

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: P139603

Luminaire Tested: **ENC-F01-LED-E1-BL3-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P139603  
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: ENC-F01-LED-E1-BL3-8030  
Description: ENTRI LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (7) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1882.8 lumens  
Efficiency: N/A  
Efficacy: 72.7 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

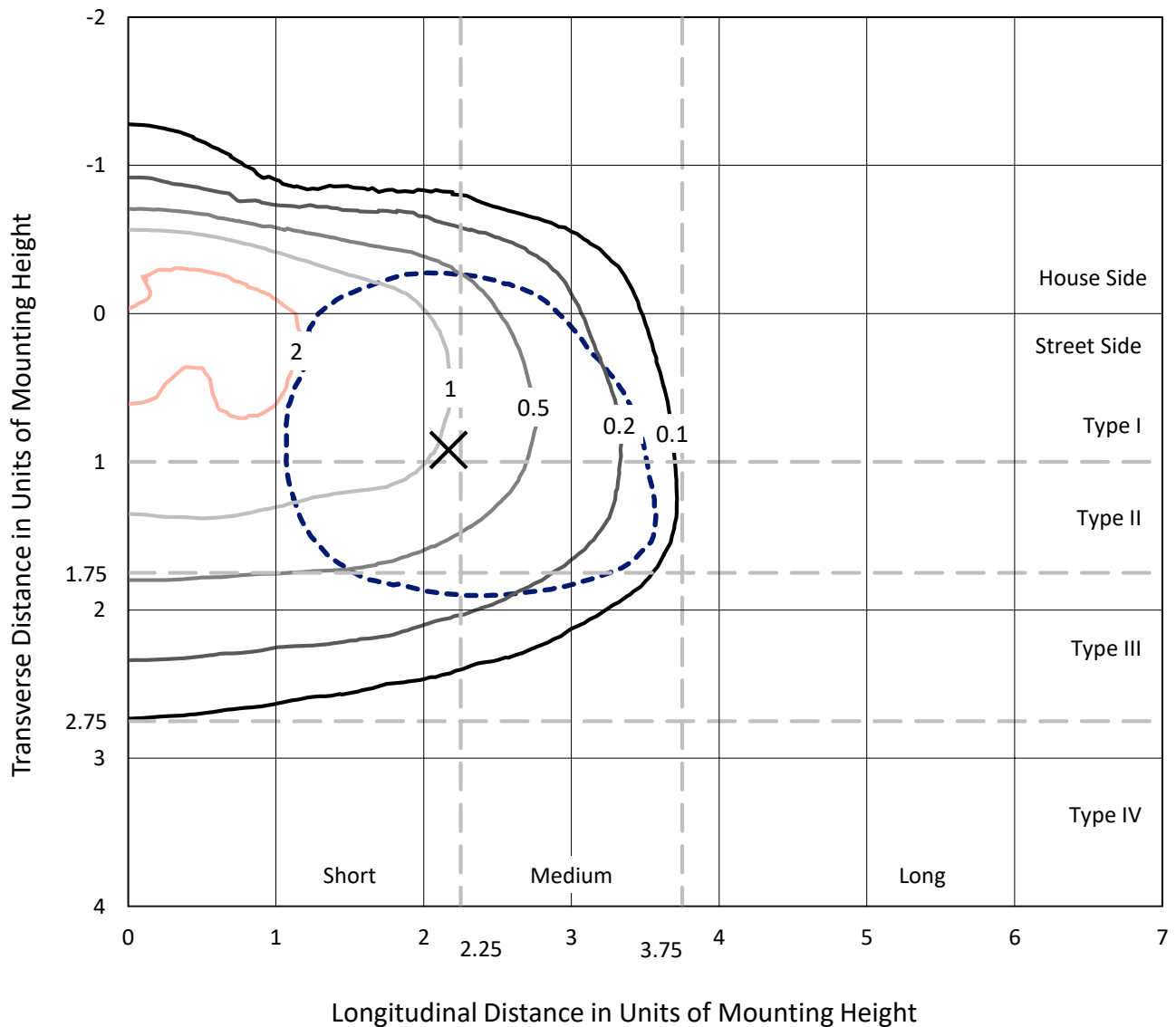
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

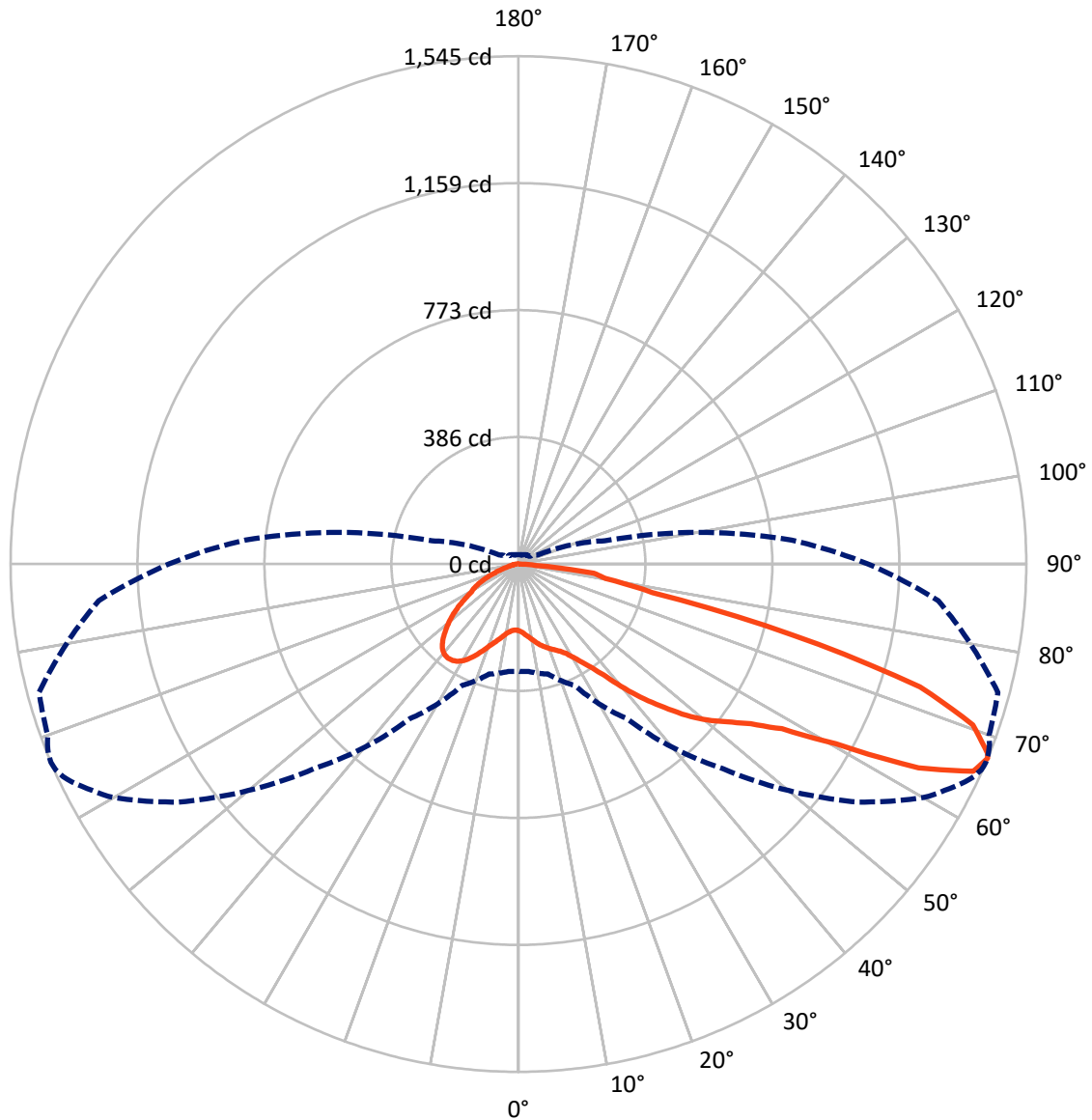
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 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	457.2	0.0	457.2
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	1425.7	0.0	1425.7
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	1882.8	0.0	1882.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.4	1.1
10°-20°	70.7	3.8
20°-30°	128.1	6.8
30°-40°	187.3	9.9
40°-50°	283.8	15.1
50°-60°	407.0	21.6
60°-70°	520.1	27.6
70°-80°	242.8	12.9
80°-90°	22.7	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°	1882.8	100.0
0°-180°	1882.8	100.0



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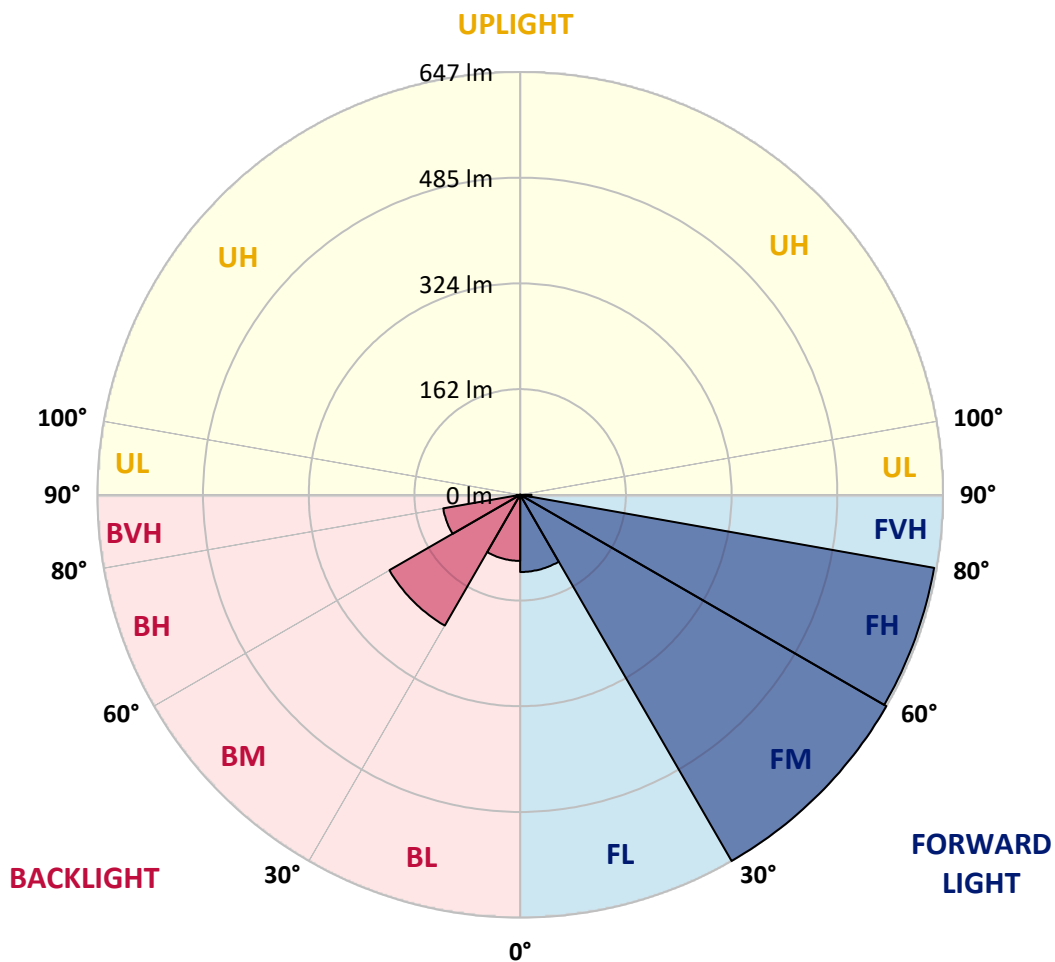
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.1	6.3			
FM	(30°-60°)	647.1	34.4			
FH	(60°-80°)	643.2	34.2			G0/660
FVH	(80°-90°)	17.3	0.9			G1/100
BL	(0°-30°)	101.1	5.4	B0/110		
BM	(30°-60°)	230.9	12.3	B1/1000		
BH	(60°-80°)	119.6	6.4	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8
2.5°	210.8	210.8	211.1	211.1	210.8	210.8	208.7	208.7	208.7	208.3	208.3
5°	222.3	222.6	222.6	222.3	221.6	220.2	217.4	217.4	217.4	217.0	216.3
7.5°	235.5	235.1	235.5	234.5	233.1	231.3	227.5	227.1	226.4	226.4	225.7
10°	250.1	249.1	250.1	248.7	245.9	242.8	238.3	236.9	236.9	236.9	235.5
12.5°	265.1	264.8	265.5	263.0	258.1	254.7	250.1	248.4	248.0	248.0	247.3
15°	281.5	281.1	279.0	275.2	268.9	265.8	260.6	258.5	258.1	258.1	257.1
17.5°	298.6	298.6	293.3	285.3	276.6	272.1	268.2	266.8	266.5	266.5	266.2
20°	313.2	313.2	306.2	293.0	280.4	275.6	274.2	274.2	274.2	274.2	274.5
22.5°	324.0	322.9	313.5	297.2	281.8	277.6	281.1	281.5	281.5	282.2	282.5
25°	328.9	328.5	317.4	297.9	281.5	280.8	288.4	289.5	290.2	290.9	291.9
27.5°	329.2	329.2	318.1	297.5	281.1	286.4	297.5	300.6	301.3	302.7	304.5
30°	325.7	326.1	316.7	297.2	283.6	296.8	311.8	317.7	319.1	321.2	324.0
32.5°	321.5	322.2	316.7	300.6	294.4	314.9	334.8	343.1	344.5	347.3	350.1
35°	322.2	323.3	324.3	314.6	318.4	345.9	374.5	379.4	379.0	383.6	384.9
37.5°	326.8	329.2	336.9	338.6	353.2	391.6	421.5	432.0	432.0	436.2	434.8
40°	327.5	331.3	350.5	370.7	399.6	446.6	487.7	499.9	499.9	501.6	501.0
42.5°	343.8	347.3	374.8	410.7	451.8	507.2	552.5	563.3	565.7	564.0	565.4
45°	373.5	375.9	409.7	455.0	502.3	565.4	615.9	626.4	628.8	627.1	625.0
47.5°	411.1	414.6	450.4	504.1	552.9	619.0	680.7	692.9	695.3	692.6	693.6
50°	442.4	449.0	487.4	550.8	601.6	665.0	730.9	747.6	749.7	749.7	750.4
52.5°	471.0	476.9	513.8	584.6	641.0	706.5	768.2	789.7	792.2	793.9	795.3
55°	482.8	488.8	525.7	599.2	665.0	745.2	811.3	840.3	841.7	846.2	852.1
57.5°	483.2	488.1	524.3	598.8	677.6	780.0	870.2	915.2	920.7	926.7	936.8
60°	450.4	456.4	492.6	581.4	688.0	819.0	959.4	1042.0	1050.0	1067.1	1089.3
62.5°	401.0	405.2	436.5	523.9	688.0	873.0	1102.9	1239.5	1266.3	1294.2	1335.3
65°	355.0	358.1	378.0	453.6	639.3	916.9	1253.1	1410.2	1439.1	1460.0	1494.8
67°	326.4	327.8	346.6	408.3	573.8	881.7	1263.2	1422.0	1446.8	1468.4	1512.3
67.5°	316.7	317.7	335.5	396.8	553.6	860.5	1247.9	1412.3	1439.1	1461.1	1505.6
70°	243.5	240.4	255.7	312.1	447.3	686.6	1095.6	1285.1	1315.8	1345.0	1399.0
72.5°	145.3	140.7	150.5	181.2	289.8	482.5	830.9	1054.5	1093.5	1130.1	1200.8
75°	87.4	87.8	95.1	116.4	158.2	303.4	536.8	686.3	722.9	757.4	813.1
77.5°	43.5	43.2	49.8	67.6	115.3	188.5	311.8	395.7	407.9	424.3	417.7
80°	13.9	13.6	14.6	18.5	41.5	126.5	196.1	248.4	254.0	257.1	260.9
82.5°	2.1	2.4	2.8	4.5	7.7	30.3	121.9	172.8	180.5	189.5	206.9
85°	0.0	0.0	0.3	0.3	1.0	2.4	11.5	29.6	31.0	37.6	44.2
87.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.7	1.7	1.7	1.7	1.7
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°	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8
2.5°	208.0	208.0	207.6	207.3	207.3	207.3	206.6	206.2	204.1	203.4	202.1
5°	216.3	216.3	215.6	215.3	214.9	214.9	213.9	211.8	209.0	207.3	204.5
7.5°	225.4	225.0	224.3	224.3	223.0	223.0	221.6	217.7	214.9	212.5	209.0
10°	235.8	235.5	234.5	234.1	233.4	232.7	231.3	226.8	224.0	220.9	216.7
12.5°	247.3	246.6	245.9	245.6	244.9	244.2	242.8	238.6	235.8	232.7	227.8
15°	257.4	257.1	256.4	256.1	256.1	255.4	254.3	250.5	247.7	244.2	240.4
17.5°	266.5	266.2	265.8	265.8	265.5	265.5	265.1	261.6	259.9	257.1	253.3
20°	274.2	274.5	274.5	274.5	274.9	275.2	275.9	274.2	272.4	270.0	267.9
22.5°	282.5	282.9	283.9	283.9	284.6	285.0	287.4	287.1	286.4	284.6	282.9
25°	292.6	293.3	294.0	295.1	295.4	296.5	300.6	302.4	301.0	299.9	301.7
27.5°	305.9	307.3	308.0	309.4	310.0	311.4	317.7	321.5	320.5	320.8	324.7
30°	325.7	327.1	329.2	329.9	332.3	333.0	340.4	346.3	346.3	345.6	352.5
32.5°	352.2	353.2	355.7	357.4	358.8	360.2	367.2	373.5	374.1	376.2	379.0
35°	387.0	387.7	389.1	391.9	391.6	392.3	396.1	402.4	405.8	410.7	402.4
37.5°	433.0	435.5	434.8	435.1	432.3	434.1	435.5	442.1	449.4	454.3	421.9
40°	498.5	500.3	498.5	496.1	494.0	492.9	490.9	498.2	504.4	501.0	437.2
42.5°	562.3	563.0	561.6	557.4	555.6	552.2	546.6	555.6	559.1	542.8	445.2
45°	625.3	624.3	621.8	621.1	617.7	614.2	611.0	617.0	615.6	583.5	448.7
47.5°	691.5	690.5	688.7	685.9	682.1	681.4	678.6	677.9	667.8	618.4	447.0
50°	749.3	750.0	746.2	747.6	745.9	742.4	739.9	741.3	717.3	649.0	443.5
52.5°	799.2	799.2	797.4	799.2	798.5	796.7	798.8	821.5	771.6	692.2	438.2
55°	857.0	859.1	857.7	859.4	860.5	864.3	873.0	926.0	852.8	745.2	426.4
57.5°	941.6	946.9	945.5	952.4	958.7	968.8	1000.5	1056.3	953.5	803.3	403.1
60°	1093.5	1110.6	1109.9	1122.1	1134.6	1146.1	1201.5	1212.3	1067.4	879.3	385.6
62.5°	1346.4	1360.4	1366.3	1379.5	1387.5	1389.6	1434.2	1355.2	1169.1	948.3	375.9
65°	1510.2	1515.7	1521.0	1519.2	1514.4	1506.3	1509.1	1341.9	1135.3	904.0	322.6
67°	1529.7	1541.2	1545.4	1542.6	1535.3	1524.1	1510.5	1282.0	1063.6	835.0	272.8
67.5°	1524.1	1536.0	1539.8	1537.3	1531.1	1522.7	1506.7	1259.3	1039.2	812.7	259.9
70°	1434.6	1451.6	1467.3	1472.6	1472.9	1471.5	1455.5	1099.4	884.5	682.5	197.2
72.5°	1223.1	1245.1	1277.8	1267.4	1284.1	1273.3	1236.7	751.4	606.2	487.7	138.3
75°	825.3	835.0	861.5	831.2	834.0	814.8	672.7	436.5	375.9	317.4	83.3
77.5°	415.3	421.5	417.3	399.2	392.3	376.6	291.2	94.8	94.8	112.9	43.5
80°	263.4	265.8	268.6	272.8	278.0	278.7	202.1	27.9	25.1	26.1	23.7
82.5°	216.0	222.6	231.3	233.1	235.1	236.9	139.3	15.3	12.5	13.9	16.7
85°	50.2	54.3	51.9	46.0	49.1	38.0	19.5	6.3	5.6	7.0	11.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.4	2.4	5.9
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°	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8
2.5°	200.7	199.6	198.2	197.9	197.5	196.8	196.5	196.1
5°	201.7	199.6	197.5	196.1	195.4	194.7	194.0	194.0
7.5°	205.9	203.4	200.3	198.9	197.5	196.5	195.8	195.8
10°	212.9	210.1	206.2	204.5	202.8	201.7	201.0	200.3
12.5°	223.3	219.8	215.3	212.5	210.8	210.4	209.7	209.4
15°	236.2	232.4	227.5	224.7	221.9	221.2	220.5	220.2
17.5°	249.1	245.9	242.1	237.2	231.7	227.1	225.0	224.7
20°	263.7	262.3	256.4	245.6	233.4	224.0	220.2	220.2
22.5°	282.2	278.3	264.1	244.9	226.8	213.5	208.3	208.3
25°	302.4	289.5	263.0	237.2	214.9	198.6	191.6	191.6
27.5°	320.1	292.6	256.7	224.3	197.2	179.4	171.4	171.0
30°	334.1	290.9	245.6	206.2	176.3	156.1	147.0	147.0
32.5°	341.7	285.0	230.3	185.0	150.8	127.9	116.7	117.1
35°	343.8	274.9	210.1	156.8	120.2	97.5	87.4	87.4
37.5°	341.7	258.8	185.0	125.8	89.9	73.9	66.2	65.5
40°	334.8	234.8	151.5	92.0	66.9	57.5	54.3	53.6
42.5°	320.8	205.9	113.9	65.8	53.6	49.8	49.1	48.8
45°	298.9	166.9	79.1	51.6	48.1	47.0	47.0	46.7
47.5°	271.4	127.5	56.4	45.6	45.3	45.3	45.3	45.3
50°	240.7	90.2	46.0	43.2	42.8	43.5	43.9	43.9
52.5°	209.0	63.1	42.2	41.5	40.8	41.8	42.2	42.2
55°	174.5	49.5	40.4	39.7	38.7	39.0	39.7	39.7
57.5°	139.0	43.9	39.7	38.7	36.6	36.6	37.3	37.3
60°	110.4	42.2	39.4	36.9	34.1	34.1	34.8	35.2
62.5°	92.3	41.8	39.4	35.2	33.1	32.0	32.7	32.7
65°	77.0	41.8	38.3	35.2	31.4	30.0	30.7	30.7
67°	64.4	41.1	37.6	35.2	30.7	28.9	28.9	28.9
67.5°	61.0	40.8	38.0	35.2	30.3	28.6	28.2	28.2
70°	45.6	36.9	38.0	35.5	29.6	26.1	25.4	25.4
72.5°	35.5	33.8	36.9	36.6	28.9	24.0	22.6	22.3
75°	28.9	30.7	37.3	35.5	27.2	21.9	19.9	19.5
77.5°	24.7	26.1	31.4	28.6	22.6	19.5	17.4	17.1
80°	19.5	22.3	22.3	19.5	16.7	15.7	14.6	14.6
82.5°	15.7	17.1	14.6	13.2	12.5	12.2	11.5	11.5
85°	12.9	13.9	10.8	9.8	9.4	9.1	8.4	8.4
87.5°	10.1	8.7	5.6	5.2	5.2	4.9	4.9	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)