

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: P180367

Luminaire Tested: **ICM-E02-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180367
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 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: 3115.7 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

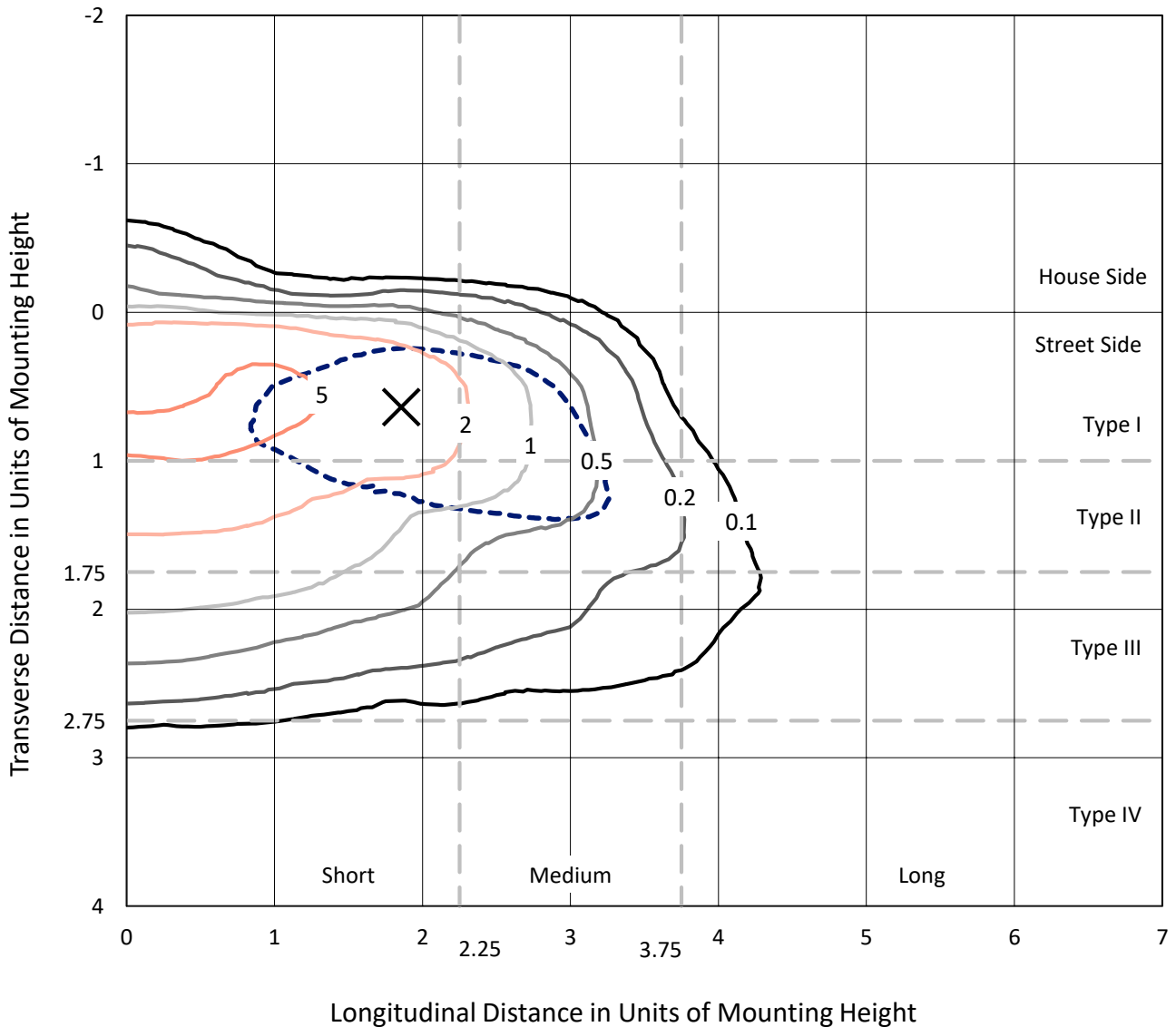
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

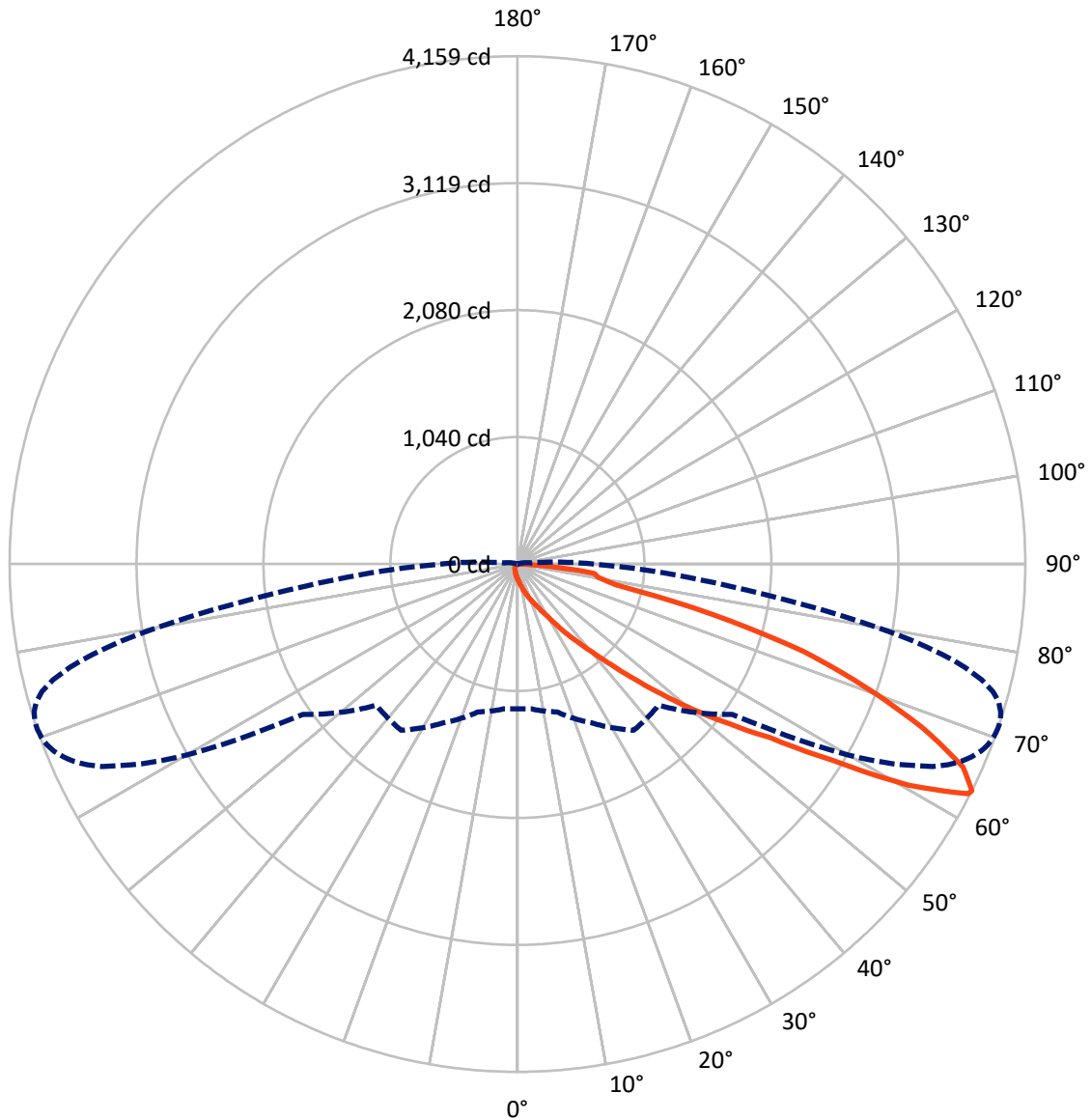
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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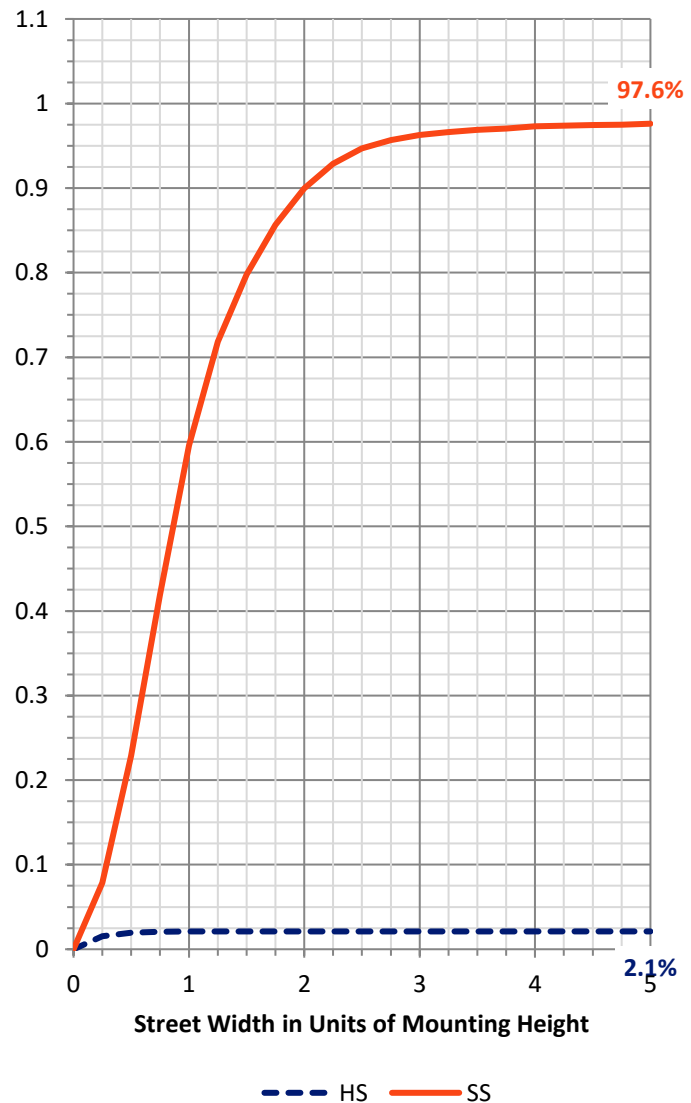
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	66.2	0.0	66.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3049.6	0.0	3049.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	3115.7	0.0	3115.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.4
10°-20°	51.2	1.6
20°-30°	104.1	3.3
30°-40°	254.2	8.2
40°-50°	568.6	18.2
50°-60°	799.5	25.7
60°-70°	940.1	30.2
70°-80°	339.5	10.9
80°-90°	45.4	1.5
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°	3115.7	100.0
0°-180°	3115.7	100.0



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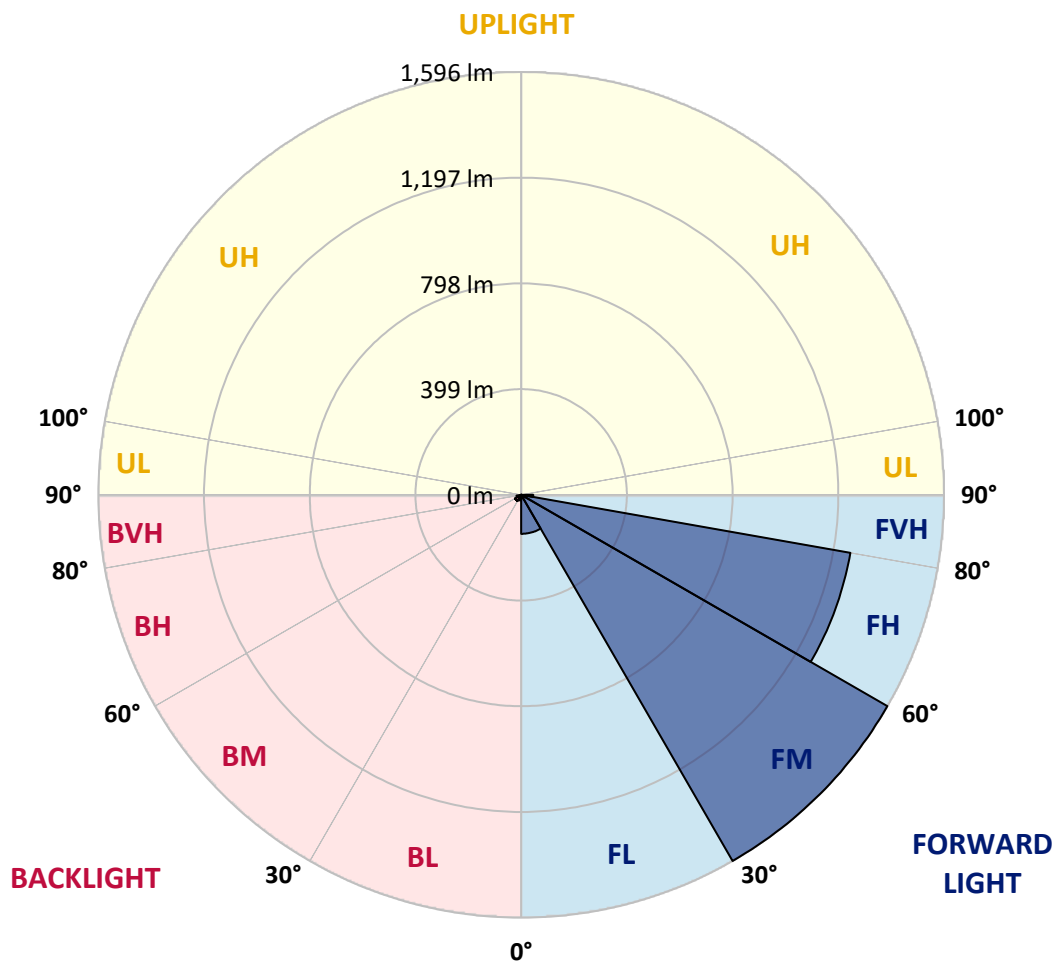
CATALOG NUMBER: ICM-E02-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.2	4.7			
FM	(30°-60°)	1595.6	51.2			
FH	(60°-80°)	1261.4	40.5			G1/1800
FVH	(80°-90°)	45.3	1.5			G1/100
BL	(0°-30°)	21.3	0.7	B0/110		
BM	(30°-60°)	26.7	0.9	B0/220		
BH	(60°-80°)	18.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5
2.5°	156.4	158.0	156.9	154.0	150.7	146.1	142.1	142.1	141.6	139.9	140.5
5°	205.0	205.6	203.4	196.6	190.3	180.7	170.0	168.8	167.6	166.0	165.4
7.5°	252.7	254.9	252.7	245.3	232.8	218.0	201.1	199.4	196.0	196.0	193.7
10°	301.3	301.3	299.1	290.6	279.3	258.3	236.7	234.0	230.0	228.8	225.4
12.5°	335.9	335.9	334.8	330.2	321.1	302.5	276.4	273.6	268.5	266.8	262.8
15°	349.5	349.5	350.0	354.0	354.6	346.0	318.9	316.7	311.5	307.0	305.3
17.5°	358.0	357.4	357.4	363.1	373.3	379.0	361.4	359.1	353.5	351.2	345.5
20°	376.7	375.5	372.1	372.1	381.8	401.6	401.6	401.0	394.8	393.1	390.2
22.5°	404.5	403.3	393.1	384.6	389.1	414.0	437.3	436.2	433.9	431.6	430.0
25°	449.8	445.8	428.2	403.3	399.4	426.0	464.5	467.3	469.0	469.0	470.1
27.5°	518.2	513.2	482.0	435.5	418.0	445.2	494.5	500.2	505.2	506.4	511.4
30°	613.4	604.4	559.6	491.6	451.4	473.5	538.7	544.9	552.3	554.5	562.4
32.5°	769.8	764.7	721.6	619.6	533.6	529.0	600.4	608.4	618.0	622.0	631.5
35°	1007.6	1008.8	973.7	882.0	763.0	700.7	710.9	717.7	721.0	732.9	738.1
37.5°	1169.1	1171.9	1179.8	1143.6	1058.6	995.2	915.4	922.7	905.1	906.8	907.4
40°	1257.5	1266.5	1312.9	1348.1	1341.3	1304.5	1240.5	1244.5	1211.5	1204.2	1168.6
42.5°	1316.4	1328.3	1402.4	1511.2	1566.7	1600.1	1585.4	1583.7	1558.2	1548.6	1518.6
45°	1353.2	1363.9	1457.4	1617.7	1745.7	1843.2	1883.4	1887.9	1866.3	1856.8	1831.8
47.5°	1351.5	1363.9	1464.2	1657.3	1846.0	2001.8	2115.0	2120.7	2133.7	2125.2	2126.9
50°	1276.8	1288.6	1389.4	1590.0	1816.5	2074.2	2281.6	2299.6	2320.7	2334.8	2341.6
52.5°	1186.1	1194.6	1284.1	1474.4	1690.8	2044.2	2380.1	2411.3	2442.4	2469.0	2487.7
55°	1152.7	1162.3	1232.6	1390.6	1590.0	1918.4	2426.0	2471.8	2516.0	2559.6	2595.4
57.5°	1170.2	1179.3	1229.7	1350.9	1529.9	1786.0	2439.0	2510.3	2582.9	2653.7	2723.9
60°	1234.8	1244.5	1287.4	1387.7	1514.1	1709.5	2388.0	2506.4	2627.1	2750.5	2866.6
62.5°	1209.3	1213.3	1276.8	1452.3	1627.4	1644.3	2202.8	2368.2	2552.3	2742.6	2930.1
63°	1184.9	1189.5	1254.1	1434.7	1661.9	1634.7	2145.6	2320.1	2514.3	2719.4	2923.3
65°	1074.5	1075.1	1124.4	1267.1	1623.4	1651.7	1890.7	2057.2	2280.4	2526.2	2783.9
67.5°	802.1	798.1	845.7	954.4	1274.4	1652.3	1622.8	1716.3	1871.5	2089.5	2320.7
70°	284.4	278.1	355.2	505.8	794.1	1351.5	1394.5	1400.8	1443.8	1561.6	1706.6
72.5°	92.4	94.0	113.3	185.2	365.9	909.7	1262.5	1243.3	1232.0	1231.4	1250.7
75°	36.8	37.4	45.3	82.1	164.3	438.4	1105.7	1116.4	1120.4	1126.1	1132.3
77.5°	17.6	19.3	25.5	45.9	81.6	216.9	791.3	882.5	934.6	974.8	999.2
80°	6.2	7.3	14.1	28.3	38.0	99.7	416.9	503.0	579.4	678.1	763.0
82.5°	0.0	0.0	2.8	19.8	20.9	40.2	171.1	200.6	229.4	297.4	381.8
85°	0.0	0.0	0.0	5.7	6.2	6.8	57.8	69.7	78.1	91.2	105.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	3.4	8.5	13.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5
2.5°	139.3	138.8	138.8	137.7	137.1	135.9	135.3	133.7	133.1	133.1	133.1
5°	164.8	162.6	161.4	158.6	156.9	156.4	153.5	152.4	150.7	151.3	148.4
7.5°	193.1	189.2	187.4	183.5	182.4	178.4	177.3	174.4	172.7	169.4	168.2
10°	224.3	219.2	216.4	210.1	208.5	205.6	202.2	198.8	196.0	192.6	190.9
12.5°	260.0	255.4	253.2	244.7	240.7	236.7	232.2	227.7	223.2	220.4	216.4
15°	301.9	294.5	292.3	284.4	277.6	272.5	266.2	260.6	257.1	251.5	247.5
17.5°	343.3	335.9	334.2	322.3	314.9	311.5	304.7	297.4	291.2	285.5	279.3
20°	384.6	379.5	375.0	363.6	355.7	350.0	341.0	333.6	328.6	320.6	312.7
22.5°	426.0	420.8	417.5	405.6	398.2	390.2	382.3	374.4	367.1	357.4	348.4
25°	468.5	465.0	463.4	452.6	445.8	438.4	430.5	421.4	412.4	401.6	392.0
27.5°	512.7	513.8	510.3	508.1	500.7	495.6	483.2	476.9	470.1	457.1	445.2
30°	568.7	572.1	571.0	572.7	568.1	564.7	555.1	547.2	539.3	526.8	513.2
32.5°	639.4	644.0	646.3	652.6	650.2	649.1	646.3	635.0	629.3	607.7	602.1
35°	748.8	746.5	756.2	761.3	759.0	757.9	754.5	748.3	741.5	726.1	712.0
37.5°	891.0	893.2	896.7	886.4	879.6	879.1	868.9	862.7	853.0	836.0	819.1
40°	1151.5	1137.4	1121.5	1078.4	1059.8	1049.0	1019.0	1010.5	994.1	970.9	953.3
42.5°	1490.2	1476.1	1428.5	1356.6	1318.1	1264.8	1240.5	1210.4	1187.3	1149.3	1128.8
45°	1826.7	1786.0	1780.3	1696.5	1648.8	1578.6	1535.0	1484.6	1431.9	1382.1	1345.8
47.5°	2110.5	2101.4	2073.7	2022.7	1978.5	1919.6	1863.5	1786.0	1731.5	1660.8	1595.6
50°	2337.6	2337.0	2326.9	2297.4	2260.6	2213.0	2163.7	2098.1	2036.3	1949.6	1879.9
52.5°	2507.6	2516.6	2520.0	2511.0	2496.8	2454.9	2430.0	2375.0	2322.9	2249.2	2174.0
55°	2632.2	2665.6	2682.6	2701.9	2697.9	2683.2	2682.0	2646.3	2622.5	2564.2	2511.0
57.5°	2786.2	2841.1	2893.9	2987.3	2990.7	3023.6	3040.6	3057.5	3062.1	3038.8	3021.3
60°	2982.3	3094.3	3194.1	3389.5	3440.5	3520.9	3573.0	3629.6	3677.8	3681.8	3680.6
62.5°	3120.4	3293.1	3454.1	3744.0	3843.2	3936.0	4005.7	4060.7	4094.1	4128.1	4143.9
63°	3124.4	3313.6	3484.7	3783.7	3887.9	3976.3	4042.5	4093.5	4128.7	4149.0	4159.3
65°	3028.7	3258.1	3462.0	3759.9	3857.9	3946.8	3981.4	4014.8	4031.8	4039.7	4009.7
67.5°	2567.0	2791.4	3029.2	3362.3	3446.1	3552.6	3581.0	3597.9	3605.9	3604.1	3578.6
70°	1919.6	2107.6	2372.2	2752.9	2863.8	2968.0	3032.7	3060.4	3069.4	3066.6	3028.7
72.5°	1340.2	1450.6	1668.7	2092.4	2243.6	2377.3	2457.1	2498.5	2507.0	2490.0	2454.9
75°	1125.5	1131.2	1180.4	1412.1	1553.7	1696.5	1786.5	1812.6	1795.5	1744.0	1654.5
77.5°	1004.8	1017.3	1017.3	1051.8	1079.6	1119.3	1127.7	1064.3	990.7	895.5	818.5
80°	842.8	886.4	917.0	942.5	945.4	937.4	916.5	880.7	824.1	751.6	671.2
82.5°	512.0	598.1	633.3	764.7	829.2	872.8	869.5	821.9	778.8	703.5	635.0
85°	129.1	139.3	151.3	196.6	220.4	269.0	299.6	313.8	318.9	292.8	265.1
87.5°	12.5	8.5	14.1	10.8	15.3	11.3	15.3	14.1	17.6	18.7	20.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5
2.5°	132.0	131.4	130.9	130.2	129.7	129.1	128.0	128.0	126.9	126.3	125.8
5°	146.7	145.6	145.0	143.9	142.1	141.0	139.3	137.1	135.3	134.8	133.7
7.5°	165.4	162.6	161.4	159.7	157.5	154.0	151.8	150.1	147.3	145.6	142.1
10°	186.3	183.5	180.1	176.7	173.3	169.4	166.5	164.3	159.7	157.5	153.5
12.5°	212.9	207.9	203.9	199.4	194.9	190.3	186.9	180.1	176.2	171.1	167.6
15°	240.2	235.6	231.1	225.4	218.6	211.3	207.9	201.7	196.6	188.7	184.1
17.5°	273.0	264.6	257.7	250.9	244.7	237.9	231.1	221.5	214.1	207.4	198.2
20°	305.3	295.1	287.7	278.7	269.6	258.9	250.9	244.1	234.0	224.8	215.3
22.5°	339.8	329.7	317.8	308.7	296.3	287.7	277.0	265.7	255.4	243.5	231.6
25°	381.8	371.0	357.4	345.5	331.4	319.4	306.4	293.4	280.9	267.4	252.1
27.5°	433.3	422.0	407.3	393.1	374.4	359.7	347.3	329.7	313.8	296.8	279.3
30°	498.4	486.0	467.9	447.4	428.7	412.4	394.8	371.5	354.0	333.6	311.0
32.5°	583.4	568.7	544.4	525.1	501.9	480.3	456.0	432.7	407.8	381.2	355.2
35°	690.4	676.8	648.6	620.2	594.7	569.2	538.7	512.0	476.9	444.7	411.3
37.5°	801.5	777.1	751.1	720.5	688.7	658.1	620.8	584.0	543.7	508.7	466.7
40°	928.4	898.9	877.4	844.6	799.8	756.2	721.6	675.7	625.3	578.3	529.0
42.5°	1102.2	1069.4	1030.9	981.0	948.7	897.8	853.0	798.6	732.4	679.7	620.2
45°	1303.4	1258.6	1221.2	1173.0	1134.0	1070.5	1018.4	946.0	879.6	810.5	738.1
47.5°	1532.8	1477.2	1422.9	1375.3	1312.9	1250.7	1184.4	1107.4	1022.4	946.5	860.4
50°	1796.1	1717.4	1642.1	1580.8	1495.4	1423.5	1351.5	1264.8	1170.8	1083.5	985.6
52.5°	2088.9	1997.8	1898.1	1804.0	1704.9	1612.6	1526.0	1426.2	1321.5	1215.0	1105.7
55°	2442.4	2373.9	2256.7	2137.1	2004.6	1881.1	1769.5	1646.1	1518.6	1378.7	1263.7
57.5°	2995.8	2962.3	2864.4	2744.9	2572.1	2422.1	2232.9	2081.6	1896.9	1704.4	1555.9
60°	3745.8	3704.4	3649.4	3552.6	3415.6	3211.6	3003.2	2768.1	2487.2	2220.4	1967.2
62.5°	4145.6	4130.9	4086.2	4019.4	3891.3	3730.4	3520.3	3262.1	2944.9	2620.9	2298.0
63°	4157.5	4138.8	4100.3	4032.4	3919.7	3763.8	3557.7	3306.8	2996.4	2666.2	2336.5
65°	3996.7	3989.3	3950.3	3876.0	3799.0	3680.0	3520.3	3304.5	3043.9	2731.8	2403.9
67.5°	3544.7	3522.6	3462.5	3439.9	3386.1	3303.4	3181.6	3033.2	2846.8	2601.6	2318.3
70°	2998.1	2965.2	2889.9	2849.7	2783.9	2731.8	2657.7	2551.7	2436.8	2265.7	2054.4
72.5°	2418.6	2350.6	2281.6	2176.8	2085.0	1992.1	1910.0	1835.2	1708.9	1639.8	1479.5
75°	1570.7	1447.2	1328.8	1170.2	1027.4	901.2	778.2	715.9	586.2	533.6	458.2
77.5°	745.4	676.3	583.4	511.4	419.7	342.7	279.8	210.1	164.8	129.1	98.5
80°	601.6	543.2	487.2	422.0	352.8	281.5	215.8	161.4	114.4	79.3	56.1
82.5°	536.4	472.9	403.8	359.1	312.1	255.4	209.6	171.1	126.3	92.4	62.9
85°	208.5	175.6	135.3	110.4	86.1	70.8	64.0	44.2	34.5	27.2	20.9
87.5°	18.1	14.7	11.9	7.9	8.5	4.6	5.1	3.4	2.8	2.8	2.2
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5	119.5
2.5°	125.2	124.7	124.0	122.9	122.9	121.8	121.2	120.7	117.9	111.6	106.5
5°	131.4	130.2	129.1	127.4	126.3	124.7	123.4	121.8	115.5	103.6	93.5
7.5°	140.5	138.2	136.5	133.1	131.4	129.1	127.4	124.7	114.4	96.3	82.1
10°	151.3	147.3	144.5	140.5	137.1	134.2	131.4	127.4	113.3	88.4	71.9
12.5°	164.3	159.7	154.0	149.5	145.0	141.0	137.1	132.0	111.6	81.6	64.0
15°	177.3	170.5	166.5	160.3	154.0	148.4	142.7	138.2	112.2	74.2	57.2
17.5°	192.0	185.2	176.7	170.0	163.2	155.7	148.9	139.9	109.3	68.6	52.1
20°	206.1	196.6	188.7	180.1	170.5	161.4	152.9	145.0	107.1	62.9	47.5
22.5°	221.5	210.1	199.9	189.2	177.3	167.1	156.9	146.7	103.1	57.8	43.6
25°	240.2	227.2	212.4	199.4	186.9	174.4	161.4	148.9	99.2	53.2	40.7
27.5°	262.8	245.9	231.1	214.7	197.1	181.2	167.1	153.5	95.2	49.9	38.0
30°	291.7	271.9	250.9	230.0	211.3	193.1	173.3	156.4	91.2	46.4	35.2
32.5°	330.2	305.3	279.8	255.4	230.5	207.4	186.3	164.3	88.9	43.6	32.3
35°	381.2	348.9	317.8	287.2	257.1	228.8	201.7	176.7	88.9	40.2	28.9
37.5°	429.3	392.0	352.3	314.3	278.7	245.9	213.6	183.5	84.4	37.4	26.0
40°	481.5	436.7	390.2	345.5	302.5	261.7	224.8	190.3	80.5	34.0	23.3
42.5°	561.3	504.7	444.1	392.0	340.4	290.0	244.1	203.4	75.3	30.6	20.4
45°	666.1	594.1	522.8	459.4	393.7	331.9	277.6	227.2	74.2	27.7	17.6
47.5°	778.2	693.3	609.5	528.5	451.4	379.5	314.3	253.8	74.2	24.9	15.3
50°	889.9	783.4	693.9	599.8	513.2	428.2	350.6	281.5	74.8	22.7	12.5
52.5°	990.7	876.8	776.6	667.8	572.1	473.5	389.1	308.7	73.7	19.8	10.2
55°	1130.6	996.9	880.7	760.7	648.6	537.5	441.8	349.5	74.2	17.6	8.5
57.5°	1388.3	1231.4	1091.5	934.1	804.8	661.6	545.5	433.3	81.0	14.7	6.2
60°	1758.2	1554.2	1357.7	1165.7	1001.4	831.0	680.3	548.3	95.2	11.9	4.6
62.5°	2006.8	1740.0	1505.6	1293.7	1102.8	924.4	760.1	610.1	104.7	9.7	2.8
63°	2032.3	1756.5	1520.8	1302.2	1107.4	928.9	763.5	614.6	105.4	9.0	2.8
65°	2080.5	1784.8	1529.3	1303.9	1102.8	922.7	761.3	614.0	106.5	7.3	2.2
67.5°	2025.5	1741.2	1480.1	1255.2	1063.2	885.9	732.9	591.4	106.0	5.1	1.7
70°	1811.5	1575.8	1346.4	1136.8	962.3	802.1	667.3	539.3	97.4	3.4	1.1
72.5°	1330.0	1169.7	991.8	840.6	725.0	602.1	513.8	405.0	75.3	2.2	0.6
75°	394.2	359.1	301.9	266.2	235.1	194.3	172.7	134.8	38.5	1.1	0.0
77.5°	78.7	71.3	64.0	58.3	55.0	47.0	44.7	36.8	15.8	0.6	0.0
80°	41.3	34.0	28.9	25.5	22.0	18.1	15.3	12.5	2.8	0.0	0.0
82.5°	39.6	26.6	19.3	15.8	13.6	10.8	8.5	6.2	1.7	0.0	0.0
85°	14.7	11.3	8.5	6.8	5.7	5.1	4.0	3.4	0.0	0.0	0.0
87.5°	2.2	1.7	1.7	1.1	1.1	0.6	0.6	0.6	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	119.5	119.5	119.5	119.5	119.5	119.5	119.5
2.5°	101.4	96.8	94.6	91.7	91.7	91.2	92.4
5°	84.4	78.1	73.7	70.2	70.8	69.1	69.7
7.5°	71.3	65.1	61.2	58.9	58.3	57.8	57.8
10°	61.8	56.1	52.7	51.0	50.4	50.4	50.4
12.5°	55.0	49.3	46.4	45.3	45.3	44.7	44.7
15°	49.3	44.7	42.0	40.7	40.7	40.2	40.7
17.5°	44.7	40.2	38.0	36.8	36.8	36.3	36.3
20°	40.7	36.8	34.5	32.8	32.8	32.3	32.8
22.5°	37.4	33.4	30.6	29.5	28.9	28.3	28.9
25°	34.0	30.0	27.2	25.5	24.9	24.9	24.4
27.5°	31.2	27.2	23.8	22.0	21.5	21.5	20.9
30°	28.3	23.8	20.4	18.7	18.1	18.1	18.1
32.5°	25.5	20.4	17.6	15.8	15.3	15.3	15.3
35°	22.7	17.6	14.7	13.0	12.5	12.5	12.5
37.5°	19.3	14.7	11.3	10.2	9.7	9.0	9.0
40°	16.5	11.3	8.5	7.3	6.2	6.2	6.2
42.5°	13.6	9.0	6.2	4.6	4.0	3.4	4.0
45°	11.3	6.8	4.0	2.2	1.7	1.7	1.7
47.5°	9.0	4.6	1.7	0.6	0.6	0.6	0.6
50°	6.8	2.8	0.6	0.0	0.0	0.6	0.6
52.5°	5.1	1.7	0.0	0.0	0.0	0.0	0.0
55°	2.8	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)