

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: P180433

Luminaire Tested: **ICS-F02-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180433  
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-F02-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: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

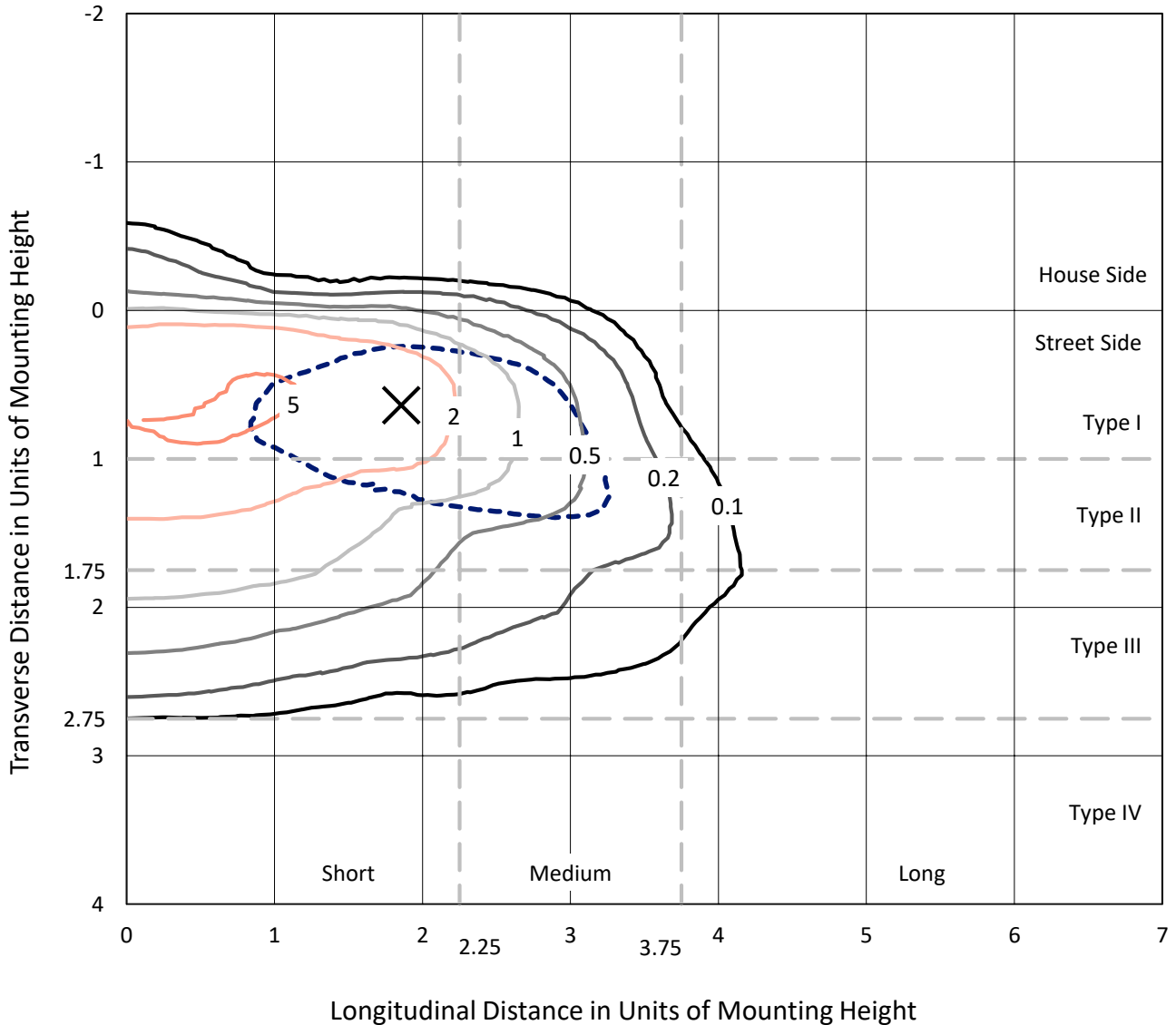
Lumens per Lamp: N/A  
Luminaire Lumens: 2724.7 lumens  
Efficiency: N/A  
Efficacy: 49.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 55  
Input Voltage (V): NR  
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

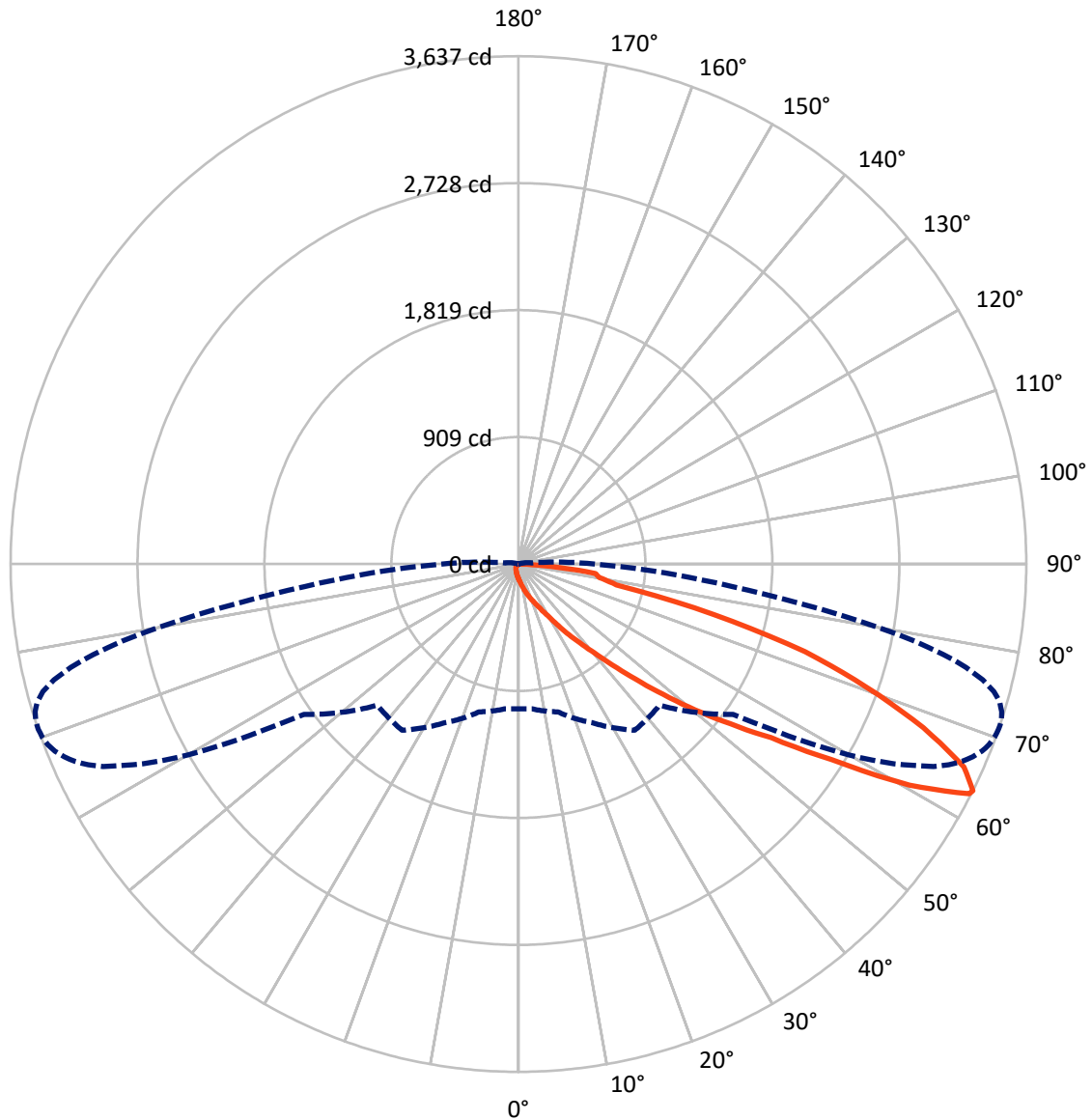
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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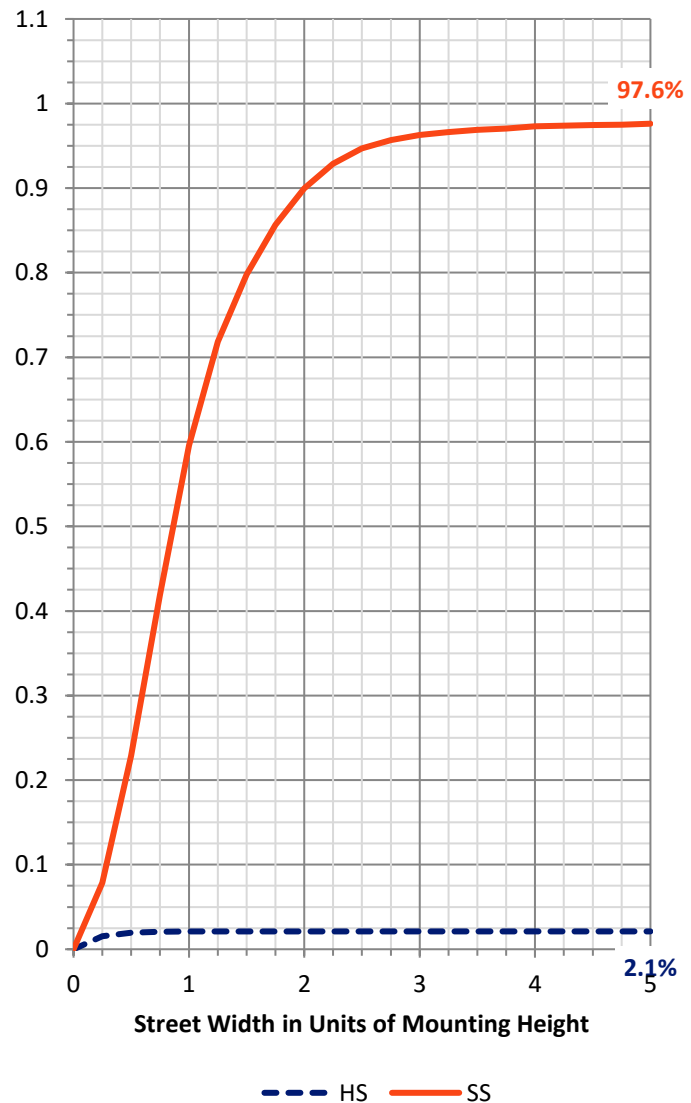
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	57.9	0.0	57.9
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	2666.9	0.0	2666.9
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	2724.7	0.0	2724.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.6	0.4
10°-20°	44.8	1.6
20°-30°	91.0	3.3
30°-40°	222.3	8.2
40°-50°	497.2	18.2
50°-60°	699.1	25.7
60°-70°	822.1	30.2
70°-80°	296.9	10.9
80°-90°	39.7	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°	2724.7	100.0
0°-180°	2724.7	100.0



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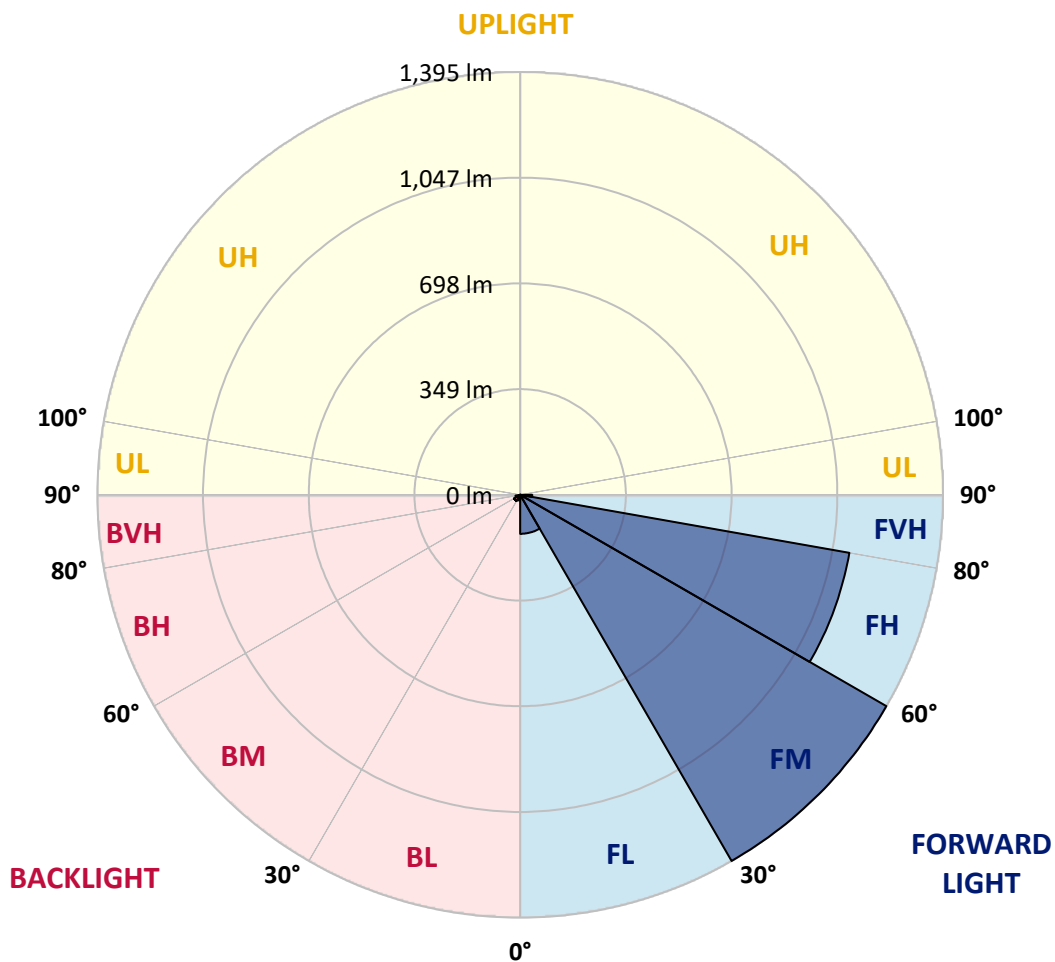
CATALOG NUMBER: ICS-F02-LED-E1-SL2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.8	4.7			
FM (30°-60°)	1395.4	51.2			
FH (60°-80°)	1103.1	40.5			G1/1800
FVH (80°-90°)	39.6	1.5			G1/100
BL (0°-30°)	18.6	0.7	B0/110		
BM (30°-60°)	23.3	0.9	B0/220		
BH (60°-80°)	15.9	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°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	136.7	138.2	137.2	134.7	131.8	127.8	124.3	124.3	123.8	122.3	122.8
5°	179.3	179.8	177.8	171.9	166.4	158.0	148.6	147.6	146.6	145.1	144.6
7.5°	220.9	222.9	220.9	214.5	203.6	190.7	175.8	174.4	171.4	171.4	169.4
10°	263.5	263.5	261.5	254.1	244.2	225.9	207.1	204.6	201.1	200.1	197.1
12.5°	293.7	293.7	292.7	288.8	280.9	264.5	241.7	239.3	234.8	233.3	229.8
15°	305.6	305.6	306.1	309.6	310.1	302.7	278.9	276.9	272.4	268.5	267.0
17.5°	313.1	312.6	312.6	317.5	326.4	331.4	316.0	314.0	309.1	307.1	302.2
20°	329.4	328.4	325.4	325.4	333.9	351.2	351.2	350.7	345.3	343.8	341.3
22.5°	353.7	352.7	343.8	336.3	340.3	362.1	382.4	381.4	379.4	377.5	376.0
25°	393.3	389.8	374.5	352.7	349.2	372.5	406.2	408.7	410.1	410.1	411.1
27.5°	453.2	448.8	421.5	380.9	365.6	389.3	432.4	437.4	441.8	442.8	447.3
30°	536.5	528.5	489.4	430.0	394.8	414.1	471.1	476.5	483.0	484.9	491.9
32.5°	673.2	668.7	631.1	541.9	466.6	462.6	525.1	532.0	540.4	543.9	552.3
35°	881.2	882.2	851.5	771.2	667.2	612.7	621.7	627.6	630.6	641.0	645.4
37.5°	1022.4	1024.9	1031.8	1000.1	925.8	870.3	800.5	806.9	791.6	793.0	793.5
40°	1099.7	1107.6	1148.2	1178.9	1173.0	1140.8	1084.8	1088.3	1059.5	1053.1	1021.9
42.5°	1151.2	1161.6	1226.5	1321.6	1370.1	1399.3	1386.5	1385.0	1362.7	1354.3	1328.0
45°	1183.4	1192.8	1274.5	1414.7	1526.6	1611.8	1647.0	1651.0	1632.2	1623.7	1601.9
47.5°	1181.9	1192.8	1280.5	1449.4	1614.3	1750.5	1849.6	1854.6	1866.0	1858.5	1860.0
50°	1116.5	1126.9	1215.1	1390.4	1588.6	1813.9	1995.2	2011.1	2029.4	2041.8	2047.7
52.5°	1037.2	1044.7	1122.9	1289.4	1478.6	1787.7	2081.4	2108.7	2135.9	2159.2	2175.5
55°	1008.0	1016.4	1077.9	1216.1	1390.4	1677.7	2121.5	2161.7	2200.3	2238.5	2269.7
57.5°	1023.4	1031.3	1075.4	1181.4	1337.9	1561.8	2132.9	2195.4	2258.8	2320.7	2382.1
60°	1079.8	1088.3	1125.9	1213.6	1324.0	1494.9	2088.4	2191.9	2297.4	2405.4	2506.9
62.5°	1057.6	1061.0	1116.5	1270.1	1423.1	1438.0	1926.4	2071.0	2232.0	2398.4	2562.4
63°	1036.3	1040.2	1096.7	1254.7	1453.3	1429.6	1876.4	2028.9	2198.8	2378.1	2556.5
65°	939.7	940.2	983.3	1108.1	1419.6	1444.4	1653.5	1799.1	1994.2	2209.2	2434.6
67.5°	701.4	697.9	739.5	834.7	1114.5	1444.9	1419.2	1500.9	1636.6	1827.3	2029.4
70°	248.7	243.2	310.6	442.3	694.5	1181.9	1219.5	1225.0	1262.6	1365.7	1492.5
72.5°	80.7	82.2	99.1	162.0	320.0	795.5	1104.1	1087.3	1077.4	1076.9	1093.7
75°	32.2	32.7	39.6	71.8	143.6	383.4	966.9	976.3	979.8	984.7	990.2
77.5°	15.4	16.8	22.3	40.1	71.3	189.7	692.0	771.7	817.3	852.5	873.8
80°	5.4	6.4	12.4	24.8	33.2	87.2	364.6	439.9	506.7	592.9	667.2
82.5°	0.0	0.0	2.5	17.3	18.3	35.2	149.6	175.4	200.6	260.1	333.9
85°	0.0	0.0	0.0	5.0	5.4	5.9	50.5	60.9	68.4	79.8	92.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	3.0	7.4	11.4
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	121.9	121.4	121.4	120.4	119.9	118.9	118.4	116.9	116.4	116.4	116.4
5°	144.1	142.2	141.2	138.7	137.2	136.7	134.2	133.2	131.8	132.3	129.8
7.5°	168.9	165.4	164.0	160.5	159.5	156.0	155.0	152.6	151.1	148.1	147.1
10°	196.2	191.7	189.2	183.8	182.3	179.8	176.8	173.9	171.4	168.4	166.9
12.5°	227.4	223.4	221.4	214.0	210.5	207.1	203.1	199.1	195.2	192.7	189.2
15°	264.0	257.6	255.6	248.7	242.7	238.3	232.8	227.9	224.9	219.9	216.5
17.5°	300.2	293.7	292.3	281.8	275.4	272.4	266.5	260.1	254.6	249.7	244.2
20°	336.3	331.9	327.9	318.0	311.1	306.1	298.2	291.8	287.3	280.4	273.4
22.5°	372.5	368.0	365.1	354.7	348.2	341.3	334.4	327.4	321.0	312.6	304.6
25°	409.6	406.7	405.2	395.8	389.8	383.4	376.5	368.5	360.6	351.2	342.8
27.5°	448.3	449.3	446.3	444.3	437.9	433.4	422.5	417.1	411.1	399.7	389.3
30°	497.3	500.3	499.3	500.8	496.8	493.9	485.4	478.5	471.6	460.7	448.8
32.5°	559.2	563.2	565.2	570.6	568.7	567.7	565.2	555.3	550.3	531.5	526.5
35°	654.8	652.9	661.3	665.7	663.8	662.8	659.8	654.3	648.4	635.0	622.6
37.5°	779.2	781.2	784.1	775.2	769.3	768.8	759.9	754.4	746.0	731.1	716.3
40°	1007.0	994.6	980.8	943.1	926.8	917.4	891.1	883.7	869.3	849.0	833.7
42.5°	1303.2	1290.9	1249.3	1186.3	1152.7	1106.1	1084.8	1058.5	1038.2	1005.0	987.2
45°	1597.5	1561.8	1556.9	1483.5	1441.9	1380.5	1342.4	1298.3	1252.2	1208.6	1176.9
47.5°	1845.6	1837.7	1813.4	1768.9	1730.2	1678.7	1629.7	1561.8	1514.3	1452.3	1395.4
50°	2044.3	2043.8	2034.9	2009.1	1976.9	1935.3	1892.2	1834.7	1780.8	1705.0	1644.0
52.5°	2192.9	2200.8	2203.8	2195.9	2183.5	2146.8	2125.0	2077.0	2031.4	1967.0	1901.1
55°	2301.9	2331.1	2345.9	2362.8	2359.3	2346.4	2345.4	2314.2	2293.4	2242.4	2195.9
57.5°	2436.6	2484.6	2530.7	2612.4	2615.4	2644.1	2659.0	2673.9	2677.8	2657.5	2642.2
60°	2608.0	2706.1	2793.2	2964.1	3008.7	3079.0	3124.6	3174.2	3216.3	3219.7	3218.7
62.5°	2728.8	2879.9	3020.6	3274.2	3360.9	3442.1	3503.1	3551.1	3580.3	3610.1	3623.9
63°	2732.3	2897.8	3047.3	3308.9	3400.0	3477.3	3535.3	3579.8	3610.5	3628.4	3637.3
65°	2648.6	2849.2	3027.5	3288.1	3373.8	3451.5	3481.8	3511.0	3525.8	3532.8	3506.5
67.5°	2244.9	2441.0	2649.1	2940.3	3013.7	3106.8	3131.6	3146.4	3153.3	3151.9	3129.6
70°	1678.7	1843.2	2074.5	2407.4	2504.4	2595.6	2652.1	2676.3	2684.3	2681.8	2648.6
72.5°	1172.0	1268.6	1459.3	1829.8	1962.0	2078.9	2148.8	2185.0	2192.4	2177.5	2146.8
75°	984.2	989.2	1032.3	1234.9	1358.7	1483.5	1562.3	1585.1	1570.2	1525.2	1446.9
77.5°	878.7	889.6	889.6	919.8	944.1	978.8	986.2	930.7	866.4	783.1	715.8
80°	737.1	775.2	802.0	824.2	826.7	819.8	801.5	770.3	720.7	657.3	587.0
82.5°	447.8	523.1	553.8	668.7	725.2	763.3	760.3	718.7	681.1	615.2	555.3
85°	112.9	121.9	132.3	171.9	192.7	235.3	262.0	274.4	278.9	256.1	231.8
87.5°	10.9	7.4	12.4	9.4	13.4	9.9	13.4	12.4	15.4	16.3	17.8
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	115.4	114.9	114.4	113.9	113.4	112.9	111.9	111.9	111.0	110.5	110.0
5°	128.3	127.3	126.8	125.8	124.3	123.3	121.9	119.9	118.4	117.9	116.9
7.5°	144.6	142.2	141.2	139.7	137.7	134.7	132.8	131.3	128.8	127.3	124.3
10°	163.0	160.5	157.5	154.5	151.6	148.1	145.6	143.6	139.7	137.7	134.2
12.5°	186.2	181.8	178.3	174.4	170.4	166.4	163.5	157.5	154.1	149.6	146.6
15°	210.0	206.1	202.1	197.1	191.2	184.8	181.8	176.3	171.9	164.9	161.0
17.5°	238.8	231.3	225.4	219.4	214.0	208.0	202.1	193.7	187.2	181.3	173.4
20°	267.0	258.1	251.6	243.7	235.8	226.4	219.4	213.5	204.6	196.7	188.2
22.5°	297.2	288.3	277.9	270.0	259.1	251.6	242.2	232.3	223.4	213.0	202.6
25°	333.9	324.4	312.6	302.2	289.8	279.4	268.0	256.6	245.7	233.8	220.4
27.5°	378.9	369.0	356.2	343.8	327.4	314.5	303.6	288.3	274.4	259.6	244.2
30°	435.9	425.0	409.2	391.3	375.0	360.6	345.3	324.9	309.6	291.8	271.9
32.5°	510.2	497.3	476.0	459.2	438.9	420.0	398.8	378.4	356.6	333.4	310.6
35°	603.8	591.9	567.2	542.4	520.1	497.8	471.1	447.8	417.1	388.8	359.6
37.5°	700.9	679.6	656.8	630.1	602.3	575.6	542.9	510.7	475.5	444.8	408.2
40°	811.9	786.1	767.3	738.6	699.4	661.3	631.1	590.9	546.9	505.7	462.6
42.5°	963.9	935.2	901.5	857.9	829.7	785.1	746.0	698.4	640.5	594.4	542.4
45°	1139.8	1100.6	1068.0	1025.9	991.7	936.2	890.6	827.2	769.3	708.8	645.4
47.5°	1340.4	1291.9	1244.3	1202.7	1148.2	1093.7	1035.8	968.4	894.1	827.7	752.4
50°	1570.7	1501.9	1436.0	1382.5	1307.7	1244.8	1181.9	1106.1	1023.9	947.6	861.9
52.5°	1826.8	1747.1	1659.9	1577.7	1491.0	1410.2	1334.5	1247.3	1155.6	1062.5	966.9
55°	2135.9	2076.0	1973.4	1868.9	1753.0	1645.0	1547.4	1439.5	1328.0	1205.7	1105.1
57.5°	2619.9	2590.6	2504.9	2400.4	2249.3	2118.1	1952.6	1820.4	1658.9	1490.5	1360.7
60°	3275.7	3239.5	3191.5	3106.8	2986.9	2808.6	2626.3	2420.7	2175.0	1941.7	1720.3
62.5°	3625.4	3612.5	3573.4	3514.9	3403.0	3262.3	3078.5	2852.7	2575.3	2291.9	2009.6
63°	3635.8	3619.5	3585.8	3526.3	3427.8	3291.5	3111.2	2891.8	2620.4	2331.6	2043.3
65°	3495.1	3488.7	3454.5	3389.6	3322.3	3218.2	3078.5	2889.8	2662.0	2389.0	2102.2
67.5°	3099.8	3080.5	3028.0	3008.2	2961.2	2888.8	2782.3	2652.6	2489.6	2275.1	2027.4
70°	2621.8	2593.1	2527.2	2492.1	2434.6	2389.0	2324.1	2231.5	2131.0	1981.4	1796.6
72.5°	2115.1	2055.7	1995.2	1903.6	1823.4	1742.1	1670.3	1604.9	1494.4	1434.0	1293.8
75°	1373.6	1265.6	1162.1	1023.4	898.6	788.1	680.6	626.1	512.7	466.6	400.7
77.5°	651.9	591.4	510.2	447.3	367.0	299.7	244.7	183.8	144.1	112.9	86.2
80°	526.1	475.0	426.0	369.0	308.6	246.2	188.7	141.2	100.1	69.3	49.0
82.5°	469.1	413.6	353.2	314.0	272.9	223.4	183.3	149.6	110.5	80.7	55.0
85°	182.3	153.6	118.4	96.6	75.3	61.9	56.0	38.6	30.2	23.8	18.3
87.5°	15.9	12.9	10.4	6.9	7.4	4.0	4.5	3.0	2.5	2.5	2.0
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	109.5	109.0	108.5	107.5	107.5	106.5	106.0	105.5	103.0	97.6	93.1
5°	114.9	113.9	112.9	111.5	110.5	109.0	108.0	106.5	101.0	90.6	81.7
7.5°	122.8	120.9	119.4	116.4	114.9	112.9	111.5	109.0	100.1	84.2	71.8
10°	132.3	128.8	126.3	122.8	119.9	117.4	114.9	111.5	99.1	77.3	62.9
12.5°	143.6	139.7	134.7	130.8	126.8	123.3	119.9	115.4	97.6	71.3	56.0
15°	155.0	149.1	145.6	140.2	134.7	129.8	124.8	120.9	98.1	64.9	50.0
17.5°	167.9	162.0	154.5	148.6	142.7	136.2	130.3	122.3	95.6	59.9	45.6
20°	180.3	171.9	164.9	157.5	149.1	141.2	133.7	126.8	93.6	55.0	41.6
22.5°	193.7	183.8	174.9	165.4	155.0	146.1	137.2	128.3	90.2	50.5	38.1
25°	210.0	198.6	185.8	174.4	163.5	152.6	141.2	130.3	86.7	46.6	35.7
27.5°	229.8	215.0	202.1	187.7	172.4	158.5	146.1	134.2	83.2	43.6	33.2
30°	255.1	237.8	219.4	201.1	184.8	168.9	151.6	136.7	79.8	40.6	30.7
32.5°	288.8	267.0	244.7	223.4	201.6	181.3	163.0	143.6	77.8	38.1	28.2
35°	333.4	305.1	277.9	251.1	224.9	200.1	176.3	154.5	77.8	35.2	25.3
37.5°	375.5	342.8	308.1	274.9	243.7	215.0	186.7	160.5	73.8	32.7	22.8
40°	421.0	381.9	341.3	302.2	264.5	228.8	196.7	166.4	70.3	29.7	20.3
42.5°	490.9	441.3	388.3	342.8	297.7	253.6	213.5	177.8	65.9	26.7	17.8
45°	582.5	519.6	457.2	401.7	344.3	290.3	242.7	198.6	64.9	24.3	15.4
47.5°	680.6	606.3	533.0	462.2	394.8	331.9	274.9	221.9	64.9	21.8	13.4
50°	778.2	685.1	606.8	524.6	448.8	374.5	306.6	246.2	65.4	19.8	10.9
52.5°	866.4	766.8	679.1	584.0	500.3	414.1	340.3	270.0	64.4	17.3	8.9
55°	988.7	871.8	770.3	665.2	567.2	470.1	386.4	305.6	64.9	15.4	7.4
57.5°	1214.1	1076.9	954.5	816.8	703.9	578.6	477.0	378.9	70.8	12.9	5.4
60°	1537.5	1359.2	1187.3	1019.4	875.8	726.7	594.9	479.5	83.2	10.4	4.0
62.5°	1755.0	1521.7	1316.6	1131.4	964.4	808.4	664.7	533.5	91.6	8.4	2.5
63°	1777.3	1536.1	1330.0	1138.8	968.4	812.4	667.7	537.4	92.1	7.9	2.5
65°	1819.4	1560.8	1337.4	1140.3	964.4	806.9	665.7	537.0	93.1	6.4	2.0
67.5°	1771.3	1522.7	1294.3	1097.7	929.8	774.7	641.0	517.1	92.6	4.5	1.5
70°	1584.1	1378.0	1177.4	994.2	841.6	701.4	583.5	471.6	85.2	3.0	1.0
72.5°	1163.1	1022.9	867.3	735.1	634.0	526.5	449.3	354.2	65.9	2.0	0.5
75°	344.8	314.0	264.0	232.8	205.6	169.9	151.1	117.9	33.7	1.0	0.0
77.5°	68.9	62.4	56.0	51.0	48.0	41.1	39.1	32.2	13.9	0.5	0.0
80°	36.2	29.7	25.3	22.3	19.3	15.9	13.4	10.9	2.5	0.0	0.0
82.5°	34.7	23.3	16.8	13.9	11.9	9.4	7.4	5.4	1.5	0.0	0.0
85°	12.9	9.9	7.4	5.9	5.0	4.5	3.5	3.0	0.0	0.0	0.0
87.5°	2.0	1.5	1.5	1.0	1.0	0.5	0.5	0.5	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°	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	88.7	84.7	82.7	80.2	80.2	79.8	80.7
5°	73.8	68.4	64.4	61.4	61.9	60.4	60.9
7.5°	62.4	57.0	53.5	51.5	51.0	50.5	50.5
10°	54.0	49.0	46.1	44.6	44.1	44.1	44.1
12.5°	48.0	43.1	40.6	39.6	39.6	39.1	39.1
15°	43.1	39.1	36.7	35.7	35.7	35.2	35.7
17.5°	39.1	35.2	33.2	32.2	32.2	31.7	31.7
20°	35.7	32.2	30.2	28.7	28.7	28.2	28.7
22.5°	32.7	29.2	26.7	25.8	25.3	24.8	25.3
25°	29.7	26.3	23.8	22.3	21.8	21.8	21.3
27.5°	27.2	23.8	20.8	19.3	18.8	18.8	18.3
30°	24.8	20.8	17.8	16.3	15.9	15.9	15.9
32.5°	22.3	17.8	15.4	13.9	13.4	13.4	13.4
35°	19.8	15.4	12.9	11.4	10.9	10.9	10.9
37.5°	16.8	12.9	9.9	8.9	8.4	7.9	7.9
40°	14.4	9.9	7.4	6.4	5.4	5.4	5.4
42.5°	11.9	7.9	5.4	4.0	3.5	3.0	3.5
45°	9.9	5.9	3.5	2.0	1.5	1.5	1.5
47.5°	7.9	4.0	1.5	0.5	0.5	0.5	0.5
50°	5.9	2.5	0.5	0.0	0.0	0.5	0.5
52.5°	4.5	1.5	0.0	0.0	0.0	0.0	0.0
55°	2.5	0.5	0.0	0.0	0.0	0.0	0.0
57.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.5	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)