

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: P180567

Luminaire Tested: **ICM-E02-LED-E1-SL3-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180567
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
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-SL3-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2946.2 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

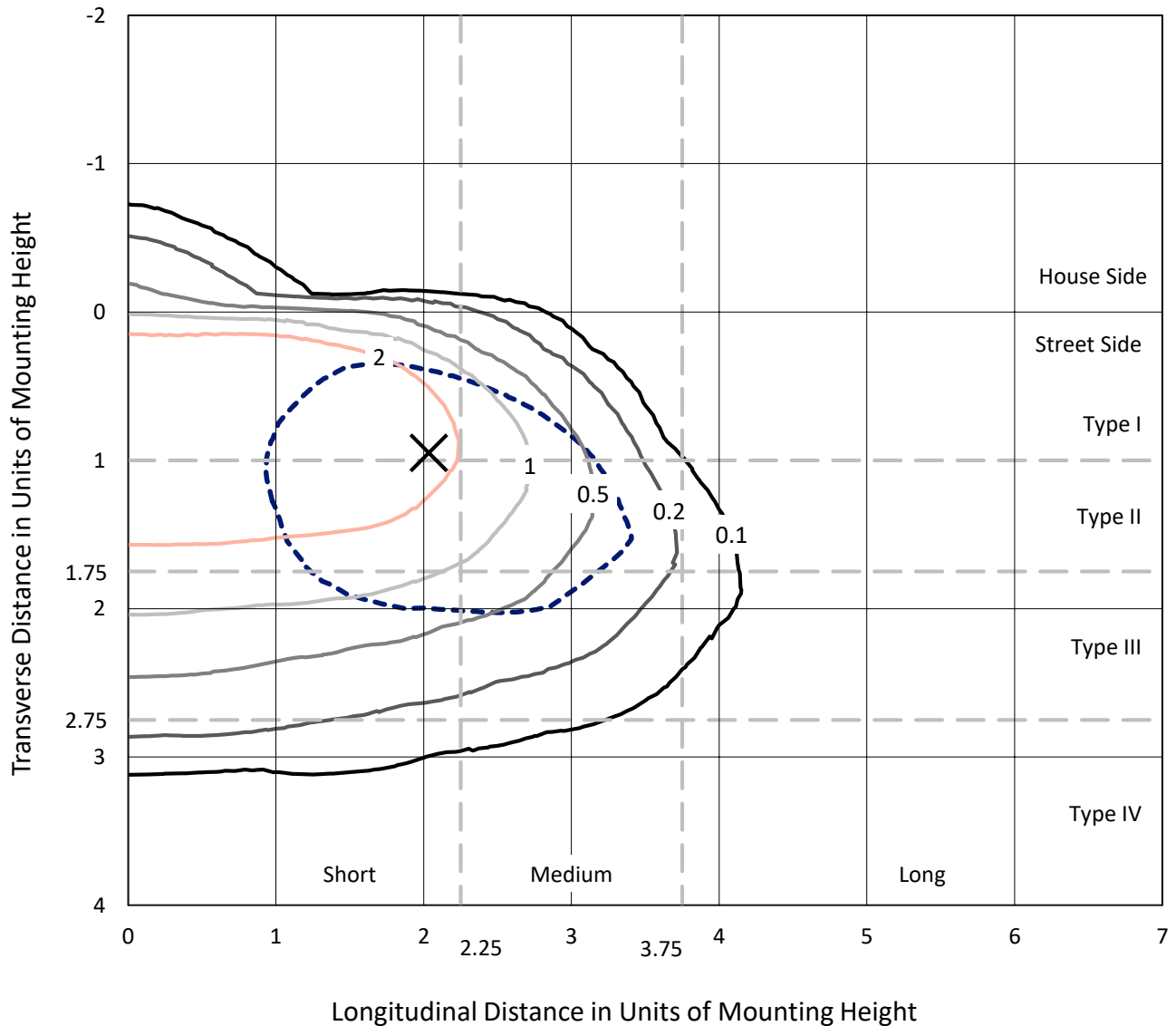
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

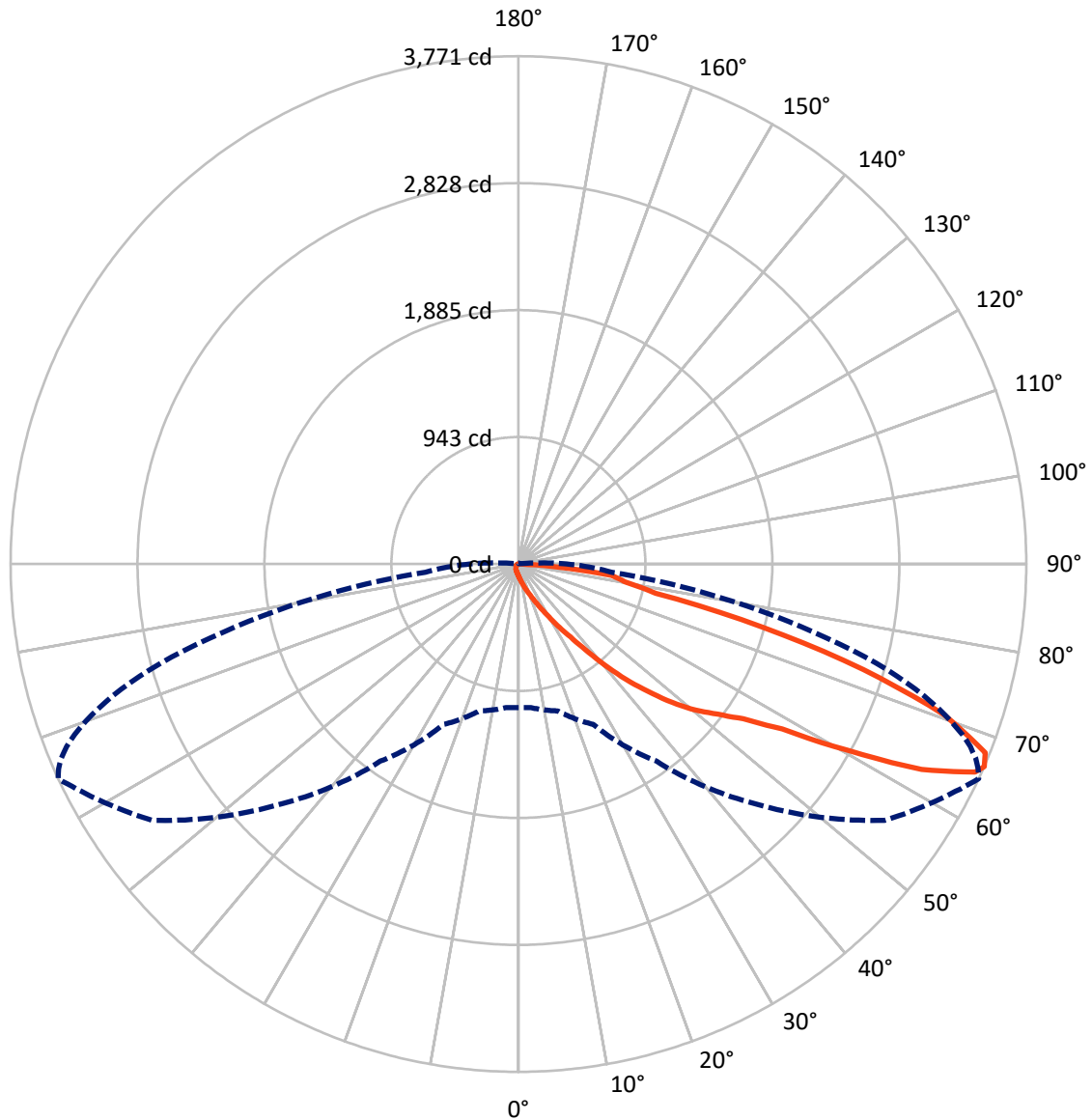
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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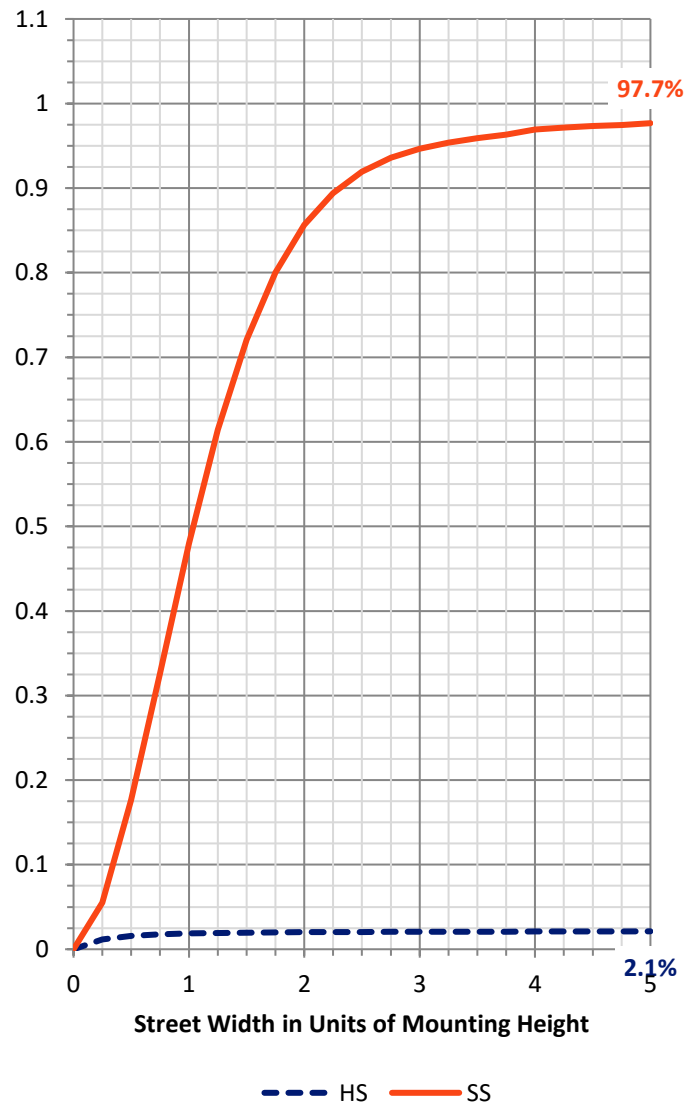
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	63.8	0.0	63.8
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2882.4	0.0	2882.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	2946.2	0.0	2946.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.0	0.3
10°-20°	42.2	1.4
20°-30°	91.0	3.1
30°-40°	194.4	6.6
40°-50°	430.0	14.6
50°-60°	728.7	24.7
60°-70°	972.3	33.0
70°-80°	428.3	14.5
80°-90°	49.3	1.7
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°	2946.2	100.0
0°-180°	2946.2	100.0



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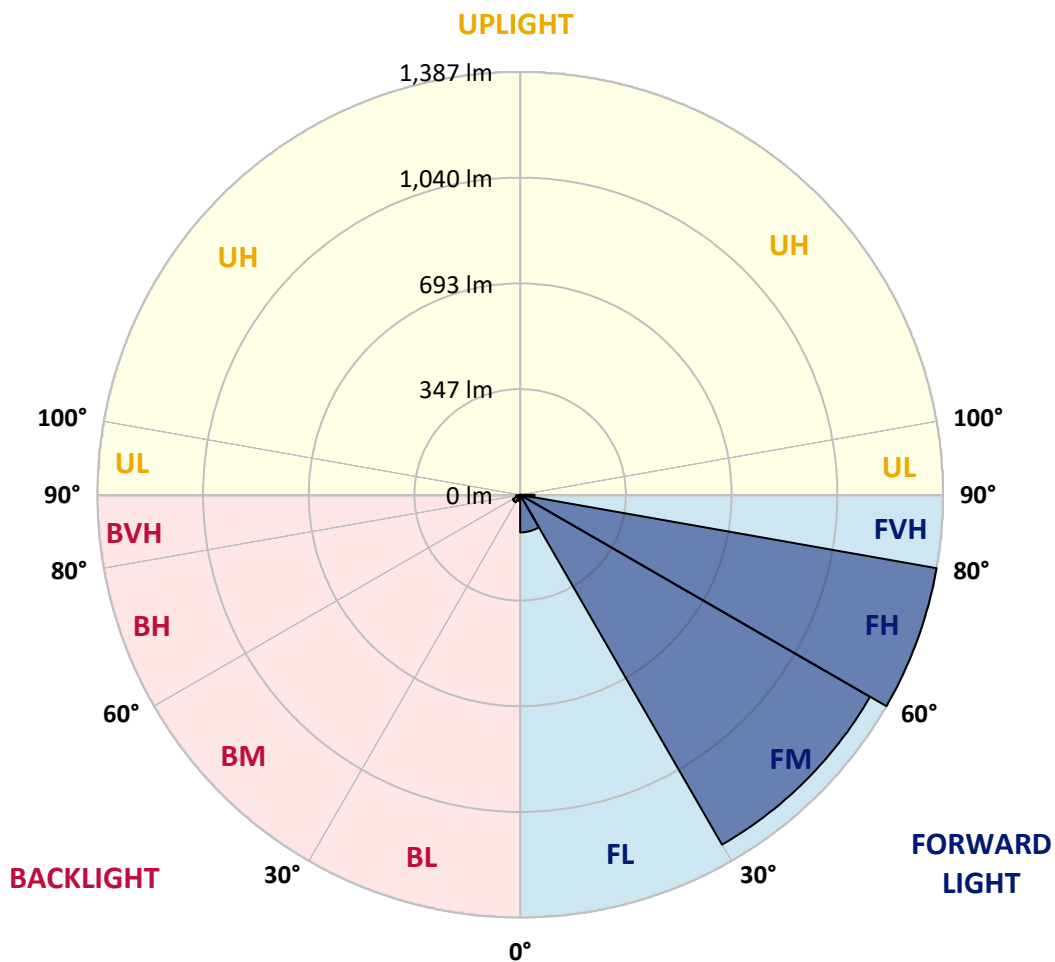
CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.1	4.2			
FM	(30°-60°)	1325.0	45.0			
FH	(60°-80°)	1386.9	47.1			G1/1800
FVH	(80°-90°)	47.4	1.6			G1/100
BL	(0°-30°)	20.1	0.7	B0/110		
BM	(30°-60°)	28.0	1.0	B0/220		
BH	(60°-80°)	13.7	0.5	B0/110		G0/110
BVH	(80°-90°)	2.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2.5°	112.2	111.6	109.3	109.3	106.0	103.6	100.8	98.0	98.0	97.4	96.8
5°	148.4	145.0	144.5	138.2	133.1	125.8	119.0	109.9	108.7	107.6	107.1
7.5°	188.7	188.1	183.0	175.6	165.4	151.8	138.2	123.4	121.2	120.1	117.9
10°	240.7	237.9	231.1	218.6	203.4	185.2	163.2	139.9	137.1	134.8	133.7
12.5°	290.6	285.5	281.5	265.7	246.4	219.8	193.1	159.7	157.5	154.6	150.1
15°	337.0	332.5	325.7	312.1	290.6	257.1	226.0	185.2	179.5	175.6	172.2
17.5°	373.3	370.4	362.5	347.3	324.0	294.5	257.1	211.3	206.7	201.7	195.4
20°	407.8	403.8	391.4	370.4	345.5	322.9	294.0	245.3	239.1	232.8	226.0
22.5°	440.7	436.7	416.3	381.8	355.2	345.5	335.4	283.8	274.1	269.0	262.2
25°	486.5	478.0	446.3	391.4	355.7	363.1	380.7	333.6	324.6	317.2	306.4
27.5°	548.3	536.9	487.2	405.6	358.0	382.3	432.7	394.2	384.6	376.1	364.2
30°	618.0	610.6	551.2	439.5	374.4	410.7	491.1	471.3	459.9	449.8	435.5
32.5°	688.2	678.1	619.1	504.1	418.6	465.6	564.2	560.7	546.0	536.4	521.1
35°	750.0	744.8	701.2	610.1	519.4	561.9	661.6	665.6	652.6	642.3	625.3
37.5°	791.8	791.8	783.4	723.9	679.7	711.4	804.8	805.5	792.5	769.2	760.7
40°	813.4	819.6	850.2	861.5	859.3	900.0	992.9	982.7	972.0	960.1	931.7
42.5°	857.6	863.3	928.4	1006.5	1057.5	1111.4	1175.4	1171.9	1158.9	1137.4	1111.4
45°	932.3	939.7	1017.3	1141.3	1246.1	1322.6	1363.4	1347.5	1334.5	1314.1	1300.5
47.5°	1027.4	1041.7	1129.4	1283.0	1409.2	1535.5	1578.1	1536.1	1524.8	1508.9	1486.9
50°	1128.8	1142.5	1235.9	1411.5	1554.2	1704.9	1775.7	1704.9	1688.5	1683.5	1658.5
52.5°	1216.7	1228.0	1318.1	1510.6	1665.3	1842.0	1945.1	1851.6	1839.7	1822.7	1804.7
55°	1268.8	1277.9	1362.2	1558.2	1740.7	1965.5	2108.8	2026.6	2009.1	2002.3	1976.3
57.5°	1286.3	1295.4	1371.3	1564.5	1781.4	2078.2	2307.6	2310.4	2289.5	2265.1	2257.2
60°	1286.3	1296.6	1360.6	1549.1	1821.0	2198.2	2572.7	2808.9	2763.6	2759.1	2730.2
62.5°	1233.1	1242.7	1307.3	1502.1	1874.3	2360.3	2942.0	3358.9	3345.9	3316.4	3268.9
65°	1117.6	1123.2	1186.6	1382.1	1853.9	2509.2	3262.1	3724.8	3703.8	3646.1	3584.9
66°	1065.4	1070.0	1129.4	1313.5	1787.1	2529.6	3318.6	3770.6	3736.1	3687.4	3618.3
67.5°	990.1	998.1	1039.9	1186.1	1626.8	2458.8	3283.0	3738.3	3708.4	3649.4	3580.4
70°	661.0	655.4	803.2	910.2	1239.4	2003.5	2945.4	3356.6	3357.2	3329.4	3301.7
72.5°	313.8	317.2	360.3	560.2	811.1	1338.4	2344.4	2679.2	2717.7	2667.8	2633.3
75°	225.4	230.5	256.6	342.7	483.7	803.2	1519.7	1873.7	1874.9	1786.5	1707.7
77.5°	65.7	68.6	96.3	211.3	362.5	542.0	872.8	1041.7	1017.3	953.9	894.4
80°	27.2	27.2	28.3	67.4	145.6	368.2	610.6	802.1	799.3	774.9	739.7
82.5°	10.2	10.8	13.6	27.7	34.5	90.6	407.3	696.1	694.4	659.9	635.0
85°	1.1	1.1	3.4	11.9	13.0	17.0	81.6	307.0	305.3	307.0	269.0
87.5°	0.0	0.0	0.6	1.1	1.7	2.2	3.4	11.9	13.0	12.5	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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2.5°	96.8	95.7	95.7	95.2	95.2	95.2	94.6	94.0	94.0	93.5	92.9
5°	106.0	104.7	104.2	103.1	102.5	102.0	100.8	100.3	99.2	98.5	98.0
7.5°	116.7	114.4	113.9	112.2	110.4	109.3	108.2	106.5	105.4	103.1	102.5
10°	130.2	127.4	125.2	122.9	121.2	118.4	116.7	114.4	112.2	110.4	108.7
12.5°	147.8	143.9	140.5	138.2	134.2	130.9	127.4	125.8	121.2	119.0	116.1
15°	167.1	162.6	158.6	154.0	151.3	145.6	141.0	135.9	133.7	129.7	125.2
17.5°	192.0	184.7	178.4	173.9	168.2	162.6	157.5	152.4	145.6	141.0	135.3
20°	218.6	212.4	203.9	196.0	189.2	182.4	175.1	168.2	162.0	154.6	147.8
22.5°	252.7	243.5	233.4	225.4	216.4	209.0	198.8	189.8	179.5	170.0	162.0
25°	295.6	283.8	274.1	262.8	252.1	240.7	228.3	216.9	203.9	194.9	181.2
27.5°	348.9	337.6	324.6	309.9	299.1	282.0	265.7	251.5	236.2	222.0	206.7
30°	416.9	400.5	386.9	372.7	351.2	334.8	315.5	296.3	275.3	261.1	237.9
32.5°	498.4	480.9	460.5	440.1	420.3	397.0	373.3	349.5	326.2	300.2	276.4
35°	598.1	577.2	554.0	531.9	501.3	476.4	446.3	413.5	387.4	357.4	327.4
37.5°	730.1	695.5	675.2	651.9	610.6	576.7	543.2	510.3	464.5	432.7	390.2
40°	895.5	875.2	841.7	804.3	767.0	722.1	676.8	633.3	580.0	535.8	486.5
42.5°	1089.8	1059.8	1025.8	972.0	934.1	881.3	829.8	772.0	706.9	650.2	592.5
45°	1272.2	1236.5	1210.4	1156.7	1117.0	1054.7	992.4	931.2	855.8	782.8	715.9
47.5°	1469.3	1439.8	1396.8	1353.2	1312.9	1242.7	1175.4	1101.1	1021.9	935.2	848.5
50°	1642.6	1619.4	1590.0	1537.3	1492.6	1433.6	1354.3	1273.3	1173.0	1087.0	988.4
52.5°	1789.9	1771.7	1730.4	1693.0	1652.8	1597.3	1526.5	1448.9	1340.8	1246.1	1134.0
55°	1963.8	1950.8	1914.5	1891.3	1855.6	1802.3	1736.1	1664.1	1549.8	1446.6	1319.7
57.5°	2248.7	2238.5	2206.8	2197.1	2162.1	2115.5	2034.1	1957.0	1823.3	1695.3	1550.3
60°	2720.5	2700.1	2653.7	2629.9	2555.7	2493.4	2387.5	2281.6	2120.1	1957.0	1782.5
62.5°	3225.8	3168.6	3080.2	3004.3	2899.0	2790.8	2649.1	2487.2	2298.0	2104.3	1903.7
65°	3498.3	3400.8	3289.2	3168.6	3032.0	2872.9	2694.4	2500.2	2296.9	2092.4	1880.5
66°	3529.4	3419.5	3301.1	3166.9	3015.1	2845.7	2664.5	2460.6	2249.2	2049.9	1838.1
67.5°	3490.3	3375.3	3250.2	3101.1	2936.9	2761.3	2571.0	2359.2	2155.8	1953.6	1747.5
70°	3216.7	3102.3	2990.7	2833.8	2658.8	2482.1	2302.0	2065.2	1872.6	1686.8	1503.3
72.5°	2568.8	2491.1	2380.7	2246.4	2075.9	1868.7	1718.5	1506.7	1339.5	1159.4	1017.3
75°	1605.2	1495.9	1359.5	1188.4	1058.1	889.9	802.1	641.2	546.0	462.8	382.3
77.5°	820.7	738.6	642.9	546.6	454.2	362.5	280.4	198.2	133.7	92.9	69.1
80°	678.1	605.5	526.2	438.4	356.8	277.0	199.4	135.9	86.7	56.7	44.2
82.5°	560.2	499.0	428.2	346.6	275.8	217.5	151.3	98.5	61.2	39.6	31.2
85°	238.4	216.4	167.1	132.6	99.7	73.7	51.5	34.5	24.4	19.8	18.1
87.5°	10.2	11.3	10.8	8.5	6.2	6.2	5.7	4.6	4.6	4.6	4.6
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2.5°	92.9	92.4	91.7	91.7	91.2	90.6	87.3	84.4	81.0	78.7	76.5
5°	96.8	96.3	95.2	94.6	93.5	92.9	85.5	79.3	74.2	70.2	67.4
7.5°	100.8	100.3	98.5	96.8	96.3	95.2	83.3	75.3	68.6	64.0	61.2
10°	106.0	104.2	102.5	100.3	98.5	96.8	81.0	70.8	63.4	59.4	56.7
12.5°	113.3	110.4	107.6	104.7	102.5	99.7	79.9	66.9	59.4	55.0	52.1
15°	121.8	117.9	114.4	111.0	107.1	104.2	77.6	63.4	56.1	51.5	48.2
17.5°	129.7	125.2	120.1	115.0	111.0	107.1	75.3	60.0	52.7	48.2	44.7
20°	141.0	134.2	128.0	121.8	116.1	111.0	71.9	56.7	49.9	44.7	41.3
22.5°	153.5	145.6	137.7	129.1	121.8	115.0	69.1	53.8	47.0	42.0	38.0
25°	169.4	159.7	148.9	138.2	129.7	120.7	66.2	51.0	44.2	39.1	35.2
27.5°	191.4	177.9	166.0	152.4	139.3	129.1	64.0	48.7	41.3	36.3	32.3
30°	221.5	201.7	183.0	168.2	152.9	138.2	61.8	45.9	39.1	33.4	28.9
32.5°	254.9	231.6	210.1	188.1	168.8	151.8	59.4	43.6	36.3	30.6	26.6
35°	296.3	266.8	237.9	212.4	189.2	166.5	57.2	41.3	34.0	27.7	23.8
37.5°	355.7	318.9	280.9	248.1	218.0	188.1	55.5	39.1	31.2	24.9	20.9
40°	437.3	389.7	343.3	298.5	259.4	222.0	53.2	36.8	28.9	22.7	18.7
42.5°	525.7	467.9	406.7	356.3	302.5	255.4	51.0	34.5	26.6	20.4	16.5
45°	635.5	563.6	489.4	420.8	355.2	294.5	48.7	32.3	23.8	18.1	14.1
47.5°	755.6	663.8	580.0	494.0	415.7	343.3	45.9	30.6	21.5	15.8	12.5
50°	879.1	782.2	676.3	578.3	485.4	392.0	43.1	27.7	19.3	14.1	10.2
52.5°	1012.2	897.8	789.6	667.8	559.6	456.0	40.2	25.5	17.6	12.5	8.5
55°	1181.6	1053.6	926.7	790.1	659.9	530.1	37.4	22.7	15.3	10.8	6.8
57.5°	1394.5	1242.7	1087.0	932.9	774.9	627.6	35.2	19.8	13.0	9.0	5.7
60°	1595.6	1418.3	1229.7	1052.4	874.0	702.3	31.7	17.6	11.3	7.3	5.7
62.5°	1699.8	1497.6	1294.2	1098.9	908.6	729.0	28.3	14.7	9.7	6.2	5.1
65°	1674.3	1468.2	1271.1	1074.0	887.5	712.0	24.9	13.0	8.5	5.7	5.1
66°	1637.5	1433.6	1235.4	1047.9	870.1	693.9	23.3	12.5	7.9	5.7	4.6
67.5°	1557.1	1360.0	1170.8	996.4	821.9	659.4	20.9	11.3	7.3	5.1	4.6
70°	1330.0	1151.0	999.7	844.6	702.3	555.6	17.0	9.7	6.2	4.6	4.6
72.5°	880.2	758.4	657.6	565.9	472.9	367.1	14.1	7.9	5.1	4.6	4.0
75°	331.9	300.2	257.7	231.6	202.2	177.3	11.3	5.1	4.0	4.0	4.0
77.5°	58.9	54.4	48.2	44.2	40.7	37.4	9.0	3.4	3.4	4.0	4.0
80°	39.6	36.8	33.4	30.6	28.3	25.5	6.2	2.8	3.4	3.4	4.0
82.5°	28.3	26.6	24.9	22.7	20.9	18.7	4.0	2.8	3.4	3.4	3.4
85°	17.0	15.8	14.7	13.6	11.9	11.3	2.8	2.8	2.8	3.4	3.4
87.5°	4.6	4.0	4.6	4.6	3.4	4.0	2.2	2.2	2.2	2.8	2.8
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):

	145°	155°	165°	175°	180°
0°	88.9	88.9	88.9	88.9	88.9
2.5°	75.3	75.3	74.2	75.9	75.9
5°	65.1	65.1	64.6	65.1	65.1
7.5°	59.4	58.9	58.9	58.9	59.4
10°	54.4	53.8	53.8	53.8	53.8
12.5°	49.9	49.3	48.7	49.3	49.3
15°	45.9	44.7	44.7	44.7	44.7
17.5°	42.5	41.3	40.7	40.7	40.7
20°	39.1	37.4	37.4	37.4	37.4
22.5°	35.7	34.0	34.0	34.0	34.0
25°	32.3	30.6	30.6	30.6	30.6
27.5°	29.5	27.7	27.7	27.7	27.7
30°	26.0	24.9	24.9	25.5	24.9
32.5°	23.8	22.0	22.0	22.7	22.7
35°	20.9	19.8	19.8	19.8	19.8
37.5°	18.1	17.0	17.0	17.0	17.0
40°	15.8	14.7	14.1	14.7	14.7
42.5°	13.6	12.5	11.9	11.9	11.9
45°	11.9	10.2	9.7	10.2	10.2
47.5°	9.7	8.5	8.5	9.0	9.0
50°	7.3	7.3	7.9	9.0	9.0
52.5°	6.8	6.8	7.9	9.0	9.0
55°	6.2	6.8	7.9	8.5	9.0
57.5°	5.7	6.8	7.9	8.5	8.5
60°	5.7	6.2	7.3	8.5	8.5
62.5°	5.1	5.7	6.8	7.9	7.9
65°	5.1	5.7	6.8	7.9	7.9
66°	5.1	5.7	6.8	7.9	7.9
67.5°	5.1	5.7	6.8	7.9	7.9
70°	5.1	5.7	6.8	7.3	7.3
72.5°	4.6	5.1	6.2	7.3	7.3
75°	4.6	5.1	6.2	7.3	7.3
77.5°	4.6	5.1	6.2	7.3	7.3
80°	4.6	5.1	6.2	6.8	7.3
82.5°	4.0	5.1	5.7	6.8	6.8
85°	4.0	4.6	5.7	6.2	6.8
87.5°	3.4	4.0	4.6	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)