

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: P180446

Luminaire Tested: **ICS-E04-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180446  
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-E04-LED-E1-SL2-HSS-8030  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

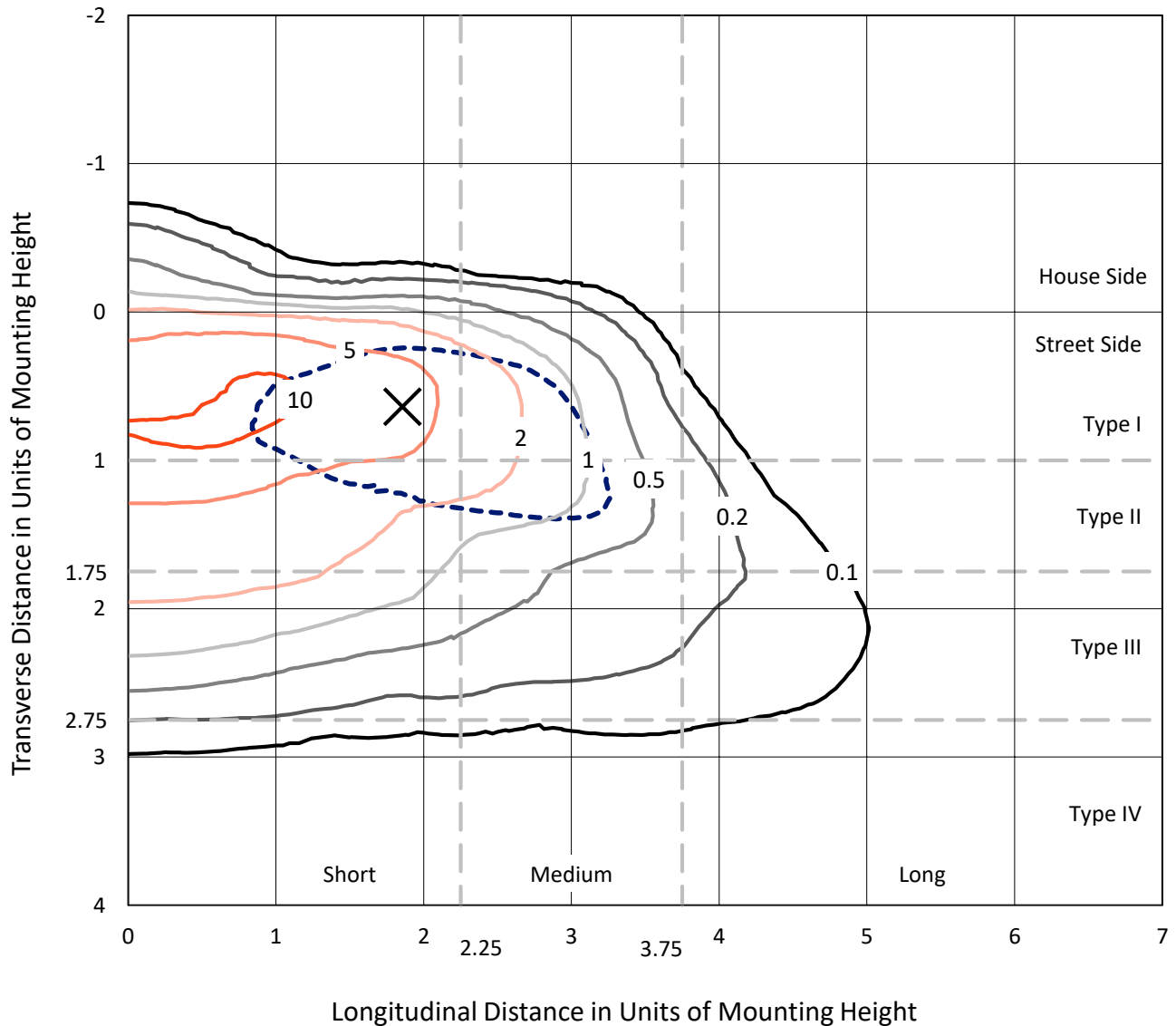
Lumens per Lamp: N/A  
Luminaire Lumens: 5571.4 lumens  
Efficiency: N/A  
Efficacy: 57.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 97.2  
Input Voltage (V): NR  
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

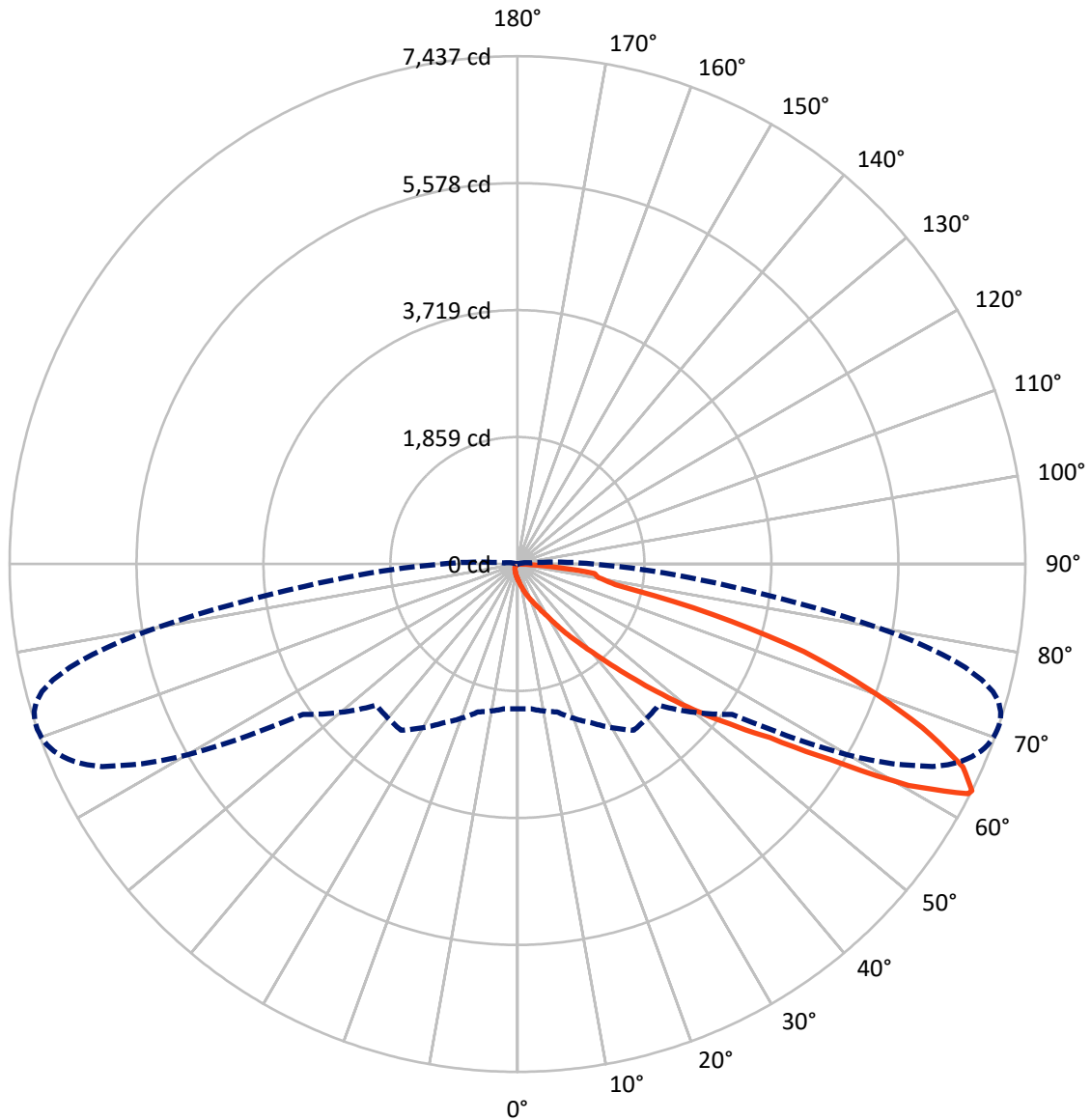
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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	118.3	0.0	118.3
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	5453.1	0.0	5453.1
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	5571.4	0.0	5571.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.6	0.4
10°-20°	91.6	1.6
20°-30°	186.1	3.3
30°-40°	454.6	8.2
40°-50°	1016.7	18.2
50°-60°	1429.6	25.7
60°-70°	1681.1	30.2
70°-80°	607.0	10.9
80°-90°	81.2	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°	5571.4	100.0
0°-180°	5571.4	100.0



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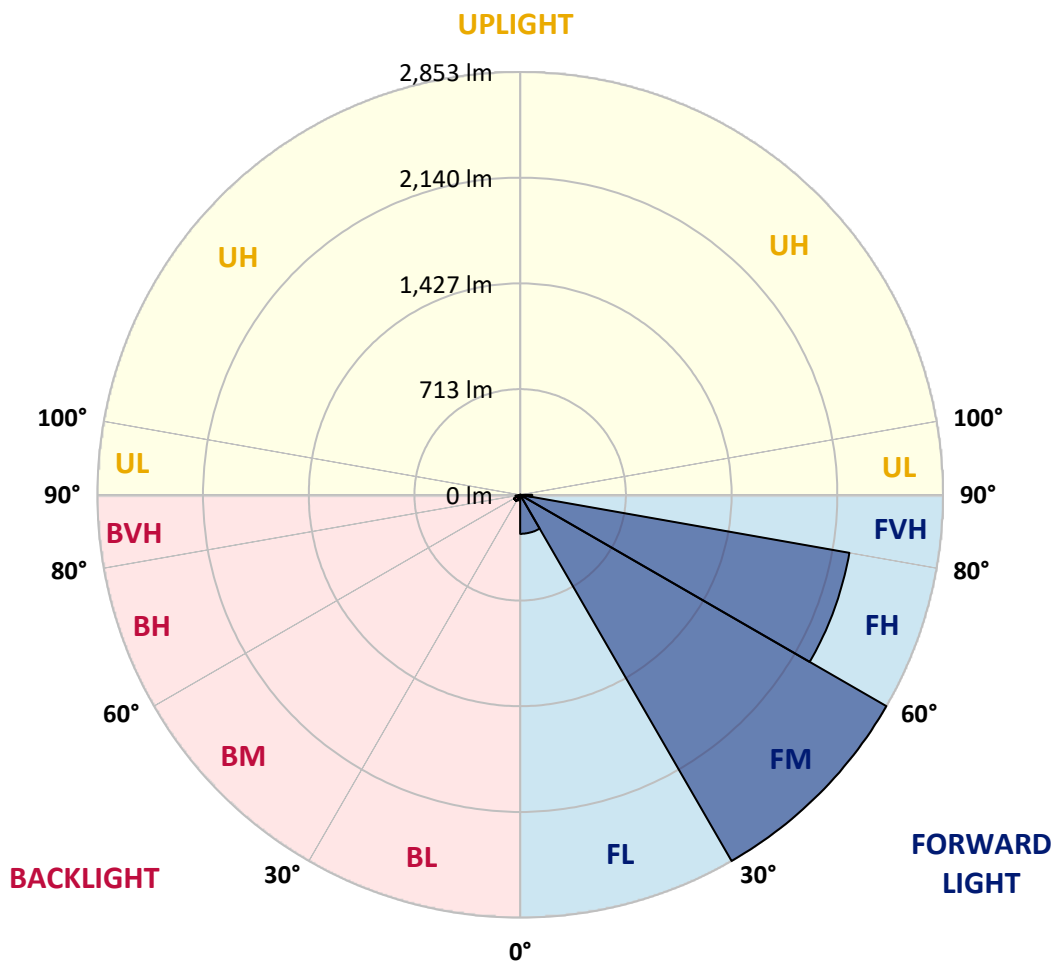
CATALOG NUMBER: ICS-E04-LED-E1-SL2-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.3	4.7			
FM	(30°-60°)	2853.2	51.2			
FH	(60°-80°)	2255.6	40.5			G2/5000
FVH	(80°-90°)	81.0	1.5			G1/100
BL	(0°-30°)	38.0	0.7	B0/110		
BM	(30°-60°)	47.7	0.9	B0/220		
BH	(60°-80°)	32.4	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	279.5	282.6	280.6	275.5	269.4	261.3	254.2	254.2	253.2	250.2	251.2
5°	366.6	367.7	363.6	351.5	340.3	323.1	303.9	301.8	299.8	296.8	295.8
7.5°	451.7	455.8	451.7	438.6	416.3	389.9	359.6	356.5	350.4	350.4	346.4
10°	538.8	538.8	534.8	519.6	499.3	461.9	423.4	418.3	411.2	409.2	403.1
12.5°	600.6	600.6	598.6	590.5	574.3	540.9	494.3	489.2	480.1	477.0	470.0
15°	624.9	624.9	625.9	633.0	634.0	618.8	570.2	566.2	557.1	549.0	545.9
17.5°	640.1	639.1	639.1	649.2	667.5	677.6	646.2	642.1	632.0	628.0	617.8
20°	673.5	671.5	665.4	665.4	682.7	718.1	718.1	717.1	706.0	702.9	697.8
22.5°	723.2	721.1	702.9	687.7	695.8	740.4	781.9	779.9	775.8	771.8	768.7
25°	804.2	797.1	765.7	721.1	714.1	761.7	830.5	835.6	838.6	838.6	840.7
27.5°	926.8	917.6	861.9	778.9	747.5	796.1	884.2	894.3	903.5	905.5	914.6
30°	1096.9	1080.7	1000.7	879.1	807.2	846.7	963.2	974.4	987.5	991.6	1005.8
32.5°	1376.5	1367.3	1290.4	1108.1	954.1	946.0	1073.6	1087.8	1105.0	1112.1	1129.3
35°	1801.8	1803.9	1741.1	1577.0	1364.3	1252.9	1271.1	1283.3	1289.4	1310.6	1319.7
37.5°	2090.5	2095.6	2109.8	2044.9	1893.0	1779.6	1636.8	1649.9	1618.5	1621.6	1622.6
40°	2248.5	2264.7	2347.8	2410.6	2398.4	2332.6	2218.1	2225.2	2166.5	2153.3	2089.5
42.5°	2353.8	2375.1	2507.8	2702.3	2801.5	2861.3	2835.0	2831.9	2786.3	2769.1	2715.4
45°	2419.7	2438.9	2606.0	2892.7	3121.6	3295.8	3367.7	3375.8	3337.3	3320.1	3275.5
47.5°	2416.6	2438.9	2618.2	2963.6	3300.9	3579.4	3782.0	3792.1	3815.4	3800.2	3803.2
50°	2283.0	2304.2	2484.5	2843.1	3248.2	3709.0	4079.7	4112.1	4149.6	4174.9	4187.1
52.5°	2120.9	2136.1	2296.1	2636.4	3023.3	3655.4	4256.0	4311.7	4367.4	4415.0	4448.4
55°	2061.1	2078.4	2203.9	2486.5	2843.1	3430.5	4338.0	4420.1	4499.1	4577.0	4640.9
57.5°	2092.5	2108.7	2198.9	2415.6	2735.7	3193.5	4361.3	4488.9	4618.6	4745.2	4870.8
60°	2208.0	2225.2	2302.2	2481.5	2707.3	3056.8	4270.2	4481.8	4697.6	4918.4	5126.0
62.5°	2162.4	2169.5	2283.0	2596.9	2909.9	2940.3	3939.0	4234.7	4563.9	4904.2	5239.4
63°	2118.9	2127.0	2242.4	2565.5	2971.7	2923.1	3836.7	4148.6	4496.0	4862.7	5227.3
65°	1921.4	1922.4	2010.5	2265.7	2902.8	2953.5	3380.9	3678.7	4077.7	4517.3	4978.1
67.5°	1434.2	1427.1	1512.2	1706.6	2278.9	2954.5	2901.8	3068.9	3346.4	3736.4	4149.6
70°	508.4	497.3	635.1	904.5	1420.0	2416.6	2493.6	2504.8	2581.7	2792.4	3051.7
72.5°	165.1	168.1	202.6	331.2	654.3	1626.6	2257.6	2223.2	2202.9	2201.9	2236.4
75°	65.8	66.8	81.0	146.9	293.7	783.9	1977.1	1996.3	2003.4	2013.5	2024.7
77.5°	31.4	34.4	45.6	82.0	145.8	387.9	1414.9	1578.0	1671.2	1743.1	1786.7
80°	11.1	13.2	25.3	50.6	67.9	178.3	745.5	899.4	1036.1	1212.4	1364.3
82.5°	0.0	0.0	5.1	35.4	37.5	71.9	305.9	358.5	410.2	531.7	682.7
85°	0.0	0.0	0.0	10.1	11.1	12.2	103.3	124.6	139.8	163.1	188.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	6.1	15.2	23.3
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°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	249.2	248.1	248.1	246.1	245.1	243.1	242.1	239.0	238.0	238.0	238.0
5°	294.7	290.7	288.7	283.6	280.6	279.5	274.5	272.5	269.4	270.4	265.4
7.5°	345.4	338.3	335.3	328.2	326.1	319.0	317.0	312.0	308.9	302.8	300.8
10°	401.1	392.0	386.9	375.8	372.7	367.7	361.6	355.5	350.4	344.4	341.3
12.5°	464.9	456.8	452.7	437.5	430.5	423.4	415.3	407.2	399.1	394.0	386.9
15°	539.8	526.7	522.6	508.4	496.3	487.2	476.0	465.9	459.8	449.7	442.6
17.5°	613.8	600.6	597.6	576.3	563.1	557.1	544.9	531.7	520.6	510.5	499.3
20°	687.7	678.6	670.5	650.2	636.1	625.9	609.7	596.6	587.4	573.3	559.1
22.5°	761.7	752.5	746.5	725.2	712.0	697.8	683.7	669.5	656.3	639.1	622.9
25°	837.6	831.5	828.5	809.3	797.1	783.9	769.8	753.6	737.4	718.1	700.9
27.5°	916.6	918.6	912.6	908.5	895.4	886.2	864.0	852.8	840.7	817.4	796.1
30°	1016.9	1023.0	1020.9	1024.0	1015.9	1009.8	992.6	978.4	964.2	941.9	917.6
32.5°	1143.5	1151.6	1155.7	1166.8	1162.7	1160.7	1155.7	1135.4	1125.3	1086.8	1076.7
35°	1339.0	1334.9	1352.1	1361.3	1357.2	1355.2	1349.1	1338.0	1325.8	1298.5	1273.1
37.5°	1593.2	1597.3	1603.3	1585.1	1572.9	1571.9	1553.7	1542.6	1525.3	1495.0	1464.6
40°	2059.1	2033.8	2005.4	1928.5	1895.0	1875.8	1822.1	1806.9	1777.5	1736.0	1704.6
42.5°	2664.8	2639.5	2554.4	2425.8	2356.9	2261.7	2218.1	2164.4	2122.9	2055.1	2018.6
45°	3266.4	3193.5	3183.4	3033.5	2948.4	2822.8	2744.8	2654.7	2560.5	2471.3	2406.5
47.5°	3773.9	3757.7	3708.0	3616.9	3537.9	3432.5	3332.3	3193.5	3096.3	2969.7	2853.2
50°	4180.0	4179.0	4160.8	4108.1	4042.3	3957.2	3869.1	3751.6	3641.2	3486.2	3361.6
52.5°	4483.9	4500.1	4506.1	4489.9	4464.6	4389.7	4345.1	4246.9	4153.7	4022.0	3887.3
55°	4706.7	4766.4	4796.8	4831.3	4824.2	4797.8	4795.8	4732.0	4689.5	4585.1	4489.9
57.5°	4982.2	5080.4	5174.6	5341.7	5347.8	5406.6	5436.9	5467.3	5475.4	5433.9	5402.5
60°	5332.6	5533.2	5711.4	6060.9	6152.0	6295.8	6389.0	6490.3	6576.4	6583.5	6581.5
62.5°	5579.8	5888.7	6176.3	6694.9	6872.1	7038.3	7162.8	7261.1	7320.8	7381.6	7410.0
63°	5586.8	5925.1	6231.0	6765.8	6952.2	7110.2	7228.7	7319.8	7382.6	7419.1	7437.3
65°	5415.7	5825.9	6190.5	6723.3	6898.5	7057.5	7119.3	7179.0	7209.4	7223.6	7169.9
67.5°	4590.2	4991.3	5416.7	6012.2	6162.1	6352.6	6403.2	6433.6	6447.8	6444.7	6399.1
70°	3432.5	3768.8	4241.8	4922.4	5120.9	5307.3	5422.8	5472.4	5488.6	5483.5	5415.7
72.5°	2396.4	2593.9	2983.8	3741.4	4011.9	4250.9	4393.7	4467.7	4482.8	4452.5	4389.7
75°	2012.5	2022.6	2110.8	2525.0	2778.2	3033.5	3194.5	3241.1	3210.7	3118.5	2958.5
77.5°	1796.8	1819.1	1819.1	1880.9	1930.5	2001.4	2016.6	1903.1	1771.5	1601.3	1463.6
80°	1507.1	1585.1	1639.8	1685.4	1690.4	1676.3	1638.8	1575.0	1473.7	1344.0	1200.2
82.5°	915.6	1069.6	1132.4	1367.3	1482.8	1560.8	1554.7	1469.6	1392.7	1258.0	1135.4
85°	230.9	249.2	270.4	351.5	394.0	481.1	535.8	561.1	570.2	523.6	474.0
87.5°	22.3	15.2	25.3	19.2	27.3	20.3	27.3	25.3	31.4	33.4	36.5
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	236.0	235.0	234.0	233.0	231.9	230.9	228.9	228.9	226.9	225.9	224.9
5°	262.3	260.3	259.3	257.3	254.2	252.2	249.2	245.1	242.1	241.1	239.0
7.5°	295.8	290.7	288.7	285.6	281.6	275.5	271.4	268.4	263.3	260.3	254.2
10°	333.2	328.2	322.1	316.0	309.9	302.8	297.8	293.7	285.6	281.6	274.5
12.5°	380.8	371.7	364.6	356.5	348.4	340.3	334.2	322.1	315.0	305.9	299.8
15°	429.4	421.3	413.2	403.1	391.0	377.8	371.7	360.6	351.5	337.3	329.2
17.5°	488.2	473.0	460.8	448.7	437.5	425.4	413.2	396.0	382.9	370.7	354.5
20°	545.9	527.7	514.5	498.3	482.1	462.9	448.7	436.5	418.3	402.1	384.9
22.5°	607.7	589.5	568.2	552.0	529.7	514.5	495.3	475.0	456.8	435.5	414.3
25°	682.7	663.4	639.1	617.8	592.5	571.2	547.9	524.7	502.4	478.1	450.7
27.5°	774.8	754.6	728.2	702.9	669.5	643.2	620.9	589.5	561.1	530.7	499.3
30°	891.3	869.0	836.6	800.1	766.7	737.4	706.0	664.4	633.0	596.6	556.1
32.5°	1043.2	1016.9	973.3	938.9	897.4	858.9	815.3	773.8	729.2	681.6	635.1
35°	1234.7	1210.3	1159.7	1109.1	1063.5	1017.9	963.2	915.6	852.8	795.1	735.3
37.5°	1433.2	1389.6	1343.0	1288.3	1231.6	1176.9	1110.1	1044.2	972.3	909.5	834.6
40°	1660.1	1607.4	1568.9	1510.2	1430.1	1352.1	1290.4	1208.3	1118.2	1034.1	946.0
42.5°	1971.0	1912.2	1843.4	1754.2	1696.5	1605.4	1525.3	1428.1	1309.6	1215.4	1109.1
45°	2330.6	2250.5	2183.7	2097.6	2027.7	1914.3	1821.1	1691.4	1572.9	1449.4	1319.7
47.5°	2740.8	2641.5	2544.3	2459.2	2347.8	2236.4	2117.9	1980.1	1828.2	1692.5	1538.5
50°	3211.7	3070.9	2936.2	2826.8	2673.9	2545.3	2416.6	2261.7	2093.5	1937.6	1762.3
52.5°	3735.4	3572.3	3394.0	3225.9	3048.7	2883.6	2728.6	2550.3	2363.0	2172.6	1977.1
55°	4367.4	4244.8	4035.2	3821.5	3584.5	3363.7	3164.1	2943.3	2715.4	2465.3	2259.7
57.5°	5356.9	5297.2	5122.0	4908.2	4599.3	4330.9	3992.6	3722.2	3392.0	3047.6	2782.3
60°	6697.9	6624.0	6525.8	6352.6	6107.5	5742.8	5370.1	4949.8	4447.4	3970.3	3517.6
62.5°	7413.0	7386.7	7306.7	7187.1	6958.2	6670.6	6294.8	5833.0	5265.8	4686.4	4109.1
63°	7434.3	7400.9	7332.0	7210.4	7008.9	6730.3	6361.7	5913.0	5357.9	4767.5	4178.0
65°	7146.6	7133.5	7063.6	6930.9	6793.1	6580.4	6294.8	5908.9	5443.0	4884.9	4298.5
67.5°	6338.4	6298.9	6191.5	6151.0	6054.8	5906.9	5689.1	5423.8	5090.6	4652.0	4145.6
70°	5361.0	5302.2	5167.5	5095.6	4978.1	4884.9	4752.3	4562.9	4357.3	4051.4	3673.6
72.5°	4324.8	4203.3	4079.7	3892.4	3728.3	3562.2	3415.3	3281.6	3055.8	2932.2	2645.5
75°	2808.6	2587.8	2376.1	2092.5	1837.3	1611.4	1391.6	1280.2	1048.3	954.1	819.4
77.5°	1332.9	1209.3	1043.2	914.6	750.5	612.8	500.3	375.8	294.7	230.9	176.2
80°	1075.6	971.3	871.0	754.6	631.0	503.4	385.9	288.7	204.6	141.8	100.3
82.5°	959.2	845.7	722.2	642.1	558.1	456.8	374.8	305.9	225.9	165.1	112.4
85°	372.7	314.0	242.1	197.5	154.0	126.6	114.5	79.0	61.8	48.6	37.5
87.5°	32.4	26.3	21.3	14.2	15.2	8.1	9.1	6.1	5.1	5.1	4.1
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°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	223.8	222.8	221.8	219.8	219.8	217.8	216.7	215.7	210.7	199.5	190.4
5°	235.0	233.0	230.9	227.9	225.9	222.8	220.8	217.8	206.6	185.4	167.1
7.5°	251.2	247.1	244.1	238.0	235.0	230.9	227.9	222.8	204.6	172.2	146.9
10°	270.4	263.3	258.3	251.2	245.1	240.0	235.0	227.9	202.6	158.0	128.6
12.5°	293.7	285.6	275.5	267.4	259.3	252.2	245.1	236.0	199.5	145.8	114.5
15°	317.0	304.9	297.8	286.6	275.5	265.4	255.2	247.1	200.5	132.7	102.3
17.5°	343.4	331.2	316.0	303.9	291.7	278.5	266.4	250.2	195.5	122.6	93.2
20°	368.7	351.5	337.3	322.1	304.9	288.7	273.5	259.3	191.4	112.4	85.1
22.5°	396.0	375.8	357.5	338.3	317.0	298.8	280.6	262.3	184.3	103.3	78.0
25°	429.4	406.2	379.8	356.5	334.2	312.0	288.7	266.4	177.2	95.2	72.9
27.5°	470.0	439.6	413.2	383.9	352.5	324.1	298.8	274.5	170.2	89.1	67.9
30°	521.6	486.2	448.7	411.2	377.8	345.4	309.9	279.5	163.1	83.1	62.8
32.5°	590.5	545.9	500.3	456.8	412.2	370.7	333.2	293.7	159.0	78.0	57.7
35°	681.6	623.9	568.2	513.5	459.8	409.2	360.6	316.0	159.0	71.9	51.7
37.5°	767.7	700.9	630.0	562.1	498.3	439.6	381.8	328.2	150.9	66.8	46.6
40°	860.9	780.9	697.8	617.8	540.9	467.9	402.1	340.3	143.8	60.8	41.5
42.5°	1003.7	902.4	794.1	700.9	608.7	518.6	436.5	363.6	134.7	54.7	36.5
45°	1191.1	1062.5	934.9	821.4	703.9	593.5	496.3	406.2	132.7	49.6	31.4
47.5°	1391.6	1239.7	1089.8	945.0	807.2	678.6	562.1	453.8	132.7	44.6	27.3
50°	1591.2	1400.8	1240.7	1072.6	917.6	765.7	627.0	503.4	133.7	40.5	22.3
52.5°	1771.5	1567.9	1388.6	1194.1	1023.0	846.7	695.8	552.0	131.7	35.4	18.2
55°	2021.6	1782.6	1575.0	1360.2	1159.7	961.2	790.0	624.9	132.7	31.4	15.2
57.5°	2482.5	2201.9	1951.8	1670.2	1439.3	1183.0	975.4	774.8	144.8	26.3	11.1
60°	3143.9	2779.2	2427.8	2084.4	1790.7	1485.8	1216.4	980.4	170.2	21.3	8.1
62.5°	3588.5	3111.5	2692.1	2313.3	1972.0	1653.0	1359.2	1090.8	187.4	17.2	5.1
63°	3634.1	3140.8	2719.5	2328.5	1980.1	1661.1	1365.3	1098.9	188.4	16.2	5.1
65°	3720.2	3191.5	2734.7	2331.6	1972.0	1649.9	1361.3	1097.9	190.4	13.2	4.1
67.5°	3621.9	3113.5	2646.6	2244.5	1901.1	1584.1	1310.6	1057.4	189.4	9.1	3.0
70°	3239.1	2817.7	2407.5	2032.8	1720.8	1434.2	1193.1	964.2	174.2	6.1	2.0
72.5°	2378.2	2091.5	1773.5	1503.1	1296.4	1076.7	918.6	724.2	134.7	4.1	1.0
75°	704.9	642.1	539.8	476.0	420.3	347.4	308.9	241.1	68.9	2.0	0.0
77.5°	140.8	127.6	114.5	104.3	98.2	84.1	80.0	65.8	28.4	1.0	0.0
80°	73.9	60.8	51.7	45.6	39.5	32.4	27.3	22.3	5.1	0.0	0.0
82.5°	70.9	47.6	34.4	28.4	24.3	19.2	15.2	11.1	3.0	0.0	0.0
85°	26.3	20.3	15.2	12.2	10.1	9.1	7.1	6.1	0.0	0.0	0.0
87.5°	4.1	3.0	3.0	2.0	2.0	1.0	1.0	1.0	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°	213.7	213.7	213.7	213.7	213.7	213.7	213.7
2.5°	181.3	173.2	169.1	164.1	164.1	163.1	165.1
5°	150.9	139.8	131.7	125.6	126.6	123.6	124.6
7.5°	127.6	116.5	109.4	105.3	104.3	103.3	103.3
10°	110.4	100.3	94.2	91.2	90.1	90.1	90.1
12.5°	98.2	88.1	83.1	81.0	81.0	80.0	80.0
15°	88.1	80.0	75.0	72.9	72.9	71.9	72.9
17.5°	80.0	71.9	67.9	65.8	65.8	64.8	64.8
20°	72.9	65.8	61.8	58.7	58.7	57.7	58.7
22.5°	66.8	59.8	54.7	52.7	51.7	50.6	51.7
25°	60.8	53.7	48.6	45.6	44.6	44.6	43.6
27.5°	55.7	48.6	42.5	39.5	38.5	38.5	37.5
30°	50.6	42.5	36.5	33.4	32.4	32.4	32.4
32.5°	45.6	36.5	31.4	28.4	27.3	27.3	27.3
35°	40.5	31.4	26.3	23.3	22.3	22.3	22.3
37.5°	34.4	26.3	20.3	18.2	17.2	16.2	16.2
40°	29.4	20.3	15.2	13.2	11.1	11.1	11.1
42.5°	24.3	16.2	11.1	8.1	7.1	6.1	7.1
45°	20.3	12.2	7.1	4.1	3.0	3.0	3.0
47.5°	16.2	8.1	3.0	1.0	1.0	1.0	1.0
50°	12.2	5.1	1.0	0.0	0.0	1.0	1.0
52.5°	9.1	3.0	0.0	0.0	0.0	0.0	0.0
55°	5.1	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	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)