

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: P180428

Luminaire Tested: **ICS-E02-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180428
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: ICS-E02-LED-E1-SL2-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3300.6 lumens
Efficiency: N/A
Efficacy: 63.4 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

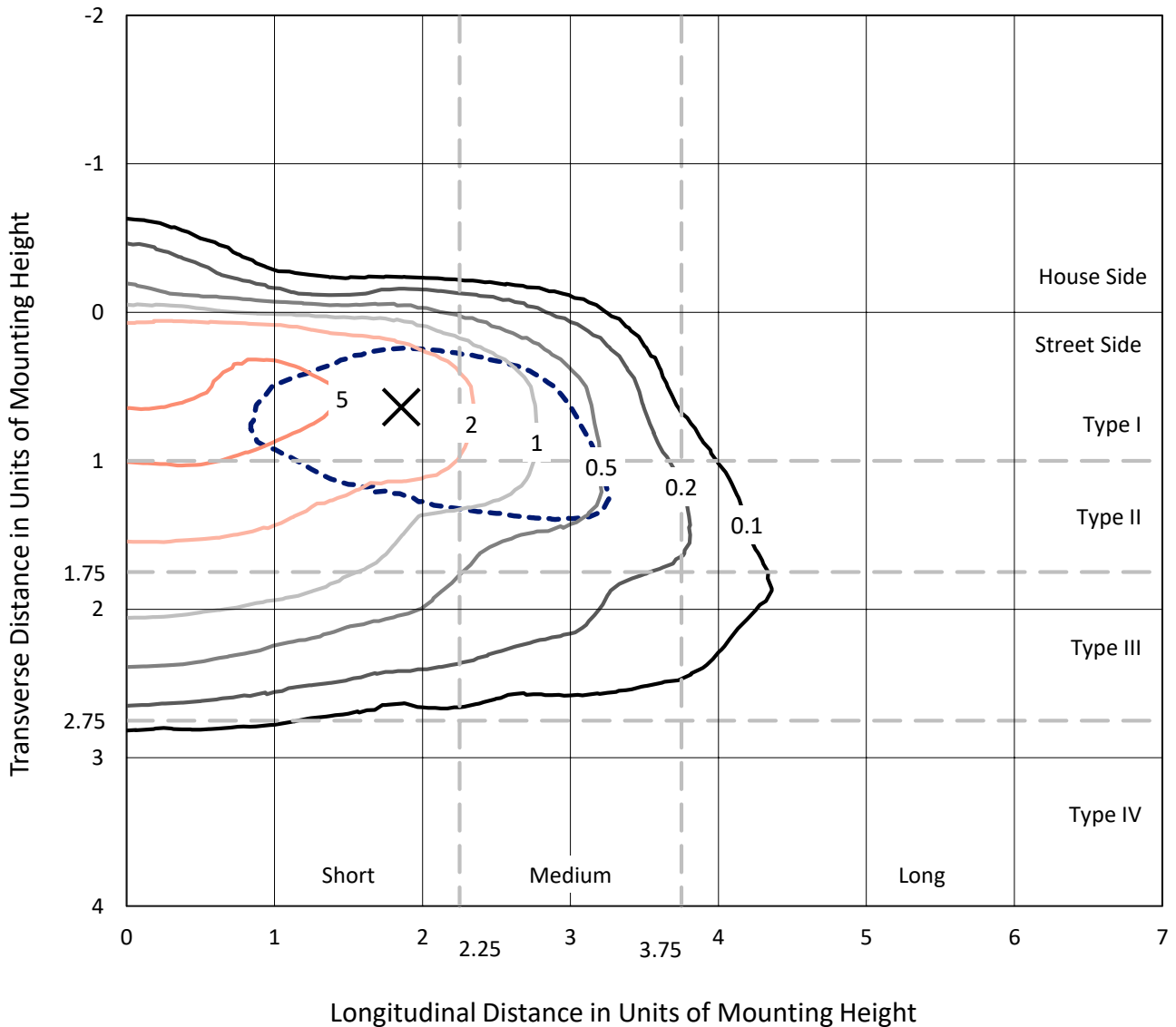
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

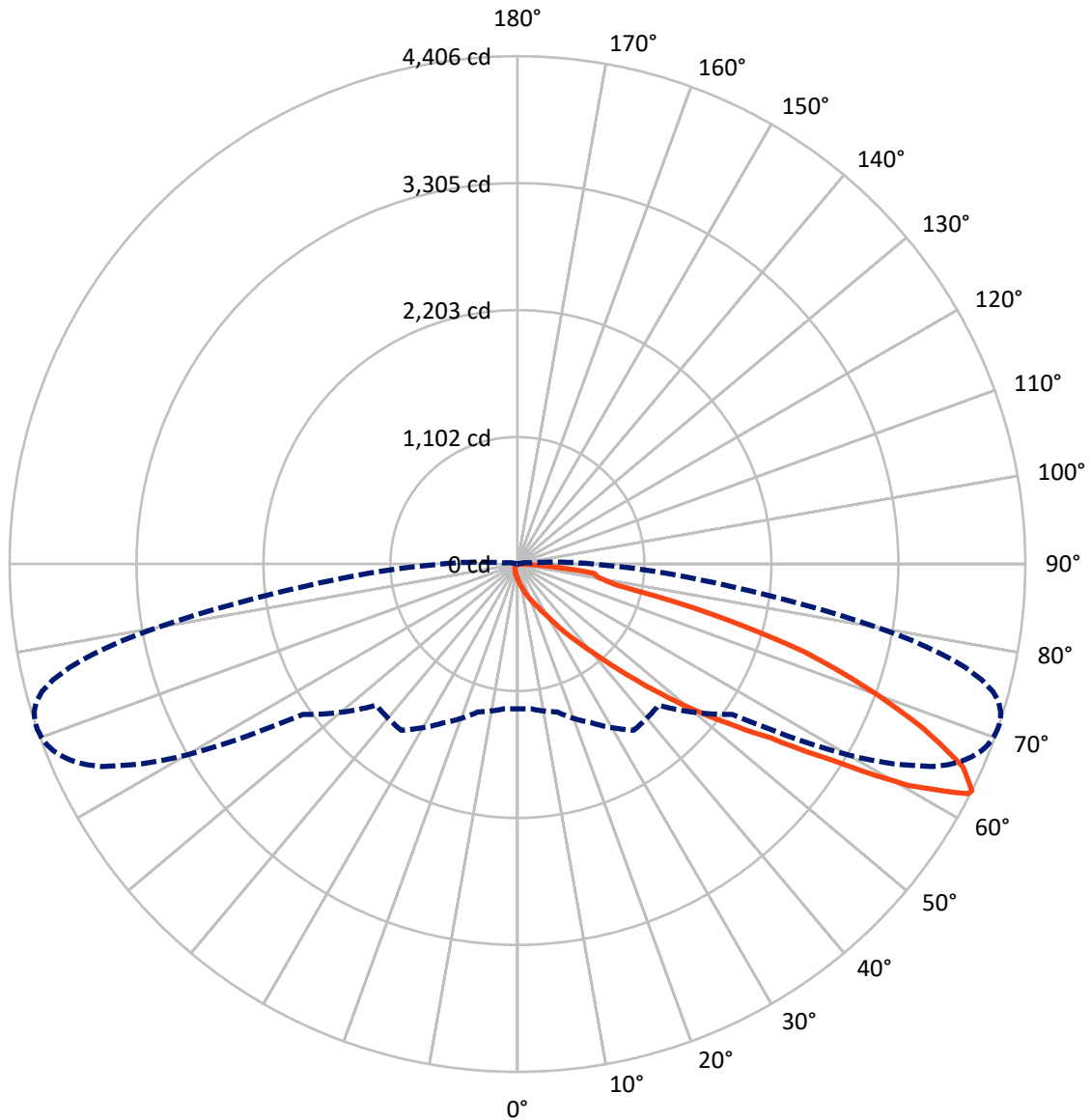
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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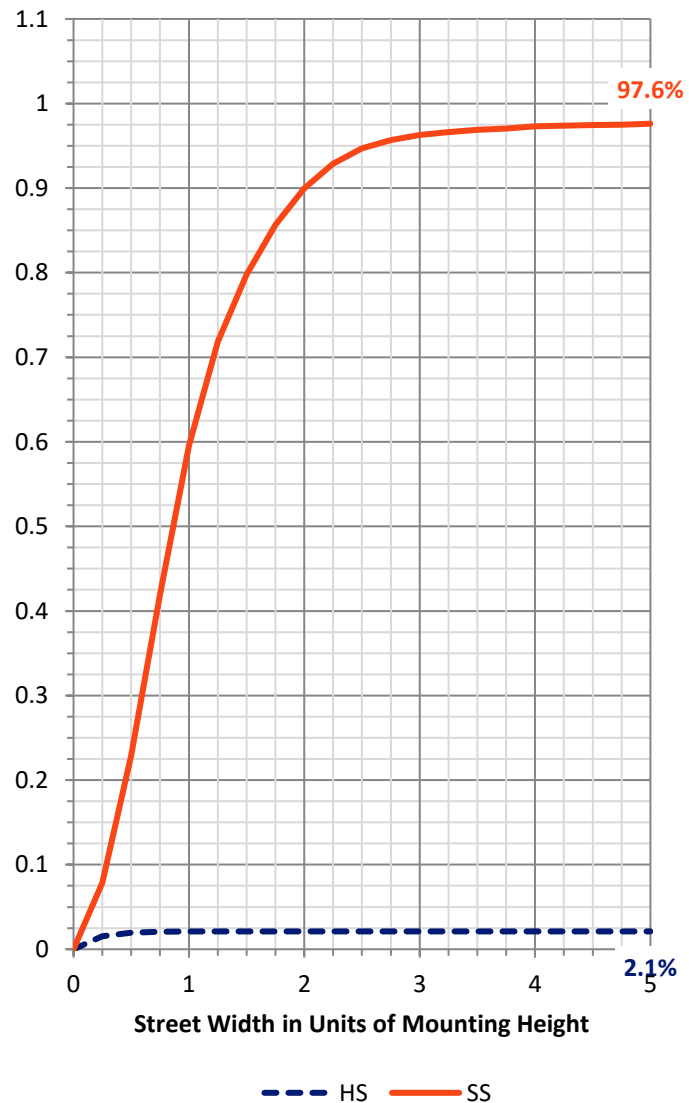
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	70.1	0.0	70.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3230.5	0.0	3230.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	3300.6	0.0	3300.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.4
10°-20°	54.3	1.6
20°-30°	110.2	3.3
30°-40°	269.3	8.2
40°-50°	602.3	18.2
50°-60°	846.9	25.7
60°-70°	995.9	30.2
70°-80°	359.6	10.9
80°-90°	48.1	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°	3300.6	100.0
0°-180°	3300.6	100.0



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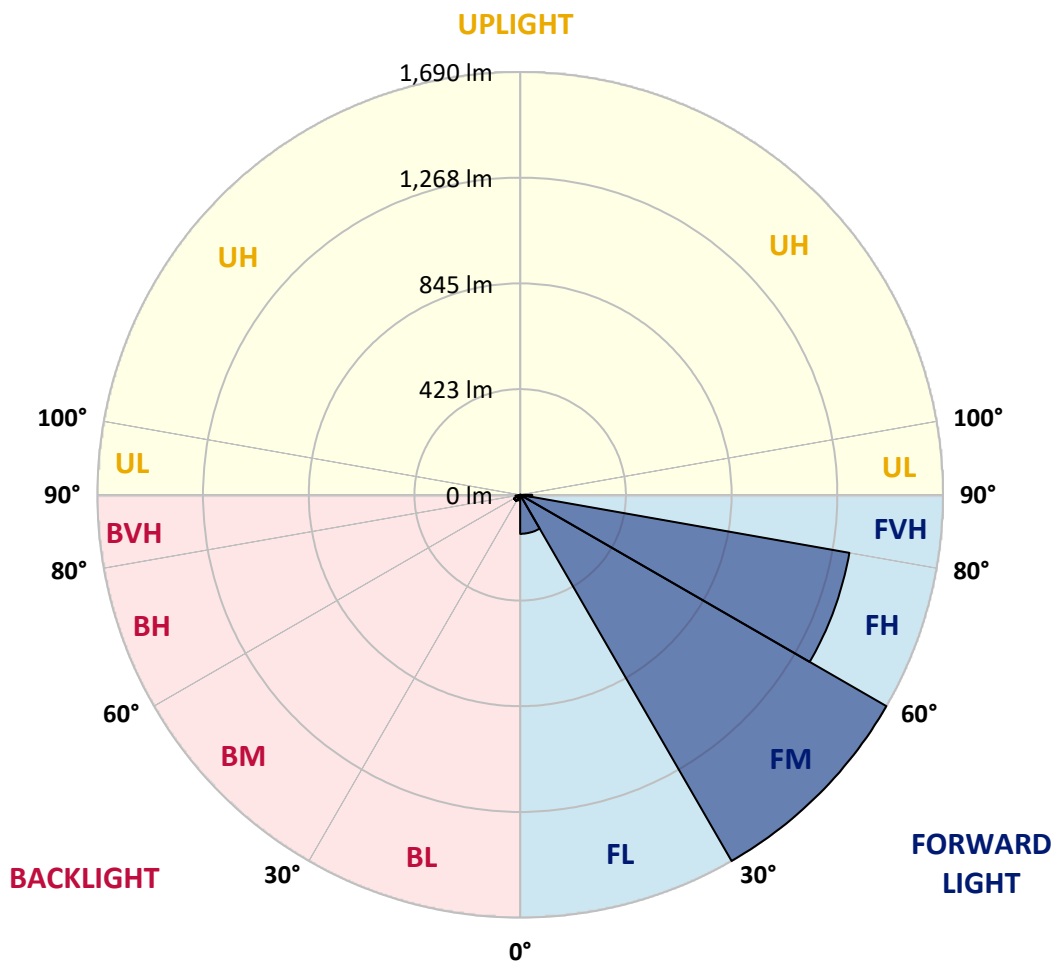
CATALOG NUMBER: ICS-E02-LED-E1-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.0	4.7			
FM (30°-60°)	1690.3	51.2			
FH (60°-80°)	1336.3	40.5			G1/1800
FVH (80°-90°)	48.0	1.5			G1/100
BL (0°-30°)	22.5	0.7	B0/110		
BM (30°-60°)	28.2	0.9	B0/220		
BH (60°-80°)	19.2	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°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6
2.5°	165.6	167.4	166.2	163.2	159.6	154.8	150.6	150.6	150.0	148.2	148.8
5°	217.2	217.8	215.4	208.2	201.6	191.4	180.0	178.8	177.6	175.8	175.2
7.5°	267.6	270.0	267.6	259.8	246.6	231.0	213.0	211.2	207.6	207.6	205.2
10°	319.2	319.2	316.8	307.8	295.8	273.6	250.8	247.8	243.6	242.4	238.8
12.5°	355.8	355.8	354.6	349.8	340.2	320.4	292.8	289.8	284.4	282.6	278.4
15°	370.2	370.2	370.8	375.0	375.6	366.6	337.8	335.4	330.0	325.2	323.4
17.5°	379.2	378.6	378.6	384.6	395.4	401.4	382.8	380.4	374.4	372.0	366.0
20°	399.0	397.8	394.2	394.2	404.4	425.4	425.4	424.8	418.2	416.4	413.4
22.5°	428.4	427.2	416.4	407.4	412.2	438.6	463.2	462.0	459.6	457.2	455.4
25°	476.4	472.2	453.6	427.2	423.0	451.2	492.0	495.0	496.8	496.8	498.0
27.5°	549.0	543.6	510.6	461.4	442.8	471.6	523.8	529.8	535.2	536.4	541.8
30°	649.8	640.2	592.8	520.8	478.2	501.6	570.6	577.2	585.0	587.4	595.8
32.5°	815.4	810.0	764.4	656.4	565.2	560.4	636.0	644.4	654.6	658.8	669.0
35°	1067.5	1068.7	1031.5	934.3	808.2	742.2	753.0	760.2	763.8	776.4	781.8
37.5°	1238.5	1241.5	1249.9	1211.5	1121.5	1054.3	969.7	977.5	958.9	960.7	961.3
40°	1332.1	1341.7	1390.9	1428.1	1420.9	1381.9	1314.1	1318.3	1283.5	1275.7	1237.9
42.5°	1394.5	1407.1	1485.7	1600.9	1659.7	1695.1	1679.5	1677.7	1650.7	1640.5	1608.7
45°	1433.5	1444.9	1543.9	1713.7	1849.3	1952.5	1995.1	1999.9	1977.1	1966.9	1940.5
47.5°	1431.7	1444.9	1551.1	1755.7	1955.5	2120.5	2240.5	2246.5	2260.3	2251.3	2253.1
50°	1352.5	1365.1	1471.9	1684.3	1924.3	2197.3	2416.9	2436.1	2458.3	2473.3	2480.5
52.5°	1256.5	1265.5	1360.3	1561.9	1791.1	2165.5	2521.3	2554.3	2587.3	2615.5	2635.3
55°	1221.1	1231.3	1305.7	1473.1	1684.3	2032.3	2569.9	2618.5	2665.3	2711.5	2749.3
57.5°	1239.7	1249.3	1302.7	1431.1	1620.7	1891.9	2583.7	2659.3	2736.1	2811.2	2885.6
60°	1308.1	1318.3	1363.9	1470.1	1603.9	1810.9	2529.7	2655.1	2783.0	2913.8	3036.8
62.5°	1281.1	1285.3	1352.5	1538.5	1723.9	1741.9	2333.5	2508.7	2703.7	2905.4	3104.0
63°	1255.3	1260.1	1328.5	1519.9	1760.5	1731.7	2272.9	2457.7	2663.5	2880.8	3096.8
65°	1138.3	1138.9	1191.1	1342.3	1719.7	1749.7	2002.9	2179.3	2415.7	2676.1	2949.2
67.5°	849.6	845.4	895.8	1011.1	1350.1	1750.3	1719.1	1818.1	1982.5	2213.5	2458.3
70°	301.2	294.6	376.2	535.8	841.2	1431.7	1477.3	1483.9	1529.5	1654.3	1807.9
72.5°	97.8	99.6	120.0	196.2	387.6	963.7	1337.5	1317.1	1305.1	1304.5	1324.9
75°	39.0	39.6	48.0	87.0	174.0	464.4	1171.3	1182.7	1186.9	1192.9	1199.5
77.5°	18.6	20.4	27.0	48.6	86.4	229.8	838.2	934.9	990.1	1032.7	1058.5
80°	6.6	7.8	15.0	30.0	40.2	105.6	441.6	532.8	613.8	718.2	808.2
82.5°	0.0	0.0	3.0	21.0	22.2	42.6	181.2	212.4	243.0	315.0	404.4
85°	0.0	0.0	0.0	6.0	6.6	7.2	61.2	73.8	82.8	96.6	111.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	3.6	9.0	13.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6
2.5°	147.6	147.0	147.0	145.8	145.2	144.0	143.4	141.6	141.0	141.0	141.0
5°	174.6	172.2	171.0	168.0	166.2	165.6	162.6	161.4	159.6	160.2	157.2
7.5°	204.6	200.4	198.6	194.4	193.2	189.0	187.8	184.8	183.0	179.4	178.2
10°	237.6	232.2	229.2	222.6	220.8	217.8	214.2	210.6	207.6	204.0	202.2
12.5°	275.4	270.6	268.2	259.2	255.0	250.8	246.0	241.2	236.4	233.4	229.2
15°	319.8	312.0	309.6	301.2	294.0	288.6	282.0	276.0	272.4	266.4	262.2
17.5°	363.6	355.8	354.0	341.4	333.6	330.0	322.8	315.0	308.4	302.4	295.8
20°	407.4	402.0	397.2	385.2	376.8	370.8	361.2	353.4	348.0	339.6	331.2
22.5°	451.2	445.8	442.2	429.6	421.8	413.4	405.0	396.6	388.8	378.6	369.0
25°	496.2	492.6	490.8	479.4	472.2	464.4	456.0	446.4	436.8	425.4	415.2
27.5°	543.0	544.2	540.6	538.2	530.4	525.0	511.8	505.2	498.0	484.2	471.6
30°	602.4	606.0	604.8	606.6	601.8	598.2	588.0	579.6	571.2	558.0	543.6
32.5°	677.4	682.2	684.6	691.2	688.8	687.6	684.6	672.6	666.6	643.8	637.8
35°	793.2	790.8	801.0	806.4	804.0	802.8	799.2	792.6	785.4	769.2	754.2
37.5°	943.9	946.3	949.9	939.1	931.9	931.3	920.5	913.8	903.6	885.6	867.6
40°	1219.9	1204.9	1188.1	1142.5	1122.7	1111.3	1079.5	1070.5	1053.1	1028.5	1009.9
42.5°	1578.7	1563.7	1513.3	1437.1	1396.3	1339.9	1314.1	1282.3	1257.7	1217.5	1195.9
45°	1935.1	1891.9	1885.9	1797.1	1746.7	1672.3	1626.1	1572.7	1516.9	1464.1	1425.7
47.5°	2235.7	2226.1	2196.7	2142.7	2095.9	2033.5	1974.1	1891.9	1834.3	1759.3	1690.3
50°	2476.3	2475.7	2464.9	2433.7	2394.7	2344.3	2292.1	2222.5	2157.1	2065.3	1991.5
52.5°	2656.3	2665.9	2669.5	2659.9	2644.9	2600.5	2574.1	2515.9	2460.7	2382.7	2302.9
55°	2788.4	2823.8	2841.8	2862.2	2858.0	2842.4	2841.2	2803.4	2778.2	2716.3	2659.9
57.5°	2951.6	3009.8	3065.6	3164.6	3168.2	3203.0	3221.0	3239.0	3243.8	3219.2	3200.6
60°	3159.2	3278.0	3383.6	3590.6	3644.6	3729.8	3785.0	3845.0	3896.0	3900.2	3899.0
62.5°	3305.6	3488.6	3659.0	3966.2	4071.2	4169.6	4243.4	4301.6	4337.0	4373.0	4389.8
63°	3309.8	3510.2	3691.4	4008.2	4118.6	4212.2	4282.4	4336.4	4373.6	4395.2	4406.0
65°	3208.4	3451.4	3667.4	3983.0	4086.8	4181.0	4217.6	4253.0	4271.0	4279.4	4247.6
67.5°	2719.3	2957.0	3209.0	3561.8	3650.6	3763.4	3793.4	3811.4	3819.8	3818.0	3791.0
70°	2033.5	2232.7	2512.9	2916.2	3033.8	3144.2	3212.6	3242.0	3251.6	3248.6	3208.4
72.5°	1419.7	1536.7	1767.7	2216.5	2376.7	2518.3	2602.9	2646.7	2655.7	2637.7	2600.5
75°	1192.3	1198.3	1250.5	1495.9	1645.9	1797.1	1892.5	1920.1	1902.1	1847.5	1752.7
77.5°	1064.5	1077.7	1077.7	1114.3	1143.7	1185.7	1194.7	1127.5	1049.5	948.7	867.0
80°	892.8	939.1	971.5	998.5	1001.5	993.1	970.9	933.1	873.0	796.2	711.0
82.5°	542.4	633.6	670.8	810.0	878.4	924.7	921.1	870.6	825.0	745.2	672.6
85°	136.8	147.6	160.2	208.2	233.4	285.0	317.4	332.4	337.8	310.2	280.8
87.5°	13.2	9.0	15.0	11.4	16.2	12.0	16.2	15.0	18.6	19.8	21.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6
2.5°	139.8	139.2	138.6	138.0	137.4	136.8	135.6	135.6	134.4	133.8	133.2
5°	155.4	154.2	153.6	152.4	150.6	149.4	147.6	145.2	143.4	142.8	141.6
7.5°	175.2	172.2	171.0	169.2	166.8	163.2	160.8	159.0	156.0	154.2	150.6
10°	197.4	194.4	190.8	187.2	183.6	179.4	176.4	174.0	169.2	166.8	162.6
12.5°	225.6	220.2	216.0	211.2	206.4	201.6	198.0	190.8	186.6	181.2	177.6
15°	254.4	249.6	244.8	238.8	231.6	223.8	220.2	213.6	208.2	199.8	195.0
17.5°	289.2	280.2	273.0	265.8	259.2	252.0	244.8	234.6	226.8	219.6	210.0
20°	323.4	312.6	304.8	295.2	285.6	274.2	265.8	258.6	247.8	238.2	228.0
22.5°	360.0	349.2	336.6	327.0	313.8	304.8	293.4	281.4	270.6	258.0	245.4
25°	404.4	393.0	378.6	366.0	351.0	338.4	324.6	310.8	297.6	283.2	267.0
27.5°	459.0	447.0	431.4	416.4	396.6	381.0	367.8	349.2	332.4	314.4	295.8
30°	528.0	514.8	495.6	474.0	454.2	436.8	418.2	393.6	375.0	353.4	329.4
32.5°	618.0	602.4	576.6	556.2	531.6	508.8	483.0	458.4	432.0	403.8	376.2
35°	731.4	717.0	687.0	657.0	630.0	603.0	570.6	542.4	505.2	471.0	435.6
37.5°	849.0	823.2	795.6	763.2	729.6	697.2	657.6	618.6	576.0	538.8	494.4
40°	983.5	952.3	929.5	894.6	847.2	801.0	764.4	715.8	662.4	612.6	560.4
42.5°	1167.7	1132.9	1092.1	1039.3	1005.1	951.1	903.6	846.0	775.8	720.0	657.0
45°	1380.7	1333.3	1293.7	1242.7	1201.3	1134.1	1078.9	1002.1	931.9	858.6	781.8
47.5°	1623.7	1564.9	1507.3	1456.9	1390.9	1324.9	1254.7	1173.1	1083.1	1002.7	911.4
50°	1902.7	1819.3	1739.5	1674.7	1584.1	1507.9	1431.7	1339.9	1240.3	1147.9	1044.1
52.5°	2212.9	2116.3	2010.7	1911.1	1806.1	1708.3	1616.5	1510.9	1399.9	1287.1	1171.3
55°	2587.3	2514.7	2390.5	2263.9	2123.5	1992.7	1874.5	1743.7	1608.7	1460.5	1338.7
57.5°	3173.6	3138.2	3034.4	2907.8	2724.7	2565.7	2365.3	2205.1	2009.5	1805.5	1648.3
60°	3968.0	3924.2	3866.0	3763.4	3618.2	3402.2	3181.4	2932.4	2634.7	2352.1	2083.9
62.5°	4391.6	4376.0	4328.6	4257.8	4122.2	3951.8	3729.2	3455.6	3119.6	2776.4	2434.3
63°	4404.2	4384.4	4343.6	4271.6	4152.2	3987.2	3768.8	3503.0	3174.2	2824.4	2475.1
65°	4233.8	4226.0	4184.6	4106.0	4024.4	3898.4	3729.2	3500.6	3224.6	2894.0	2546.5
67.5°	3755.0	3731.6	3668.0	3644.0	3587.0	3499.4	3370.4	3213.2	3015.8	2755.9	2455.9
70°	3176.0	3141.2	3061.4	3018.8	2949.2	2894.0	2815.4	2703.1	2581.3	2400.1	2176.3
72.5°	2562.1	2490.1	2416.9	2305.9	2208.7	2110.3	2023.3	1944.1	1810.3	1737.1	1567.3
75°	1663.9	1533.1	1407.7	1239.7	1088.5	954.7	824.4	758.4	621.0	565.2	485.4
77.5°	789.6	716.4	618.0	541.8	444.6	363.0	296.4	222.6	174.6	136.8	104.4
80°	637.2	575.4	516.0	447.0	373.8	298.2	228.6	171.0	121.2	84.0	59.4
82.5°	568.2	501.0	427.8	380.4	330.6	270.6	222.0	181.2	133.8	97.8	66.6
85°	220.8	186.0	143.4	117.0	91.2	75.0	67.8	46.8	36.6	28.8	22.2
87.5°	19.2	15.6	12.6	8.4	9.0	4.8	5.4	3.6	3.0	3.0	2.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6
2.5°	132.6	132.0	131.4	130.2	130.2	129.0	128.4	127.8	124.8	118.2	112.8
5°	139.2	138.0	136.8	135.0	133.8	132.0	130.8	129.0	122.4	109.8	99.0
7.5°	148.8	146.4	144.6	141.0	139.2	136.8	135.0	132.0	121.2	102.0	87.0
10°	160.2	156.0	153.0	148.8	145.2	142.2	139.2	135.0	120.0	93.6	76.2
12.5°	174.0	169.2	163.2	158.4	153.6	149.4	145.2	139.8	118.2	86.4	67.8
15°	187.8	180.6	176.4	169.8	163.2	157.2	151.2	146.4	118.8	78.6	60.6
17.5°	203.4	196.2	187.2	180.0	172.8	165.0	157.8	148.2	115.8	72.6	55.2
20°	218.4	208.2	199.8	190.8	180.6	171.0	162.0	153.6	113.4	66.6	50.4
22.5°	234.6	222.6	211.8	200.4	187.8	177.0	166.2	155.4	109.2	61.2	46.2
25°	254.4	240.6	225.0	211.2	198.0	184.8	171.0	157.8	105.0	56.4	43.2
27.5°	278.4	260.4	244.8	227.4	208.8	192.0	177.0	162.6	100.8	52.8	40.2
30°	309.0	288.0	265.8	243.6	223.8	204.6	183.6	165.6	96.6	49.2	37.2
32.5°	349.8	323.4	296.4	270.6	244.2	219.6	197.4	174.0	94.2	46.2	34.2
35°	403.8	369.6	336.6	304.2	272.4	242.4	213.6	187.2	94.2	42.6	30.6
37.5°	454.8	415.2	373.2	333.0	295.2	260.4	226.2	194.4	89.4	39.6	27.6
40°	510.0	462.6	413.4	366.0	320.4	277.2	238.2	201.6	85.2	36.0	24.6
42.5°	594.6	534.6	470.4	415.2	360.6	307.2	258.6	215.4	79.8	32.4	21.6
45°	705.6	629.4	553.8	486.6	417.0	351.6	294.0	240.6	78.6	29.4	18.6
47.5°	824.4	734.4	645.6	559.8	478.2	402.0	333.0	268.8	78.6	26.4	16.2
50°	942.7	829.8	735.0	635.4	543.6	453.6	371.4	298.2	79.2	24.0	13.2
52.5°	1049.5	928.9	822.6	707.4	606.0	501.6	412.2	327.0	78.0	21.0	10.8
55°	1197.7	1056.1	933.1	805.8	687.0	569.4	468.0	370.2	78.6	18.6	9.0
57.5°	1470.7	1304.5	1156.3	989.5	852.6	700.8	577.8	459.0	85.8	15.6	6.6
60°	1862.5	1646.5	1438.3	1234.9	1060.9	880.2	720.6	580.8	100.8	12.6	4.8
62.5°	2125.9	1843.3	1594.9	1370.5	1168.3	979.3	805.2	646.2	111.0	10.2	3.0
63°	2152.9	1860.7	1611.1	1379.5	1173.1	984.1	808.8	651.0	111.6	9.6	3.0
65°	2203.9	1890.7	1620.1	1381.3	1168.3	977.5	806.4	650.4	112.8	7.8	2.4
67.5°	2145.7	1844.5	1567.9	1329.7	1126.3	938.5	776.4	626.4	112.2	5.4	1.8
70°	1918.9	1669.3	1426.3	1204.3	1019.5	849.6	706.8	571.2	103.2	3.6	1.2
72.5°	1408.9	1239.1	1050.7	890.4	768.0	637.8	544.2	429.0	79.8	2.4	0.6
75°	417.6	380.4	319.8	282.0	249.0	205.8	183.0	142.8	40.8	1.2	0.0
77.5°	83.4	75.6	67.8	61.8	58.2	49.8	47.4	39.0	16.8	0.6	0.0
80°	43.8	36.0	30.6	27.0	23.4	19.2	16.2	13.2	3.0	0.0	0.0
82.5°	42.0	28.2	20.4	16.8	14.4	11.4	9.0	6.6	1.8	0.0	0.0
85°	15.6	12.0	9.0	7.2	6.0	5.4	4.2	3.6	0.0	0.0	0.0
87.5°	2.4	1.8	1.8	1.2	1.2	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°	126.6	126.6	126.6	126.6	126.6	126.6	126.6
2.5°	107.4	102.6	100.2	97.2	97.2	96.6	97.8
5°	89.4	82.8	78.0	74.4	75.0	73.2	73.8
7.5°	75.6	69.0	64.8	62.4	61.8	61.2	61.2
10°	65.4	59.4	55.8	54.0	53.4	53.4	53.4
12.5°	58.2	52.2	49.2	48.0	48.0	47.4	47.4
15°	52.2	47.4	44.4	43.2	43.2	42.6	43.2
17.5°	47.4	42.6	40.2	39.0	39.0	38.4	38.4
20°	43.2	39.0	36.6	34.8	34.8	34.2	34.8
22.5°	39.6	35.4	32.4	31.2	30.6	30.0	30.6
25°	36.0	31.8	28.8	27.0	26.4	26.4	25.8
27.5°	33.0	28.8	25.2	23.4	22.8	22.8	22.2
30°	30.0	25.2	21.6	19.8	19.2	19.2	19.2
32.5°	27.0	21.6	18.6	16.8	16.2	16.2	16.2
35°	24.0	18.6	15.6	13.8	13.2	13.2	13.2
37.5°	20.4	15.6	12.0	10.8	10.2	9.6	9.6
40°	17.4	12.0	9.0	7.8	6.6	6.6	6.6
42.5°	14.4	9.6	6.6	4.8	4.2	3.6	4.2
45°	12.0	7.2	4.2	2.4	1.8	1.8	1.8
47.5°	9.6	4.8	1.8	0.6	0.6	0.6	0.6
50°	7.2	3.0	0.6	0.0	0.0	0.6	0.6
52.5°	5.4	1.8	0.0	0.0	0.0	0.0	0.0
55°	3.0	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.2	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)