

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: P180593

Luminaire Tested: **ICM-F04-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180593
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-F04-LED-E1-SL3-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5325.8 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 102.2
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

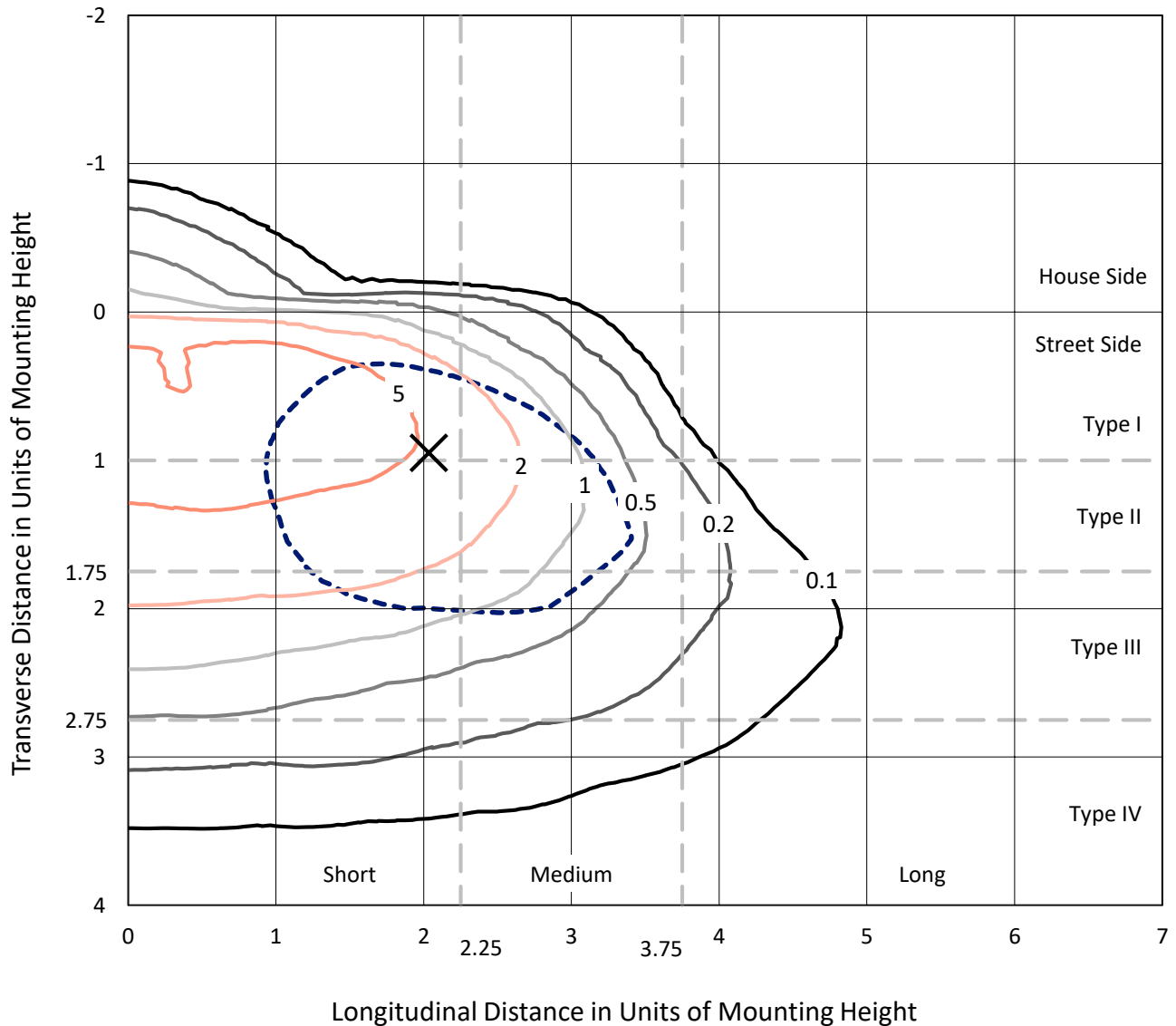


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

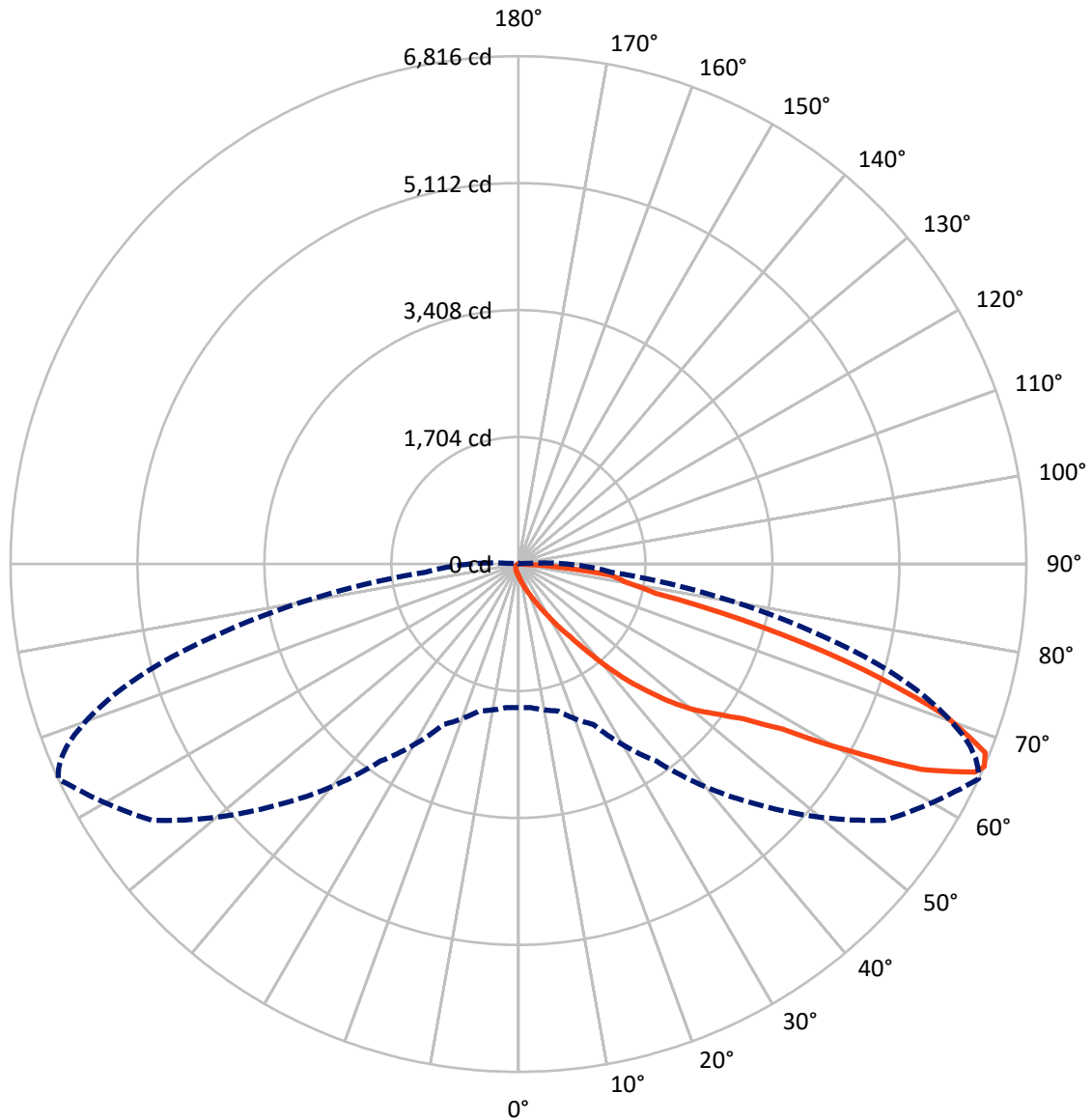


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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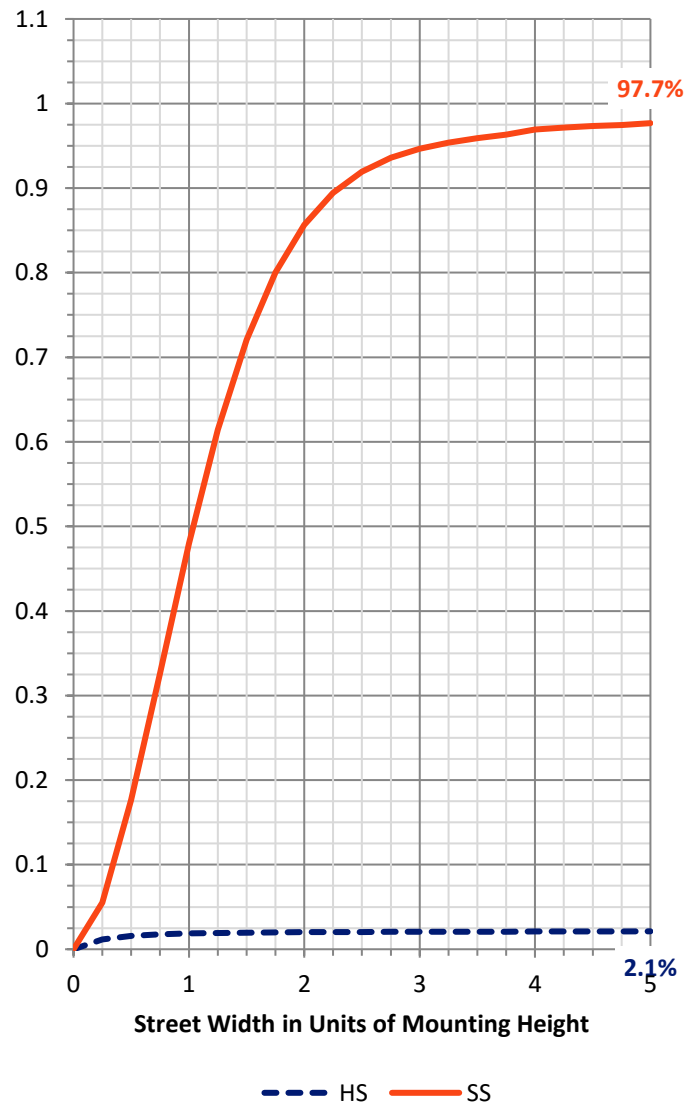
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	115.4	0.0	115.4
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	5210.4	0.0	5210.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	5325.8	0.0	5325.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	0.3
10°-20°	76.3	1.4
20°-30°	164.6	3.1
30°-40°	351.5	6.6
40°-50°	777.2	14.6
50°-60°	1317.2	24.7
60°-70°	1757.7	33.0
70°-80°	774.2	14.5
80°-90°	89.2	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°	5325.8	100.0
0°-180°	5325.8	100.0



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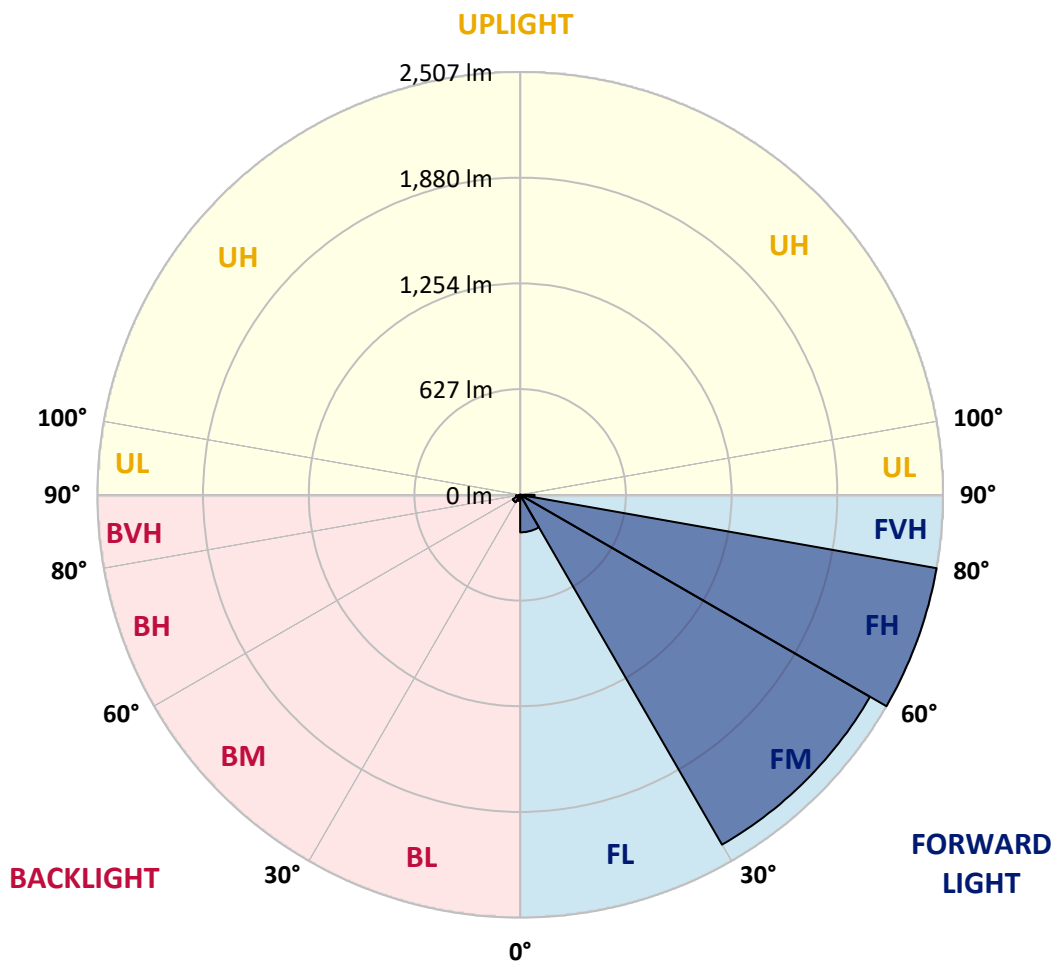
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	222.5	4.2			
FM	(30°-60°)	2395.2	45.0			
FH	(60°-80°)	2507.1	47.1			G2/5000
FVH	(80°-90°)	85.6	1.6			G1/100
BL	(0°-30°)	36.4	0.7	B0/110		
BM	(30°-60°)	50.7	1.0	B0/220		
BH	(60°-80°)	24.8	0.5	B0/110		G0/110
BVH	(80°-90°)	3.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7
2.5°	202.7	201.7	197.6	197.6	191.4	187.3	182.2	177.1	177.1	176.1	175.1
5°	268.3	262.1	261.1	249.9	240.7	227.4	215.0	198.6	196.6	194.5	193.5
7.5°	340.9	339.9	330.7	317.4	299.0	274.4	249.9	223.3	219.1	217.0	212.9
10°	435.2	430.0	417.8	395.3	367.6	334.8	294.9	252.9	247.8	243.7	241.7
12.5°	525.3	516.1	508.8	480.2	445.4	397.3	349.1	288.7	284.7	279.5	271.4
15°	609.2	601.0	588.7	564.2	525.3	464.8	408.6	334.8	324.6	317.4	311.3
17.5°	674.8	669.7	655.3	627.6	585.7	532.5	464.8	382.0	373.8	364.5	353.2
20°	737.2	730.1	707.5	669.7	624.6	583.6	531.4	443.4	432.1	420.8	408.6
22.5°	796.6	789.4	752.6	690.1	642.0	624.6	606.1	513.0	495.5	486.3	474.0
25°	879.5	864.2	806.9	707.5	643.0	656.3	688.1	603.1	586.7	573.4	554.0
27.5°	991.2	970.7	880.6	733.1	647.1	691.2	782.2	712.7	695.3	679.9	658.4
30°	1117.1	1103.8	996.3	794.5	676.8	742.3	887.7	851.9	831.4	813.0	787.4
32.5°	1244.1	1225.6	1119.2	911.3	756.7	841.7	1019.8	1013.7	987.1	969.7	942.0
35°	1355.6	1346.4	1267.6	1102.8	938.9	1015.7	1195.9	1203.1	1179.5	1161.1	1130.4
37.5°	1431.5	1431.5	1416.1	1308.6	1228.7	1286.1	1455.0	1456.0	1432.5	1390.5	1375.1
40°	1470.3	1481.6	1536.9	1557.4	1553.3	1627.0	1794.9	1776.5	1757.0	1735.5	1684.4
42.5°	1550.2	1560.5	1678.1	1819.5	1911.6	2008.9	2124.7	2118.4	2094.9	2056.0	2008.9
45°	1685.4	1698.7	1839.0	2063.2	2252.6	2390.8	2464.6	2435.9	2412.3	2375.5	2350.9
47.5°	1857.4	1883.0	2041.7	2319.2	2547.5	2775.8	2852.6	2776.9	2756.4	2727.7	2687.7
50°	2040.7	2065.2	2234.2	2551.6	2809.6	3082.0	3210.0	3082.0	3052.3	3043.1	2998.0
52.5°	2199.4	2219.8	2382.6	2730.8	3010.3	3329.8	3516.1	3347.2	3325.7	3295.0	3262.2
55°	2293.6	2310.0	2462.5	2816.8	3146.5	3553.0	3812.0	3663.6	3631.8	3619.6	3572.4
57.5°	2325.3	2341.7	2478.9	2828.0	3220.2	3756.8	4171.5	4176.6	4138.6	4094.6	4080.3
60°	2325.3	2343.7	2459.5	2800.4	3291.9	3973.8	4650.6	5077.6	4995.7	4987.5	4935.3
62.5°	2229.0	2246.4	2363.2	2715.5	3388.1	4266.6	5318.2	6071.9	6048.2	5995.0	5909.0
65°	2020.2	2030.4	2145.1	2498.3	3351.3	4535.9	5896.7	6733.3	6695.4	6590.9	6480.3
66°	1926.0	1934.2	2041.7	2374.4	3230.4	4572.8	5999.1	6816.2	6753.7	6665.7	6540.8
67.5°	1789.8	1804.1	1879.9	2144.1	2940.7	4444.8	5934.6	6757.8	6703.6	6597.1	6472.1
70°	1194.9	1184.7	1451.9	1645.4	2240.3	3621.6	5324.3	6067.7	6068.7	6018.5	5968.4
72.5°	567.3	573.4	651.2	1012.7	1466.2	2419.5	4238.0	4843.1	4912.8	4822.6	4760.2
75°	407.5	416.7	463.8	619.4	874.4	1451.9	2747.2	3387.1	3389.1	3229.4	3087.1
77.5°	118.8	123.9	174.0	382.0	655.3	979.9	1577.9	1883.0	1839.0	1724.3	1616.8
80°	49.1	49.1	51.2	121.9	263.2	665.6	1103.8	1449.9	1444.8	1400.8	1337.2
82.5°	18.4	19.4	24.6	50.1	62.4	163.8	736.2	1258.4	1255.4	1192.8	1147.8
85°	2.0	2.0	6.1	21.5	23.5	30.7	147.4	555.0	551.9	555.0	486.3
87.5°	0.0	0.0	1.0	2.0	3.1	4.1	6.1	21.5	23.5	22.5	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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7
2.5°	175.1	173.0	173.0	172.0	172.0	172.0	171.0	170.0	170.0	168.9	167.9
5°	191.4	189.4	188.4	186.3	185.3	184.3	182.2	181.2	179.2	178.1	177.1
7.5°	210.9	206.8	205.8	202.7	199.6	197.6	195.5	192.5	190.4	186.3	185.3
10°	235.5	230.4	226.3	222.2	219.1	214.0	210.9	206.8	202.7	199.6	196.6
12.5°	267.3	260.1	254.0	249.9	242.7	236.6	230.4	227.4	219.1	215.0	209.9
15°	302.0	293.9	286.7	278.5	273.4	263.2	255.0	245.8	241.7	234.5	226.3
17.5°	347.1	333.8	322.5	314.3	304.1	293.9	284.7	275.4	263.2	255.0	244.7
20°	395.3	384.0	368.7	354.2	342.0	329.7	316.4	304.1	292.8	279.5	267.3
22.5°	456.7	440.3	421.9	407.5	391.2	377.9	359.4	343.0	324.6	307.2	292.8
25°	534.5	513.0	495.5	475.1	455.6	435.2	412.7	392.2	368.7	352.2	327.6
27.5°	630.7	610.2	586.7	560.1	540.7	509.9	480.2	454.6	427.0	401.4	373.8
30°	753.6	723.9	699.4	673.8	634.8	605.1	570.3	535.5	497.6	472.0	430.0
32.5°	901.0	869.3	832.5	795.5	759.7	717.8	674.8	631.7	589.8	542.7	499.6
35°	1081.2	1043.4	1001.4	961.5	906.1	861.1	806.9	747.4	700.4	646.1	591.8
37.5°	1319.8	1257.4	1220.5	1178.5	1103.8	1042.3	982.0	922.5	839.6	782.2	705.5
40°	1618.8	1582.0	1521.5	1454.0	1386.3	1305.5	1223.5	1144.8	1048.5	968.7	879.5
42.5°	1970.0	1915.7	1854.3	1757.0	1688.5	1593.2	1500.0	1395.6	1277.9	1175.4	1071.0
45°	2299.7	2235.2	2188.1	2090.8	2019.2	1906.5	1793.9	1683.4	1547.2	1415.1	1294.2
47.5°	2656.0	2602.8	2524.9	2446.2	2373.4	2246.4	2124.7	1990.5	1847.2	1690.5	1533.8
50°	2969.3	2927.4	2874.2	2778.9	2698.0	2591.6	2448.2	2301.8	2120.5	1964.8	1786.7
52.5°	3235.6	3202.8	3128.0	3060.5	2987.7	2887.5	2759.5	2619.2	2423.6	2252.6	2049.9
55°	3549.9	3526.3	3460.9	3418.8	3354.3	3258.1	3138.3	3008.3	2801.4	2615.1	2385.7
57.5°	4065.0	4046.5	3989.1	3971.7	3908.3	3824.3	3676.9	3537.6	3296.0	3064.6	2802.4
60°	4917.9	4881.0	4797.1	4754.0	4619.9	4507.3	4315.8	4124.3	3832.5	3537.6	3222.3
62.5°	5831.2	5727.8	5568.0	5430.8	5240.4	5044.8	4788.9	4496.0	4154.0	3803.8	3441.4
65°	6323.7	6147.6	5945.9	5727.8	5481.0	5193.2	4870.7	4519.6	4151.9	3782.3	3399.4
66°	6380.0	6181.3	5967.4	5724.7	5450.3	5144.1	4816.5	4447.8	4066.0	3705.5	3322.6
67.5°	6309.3	6101.5	5875.2	5605.9	5309.0	4991.6	4647.6	4264.6	3897.0	3531.5	3158.8
70°	5814.8	5607.9	5406.3	5122.6	4806.3	4486.8	4161.1	3733.2	3385.0	3049.2	2717.5
72.5°	4643.5	4503.2	4303.5	4060.9	3752.7	3377.9	3106.5	2723.6	2421.6	2095.9	1839.0
75°	2901.8	2704.1	2457.4	2148.2	1912.7	1608.6	1449.9	1159.1	987.1	836.6	691.2
77.5°	1483.6	1335.2	1162.1	988.1	821.2	655.3	506.8	358.3	241.7	167.9	124.9
80°	1225.6	1094.5	951.3	792.5	645.0	500.7	360.4	245.8	156.7	102.4	79.9
82.5°	1012.7	902.1	774.1	626.6	498.6	393.2	273.4	178.1	110.6	71.6	56.3
85°	431.1	391.2	302.0	239.6	180.2	133.1	93.2	62.4	44.0	35.8	32.7
87.5°	18.4	20.5	19.4	15.3	11.3	11.3	10.2	8.2	8.2	8.2	8.2
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7	160.7
2.5°	167.9	166.9	165.9	165.9	164.8	163.8	157.7	152.6	146.4	142.3	138.2
5°	175.1	174.0	172.0	171.0	168.9	167.9	154.6	143.3	134.1	127.0	121.9
7.5°	182.2	181.2	178.1	175.1	174.0	172.0	150.5	136.2	123.9	115.7	110.6
10°	191.4	188.4	185.3	181.2	178.1	175.1	146.4	128.0	114.7	107.5	102.4
12.5°	204.7	199.6	194.5	189.4	185.3	180.2	144.4	120.8	107.5	99.3	94.2
15°	220.2	212.9	206.8	200.7	193.5	188.4	140.3	114.7	101.4	93.2	87.1
17.5°	234.5	226.3	217.0	207.8	200.7	193.5	136.2	108.6	95.3	87.1	80.9
20°	255.0	242.7	231.4	220.2	209.9	200.7	130.0	102.4	90.1	80.9	74.8
22.5°	277.5	263.2	248.8	233.5	220.2	207.8	124.9	97.3	85.0	75.8	68.6
25°	306.1	288.7	269.3	249.9	234.5	218.0	119.8	92.2	79.9	70.6	63.4
27.5°	346.0	321.5	300.0	275.4	251.9	233.5	115.7	88.1	74.8	65.5	58.3
30°	400.4	364.5	330.7	304.1	276.5	249.9	111.6	83.0	70.6	60.4	52.2
32.5°	460.7	418.8	379.9	339.9	305.1	274.4	107.5	78.9	65.5	55.3	48.1
35°	535.5	482.2	430.0	384.0	342.0	301.0	103.4	74.8	61.4	50.1	43.0
37.5°	643.0	576.5	507.8	448.5	394.2	339.9	100.4	70.6	56.3	45.0	37.9
40°	790.4	704.5	620.5	539.6	468.9	401.4	96.3	66.5	52.2	40.9	33.8
42.5°	950.1	845.8	735.2	644.0	546.8	461.8	92.2	62.4	48.1	36.8	29.7
45°	1148.8	1018.8	884.7	760.7	642.0	532.5	88.1	58.3	43.0	32.7	25.6
47.5°	1365.9	1200.0	1048.5	892.8	751.5	620.5	83.0	55.3	38.9	28.7	22.5
50°	1589.1	1414.1	1222.5	1045.4	877.5	708.6	77.9	50.1	34.8	25.6	18.4
52.5°	1829.8	1622.9	1427.4	1207.2	1011.6	824.3	72.7	46.0	31.7	22.5	15.3
55°	2135.9	1904.5	1675.1	1428.4	1192.8	958.4	67.5	40.9	27.6	19.4	12.3
57.5°	2520.9	2246.4	1964.8	1686.4	1400.8	1134.5	63.4	35.8	23.5	16.4	10.2
60°	2884.4	2563.9	2222.9	1902.4	1579.9	1269.7	57.3	31.7	20.5	13.3	10.2
62.5°	3072.8	2707.3	2339.6	1986.4	1642.3	1317.8	51.2	26.6	17.4	11.3	9.2
65°	3026.7	2654.0	2297.7	1941.3	1604.5	1287.1	45.0	23.5	15.3	10.2	9.2
66°	2960.1	2591.6	2233.1	1894.2	1572.8	1254.3	42.0	22.5	14.3	10.2	8.2
67.5°	2814.7	2458.4	2116.4	1801.0	1485.7	1191.8	37.9	20.5	13.3	9.2	8.2
70°	2404.1	2080.6	1807.2	1526.6	1269.7	1004.5	30.7	17.4	11.3	8.2	8.2
72.5°	1591.2	1371.0	1188.8	1022.9	855.0	663.5	25.6	14.3	9.2	8.2	7.2
75°	600.0	542.7	465.9	418.8	365.5	320.5	20.5	9.2	7.2	7.2	7.2
77.5°	106.5	98.3	87.1	79.9	73.8	67.5	16.4	6.1	6.1	7.2	7.2
80°	71.6	66.5	60.4	55.3	51.2	46.0	11.3	5.1	6.1	6.1	7.2
82.5°	51.2	48.1	45.0	40.9	37.9	33.8	7.2	5.1	6.1	6.1	6.1
85°	30.7	28.7	26.6	24.6	21.5	20.5	5.1	5.1	5.1	6.1	6.1
87.5°	8.2	7.2	8.2	8.2	6.1	7.2	4.1	4.1	4.1	5.1	5.1
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°	160.7	160.7	160.7	160.7	160.7
2.5°	136.2	136.2	134.1	137.2	137.2
5°	117.8	117.8	116.7	117.8	117.8
7.5°	107.5	106.5	106.5	106.5	107.5
10°	98.3	97.3	97.3	97.3	97.3
12.5°	90.1	89.1	88.1	89.1	89.1
15°	83.0	80.9	80.9	80.9	80.9
17.5°	76.8	74.8	73.8	73.8	73.8
20°	70.6	67.5	67.5	67.5	67.5
22.5°	64.5	61.4	61.4	61.4	61.4
25°	58.3	55.3	55.3	55.3	55.3
27.5°	53.2	50.1	50.1	50.1	50.1
30°	47.1	45.0	45.0	46.0	45.0
32.5°	43.0	39.9	39.9	40.9	40.9
35°	37.9	35.8	35.8	35.8	35.8
37.5°	32.7	30.7	30.7	30.7	30.7
40°	28.7	26.6	25.6	26.6	26.6
42.5°	24.6	22.5	21.5	21.5	21.5
45°	21.5	18.4	17.4	18.4	18.4
47.5°	17.4	15.3	15.3	16.4	16.4
50°	13.3	13.3	14.3	16.4	16.4
52.5°	12.3	12.3	14.3	16.4	16.4
55°	11.3	12.3	14.3	15.3	16.4
57.5°	10.2	12.3	14.3	15.3	15.3
60°	10.2	11.3	13.3	15.3	15.3
62.5°	9.2	10.2	12.3	14.3	14.3
65°	9.2	10.2	12.3	14.3	14.3
66°	9.2	10.2	12.3	14.3	14.3
67.5°	9.2	10.2	12.3	14.3	14.3
70°	9.2	10.2	12.3	13.3	13.3
72.5°	8.2	9.2	11.3	13.3	13.3
75°	8.2	9.2	11.3	13.3	13.3
77.5°	8.2	9.2	11.3	13.3	13.3
80°	8.2	9.2	11.3	12.3	13.3
82.5°	7.2	9.2	10.2	12.3	12.3
85°	7.2	8.2	10.2	11.3	12.3
87.5°	6.1	7.2	8.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)