	97.4	105.4
82.5°	765.3	821.1	676.0	551.4	462.6	312.6	172.4	91.8	62.0	73.2	82.5
85°	497.4	692.1	623.3	525.3	425.4	267.3	142.0	47.7	31.6	41.6	57.0
87.5°	50.2	55.2	47.2	63.9	47.7	22.3	11.2	6.8	6.2	7.4	11.2
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°	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3	618.3
2.5°	617.7	617.7	618.3	618.9	619.5	620.2	620.2	620.2	620.2	621.4	620.7
5°	618.9	620.2	621.4	622.1	623.3	623.3	625.1	624.5	624.5	626.3	627.0
7.5°	621.4	623.3	625.8	625.1	627.6	627.0	628.2	628.2	626.3	627.0	625.8
10°	627.0	629.5	630.7	628.8	629.5	627.0	626.3	623.3	619.5	617.7	615.2
12.5°	636.3	638.8	638.8	635.6	631.9	626.3	622.1	615.2	609.6	606.5	603.4
15°	644.4	646.8	646.2	641.2	635.6	627.0	620.7	612.7	604.7	599.7	596.6
17.5°	650.5	651.8	650.0	643.1	636.9	628.8	622.6	614.0	604.7	598.4	592.8
20°	659.8	658.6	654.2	645.6	638.8	631.4	626.3	618.9	608.4	600.3	592.3
22.5°	673.5	668.6	660.5	651.2	644.4	637.5	632.6	624.5	614.0	604.0	594.7
25°	691.4	681.6	670.4	660.5	654.2	646.8	641.2	632.6	621.4	610.2	599.1
27.5°	717.5	700.2	685.9	677.2	670.4	661.1	654.2	643.1	631.4	618.3	605.9
30°	746.7	723.1	709.5	702.6	695.2	685.3	674.7	660.5	646.8	632.6	617.7
32.5°	784.5	756.0	743.0	736.1	726.2	713.8	701.4	685.3	666.1	647.4	629.5
35°	834.1	804.9	791.4	780.7	767.2	751.0	733.0	711.4	685.3	660.5	637.5
37.5°	887.4	855.8	842.8	831.6	811.2	790.1	764.7	733.0	697.7	664.8	636.3
40°	955.1	925.9	909.1	890.0	865.8	829.1	789.5	743.5	698.3	658.0	624.5
42.5°	1040.7	1011.4	986.7	956.3	914.1	857.7	801.2	741.7	687.2	641.2	605.3
45°	1154.1	1118.8	1076.0	1022.6	954.4	875.6	801.9	730.0	666.1	615.2	576.7
47.5°	1293.0	1239.1	1169.0	1079.1	981.1	880.7	791.9	706.3	633.2	578.0	535.2
50°	1458.0	1373.0	1257.7	1125.6	994.7	873.2	767.2	671.0	586.7	527.7	476.9
52.5°	1646.5	1507.6	1337.7	1159.1	994.1	848.4	724.9	617.7	525.9	460.2	411.8
55°	1867.9	1661.4	1420.2	1183.9	976.8	802.5	660.5	542.6	450.9	390.0	345.4
57.5°	2192.3	1910.7	1564.0	1222.3	942.1	731.8	573.0	452.7	372.1	314.4	276.6
60°	2785.1	2326.8	1823.3	1299.8	888.7	628.2	470.7	356.6	289.0	242.5	217.0
62.5°	3231.6	2648.7	1963.5	1282.5	781.4	500.5	349.1	259.8	212.7	181.1	164.9
65°	3167.7	2548.9	1814.0	1104.5	612.7	352.8	231.9	176.7	146.3	131.4	122.1
66°	3023.3	2418.6	1684.4	994.1	529.6	293.3	191.0	148.2	125.9	115.3	109.1
67.5°	2749.1	2176.8	1452.4	814.9	406.8	212.7	143.9	117.2	102.3	98.0	93.7
70°	2285.3	1735.8	1019.5	474.4	207.7	118.4	91.2	81.9	78.1	77.5	76.3
72.5°	1751.4	1228.6	600.3	224.5	107.9	78.8	70.7	67.6	66.3	66.3	67.0
75°	1073.5	690.2	265.4	109.8	75.6	66.3	62.6	61.4	60.7	61.4	60.7
77.5°	358.4	219.5	113.5	83.1	68.8	61.4	58.9	57.7	57.7	57.7	57.7
80°	109.8	95.5	86.8	76.9	65.1	58.3	54.6	54.0	54.6	55.2	53.3
82.5°	82.5	78.1	73.2	68.2	58.9	52.1	50.9	50.9	50.9	49.0	46.5
85°	60.7	60.2	49.6	46.5	43.4	43.4	43.4	43.4	41.6	38.4	36.0
87.5°	11.2	10.5	11.2	11.8	17.4	18.6	18.6	19.8	21.7	20.5	20.5
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°	618.3	618.3	618.3	618.3	618.3
2.5°	620.7	620.2	622.1	620.7	621.4
5°	626.3	625.8	627.0	625.8	627.6
7.5°	624.5	623.3	622.6	623.3	623.9
10°	611.4	610.2	609.6	609.0	609.6
12.5°	600.3	597.9	597.9	596.6	597.2
15°	592.3	590.4	589.8	588.6	589.1
17.5°	588.6	585.4	584.2	583.0	583.0
20°	586.1	582.3	580.5	579.3	578.6
22.5°	586.1	580.5	578.0	576.7	576.1
25°	588.6	581.7	578.0	576.1	575.5
27.5°	593.5	584.8	580.5	578.0	578.0
30°	602.1	591.0	584.8	581.7	581.1
32.5°	610.9	596.0	587.3	583.5	582.3
35°	615.2	596.0	585.4	579.3	578.0
37.5°	610.2	587.9	574.9	565.6	563.7
40°	594.7	571.2	556.9	548.2	547.0
42.5°	574.2	551.4	534.6	528.4	526.5
45°	546.3	519.1	502.3	493.7	494.2
47.5°	498.6	470.7	455.8	447.7	449.0
50°	442.1	414.9	401.9	393.2	395.1
52.5°	380.2	355.4	343.0	338.6	337.4
55°	315.1	295.8	287.2	282.1	280.3
57.5°	255.5	241.9	235.6	229.5	230.0
60°	201.6	194.7	192.8	186.0	185.4
62.5°	158.8	154.4	152.6	147.6	148.2
65°	120.3	119.1	120.3	117.2	118.4
66°	108.6	109.1	109.1	107.3	108.6
67.5°	93.7	94.9	96.7	94.9	96.1
70°	77.5	78.8	80.0	80.0	80.0
72.5°	67.6	68.8	69.5	69.5	69.5
75°	62.0	62.6	63.3	62.0	62.0
77.5°	58.3	58.3	57.0	56.5	55.8
80°	52.7	52.1	50.2	49.0	49.0
82.5°	44.0	42.8	41.6	39.7	39.7
85°	33.5	32.3	31.0	28.6	27.3
87.5°	17.4	18.0	17.4	14.2	12.4
90°	0.0	0.0	0.0	0.0	0.0

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