

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: P180441

Luminaire Tested: **ICS-F03-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180441  
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-F03-LED-E1-SL2-HSS-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

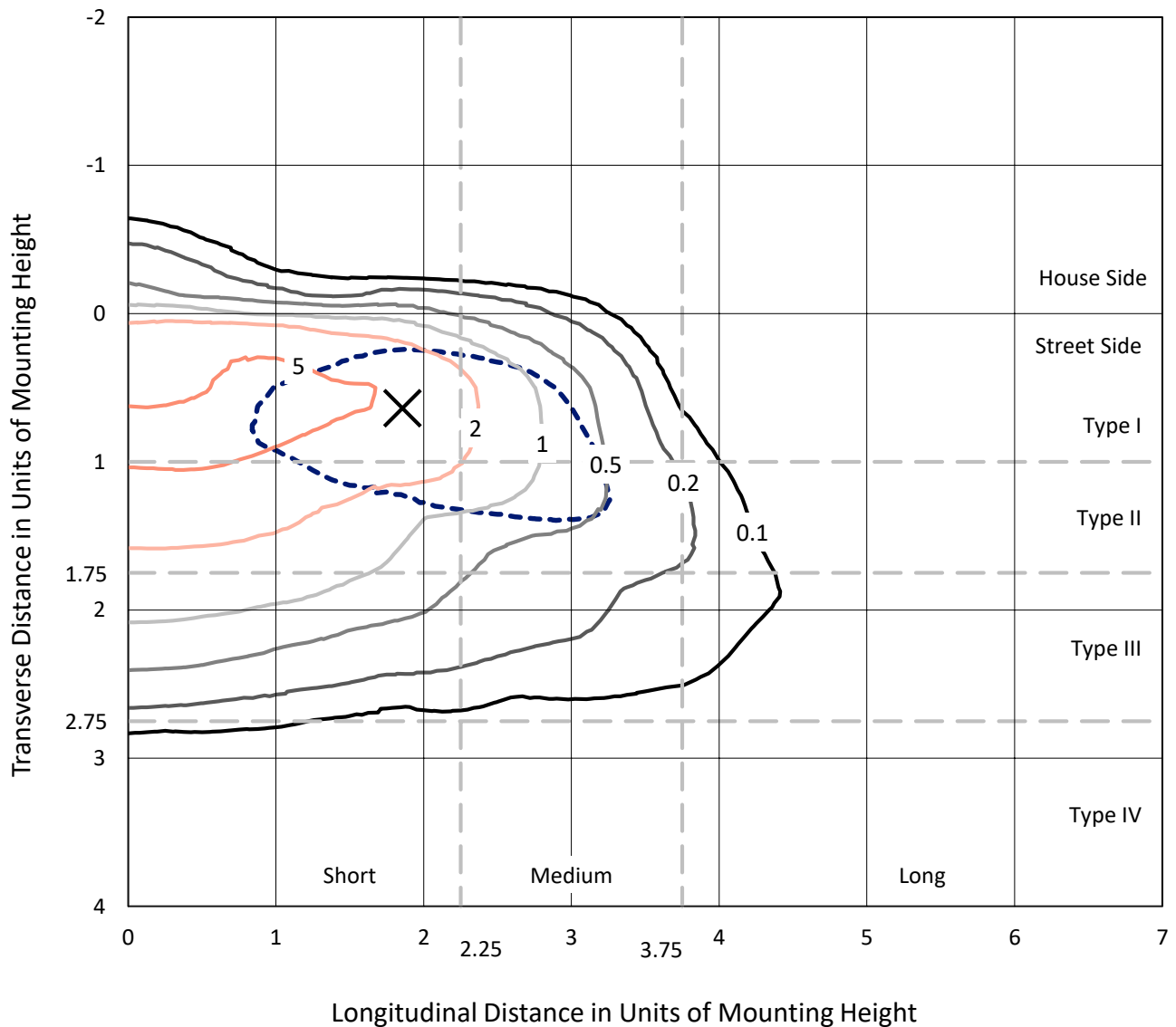
Lumens per Lamp: N/A  
Luminaire Lumens: 3449.5 lumens  
Efficiency: N/A  
Efficacy: 44.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 78.3  
Input Voltage (V): NR  
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

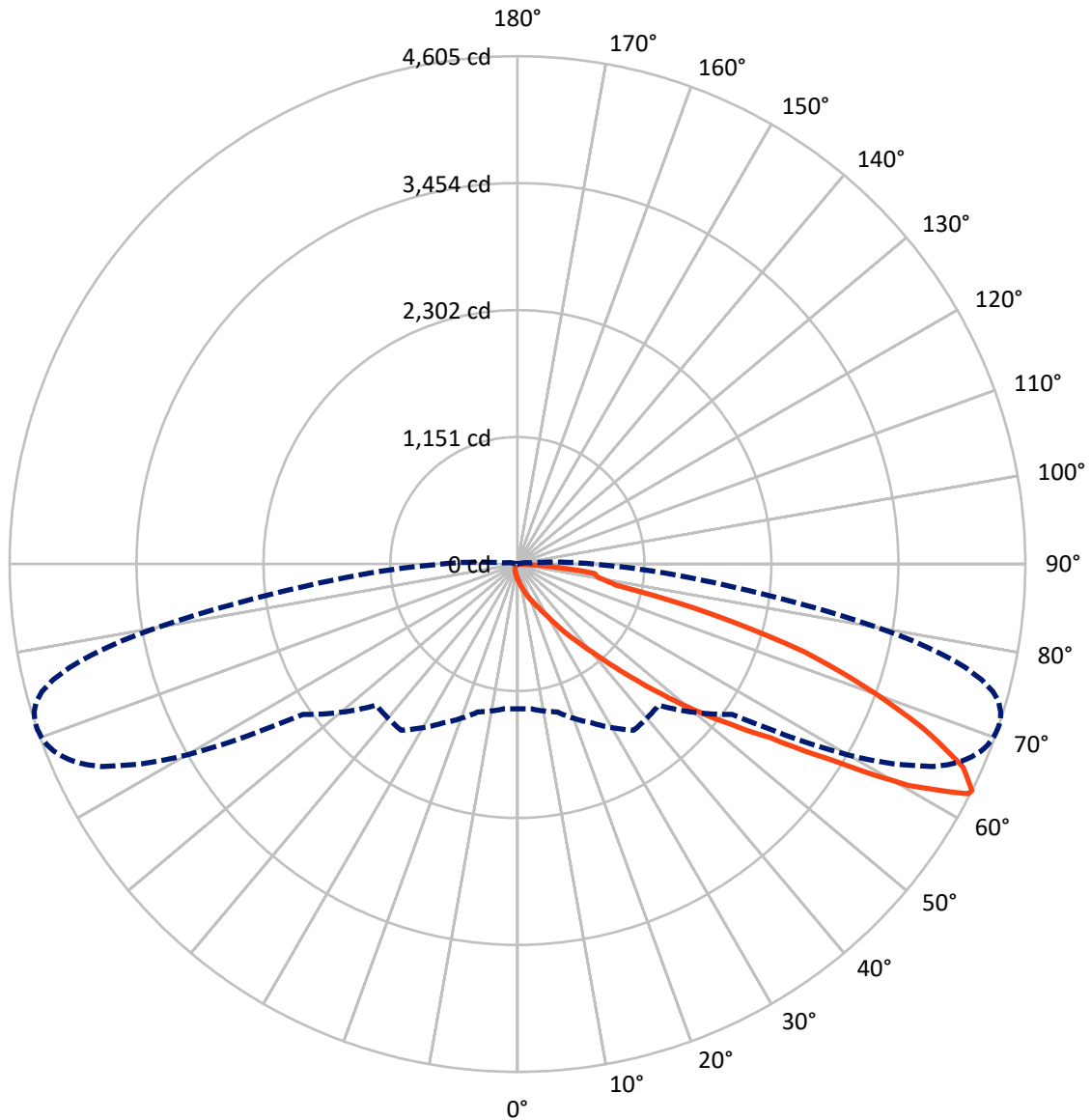
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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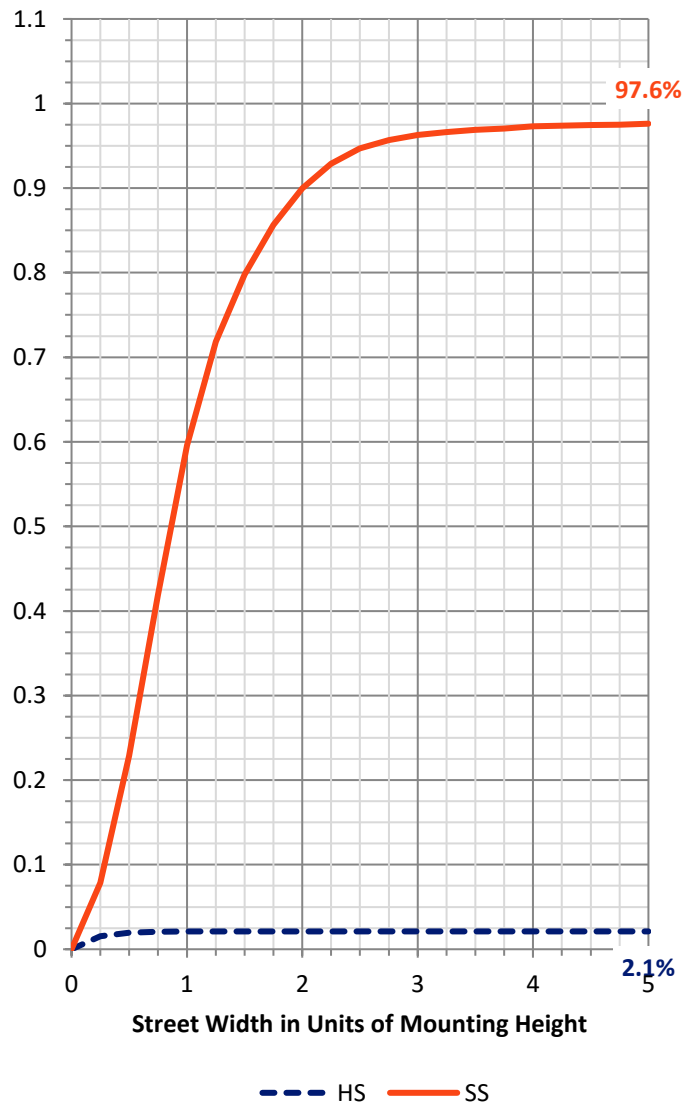
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	73.2	0.0	73.2
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	3376.2	0.0	3376.2
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	3449.5	0.0	3449.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.6	0.4
10°-20°	56.7	1.6
20°-30°	115.2	3.3
30°-40°	281.5	8.2
40°-50°	629.5	18.2
50°-60°	885.1	25.7
60°-70°	1040.8	30.2
70°-80°	375.8	10.9
80°-90°	50.3	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°	3449.5	100.0
0°-180°	3449.5	100.0



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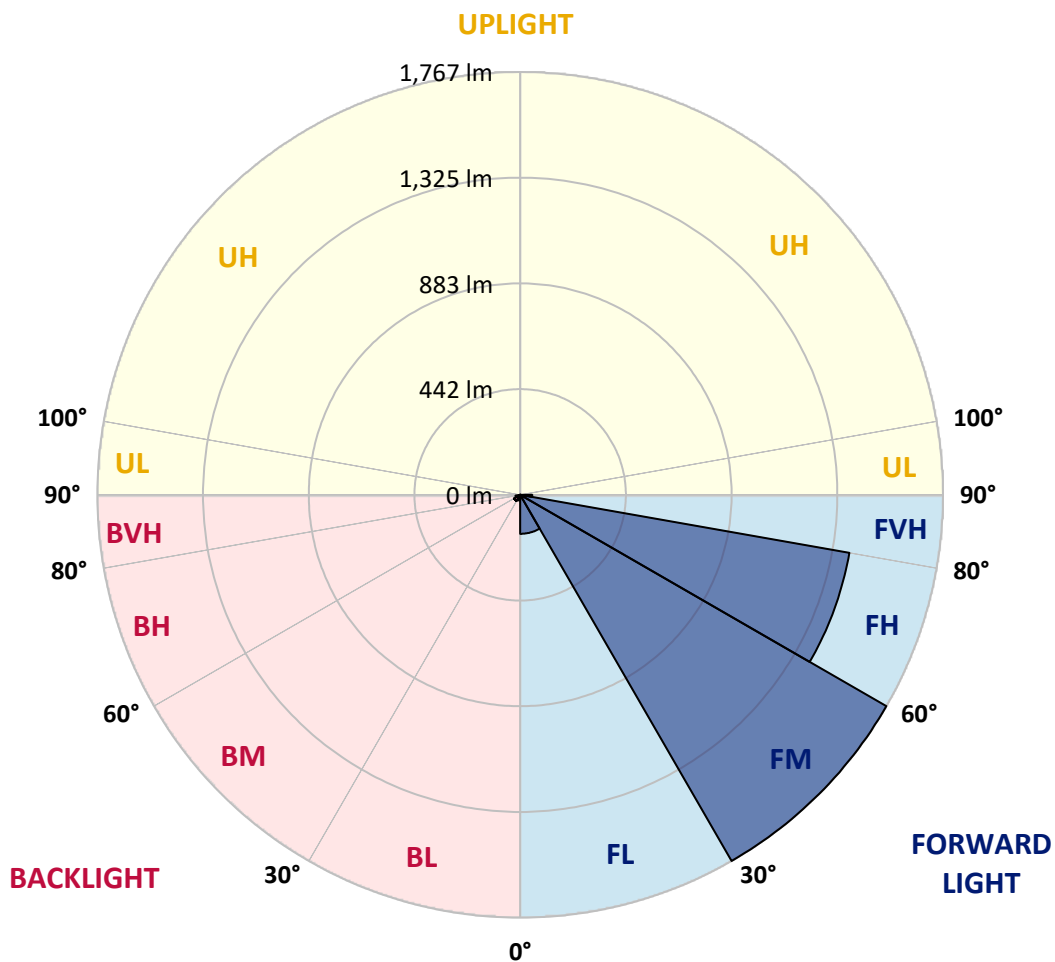
CATALOG NUMBER: ICS-F03-LED-E1-SL2-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.0	4.7			
FM	(30°-60°)	1766.5	51.2			
FH	(60°-80°)	1396.6	40.5			G1/1800
FVH	(80°-90°)	50.2	1.5			G1/100
BL	(0°-30°)	23.5	0.7	B0/110		
BM	(30°-60°)	29.5	0.9	B0/220		
BH	(60°-80°)	20.1	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°	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3
2.5°	173.1	175.0	173.7	170.6	166.8	161.8	157.4	157.4	156.8	154.9	155.5
5°	227.0	227.6	225.1	217.6	210.7	200.0	188.1	186.9	185.6	183.7	183.1
7.5°	279.7	282.2	279.7	271.5	257.7	241.4	222.6	220.7	217.0	217.0	214.5
10°	333.6	333.6	331.1	321.7	309.2	286.0	262.1	259.0	254.6	253.3	249.6
12.5°	371.9	371.9	370.6	365.6	355.6	334.9	306.0	302.9	297.2	295.4	291.0
15°	386.9	386.9	387.5	391.9	392.6	383.2	353.1	350.5	344.9	339.9	338.0
17.5°	396.3	395.7	395.7	402.0	413.3	419.5	400.1	397.6	391.3	388.8	382.5
20°	417.0	415.8	412.0	412.0	422.7	444.6	444.6	444.0	437.1	435.2	432.1
22.5°	447.7	446.5	435.2	425.8	430.8	458.4	484.1	482.9	480.4	477.8	476.0
25°	497.9	493.5	474.1	446.5	442.1	471.6	514.2	517.4	519.2	519.2	520.5
27.5°	573.8	568.1	533.7	482.2	462.8	492.9	547.5	553.7	559.4	560.6	566.3
30°	679.1	669.1	619.6	544.3	499.8	524.3	596.4	603.3	611.4	613.9	622.7
32.5°	852.2	846.6	798.9	686.0	590.7	585.7	664.7	673.5	684.2	688.6	699.2
35°	1115.6	1116.9	1078.0	976.4	844.7	775.7	787.0	794.5	798.3	811.5	817.1
37.5°	1294.3	1297.5	1306.2	1266.1	1172.0	1101.8	1013.4	1021.5	1002.1	1004.0	1004.6
40°	1392.2	1402.2	1453.6	1492.5	1485.0	1444.2	1373.3	1377.7	1341.4	1333.2	1293.7
42.5°	1457.4	1470.5	1552.7	1673.1	1734.5	1771.5	1755.2	1753.4	1725.1	1714.5	1681.2
45°	1498.1	1510.0	1613.5	1791.0	1932.7	2040.6	2085.1	2090.1	2066.3	2055.6	2028.0
47.5°	1496.3	1510.0	1621.0	1834.9	2043.7	2216.2	2341.6	2347.8	2362.3	2352.9	2354.7
50°	1413.5	1426.6	1538.3	1760.3	2011.1	2296.4	2525.9	2546.0	2569.2	2584.9	2592.4
52.5°	1313.1	1322.5	1421.6	1632.3	1871.9	2263.2	2635.1	2669.5	2704.0	2733.5	2754.2
55°	1276.1	1286.8	1364.6	1539.5	1760.3	2124.0	2685.9	2736.6	2785.6	2833.8	2873.4
57.5°	1295.6	1305.6	1361.4	1495.6	1693.8	1977.2	2700.3	2779.3	2859.6	2937.9	3015.7
60°	1367.1	1377.7	1425.4	1536.4	1676.2	1892.6	2643.8	2774.9	2908.5	3045.2	3173.7
62.5°	1338.9	1343.2	1413.5	1607.9	1801.6	1820.5	2438.8	2621.9	2825.7	3036.4	3244.0
63°	1311.9	1316.9	1388.4	1588.4	1839.9	1809.8	2375.4	2568.6	2783.7	3010.7	3236.4
65°	1189.6	1190.2	1244.8	1402.8	1797.3	1828.6	2093.2	2277.6	2524.7	2796.8	3082.2
67.5°	888.0	883.6	936.3	1056.7	1411.0	1829.2	1796.6	1900.1	2071.9	2313.4	2569.2
70°	314.8	307.9	393.2	560.0	879.2	1496.3	1543.9	1550.8	1598.5	1728.9	1889.4
72.5°	102.2	104.1	125.4	205.1	405.1	1007.1	1397.8	1376.5	1363.9	1363.3	1384.6
75°	40.8	41.4	50.2	90.9	181.9	485.4	1224.1	1236.0	1240.4	1246.7	1253.6
77.5°	19.4	21.3	28.2	50.8	90.3	240.2	876.1	977.0	1034.7	1079.2	1106.2
80°	6.9	8.2	15.7	31.4	42.0	110.4	461.5	556.9	641.5	750.6	844.7
82.5°	0.0	0.0	3.1	21.9	23.2	44.5	189.4	222.0	254.0	329.2	422.7
85°	0.0	0.0	0.0	6.3	6.9	7.5	64.0	77.1	86.5	101.0	116.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	3.8	9.4	14.4
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°	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3
2.5°	154.3	153.6	153.6	152.4	151.8	150.5	149.9	148.0	147.4	147.4	147.4
5°	182.5	180.0	178.7	175.6	173.7	173.1	169.9	168.7	166.8	167.4	164.3
7.5°	213.8	209.5	207.6	203.2	201.9	197.5	196.3	193.1	191.3	187.5	186.2
10°	248.3	242.7	239.6	232.7	230.8	227.6	223.9	220.1	217.0	213.2	211.3
12.5°	287.8	282.8	280.3	270.9	266.5	262.1	257.1	252.1	247.1	243.9	239.6
15°	334.2	326.1	323.6	314.8	307.3	301.6	294.7	288.5	284.7	278.4	274.0
17.5°	380.0	371.9	370.0	356.8	348.7	344.9	337.4	329.2	322.3	316.1	309.2
20°	425.8	420.2	415.1	402.6	393.8	387.5	377.5	369.4	363.7	354.9	346.2
22.5°	471.6	465.9	462.2	449.0	440.8	432.1	423.3	414.5	406.4	395.7	385.7
25°	518.6	514.8	513.0	501.0	493.5	485.4	476.6	466.6	456.5	444.6	434.0
27.5°	567.5	568.8	565.0	562.5	554.4	548.7	534.9	528.0	520.5	506.1	492.9
30°	629.6	633.4	632.1	634.0	629.0	625.2	614.6	605.8	597.0	583.2	568.1
32.5°	708.0	713.0	715.5	722.4	719.9	718.7	715.5	703.0	696.7	672.9	666.6
35°	829.0	826.5	837.2	842.8	840.3	839.1	835.3	828.4	820.9	803.9	788.3
37.5°	986.4	988.9	992.7	981.4	973.9	973.3	962.0	955.1	944.4	925.6	906.8
40°	1274.9	1259.2	1241.7	1194.0	1173.3	1161.4	1128.1	1118.7	1100.6	1074.8	1055.4
42.5°	1649.9	1634.2	1581.5	1501.9	1459.3	1400.3	1373.3	1340.1	1314.4	1272.4	1249.8
45°	2022.4	1977.2	1971.0	1878.2	1825.5	1747.7	1699.4	1643.6	1585.3	1530.1	1490.0
47.5°	2336.6	2326.5	2295.8	2239.4	2190.4	2125.2	2063.1	1977.2	1917.0	1838.6	1766.5
50°	2588.0	2587.4	2576.1	2543.5	2502.7	2450.1	2395.5	2322.8	2254.4	2158.5	2081.3
52.5°	2776.2	2786.2	2790.0	2779.9	2764.2	2717.8	2690.2	2629.4	2571.7	2490.2	2406.8
55°	2914.1	2951.1	2969.9	2991.2	2986.9	2970.6	2969.3	2929.8	2903.5	2838.9	2779.9
57.5°	3084.7	3145.5	3203.8	3307.3	3311.1	3347.4	3366.3	3385.1	3390.1	3364.4	3344.9
60°	3301.7	3425.8	3536.2	3752.5	3809.0	3898.0	3955.7	4018.4	4071.7	4076.1	4074.9
62.5°	3454.7	3645.9	3824.0	4145.1	4254.8	4357.7	4434.8	4495.7	4532.7	4570.3	4587.8
63°	3459.1	3668.5	3857.9	4189.0	4304.4	4402.2	4475.6	4532.0	4570.9	4593.5	4604.8
65°	3353.1	3607.1	3832.8	4162.7	4271.2	4369.6	4407.9	4444.9	4463.7	4472.4	4439.2
67.5°	2842.0	3090.3	3353.7	3722.4	3815.3	3933.1	3964.5	3983.3	3992.1	3990.2	3962.0
70°	2125.2	2333.4	2626.3	3047.7	3170.6	3286.0	3357.5	3388.2	3398.2	3395.1	3353.1
72.5°	1483.7	1606.0	1847.4	2316.5	2483.9	2631.9	2720.3	2766.1	2775.5	2756.7	2717.8
75°	1246.0	1252.3	1306.9	1563.4	1720.1	1878.2	1977.9	2006.7	1987.9	1930.8	1831.7
77.5°	1112.5	1126.3	1126.3	1164.5	1195.2	1239.1	1248.5	1178.3	1096.8	991.4	906.2
80°	933.1	981.4	1015.3	1043.5	1046.6	1037.8	1014.6	975.1	912.4	832.2	743.1
82.5°	566.9	662.2	701.1	846.6	918.1	966.4	962.6	909.9	862.3	778.9	703.0
85°	143.0	154.3	167.4	217.6	243.9	297.9	331.7	347.4	353.1	324.2	293.5
87.5°	13.8	9.4	15.7	11.9	16.9	12.5	16.9	15.7	19.4	20.7	22.6
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°	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3
2.5°	146.1	145.5	144.9	144.2	143.6	143.0	141.7	141.7	140.5	139.8	139.2
5°	162.4	161.2	160.5	159.3	157.4	156.1	154.3	151.8	149.9	149.2	148.0
7.5°	183.1	180.0	178.7	176.8	174.3	170.6	168.1	166.2	163.0	161.2	157.4
10°	206.3	203.2	199.4	195.7	191.9	187.5	184.4	181.9	176.8	174.3	169.9
12.5°	235.8	230.1	225.8	220.7	215.7	210.7	206.9	199.4	195.0	189.4	185.6
15°	265.9	260.9	255.9	249.6	242.1	233.9	230.1	223.2	217.6	208.8	203.8
17.5°	302.3	292.9	285.3	277.8	270.9	263.4	255.9	245.2	237.0	229.5	219.5
20°	338.0	326.7	318.6	308.5	298.5	286.6	277.8	270.3	259.0	249.0	238.3
22.5°	376.3	365.0	351.8	341.8	328.0	318.6	306.6	294.1	282.8	269.7	256.5
25°	422.7	410.7	395.7	382.5	366.9	353.7	339.3	324.8	311.0	296.0	279.1
27.5°	479.7	467.2	450.9	435.2	414.5	398.2	384.4	365.0	347.4	328.6	309.2
30°	551.8	538.0	518.0	495.4	474.7	456.5	437.1	411.4	391.9	369.4	344.3
32.5°	645.9	629.6	602.6	581.3	555.6	531.8	504.8	479.1	451.5	422.0	393.2
35°	764.4	749.4	718.0	686.7	658.5	630.2	596.4	566.9	528.0	492.3	455.3
37.5°	887.3	860.4	831.5	797.7	762.5	728.7	687.3	646.5	602.0	563.1	516.7
40°	1027.8	995.2	971.4	935.0	885.5	837.2	798.9	748.1	692.3	640.3	585.7
42.5°	1220.3	1184.0	1141.3	1086.1	1050.4	993.9	944.4	884.2	810.8	752.5	686.7
45°	1442.9	1393.4	1352.0	1298.7	1255.4	1185.2	1127.5	1047.3	973.9	897.4	817.1
47.5°	1696.9	1635.5	1575.3	1522.6	1453.6	1384.6	1311.3	1226.0	1131.9	1047.9	952.6
50°	1988.5	1901.4	1818.0	1750.2	1655.5	1575.9	1496.3	1400.3	1296.2	1199.6	1091.1
52.5°	2312.7	2211.8	2101.4	1997.3	1887.6	1785.3	1689.4	1579.0	1463.0	1345.1	1224.1
55°	2704.0	2628.2	2498.4	2366.0	2219.3	2082.6	1959.0	1822.3	1681.2	1526.4	1399.1
57.5°	3316.7	3279.7	3171.2	3038.9	2847.6	2681.5	2472.0	2304.6	2100.1	1886.9	1722.6
60°	4147.0	4101.2	4040.4	3933.1	3781.4	3555.6	3324.9	3064.6	2753.6	2458.2	2177.9
62.5°	4589.7	4573.4	4523.9	4449.9	4308.2	4130.1	3897.4	3611.4	3260.3	2901.6	2544.1
63°	4602.9	4582.2	4539.5	4464.3	4339.5	4167.1	3938.8	3661.0	3317.3	2951.7	2586.8
65°	4424.8	4416.6	4373.4	4291.2	4205.9	4074.2	3897.4	3658.5	3370.0	3024.5	2661.4
67.5°	3924.4	3899.9	3833.4	3808.4	3748.8	3657.2	3522.4	3358.1	3151.8	2880.3	2566.7
70°	3319.2	3282.8	3199.4	3154.9	3082.2	3024.5	2942.3	2825.1	2697.8	2508.4	2274.5
72.5°	2677.7	2602.4	2525.9	2409.9	2308.3	2205.5	2114.6	2031.8	1891.9	1815.4	1638.0
75°	1738.9	1602.2	1471.2	1295.6	1137.6	997.7	861.6	792.6	649.0	590.7	507.3
77.5°	825.3	748.8	645.9	566.3	464.7	379.4	309.8	232.7	182.5	143.0	109.1
80°	666.0	601.4	539.3	467.2	390.7	311.7	238.9	178.7	126.7	87.8	62.1
82.5°	593.9	523.6	447.1	397.6	345.5	282.8	232.0	189.4	139.8	102.2	69.6
85°	230.8	194.4	149.9	122.3	95.3	78.4	70.9	48.9	38.3	30.1	23.2
87.5°	20.1	16.3	13.2	8.8	9.4	5.0	5.6	3.8	3.1	3.1	2.5
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3
2.5°	138.6	138.0	137.3	136.1	136.1	134.8	134.2	133.6	130.4	123.5	117.9
5°	145.5	144.2	143.0	141.1	139.8	138.0	136.7	134.8	127.9	114.8	103.5
7.5°	155.5	153.0	151.1	147.4	145.5	143.0	141.1	138.0	126.7	106.6	90.9
10°	167.4	163.0	159.9	155.5	151.8	148.6	145.5	141.1	125.4	97.8	79.6
12.5°	181.9	176.8	170.6	165.6	160.5	156.1	151.8	146.1	123.5	90.3	70.9
15°	196.3	188.8	184.4	177.5	170.6	164.3	158.0	153.0	124.2	82.1	63.3
17.5°	212.6	205.1	195.7	188.1	180.6	172.5	164.9	154.9	121.0	75.9	57.7
20°	228.3	217.6	208.8	199.4	188.8	178.7	169.3	160.5	118.5	69.6	52.7
22.5°	245.2	232.7	221.4	209.5	196.3	185.0	173.7	162.4	114.1	64.0	48.3
25°	265.9	251.5	235.2	220.7	206.9	193.1	178.7	164.9	109.7	58.9	45.2
27.5°	291.0	272.2	255.9	237.7	218.2	200.7	185.0	169.9	105.4	55.2	42.0
30°	323.0	301.0	277.8	254.6	233.9	213.8	191.9	173.1	101.0	51.4	38.9
32.5°	365.6	338.0	309.8	282.8	255.2	229.5	206.3	181.9	98.5	48.3	35.7
35°	422.0	386.3	351.8	317.9	284.7	253.3	223.2	195.7	98.5	44.5	32.0
37.5°	475.3	434.0	390.1	348.0	308.5	272.2	236.4	203.2	93.4	41.4	28.8
40°	533.0	483.5	432.1	382.5	334.9	289.7	249.0	210.7	89.0	37.6	25.7
42.5°	621.5	558.7	491.6	434.0	376.9	321.1	270.3	225.1	83.4	33.9	22.6
45°	737.5	657.8	578.8	508.6	435.8	367.5	307.3	251.5	82.1	30.7	19.4
47.5°	861.6	767.6	674.8	585.1	499.8	420.2	348.0	280.9	82.1	27.6	16.9
50°	985.2	867.3	768.2	664.1	568.1	474.1	388.2	311.7	82.8	25.1	13.8
52.5°	1096.8	970.7	859.7	739.3	633.4	524.3	430.8	341.8	81.5	21.9	11.3
55°	1251.7	1103.7	975.1	842.2	718.0	595.1	489.1	386.9	82.1	19.4	9.4
57.5°	1537.0	1363.3	1208.4	1034.1	891.1	732.4	603.9	479.7	89.7	16.3	6.9
60°	1946.5	1720.8	1503.1	1290.6	1108.7	919.9	753.1	607.0	105.4	13.2	5.0
62.5°	2221.8	1926.4	1666.8	1432.3	1221.0	1023.4	841.6	675.4	116.0	10.7	3.1
63°	2250.0	1944.6	1683.8	1441.7	1226.0	1028.4	845.3	680.4	116.6	10.0	3.1
65°	2303.3	1976.0	1693.2	1443.6	1221.0	1021.5	842.8	679.8	117.9	8.2	2.5
67.5°	2242.5	1927.7	1638.6	1389.6	1177.1	980.8	811.5	654.7	117.3	5.6	1.9
70°	2005.5	1744.6	1490.6	1258.6	1065.4	888.0	738.7	597.0	107.9	3.8	1.3
72.5°	1472.4	1295.0	1098.0	930.6	802.7	666.6	568.8	448.4	83.4	2.5	0.6
75°	436.5	397.6	334.2	294.7	260.2	215.1	191.3	149.2	42.6	1.3	0.0
77.5°	87.2	79.0	70.9	64.6	60.8	52.0	49.5	40.8	17.6	0.6	0.0
80°	45.8	37.6	32.0	28.2	24.5	20.1	16.9	13.8	3.1	0.0	0.0
82.5°	43.9	29.5	21.3	17.6	15.1	11.9	9.4	6.9	1.9	0.0	0.0
85°	16.3	12.5	9.4	7.5	6.3	5.6	4.4	3.8	0.0	0.0	0.0
87.5°	2.5	1.9	1.9	1.3	1.3	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°	132.3	132.3	132.3	132.3	132.3	132.3	132.3
2.5°	112.3	107.2	104.7	101.6	101.6	101.0	102.2
5°	93.4	86.5	81.5	77.8	78.4	76.5	77.1
7.5°	79.0	72.1	67.7	65.2	64.6	64.0	64.0
10°	68.4	62.1	58.3	56.4	55.8	55.8	55.8
12.5°	60.8	54.6	51.4	50.2	50.2	49.5	49.5
15°	54.6	49.5	46.4	45.2	45.2	44.5	45.2
17.5°	49.5	44.5	42.0	40.8	40.8	40.1	40.1
20°	45.2	40.8	38.3	36.4	36.4	35.7	36.4
22.5°	41.4	37.0	33.9	32.6	32.0	31.4	32.0
25°	37.6	33.2	30.1	28.2	27.6	27.6	27.0
27.5°	34.5	30.1	26.3	24.5	23.8	23.8	23.2
30°	31.4	26.3	22.6	20.7	20.1	20.1	20.1
32.5°	28.2	22.6	19.4	17.6	16.9	16.9	16.9
35°	25.1	19.4	16.3	14.4	13.8	13.8	13.8
37.5°	21.3	16.3	12.5	11.3	10.7	10.0	10.0
40°	18.2	12.5	9.4	8.2	6.9	6.9	6.9
42.5°	15.1	10.0	6.9	5.0	4.4	3.8	4.4
45°	12.5	7.5	4.4	2.5	1.9	1.9	1.9
47.5°	10.0	5.0	1.9	0.6	0.6	0.6	0.6
50°	7.5	3.1	0.6	0.0	0.0	0.6	0.6
52.5°	5.6	1.9	0.0	0.0	0.0	0.0	0.0
55°	3.1	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.3	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)