

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: P180592

Luminaire Tested: **ICM-F04-LED-E1-SL3-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180592
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-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4864.4 lumens
Efficiency: N/A
Efficacy: 47.6 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

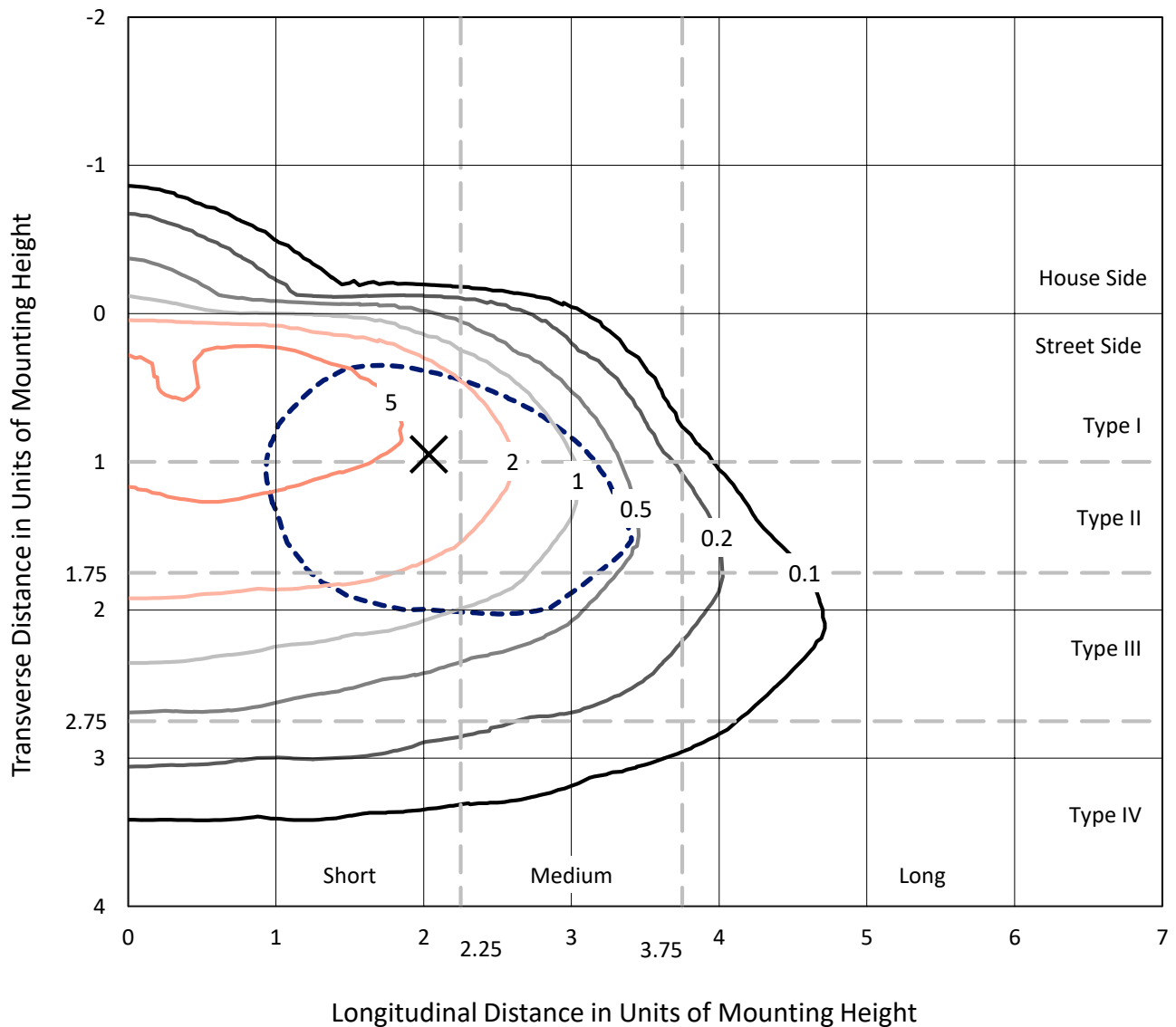


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Iso-Footcandle Lines of Horizontal Illumination

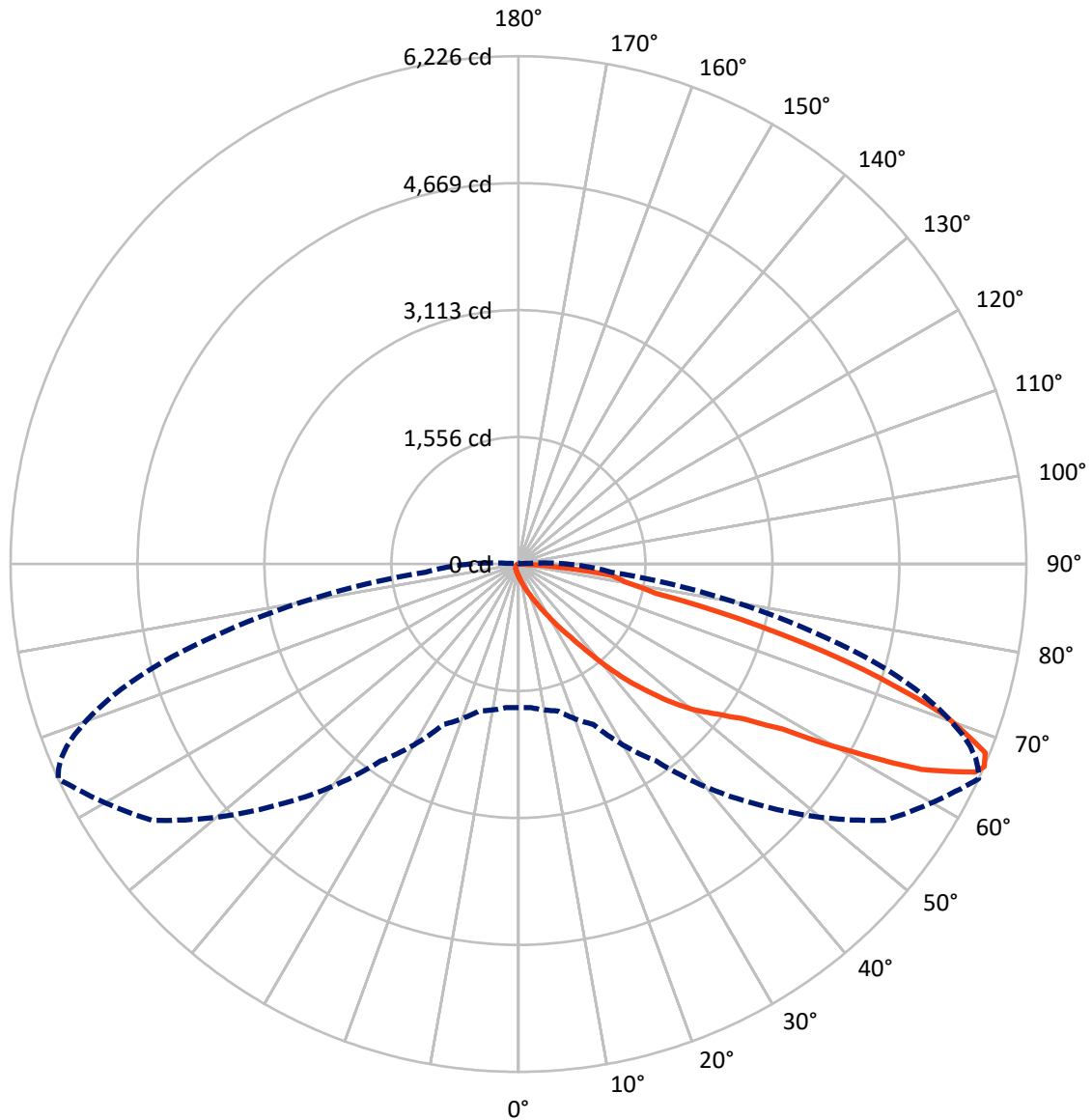
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 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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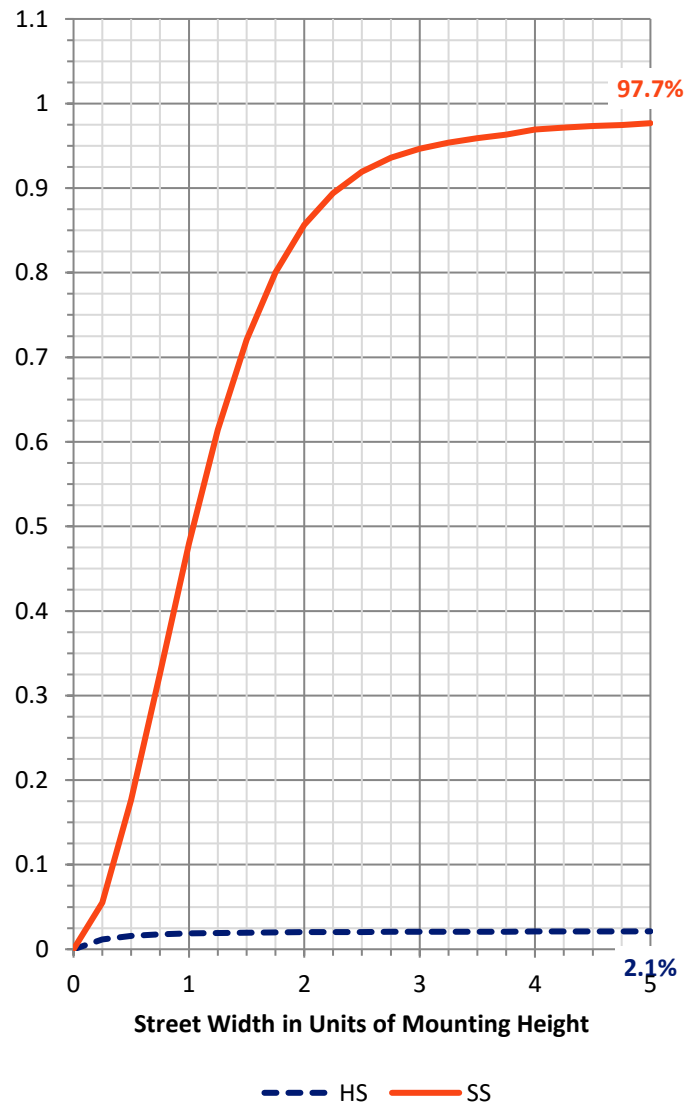
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	105.4	0.0	105.4
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	4758.9	0.0	4758.9
	% Fixture	97.8	0.0	97.8
Total	Lumens	4864.4	0.0	4864.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	0.3
10°-20°	69.7	1.4
20°-30°	150.3	3.1
30°-40°	321.0	6.6
40°-50°	709.9	14.6
50°-60°	1203.1	24.7
60°-70°	1605.4	33.0
70°-80°	707.1	14.5
80°-90°	81.5	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°	4864.4	100.0
0°-180°	4864.4	100.0



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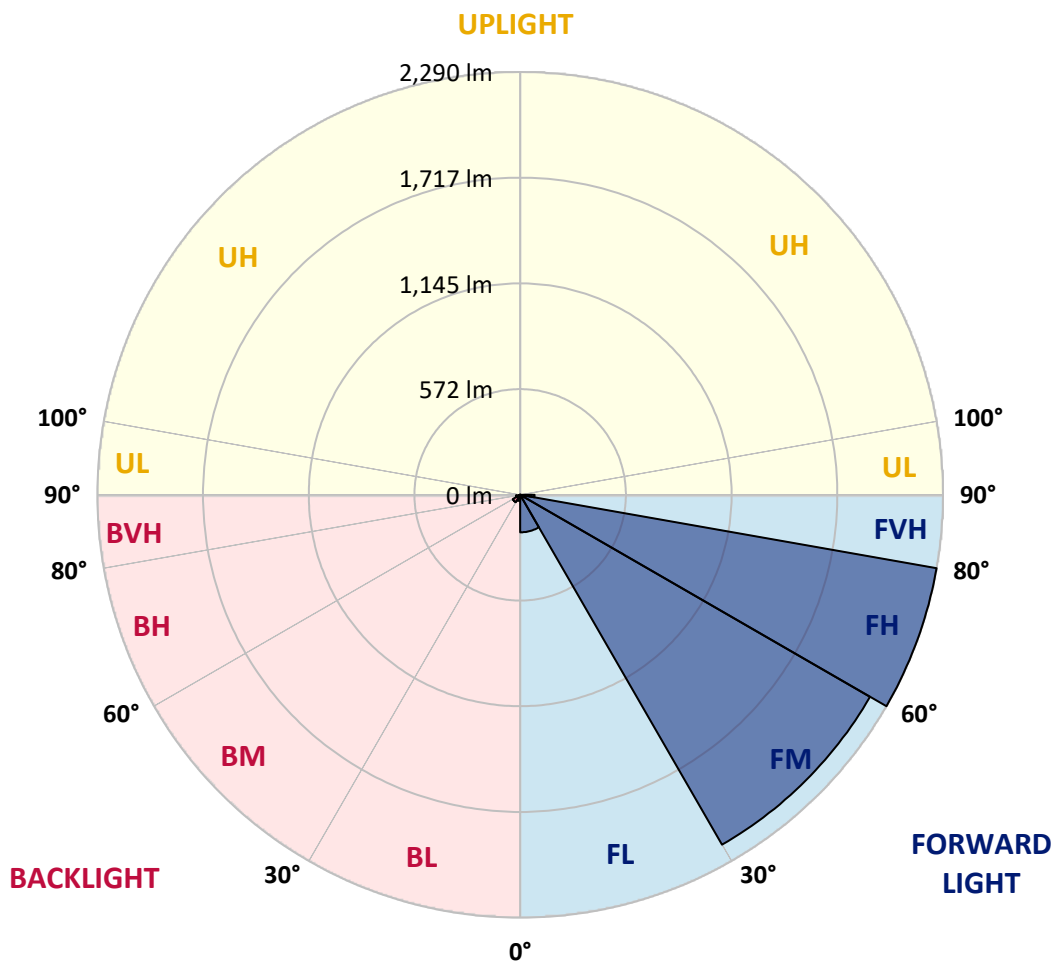
CATALOG NUMBER: ICM-F04-LED-E1-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.2	4.2			
FM	(30°-60°)	2187.7	45.0			
FH	(60°-80°)	2289.9	47.1			G2/5000
FVH	(80°-90°)	78.2	1.6			G1/100
BL	(0°-30°)	33.3	0.7	B0/110		
BM	(30°-60°)	46.3	1.0	B0/220		
BH	(60°-80°)	22.6	0.5	B0/110		G0/110
BVH	(80°-90°)	3.2	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°	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8
2.5°	185.2	184.2	180.5	180.5	174.9	171.2	166.4	161.8	161.8	160.8	159.9
5°	245.0	239.4	238.5	228.2	219.8	207.6	196.4	181.4	179.5	177.7	176.7
7.5°	311.4	310.5	302.0	290.0	273.1	250.6	228.2	203.9	200.1	198.2	194.5
10°	397.5	392.7	381.6	361.0	335.7	305.8	269.3	231.0	226.3	222.6	220.7
12.5°	479.7	471.4	464.7	438.6	406.8	362.9	318.9	263.7	260.0	255.4	247.8
15°	556.5	548.9	537.8	515.3	479.7	424.6	373.1	305.8	296.5	290.0	284.3
17.5°	616.3	611.6	598.5	573.3	534.9	486.3	424.6	348.8	341.3	332.9	322.6
20°	673.3	666.8	646.2	611.6	570.4	533.0	485.4	404.9	394.6	384.4	373.1
22.5°	727.5	721.0	687.4	630.3	586.3	570.4	553.7	468.6	452.7	444.2	433.0
25°	803.4	789.3	736.9	646.2	587.3	599.4	628.5	550.8	535.9	523.7	506.0
27.5°	905.3	886.5	804.3	669.6	591.1	631.3	714.5	650.9	635.0	620.9	601.3
30°	1020.3	1008.1	910.0	725.7	618.1	678.1	810.8	778.1	759.4	742.5	719.2
32.5°	1136.3	1119.4	1022.1	832.3	691.1	768.7	931.4	925.9	901.5	885.6	860.4
35°	1238.1	1229.8	1157.8	1007.2	857.6	927.7	1092.3	1098.9	1077.3	1060.5	1032.5
37.5°	1307.4	1307.4	1293.4	1195.2	1122.2	1174.6	1328.9	1329.9	1308.3	1270.0	1256.0
40°	1342.9	1353.2	1403.7	1422.4	1418.7	1486.1	1639.4	1622.5	1604.8	1585.1	1538.4
42.5°	1415.9	1425.2	1532.8	1661.9	1746.0	1834.8	1940.5	1934.9	1913.4	1877.9	1834.8
45°	1539.4	1551.5	1679.6	1884.4	2057.4	2183.6	2251.0	2224.9	2203.3	2169.7	2147.2
47.5°	1696.5	1719.8	1864.8	2118.2	2326.7	2535.3	2605.4	2536.2	2517.5	2491.4	2454.9
50°	1863.8	1886.2	2040.6	2330.5	2566.2	2814.9	2931.8	2814.9	2787.8	2779.4	2738.2
52.5°	2008.8	2027.5	2176.2	2494.2	2749.5	3041.2	3211.5	3057.1	3037.5	3009.4	2979.6
55°	2094.8	2109.8	2249.1	2572.7	2873.9	3245.1	3481.7	3346.2	3317.1	3305.9	3262.9
57.5°	2123.8	2138.8	2264.1	2583.0	2941.1	3431.2	3810.0	3814.6	3780.0	3739.8	3726.7
60°	2123.8	2140.7	2246.3	2557.8	3006.6	3629.5	4247.7	4637.6	4562.8	4555.3	4507.7
62.5°	2035.9	2051.8	2158.4	2480.1	3094.5	3897.0	4857.4	5545.7	5524.2	5475.6	5397.0
65°	1845.1	1854.5	1959.3	2281.9	3060.9	4142.9	5385.8	6149.8	6115.2	6019.9	5918.8
66°	1759.1	1766.6	1864.8	2168.7	2950.5	4176.6	5479.3	6225.5	6168.5	6088.1	5974.0
67.5°	1634.7	1647.8	1717.0	1958.2	2685.9	4059.7	5420.4	6172.2	6122.7	6025.4	5911.4
70°	1091.4	1082.1	1326.1	1502.9	2046.2	3307.7	4863.0	5542.0	5542.9	5497.1	5451.2
72.5°	518.0	523.7	594.8	924.9	1339.2	2209.9	3870.7	4423.5	4487.0	4404.8	4347.7
75°	372.2	380.7	423.6	565.8	798.6	1326.1	2509.1	3093.6	3095.5	2949.6	2819.6
77.5°	108.5	113.1	159.0	348.8	598.5	895.0	1441.1	1719.8	1679.6	1574.9	1476.7
80°	44.9	44.9	46.8	111.3	240.4	607.9	1008.1	1324.2	1319.5	1279.4	1221.4
82.5°	16.8	17.8	22.4	45.9	57.0	149.7	672.4	1149.3	1146.5	1089.5	1048.4
85°	1.9	1.9	5.6	19.6	21.5	28.1	134.7	506.9	504.1	506.9	444.2
87.5°	0.0	0.0	0.9	1.9	2.8	3.7	5.6	19.6	21.5	20.6	18.7
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°	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8
2.5°	159.9	158.0	158.0	157.1	157.1	157.1	156.2	155.3	155.3	154.3	153.4
5°	174.9	173.0	172.1	170.2	169.3	168.4	166.4	165.5	163.6	162.7	161.8
7.5°	192.7	188.9	188.0	185.2	182.3	180.5	178.6	175.8	174.0	170.2	169.3
10°	215.1	210.4	206.7	203.0	200.1	195.4	192.7	188.9	185.2	182.3	179.5
12.5°	244.1	237.6	231.9	228.2	221.7	216.0	210.4	207.6	200.1	196.4	191.7
15°	275.9	268.4	261.9	254.3	249.7	240.4	232.8	224.5	220.7	214.1	206.7
17.5°	317.0	304.8	294.6	287.1	277.8	268.4	260.0	251.5	240.4	232.8	223.5
20°	361.0	350.7	336.7	323.5	312.4	301.1	288.9	277.8	267.4	255.4	244.1
22.5°	417.1	402.1	385.3	372.2	357.2	345.1	328.3	313.3	296.5	280.6	267.4
25°	488.2	468.6	452.7	434.0	416.2	397.5	376.8	358.1	336.7	321.7	299.3
27.5°	576.1	557.4	535.9	511.5	493.8	465.8	438.6	415.3	390.0	366.6	341.3
30°	688.3	661.2	638.7	615.4	579.8	552.7	520.9	489.1	454.5	431.2	392.7
32.5°	823.0	794.0	760.3	726.6	694.0	655.5	616.3	577.0	538.7	495.6	456.4
35°	987.5	952.9	914.6	878.1	827.6	786.5	736.9	682.7	639.6	590.1	540.6
37.5°	1205.5	1148.4	1114.7	1076.4	1008.1	952.0	896.8	842.6	766.9	714.5	644.4
40°	1478.5	1444.8	1389.7	1328.0	1266.2	1192.4	1117.6	1045.6	957.7	884.7	803.4
42.5°	1799.3	1749.8	1693.6	1604.8	1542.1	1455.2	1370.1	1274.7	1167.1	1073.6	978.2
45°	2100.5	2041.5	1998.5	1909.7	1844.2	1741.3	1638.4	1537.5	1413.0	1292.5	1182.1
47.5°	2425.9	2377.2	2306.2	2234.2	2167.7	2051.8	1940.5	1818.1	1687.1	1544.0	1400.9
50°	2712.0	2673.7	2625.0	2538.2	2464.2	2367.0	2236.0	2102.3	1936.8	1794.6	1631.9
52.5°	2955.2	2925.3	2857.0	2795.3	2728.9	2637.2	2520.3	2392.2	2213.6	2057.4	1872.3
55°	3242.3	3220.8	3160.9	3122.6	3063.6	2975.7	2866.3	2747.6	2558.7	2388.5	2179.0
57.5°	3712.7	3695.8	3643.5	3627.7	3569.6	3493.0	3358.3	3231.1	3010.3	2799.0	2559.6
60°	4491.7	4458.1	4381.3	4342.1	4219.6	4116.7	3941.8	3766.9	3500.4	3231.1	2943.1
62.5°	5325.9	5231.5	5085.6	4960.2	4786.4	4607.7	4373.9	4106.4	3794.1	3474.3	3143.2
65°	5775.8	5614.9	5430.6	5231.5	5006.1	4743.3	4448.7	4127.9	3792.2	3454.6	3104.9
66°	5827.2	5645.7	5450.3	5228.7	4978.0	4698.4	4399.1	4062.4	3713.6	3384.5	3034.7
67.5°	5762.6	5572.8	5366.2	5120.2	4849.0	4559.1	4244.9	3895.1	3559.4	3225.5	2885.0
70°	5310.9	5122.1	4937.8	4678.7	4389.8	4098.0	3800.6	3409.7	3091.7	2785.0	2482.0
72.5°	4241.0	4113.0	3930.6	3709.0	3427.5	3085.2	2837.4	2487.6	2211.7	1914.3	1679.6
75°	2650.3	2469.9	2244.5	1962.1	1746.9	1469.2	1324.2	1058.6	901.5	764.1	631.3
77.5°	1355.1	1219.4	1061.4	902.4	750.1	598.5	462.9	327.4	220.7	153.4	114.0
80°	1119.4	999.7	868.7	723.8	589.2	457.3	329.2	224.5	143.1	93.5	72.9
82.5°	924.9	823.9	707.0	572.4	455.4	359.1	249.7	162.7	101.0	65.5	51.4
85°	393.7	357.2	275.9	218.8	164.6	121.6	85.1	57.0	40.2	32.7	30.0
87.5°	16.8	18.7	17.8	14.0	10.3	10.3	9.4	7.4	7.4	7.4	7.4
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8	146.8
2.5°	153.4	152.5	151.5	151.5	150.6	149.7	144.0	139.3	133.8	130.0	126.2
5°	159.9	159.0	157.1	156.2	154.3	153.4	141.2	130.9	122.5	116.0	111.3
7.5°	166.4	165.5	162.7	159.9	159.0	157.1	137.5	124.4	113.1	105.7	101.0
10°	174.9	172.1	169.3	165.5	162.7	159.9	133.8	116.9	104.7	98.2	93.5
12.5°	187.1	182.3	177.7	173.0	169.3	164.6	131.9	110.3	98.2	90.7	86.0
15°	201.0	194.5	188.9	183.3	176.7	172.1	128.1	104.7	92.6	85.1	79.5
17.5°	214.1	206.7	198.2	189.9	183.3	176.7	124.4	99.2	87.0	79.5	73.9
20°	232.8	221.7	211.4	201.0	191.7	183.3	118.8	93.5	82.3	73.9	68.3
22.5°	253.4	240.4	227.3	213.2	201.0	189.9	114.0	88.8	77.6	69.2	62.7
25°	279.6	263.7	246.0	228.2	214.1	199.2	109.4	84.2	72.9	64.6	58.0
27.5°	316.1	293.7	274.0	251.5	230.0	213.2	105.7	80.5	68.3	59.8	53.3
30°	365.7	332.9	302.0	277.8	252.5	228.2	102.0	75.7	64.6	55.2	47.7
32.5°	420.8	382.5	347.0	310.5	278.7	250.6	98.2	72.0	59.8	50.5	44.0
35°	489.1	440.5	392.7	350.7	312.4	275.0	94.4	68.3	56.1	45.9	39.3
37.5°	587.3	526.5	463.8	409.6	360.0	310.5	91.6	64.6	51.4	41.1	34.6
40°	722.0	643.4	566.7	492.8	428.3	366.6	87.9	60.7	47.7	37.4	30.9
42.5°	867.8	772.5	671.4	588.2	499.4	421.8	84.2	57.0	44.0	33.7	27.2
45°	1049.3	930.5	808.0	694.9	586.3	486.3	80.5	53.3	39.3	30.0	23.3
47.5°	1247.5	1096.0	957.7	815.4	686.4	566.7	75.7	50.5	35.5	26.1	20.6
50°	1451.5	1291.5	1116.7	954.8	801.5	647.2	71.1	45.9	31.8	23.3	16.8
52.5°	1671.2	1482.2	1303.6	1102.6	924.0	752.8	66.4	42.0	29.0	20.6	14.0
55°	1950.8	1739.5	1530.0	1304.6	1089.5	875.4	61.8	37.4	25.2	17.8	11.3
57.5°	2302.4	2051.8	1794.6	1540.3	1279.4	1036.2	58.0	32.7	21.5	15.0	9.4
60°	2634.4	2341.7	2030.3	1737.6	1443.0	1159.6	52.4	29.0	18.7	12.2	9.4
62.5°	2806.5	2472.7	2136.9	1814.2	1500.0	1203.6	46.8	24.3	15.9	10.3	8.4
65°	2764.4	2424.0	2098.5	1773.1	1465.4	1175.5	41.1	21.5	14.0	9.4	8.4
66°	2703.6	2367.0	2039.6	1730.2	1436.5	1145.6	38.3	20.6	13.1	9.4	7.4
67.5°	2570.8	2245.4	1933.0	1645.0	1356.9	1088.6	34.6	18.7	12.2	8.4	7.4
70°	2195.8	1900.3	1650.6	1394.3	1159.6	917.4	28.1	15.9	10.3	7.4	7.4
72.5°	1453.3	1252.2	1085.8	934.2	780.8	606.1	23.3	13.1	8.4	7.4	6.5
75°	548.0	495.6	425.5	382.5	333.9	292.7	18.7	8.4	6.5	6.5	6.5
77.5°	97.3	89.8	79.5	72.9	67.3	61.8	15.0	5.6	5.6	6.5	6.5
80°	65.5	60.7	55.2	50.5	46.8	42.0	10.3	4.7	5.6	5.6	6.5
82.5°	46.8	44.0	41.1	37.4	34.6	30.9	6.5	4.7	5.6	5.6	5.6
85°	28.1	26.1	24.3	22.4	19.6	18.7	4.7	4.7	4.7	5.6	5.6
87.5°	7.4	6.5	7.4	7.4	5.6	6.5	3.7	3.7	3.7	4.7	4.7
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°	146.8	146.8	146.8	146.8	146.8
2.5°	124.4	124.4	122.5	125.3	125.3
5°	107.5	107.5	106.6	107.5	107.5
7.5°	98.2	97.3	97.3	97.3	98.2
10°	89.8	88.8	88.8	88.8	88.8
12.5°	82.3	81.4	80.5	81.4	81.4
15°	75.7	73.9	73.9	73.9	73.9
17.5°	70.1	68.3	67.3	67.3	67.3
20°	64.6	61.8	61.8	61.8	61.8
22.5°	58.9	56.1	56.1	56.1	56.1
25°	53.3	50.5	50.5	50.5	50.5
27.5°	48.7	45.9	45.9	45.9	45.9
30°	43.0	41.1	41.1	42.0	41.1
32.5°	39.3	36.5	36.5	37.4	37.4
35°	34.6	32.7	32.7	32.7	32.7
37.5°	30.0	28.1	28.1	28.1	28.1
40°	26.1	24.3	23.3	24.3	24.3
42.5°	22.4	20.6	19.6	19.6	19.6
45°	19.6	16.8	15.9	16.8	16.8
47.5°	15.9	14.0	14.0	15.0	15.0
50°	12.2	12.2	13.1	15.0	15.0
52.5°	11.3	11.3	13.1	15.0	15.0
55°	10.3	11.3	13.1	14.0	15.0
57.5°	9.4	11.3	13.1	14.0	14.0
60°	9.4	10.3	12.2	14.0	14.0
62.5°	8.4	9.4	11.3	13.1	13.1
65°	8.4	9.4	11.3	13.1	13.1
66°	8.4	9.4	11.3	13.1	13.1
67.5°	8.4	9.4	11.3	13.1	13.1
70°	8.4	9.4	11.3	12.2	12.2
72.5°	7.4	8.4	10.3	12.2	12.2
75°	7.4	8.4	10.3	12.2	12.2
77.5°	7.4	8.4	10.3	12.2	12.2
80°	7.4	8.4	10.3	11.3	12.2
82.5°	6.5	8.4	9.4	11.3	11.3
85°	6.5	7.4	9.4	10.3	11.3
87.5°	5.6	6.5	7.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)