

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: P180918

Luminaire Tested: **ICS-E01-LED-E1-SL4**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180918  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICS-E01-LED-E1-SL4  
Description: ICON SITE SMALL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

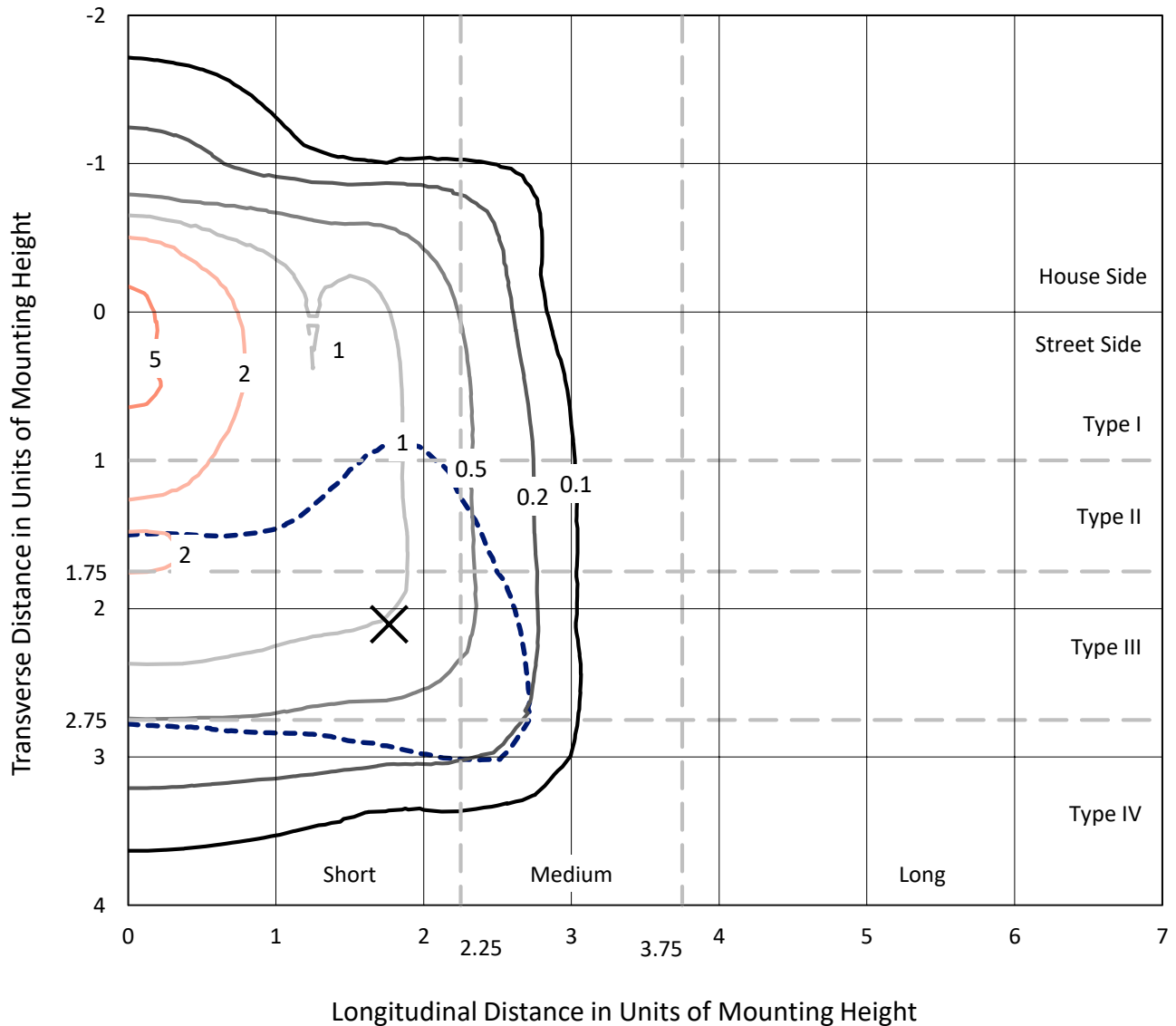
Lumens per Lamp: N/A  
Luminaire Lumens: 2658.8 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

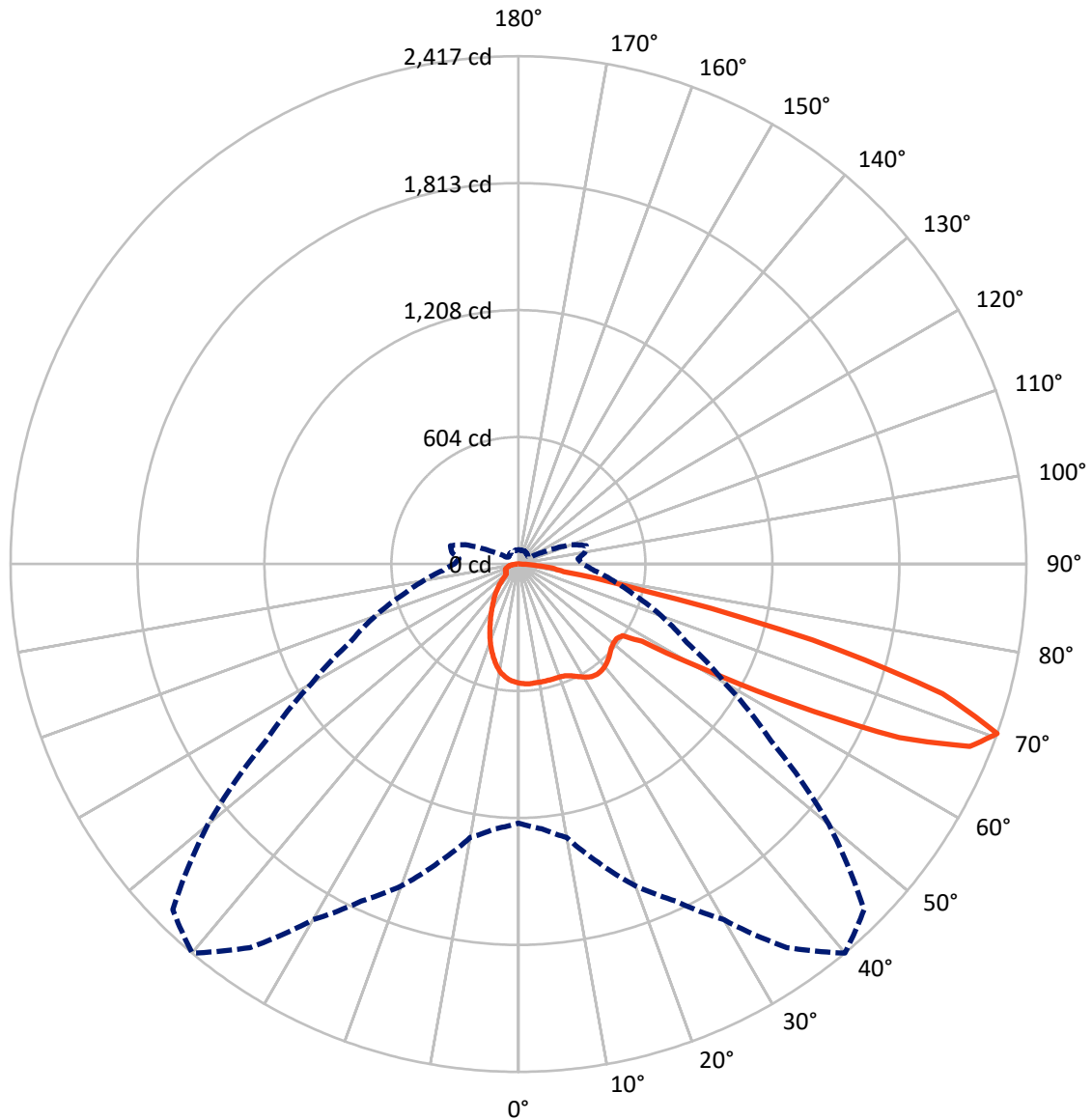
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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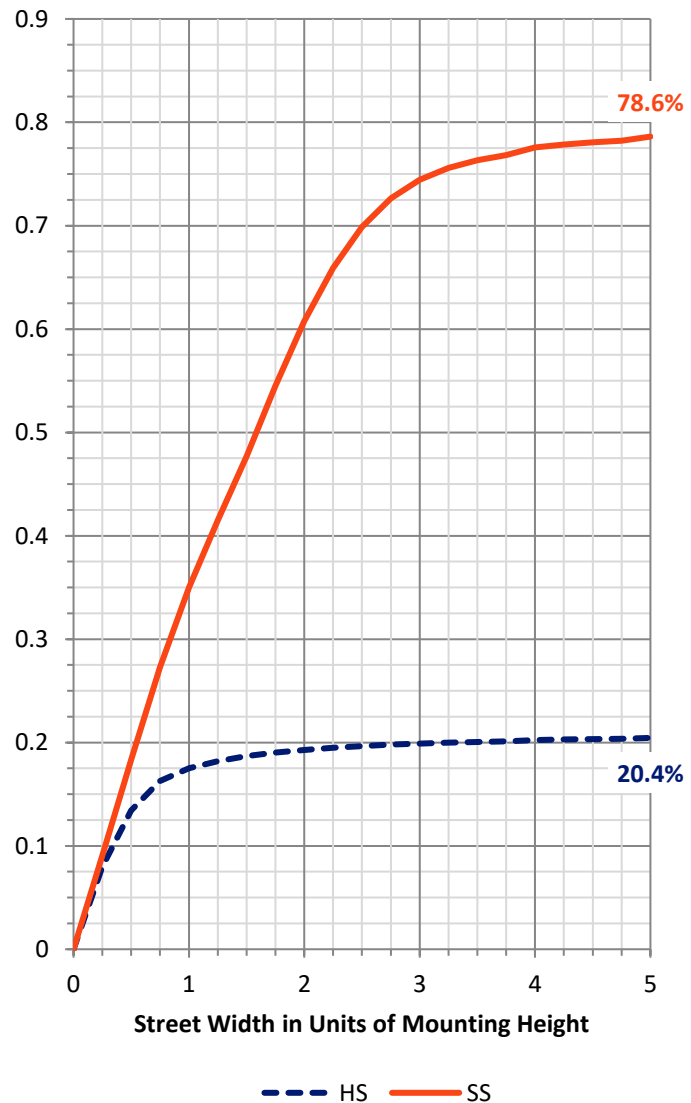
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	551.9	0.0	551.9
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	2106.9	0.0	2106.9
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	2658.8	0.0	2658.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	2.0
10°-20°	145.1	5.5
20°-30°	214.8	8.1
30°-40°	271.4	10.2
40°-50°	307.0	11.5
50°-60°	436.8	16.4
60°-70°	813.6	30.6
70°-80°	372.9	14.0
80°-90°	44.3	1.7
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°	2658.8	100.0
0°-180°	2658.8	100.0



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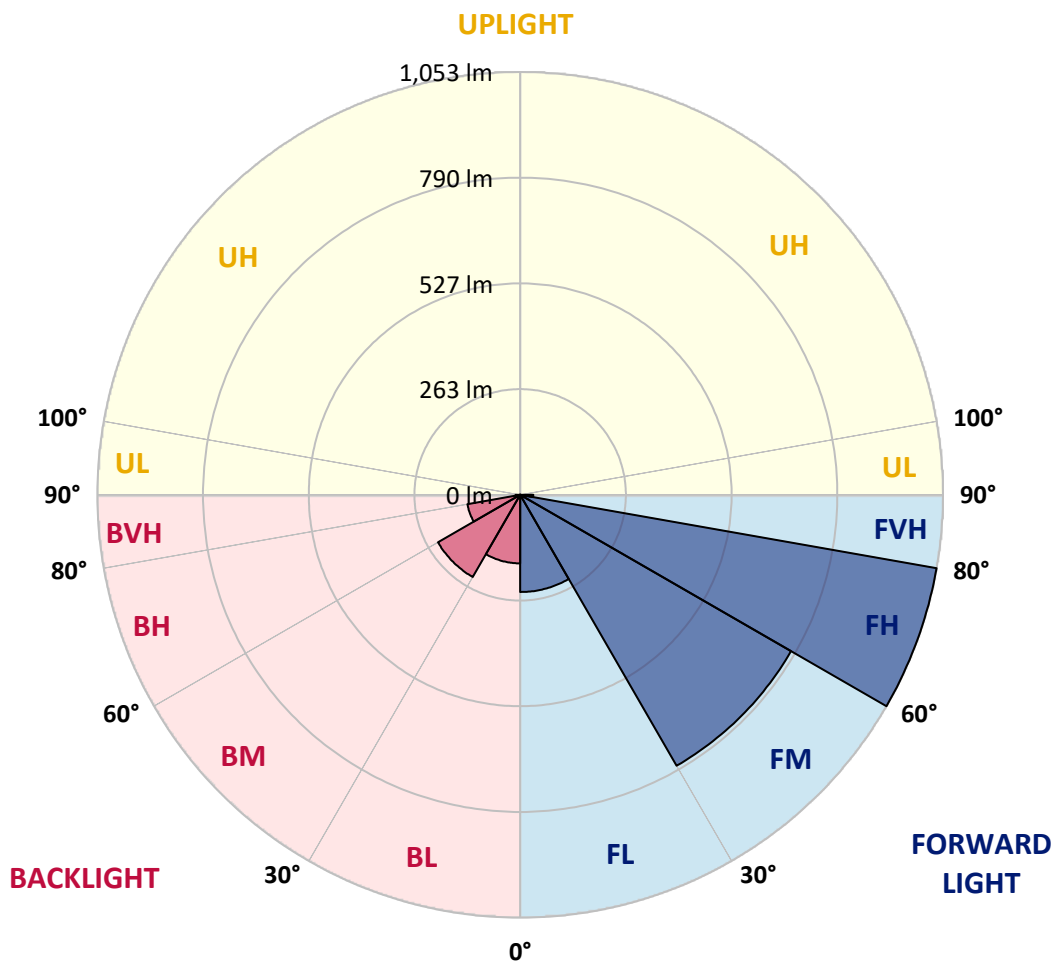
CATALOG NUMBER: ICS-E01-LED-E1-SL4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.1	9.1			
FM	(30°-60°)	778.9	29.3			
FH	(60°-80°)	1053.0	39.6			G1/1800
FVH	(80°-90°)	32.8	1.2			G1/100
BL	(0°-30°)	170.8	6.4	B1/500		
BM	(30°-60°)	236.3	8.9	B1/1000		
BH	(60°-80°)	133.4	5.0	B1/500		G1/500
BVH	(80°-90°)	11.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	576.0	577.5	575.7	575.4	575.4	575.1	573.3	573.0	570.6	570.9	571.5
5°	580.2	580.8	579.6	579.3	578.7	577.5	576.0	574.2	572.4	570.6	569.1
7.5°	584.4	583.8	582.9	582.9	582.0	580.2	577.2	574.8	570.9	568.8	566.1
10°	590.4	589.5	588.3	587.7	586.2	583.5	579.3	576.0	571.2	567.0	562.5
12.5°	596.1	595.8	594.0	593.1	590.7	588.0	582.9	577.8	571.5	564.9	558.9
15°	606.3	605.1	603.3	601.5	597.6	594.0	586.2	580.2	571.2	562.5	553.2
17.5°	624.0	621.9	620.1	616.2	611.4	605.1	593.7	583.5	571.2	558.6	548.1
20°	656.4	651.9	649.5	644.4	636.0	624.6	606.9	590.4	572.1	555.9	541.8
22.5°	693.0	690.0	686.7	683.4	670.2	653.7	629.7	605.1	577.5	554.7	536.7
25°	734.1	730.2	728.4	722.7	710.4	691.5	658.8	624.6	589.8	559.5	536.7
27.5°	770.7	769.5	769.2	762.6	750.9	728.7	690.0	648.9	606.6	569.4	541.2
30°	804.0	802.8	802.2	798.6	785.1	758.7	716.7	670.5	624.9	583.2	549.6
32.5°	839.4	835.5	833.7	826.8	811.5	780.6	732.6	684.6	639.3	596.7	558.9
35°	868.2	864.9	861.3	851.4	829.8	793.2	739.5	689.4	645.0	604.2	563.7
37.5°	889.2	885.9	880.8	868.2	841.5	797.4	739.2	687.9	642.9	603.0	564.6
40°	898.5	895.2	889.8	873.9	843.6	795.0	733.5	681.0	636.6	596.7	561.0
42.5°	894.9	892.5	885.6	870.3	837.0	784.2	722.1	668.1	624.6	586.5	552.9
45°	881.1	879.3	872.7	856.5	822.0	766.8	705.3	651.9	610.2	573.9	542.1
47.5°	860.4	859.8	853.2	837.3	803.1	749.4	687.9	636.0	595.8	561.6	533.1
50°	837.6	834.6	831.3	816.6	785.4	734.4	675.3	626.1	587.7	557.1	529.2
52.5°	823.2	822.3	819.3	806.1	776.1	725.7	669.6	622.5	587.1	556.2	527.1
55°	951.1	953.2	925.6	868.2	817.8	749.7	686.7	640.8	601.8	570.6	549.3
57.5°	1406.8	1397.5	1350.1	1236.4	1108.0	938.5	816.3	742.2	693.9	699.3	710.1
60°	1639.0	1637.2	1628.5	1584.4	1498.9	1369.9	1226.8	1062.7	1010.5	1016.2	1020.4
62.5°	1742.8	1745.5	1752.1	1735.6	1713.1	1675.6	1604.2	1538.2	1468.3	1442.2	1372.3
65°	1790.8	1795.6	1810.6	1819.9	1828.6	1835.2	1863.4	1940.8	1991.8	1896.4	1674.4
67.5°	1691.5	1714.6	1764.1	1812.4	1855.6	1917.1	2012.5	2192.2	2317.3	2200.0	1878.1
70°	1233.1	1264.6	1321.3	1470.7	1630.3	1769.8	1954.6	2228.2	2416.9	2326.3	1928.5
72.5°	773.1	781.8	807.0	861.9	980.5	1159.6	1482.7	1893.1	2110.9	2038.6	1630.0
75°	490.5	493.5	492.6	505.2	525.3	564.3	692.1	1118.2	1446.1	1333.3	908.4
77.5°	292.2	296.7	298.5	302.4	312.0	325.8	336.3	380.4	606.3	588.6	329.7
80°	244.8	248.4	245.4	244.5	238.5	234.3	239.4	234.3	217.5	209.4	192.9
82.5°	129.6	129.3	128.4	137.1	154.8	168.6	179.1	176.7	159.9	136.2	115.5
85°	71.1	73.5	73.5	76.5	73.8	74.1	76.5	80.7	74.7	62.4	51.0
87.5°	6.0	9.3	7.5	9.3	12.6	9.0	8.7	8.7	7.5	5.4	4.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	570.0	569.4	568.2	567.3	567.3	565.8	564.9	564.3	564.0	562.8	562.8
5°	568.2	566.1	564.0	562.5	561.6	560.1	557.7	556.5	555.0	553.8	553.2
7.5°	564.3	560.4	557.1	554.7	551.7	549.3	546.3	543.6	540.9	539.7	539.1
10°	558.3	553.2	548.1	543.6	539.4	535.2	531.3	527.4	524.1	521.7	519.3
12.5°	552.6	544.8	538.2	531.6	525.0	519.9	514.5	508.8	504.0	499.5	498.3
15°	544.8	535.8	527.4	519.3	511.2	502.8	496.2	489.9	482.1	477.0	473.1
17.5°	537.6	526.8	516.6	507.0	497.1	488.4	478.5	470.1	462.3	454.5	448.8
20°	529.8	518.1	507.3	496.5	485.7	474.6	463.2	452.4	442.8	433.5	424.2
22.5°	522.9	510.9	500.4	488.7	476.7	464.1	450.9	437.4	426.3	414.3	403.5
25°	518.7	505.5	494.7	483.3	470.1	456.3	441.3	425.4	411.9	398.1	385.2
27.5°	518.7	501.6	490.5	479.1	465.6	450.9	434.4	417.0	401.7	386.4	370.5
30°	523.2	502.2	487.2	475.2	461.4	445.5	427.2	408.9	392.1	374.1	358.8
32.5°	527.4	503.4	484.8	469.5	453.6	438.0	419.4	399.9	381.3	364.2	348.0
35°	530.1	503.4	480.3	460.8	442.8	427.5	409.2	389.7	370.8	354.0	339.0
37.5°	530.4	501.0	473.1	450.9	432.0	416.1	398.7	380.4	362.4	346.8	334.2
40°	527.4	496.2	465.9	440.4	420.6	404.4	388.5	372.0	355.8	342.9	332.1
42.5°	522.0	491.1	459.0	432.0	411.3	394.5	379.8	365.7	351.6	340.5	331.5
45°	513.9	484.2	452.7	426.9	406.5	388.8	374.4	362.7	350.7	341.4	332.4
47.5°	506.7	481.8	454.8	430.2	408.9	390.6	375.9	366.0	356.7	350.4	338.1
50°	505.2	480.6	455.7	432.9	411.3	392.7	379.8	374.7	372.0	368.1	349.2
52.5°	501.0	480.3	462.3	449.7	435.9	427.2	413.7	418.5	415.5	401.7	367.5
55°	545.1	551.1	567.9	591.9	614.1	619.2	617.7	612.0	581.7	500.4	411.6
57.5°	749.4	783.3	815.1	829.2	827.4	811.5	800.1	777.0	733.2	634.2	498.6
60°	1033.3	1038.7	1021.9	997.0	955.0	919.9	882.3	839.1	775.5	678.6	552.0
62.5°	1294.6	1222.0	1147.3	1077.1	1013.2	957.4	905.1	844.8	762.0	660.9	545.1
65°	1479.1	1325.5	1207.6	1106.8	1016.5	938.5	873.3	795.0	701.7	610.5	505.2
67.5°	1574.2	1338.7	1157.8	1017.4	889.2	781.2	694.5	618.3	549.0	509.1	442.2
70°	1468.0	1136.2	884.1	725.4	572.1	458.7	362.4	304.2	284.1	321.9	334.8
72.5°	1093.9	739.5	525.9	406.8	311.7	248.4	190.5	149.7	121.8	127.8	165.9
75°	517.2	319.2	225.6	171.6	136.5	113.1	92.4	84.6	70.8	58.8	55.2
77.5°	201.3	146.7	121.2	88.8	63.0	50.7	43.2	41.7	42.6	41.4	40.8
80°	153.3	103.8	65.1	47.7	41.1	36.3	32.1	30.9	31.5	33.0	34.5
82.5°	85.5	53.4	39.6	34.5	30.9	26.4	24.0	22.2	22.5	24.3	27.6
85°	33.0	25.8	23.7	22.8	21.3	17.1	14.7	15.0	17.1	20.4	20.4
87.5°	3.6	3.6	4.8	3.6	3.6	3.6	3.3	3.9	4.2	5.4	6.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3	567.3
2.5°	562.2	562.2	562.2	561.6	561.9	560.7	560.7	559.8	561.3	560.4	560.1
5°	553.5	553.2	552.0	552.0	552.0	552.0	552.9	550.5	552.3	552.3	551.4
7.5°	538.8	538.8	535.5	537.3	536.7	537.6	538.8	537.6	539.4	540.6	539.7
10°	518.4	518.4	515.7	517.8	516.9	519.0	521.1	519.9	521.1	522.9	523.5
12.5°	495.9	494.7	492.3	493.2	493.2	494.4	495.3	496.8	498.3	500.7	501.9
15°	469.8	468.0	465.0	465.0	463.2	463.8	465.6	466.2	469.2	472.5	476.4
17.5°	443.1	438.6	435.3	431.4	428.4	430.8	432.9	434.4	436.8	441.9	444.6
20°	417.9	408.9	402.6	397.5	394.2	395.7	398.4	400.2	402.3	403.5	404.4
22.5°	393.0	382.8	374.1	367.8	362.4	363.9	362.7	361.8	363.3	359.4	359.1
25°	371.4	359.4	347.7	340.2	333.6	331.5	325.2	323.7	319.5	316.2	313.8
27.5°	355.8	340.2	327.3	318.6	308.1	300.3	292.2	284.1	279.6	274.2	271.5
30°	343.5	327.0	311.7	297.0	283.2	271.2	260.4	249.9	242.7	234.9	229.8
32.5°	332.1	316.8	298.2	278.1	259.5	246.0	231.9	219.9	208.5	198.3	190.8
35°	324.3	307.2	283.5	258.9	237.9	222.0	207.0	189.9	176.1	162.9	154.8
37.5°	320.1	299.1	270.0	242.7	219.3	201.3	182.7	162.9	146.1	133.8	121.5
40°	316.8	291.0	258.0	228.3	203.7	182.1	160.5	137.1	118.5	105.6	96.0
42.5°	313.2	282.0	247.5	216.9	189.6	164.4	138.3	113.4	95.7	86.7	82.5
45°	309.3	274.2	237.6	206.1	175.8	145.2	115.2	92.1	81.6	78.6	78.6
47.5°	308.4	269.1	230.4	195.6	160.2	123.0	93.9	79.5	76.5	77.1	78.3
50°	312.0	267.6	224.1	183.3	139.5	99.6	79.5	74.7	75.3	77.1	78.9
52.5°	320.7	268.8	217.5	166.2	114.9	82.2	73.5	73.2	75.0	77.7	79.5
55°	335.4	268.8	204.9	140.7	91.8	73.8	71.4	72.6	75.0	77.4	78.9
57.5°	366.9	266.1	182.7	112.5	76.8	70.8	70.8	72.3	74.4	76.8	78.0
60°	404.4	262.5	151.5	87.0	69.3	68.4	70.5	72.3	74.1	76.2	77.4
62.5°	406.8	253.2	120.0	72.0	65.4	66.9	70.2	72.6	73.2	74.7	76.2
65°	373.8	220.8	95.4	64.5	63.6	66.0	69.3	71.1	71.4	72.0	73.5
67.5°	327.3	180.0	77.1	60.9	61.8	64.5	66.3	67.8	68.7	70.2	70.5
70°	268.8	144.6	66.0	57.3	58.2	61.2	62.7	64.2	66.0	67.8	66.9
72.5°	190.5	112.5	57.9	53.4	54.6	57.3	59.1	60.3	61.8	63.6	62.4
75°	81.0	78.6	50.1	48.3	50.1	51.9	53.7	55.5	57.0	57.9	57.9
77.5°	41.4	46.2	43.2	43.2	44.4	46.2	47.7	49.5	50.4	51.3	52.5
80°	35.1	35.7	36.3	37.5	38.7	40.5	42.0	43.5	43.8	44.1	44.7
82.5°	29.1	30.3	30.9	32.7	33.6	34.2	35.1	35.1	35.7	35.7	34.8
85°	21.0	22.5	23.4	23.7	23.4	23.7	24.0	24.6	26.1	26.1	24.9
87.5°	6.0	5.7	7.2	7.5	8.1	9.3	10.5	12.6	13.2	13.8	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):**

	165°	170°	175°	180°
0°	567.3	567.3	567.3	567.3
2.5°	559.8	560.4	559.2	559.5
5°	551.4	552.6	551.1	552.9
7.5°	540.6	542.4	542.1	541.8
10°	525.0	527.4	527.4	528.3
12.5°	505.2	506.7	507.9	508.5
15°	478.5	481.2	482.7	482.7
17.5°	446.4	448.2	449.1	447.9
20°	405.6	405.0	405.3	402.3
22.5°	358.5	359.4	356.7	357.3
25°	312.3	310.8	312.0	310.2
27.5°	267.6	267.9	264.6	266.1
30°	225.0	223.5	219.3	221.4
32.5°	183.9	180.0	175.5	172.8
35°	145.2	139.2	137.1	136.2
37.5°	114.0	107.4	105.3	102.9
40°	90.6	88.2	87.3	87.9
42.5°	81.3	81.3	81.9	82.2
45°	78.9	79.8	80.7	81.0
47.5°	79.2	80.1	81.3	81.6
50°	79.8	80.7	81.6	81.9
52.5°	80.1	80.1	80.7	81.0
55°	79.5	79.2	79.5	79.8
57.5°	78.3	77.7	78.0	78.9
60°	77.7	76.8	77.4	78.0
62.5°	76.2	75.9	76.5	76.8
65°	72.9	73.2	74.1	74.1
67.5°	69.9	70.2	70.5	70.8
70°	66.3	66.6	67.2	67.5
72.5°	62.1	63.3	64.2	65.4
75°	58.8	60.0	61.8	63.0
77.5°	53.1	54.0	56.1	57.6
80°	45.0	44.7	45.0	45.9
82.5°	34.5	34.5	34.2	33.9
85°	24.3	24.0	23.1	23.1
87.5°	13.2	12.9	12.6	12.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)