

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: P139585

Luminaire Tested: **ENT-F01-LED-E1-BL3**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P139585  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33645)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-F01-LED-E1-BL3  
Description: ENTRI LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2230.9 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.17' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

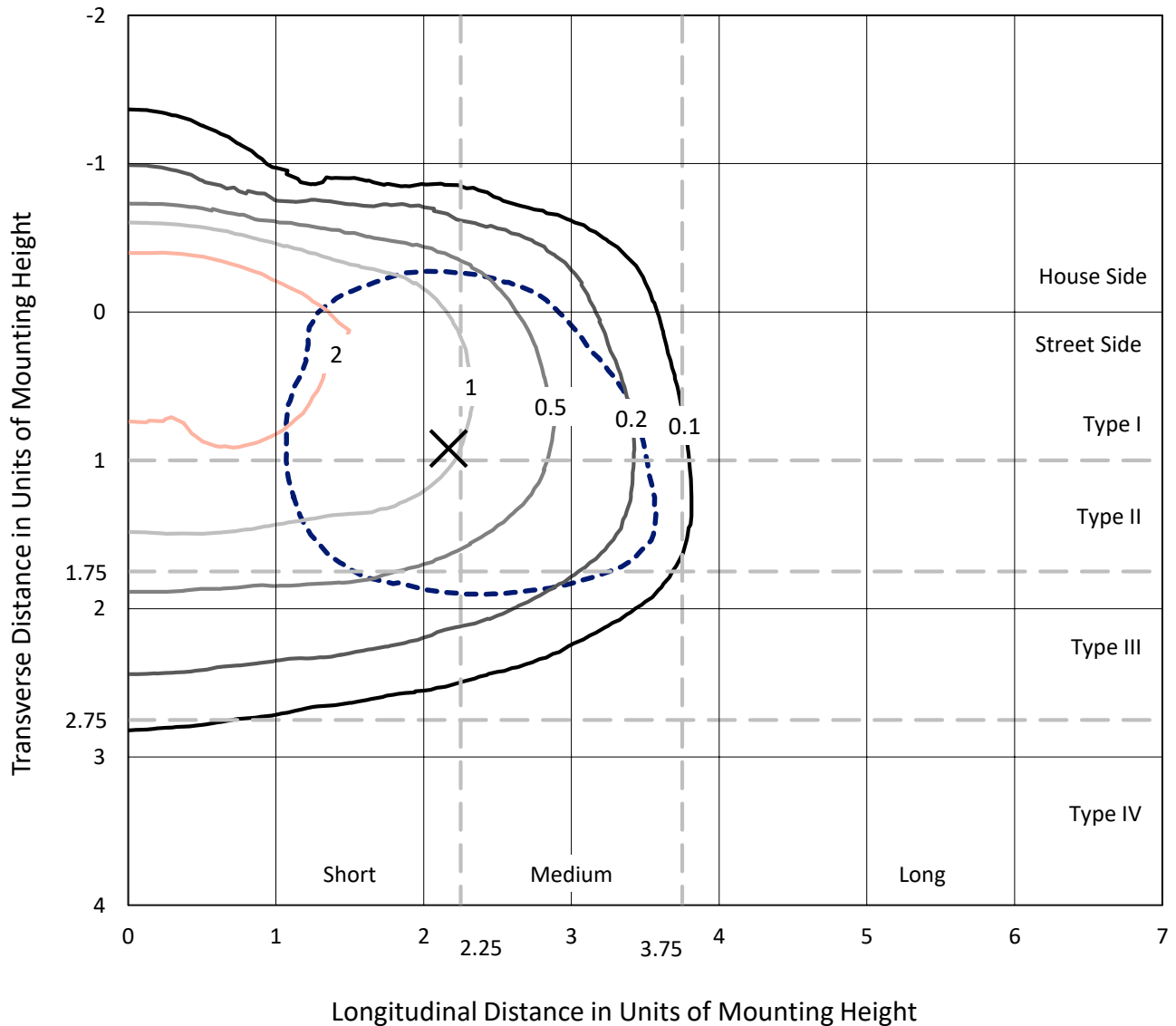
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

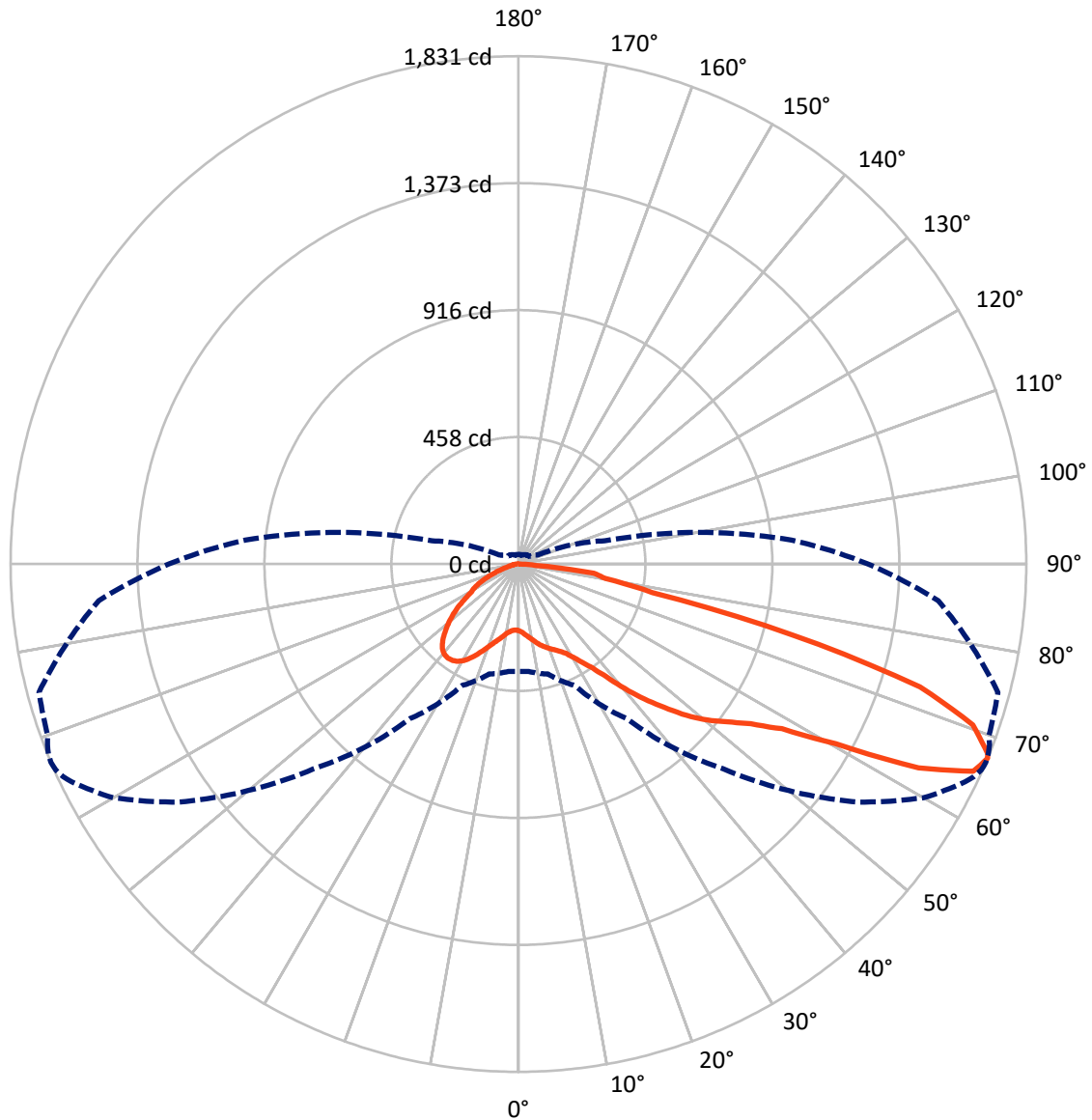
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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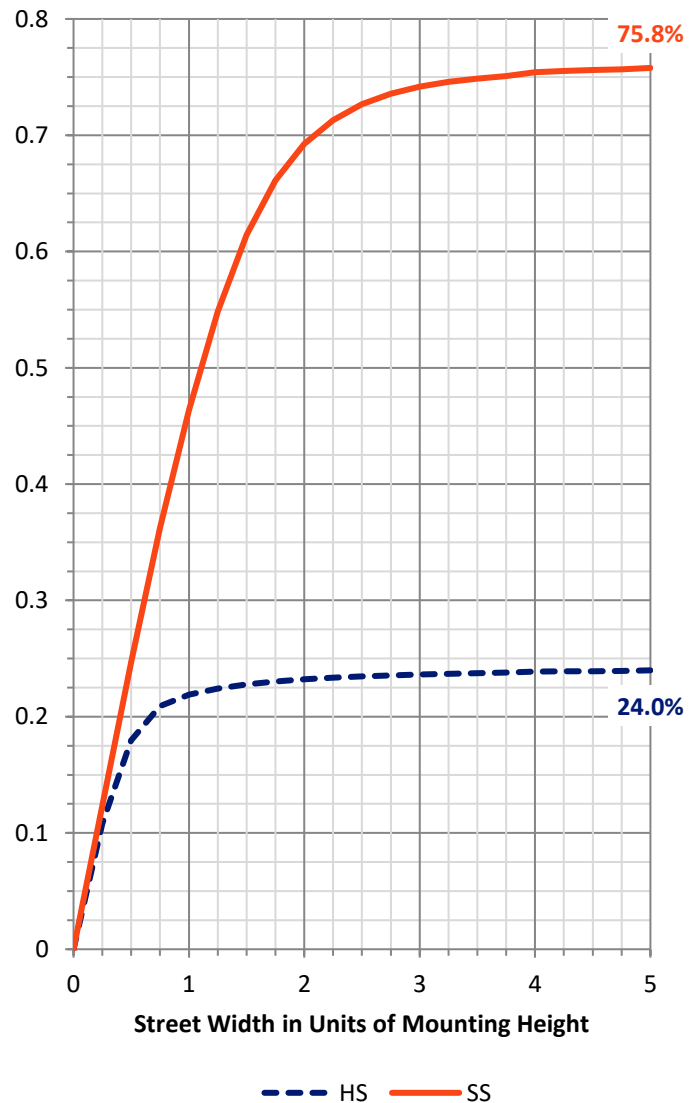
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	541.7	0.0	541.7
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	1689.2	0.0	1689.2
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	2230.9	0.0	2230.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.2	1.1
10°-20°	83.7	3.8
20°-30°	151.8	6.8
30°-40°	221.9	9.9
40°-50°	336.2	15.1
50°-60°	482.2	21.6
60°-70°	616.2	27.6
70°-80°	287.7	12.9
80°-90°	26.9	1.2
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°	2230.9	100.0
0°-180°	2230.9	100.0



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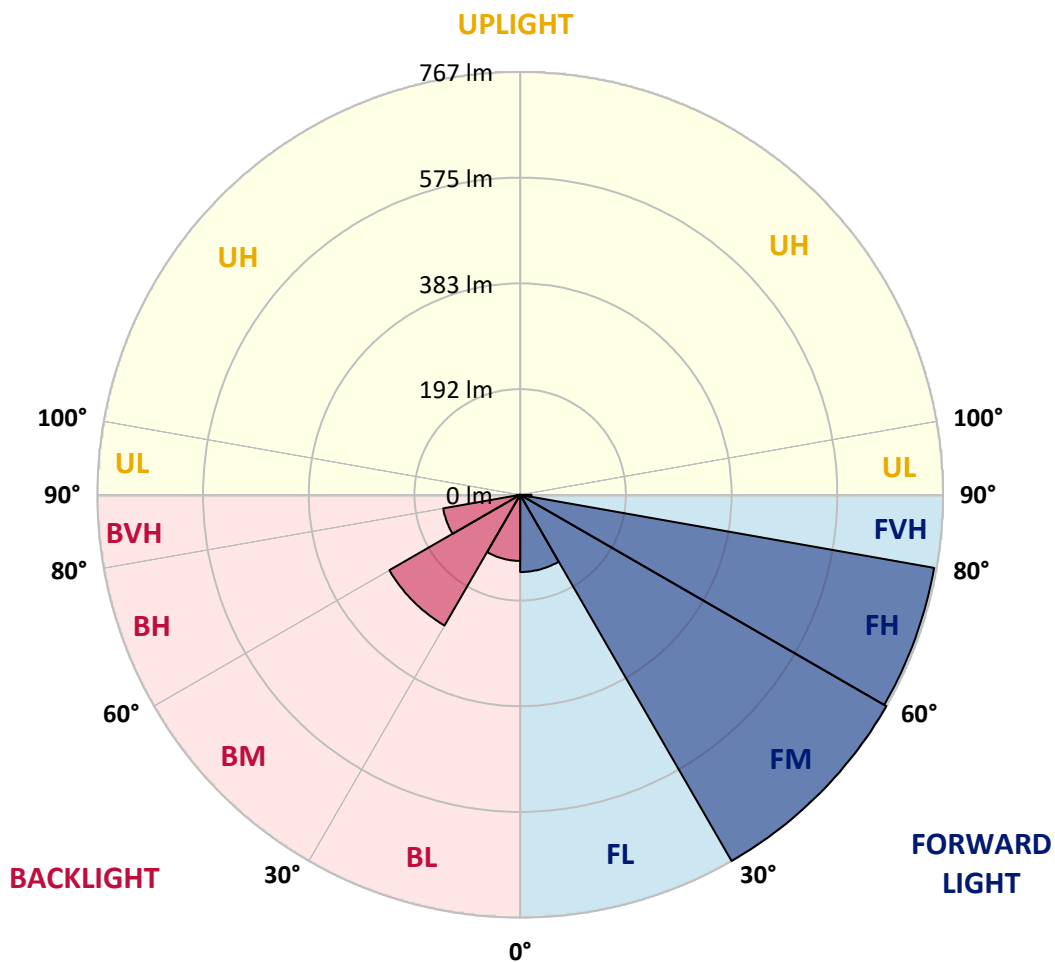
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.9	6.3			
FM	(30°-60°)	766.7	34.4			
FH	(60°-80°)	762.1	34.2			G1/1800
FVH	(80°-90°)	20.4	0.9			G1/100
BL	(0°-30°)	119.8	5.4	B1/500		
BM	(30°-60°)	273.6	12.3	B1/1000		
BH	(60°-80°)	141.7	6.4	B1/500		G1/500
BVH	(80°-90°)	6.5	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2
2.5°	249.7	249.7	250.1	250.1	249.7	249.7	247.2	247.2	247.2	246.8	246.8
5°	263.3	263.8	263.8	263.3	262.5	260.9	257.6	257.6	257.6	257.2	256.3
7.5°	279.0	278.6	279.0	277.8	276.1	274.1	269.5	269.1	268.3	268.3	267.5
10°	296.4	295.1	296.4	294.7	291.4	287.7	282.3	280.7	280.7	280.7	279.0
12.5°	314.1	313.7	314.5	311.6	305.9	301.7	296.4	294.3	293.9	293.9	293.1
15°	333.5	333.1	330.6	326.1	318.7	314.9	308.7	306.3	305.9	305.9	304.6
17.5°	353.7	353.7	347.5	338.1	327.7	322.4	317.8	316.2	315.8	315.8	315.4
20°	371.1	371.1	362.8	347.1	332.3	326.5	324.8	324.8	324.8	324.8	325.3
22.5°	383.9	382.6	371.5	352.1	333.9	329.0	333.1	333.5	333.5	334.3	334.8
25°	389.6	389.2	376.0	352.9	333.5	332.7	341.8	343.0	343.8	344.7	345.9
27.5°	390.1	390.1	376.9	352.5	333.1	339.3	352.5	356.2	357.0	358.7	360.8
30°	385.9	386.3	375.2	352.1	336.0	351.7	369.4	376.4	378.1	380.6	383.9
32.5°	381.0	381.8	375.2	356.2	348.8	373.1	396.7	406.6	408.2	411.5	414.8
35°	381.8	383.0	384.3	372.7	377.3	409.9	443.7	449.5	449.1	454.5	456.1
37.5°	387.2	390.1	399.1	401.2	418.5	463.9	499.4	511.8	511.8	516.8	515.1
40°	388.0	392.5	415.2	439.2	473.4	529.2	577.9	592.3	592.3	594.4	593.6
42.5°	407.4	411.5	444.1	486.6	535.4	601.0	654.6	667.4	670.3	668.3	669.9
45°	442.5	445.4	485.4	539.1	595.2	669.9	729.8	742.1	745.0	743.0	740.5
47.5°	487.1	491.2	533.7	597.3	655.1	733.5	806.5	821.0	823.9	820.6	821.8
50°	524.2	532.1	577.5	652.6	712.8	788.0	866.0	885.8	888.3	888.3	889.1
52.5°	558.1	565.1	608.8	692.6	759.5	837.1	910.1	935.7	938.6	940.7	942.3
55°	572.1	579.1	622.9	710.0	788.0	882.9	961.3	995.6	997.2	1002.6	1009.6
57.5°	572.5	578.3	621.2	709.5	802.8	924.2	1031.1	1084.3	1090.9	1097.9	1109.9
60°	533.7	540.7	583.6	688.9	815.2	970.4	1136.7	1234.6	1244.1	1264.3	1290.7
62.5°	475.1	480.0	517.2	620.8	815.2	1034.4	1306.8	1468.6	1500.4	1533.4	1582.1
65°	420.6	424.3	447.8	537.4	757.4	1086.4	1484.7	1670.9	1705.1	1729.9	1771.2
67°	386.8	388.4	410.7	483.8	679.8	1044.7	1496.7	1684.9	1714.2	1739.8	1791.8
67.5°	375.2	376.4	397.5	470.1	655.9	1019.5	1478.5	1673.3	1705.1	1731.1	1784.0
70°	288.5	284.8	303.0	369.8	530.0	813.6	1298.1	1522.7	1559.0	1593.7	1657.7
72.5°	172.1	166.8	178.3	214.6	343.4	571.7	984.4	1249.4	1295.7	1339.0	1422.8
75°	103.6	104.0	112.7	137.9	187.4	359.5	636.1	813.1	856.5	897.3	963.4
77.5°	51.6	51.2	59.0	80.1	136.6	223.3	369.4	468.9	483.3	502.7	494.9
80°	16.5	16.1	17.3	21.9	49.1	149.8	232.4	294.3	300.9	304.6	309.2
82.5°	2.5	2.9	3.3	5.4	9.1	35.9	144.5	204.7	213.8	224.5	245.2
85°	0.0	0.0	0.4	0.4	1.2	2.9	13.6	35.1	36.7	44.6	52.4
87.5°	0.0	0.0	0.0	0.4	0.8	1.2	2.1	2.1	2.1	2.1	2.1
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):**

	65°	66°	67°	68°	69°	70°	75°	85°	90°	95°	105°
0°	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2
2.5°	246.4	246.4	246.0	245.6	245.6	245.6	244.8	244.4	241.9	241.1	239.4
5°	256.3	256.3	255.5	255.1	254.7	254.7	253.4	251.0	247.7	245.6	242.3
7.5°	267.1	266.6	265.8	265.8	264.2	264.2	262.5	258.0	254.7	251.8	247.7
10°	279.4	279.0	277.8	277.4	276.6	275.7	274.1	268.7	265.4	261.7	256.7
12.5°	293.1	292.2	291.4	291.0	290.2	289.3	287.7	282.7	279.4	275.7	269.9
15°	305.0	304.6	303.8	303.4	303.4	302.6	301.3	296.8	293.5	289.3	284.8
17.5°	315.8	315.4	314.9	314.9	314.5	314.5	314.1	310.0	307.9	304.6	300.1
20°	324.8	325.3	325.3	325.3	325.7	326.1	326.9	324.8	322.8	319.9	317.4
22.5°	334.8	335.2	336.4	336.4	337.2	337.6	340.5	340.1	339.3	337.2	335.2
25°	346.7	347.5	348.4	349.6	350.0	351.3	356.2	358.3	356.6	355.4	357.5
27.5°	362.4	364.1	364.9	366.5	367.4	369.0	376.4	381.0	379.7	380.2	384.7
30°	385.9	387.6	390.1	390.9	393.8	394.6	403.3	410.3	410.3	409.5	417.7
32.5°	417.3	418.5	421.4	423.5	425.1	426.8	435.1	442.5	443.3	445.8	449.1
35°	458.6	459.4	461.1	464.4	463.9	464.8	469.3	476.7	480.9	486.6	476.7
37.5°	513.1	516.0	515.1	515.5	512.2	514.3	516.0	523.8	532.5	538.2	499.9
40°	590.7	592.7	590.7	587.8	585.3	584.1	581.6	590.3	597.7	593.6	518.0
42.5°	666.2	667.0	665.4	660.4	658.4	654.2	647.6	658.4	662.5	643.1	527.5
45°	740.9	739.7	736.8	736.0	731.8	727.7	724.0	731.0	729.4	691.4	531.6
47.5°	819.3	818.1	816.0	812.7	808.2	807.4	804.1	803.2	791.3	732.7	529.6
50°	887.9	888.7	884.1	885.8	883.7	879.6	876.7	878.4	849.9	769.0	525.4
52.5°	946.9	946.9	944.8	946.9	946.1	944.0	946.5	973.3	914.3	820.2	519.3
55°	1015.4	1017.9	1016.2	1018.3	1019.5	1024.1	1034.4	1097.1	1010.4	882.9	505.2
57.5°	1115.7	1121.9	1120.2	1128.5	1135.9	1147.9	1185.5	1251.5	1129.7	951.8	477.6
60°	1295.7	1315.9	1315.1	1329.5	1344.4	1358.0	1423.6	1436.4	1264.7	1041.8	456.9
62.5°	1595.3	1611.8	1618.9	1634.5	1644.0	1646.5	1699.3	1605.6	1385.2	1123.5	445.4
65°	1789.3	1795.9	1802.1	1800.1	1794.3	1784.8	1788.1	1590.0	1345.2	1071.1	382.2
67°	1812.4	1826.1	1831.0	1827.7	1819.0	1805.8	1789.7	1519.0	1260.2	989.4	323.2
67.5°	1805.8	1819.9	1824.4	1821.5	1814.1	1804.2	1785.2	1492.1	1231.3	963.0	307.9
70°	1699.8	1720.0	1738.6	1744.7	1745.2	1743.5	1724.5	1302.7	1048.0	808.6	233.6
72.5°	1449.2	1475.2	1514.0	1501.6	1521.4	1508.6	1465.3	890.3	718.2	577.9	163.9
75°	977.8	989.4	1020.8	984.9	988.2	965.5	797.0	517.2	445.4	376.0	98.7
77.5°	492.0	499.4	494.5	473.0	464.8	446.2	345.1	112.3	112.3	133.7	51.6
80°	312.0	314.9	318.2	323.2	329.4	330.2	239.4	33.0	29.7	31.0	28.1
82.5°	255.9	263.8	274.1	276.1	278.6	280.7	165.1	18.2	14.9	16.5	19.8
85°	59.4	64.4	61.5	54.5	58.2	45.0	23.1	7.4	6.6	8.3	13.6
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.7	2.9	7.0
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):**

	115°	125°	135°	145°	155°	165°	175°	180°
0°	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2
2.5°	237.8	236.5	234.9	234.4	234.0	233.2	232.8	232.4
5°	239.0	236.5	234.0	232.4	231.6	230.7	229.9	229.9
7.5°	243.9	241.1	237.3	235.7	234.0	232.8	232.0	232.0
10°	252.2	248.9	244.4	242.3	240.2	239.0	238.2	237.3
12.5°	264.6	260.5	255.1	251.8	249.7	249.3	248.5	248.1
15°	279.9	275.3	269.5	266.2	262.9	262.1	261.3	260.9
17.5°	295.1	291.4	286.9	281.1	274.5	269.1	266.6	266.2
20°	312.5	310.8	303.8	291.0	276.6	265.4	260.9	260.9
22.5°	334.3	329.8	312.9	290.2	268.7	253.0	246.8	246.8
25°	358.3	343.0	311.6	281.1	254.7	235.3	227.0	227.0
27.5°	379.3	346.7	304.2	265.8	233.6	212.6	203.1	202.7
30°	395.8	344.7	291.0	244.4	208.9	184.9	174.2	174.2
32.5°	404.9	337.6	272.8	219.2	178.7	151.5	138.3	138.7
35°	407.4	325.7	248.9	185.7	142.4	115.6	103.6	103.6
37.5°	404.9	306.7	219.2	149.0	106.5	87.5	78.4	77.6
40°	396.7	278.2	179.6	109.0	79.3	68.1	64.4	63.6
42.5°	380.2	243.9	135.0	78.0	63.6	59.0	58.2	57.8
45°	354.2	197.7	93.7	61.1	57.0	55.7	55.7	55.3
47.5°	321.5	151.1	66.9	54.1	53.7	53.7	53.7	53.7
50°	285.2	106.9	54.5	51.2	50.8	51.6	52.0	52.0
52.5°	247.7	74.7	49.9	49.1	48.3	49.5	49.9	49.9
55°	206.8	58.6	47.9	47.1	45.8	46.2	47.1	47.1
57.5°	164.7	52.0	47.1	45.8	43.3	43.3	44.2	44.2
60°	130.8	49.9	46.6	43.8	40.5	40.5	41.3	41.7
62.5°	109.4	49.5	46.6	41.7	39.2	38.0	38.8	38.8
65°	91.2	49.5	45.4	41.7	37.1	35.5	36.3	36.3
67°	76.4	48.7	44.6	41.7	36.3	34.3	34.3	34.3
67.5°	72.2	48.3	45.0	41.7	35.9	33.8	33.4	33.4
70°	54.1	43.8	45.0	42.1	35.1	31.0	30.1	30.1
72.5°	42.1	40.0	43.8	43.3	34.3	28.5	26.8	26.4
75°	34.3	36.3	44.2	42.1	32.2	26.0	23.5	23.1
77.5°	29.3	31.0	37.1	33.8	26.8	23.1	20.6	20.2
80°	23.1	26.4	26.4	23.1	19.8	18.6	17.3	17.3
82.5°	18.6	20.2	17.3	15.7	14.9	14.4	13.6	13.6
85°	15.3	16.5	12.8	11.6	11.1	10.7	9.9	9.9
87.5°	12.0	10.3	6.6	6.2	6.2	5.8	5.8	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)