

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: P139427

Luminaire Tested: **ENV-F01-LED-E1-BL2-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P139427
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33644)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-F01-LED-E1-BL2-7060
Description: ENTRI LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2319.4 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.17' x H: 0')
IES Classification: Type II - 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

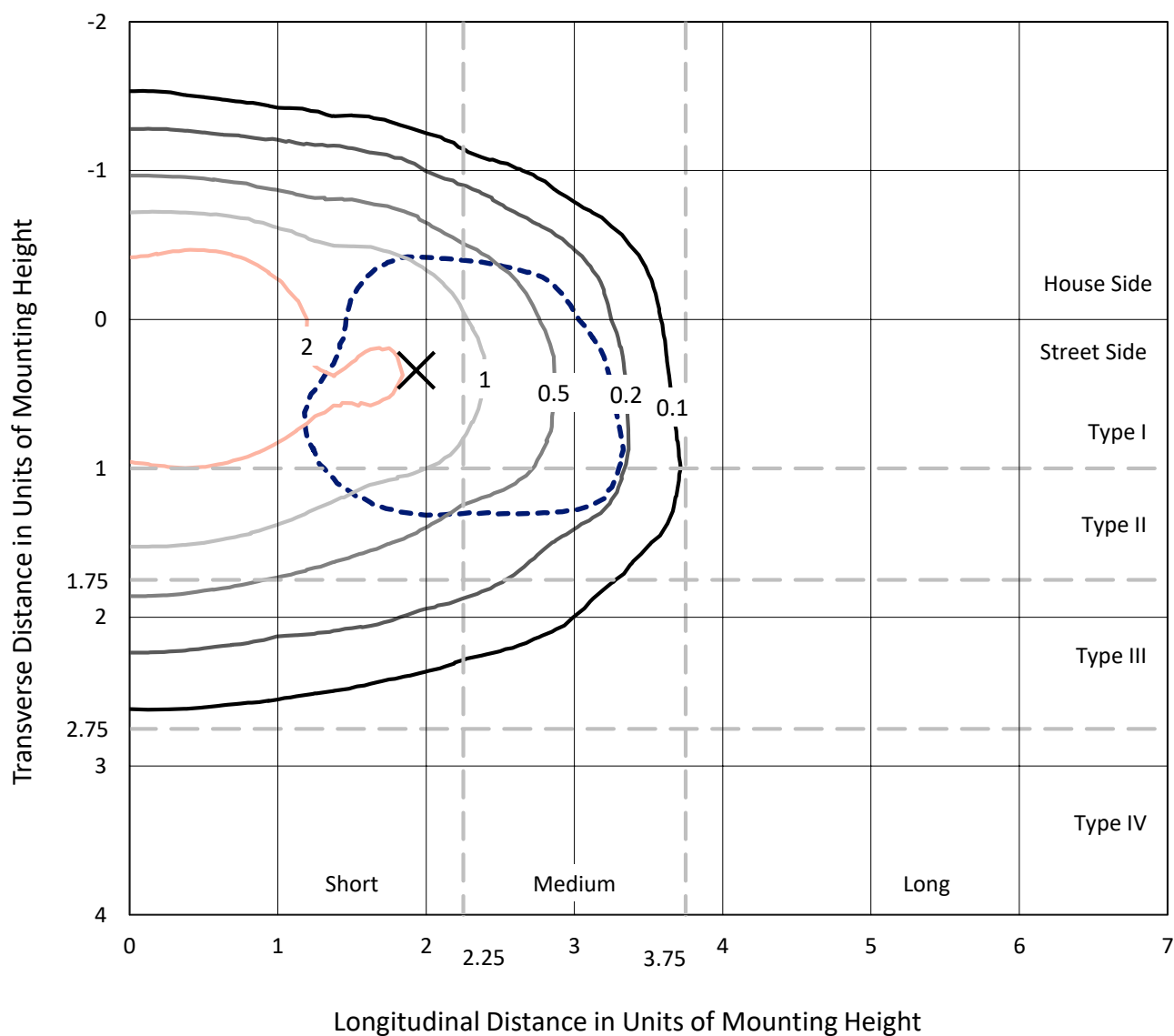


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

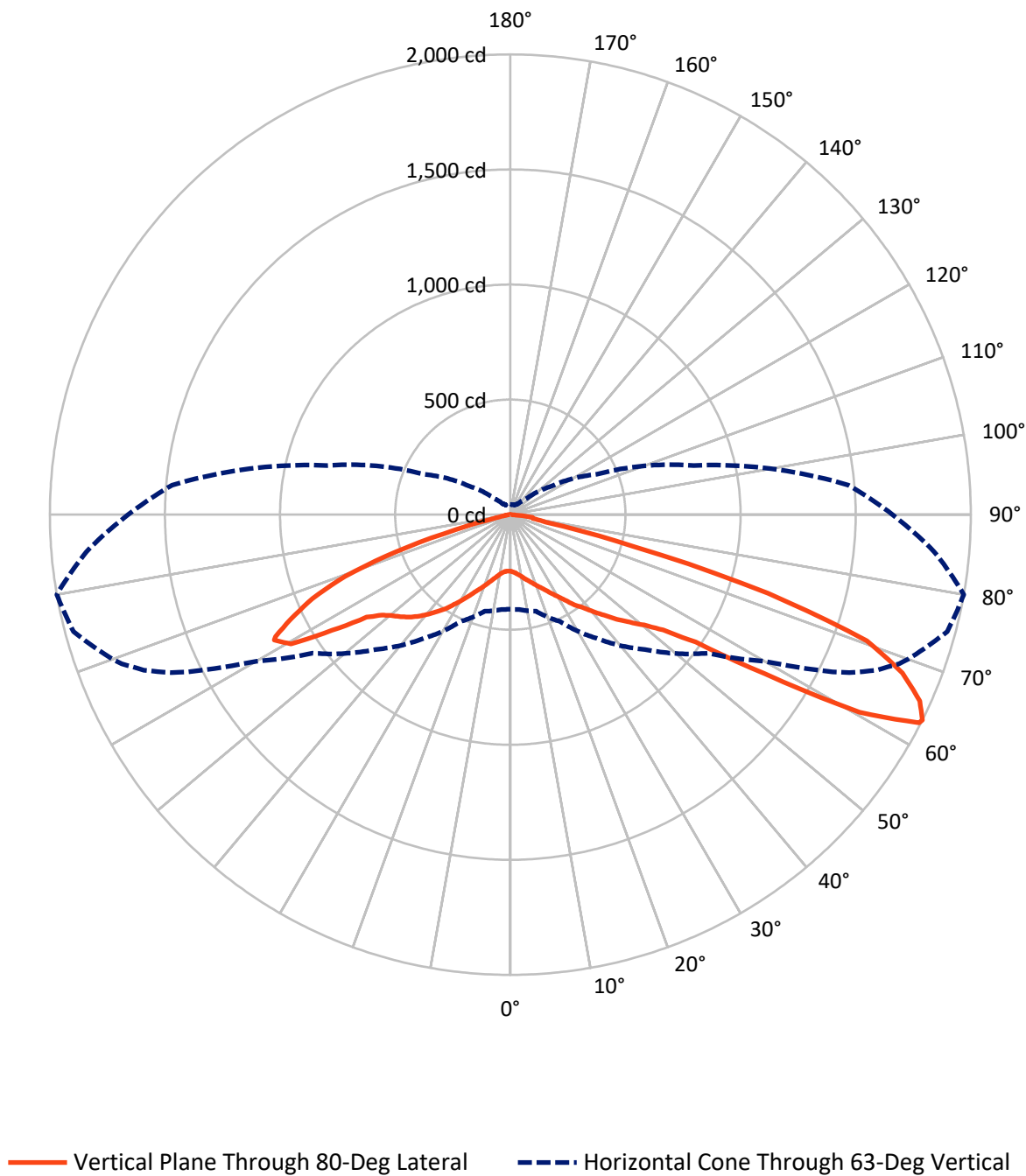


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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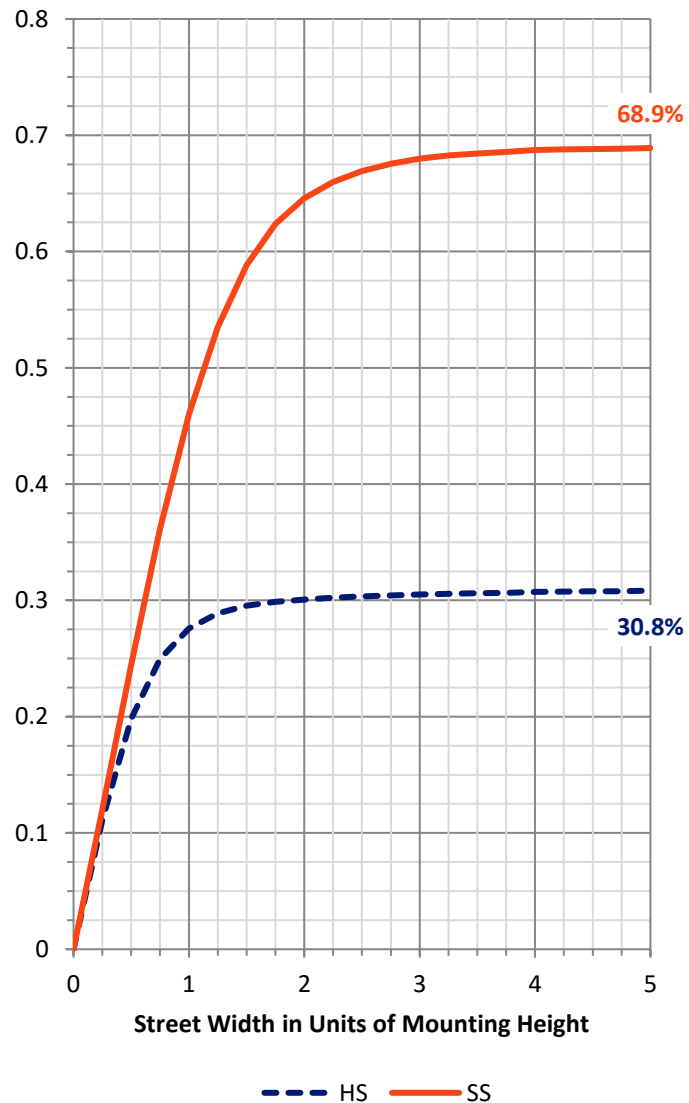
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	722.3	0.0	722.3
	% Fixture	31.1	0.0	31.1
Street Side	Lumens	1597.0	0.0	1597.0
	% Fixture	68.9	0.0	68.9
Total	Lumens	2319.4	0.0	2319.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	1.1
10°-20°	84.4	3.6
20°-30°	158.7	6.8
30°-40°	251.8	10.9
40°-50°	380.1	16.4
50°-60°	534.3	23.0
60°-70°	623.4	26.9
70°-80°	241.0	10.4
80°-90°	21.0	0.9
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°	2319.4	100.0
0°-180°	2319.4	100.0

Coefficient of Utilization



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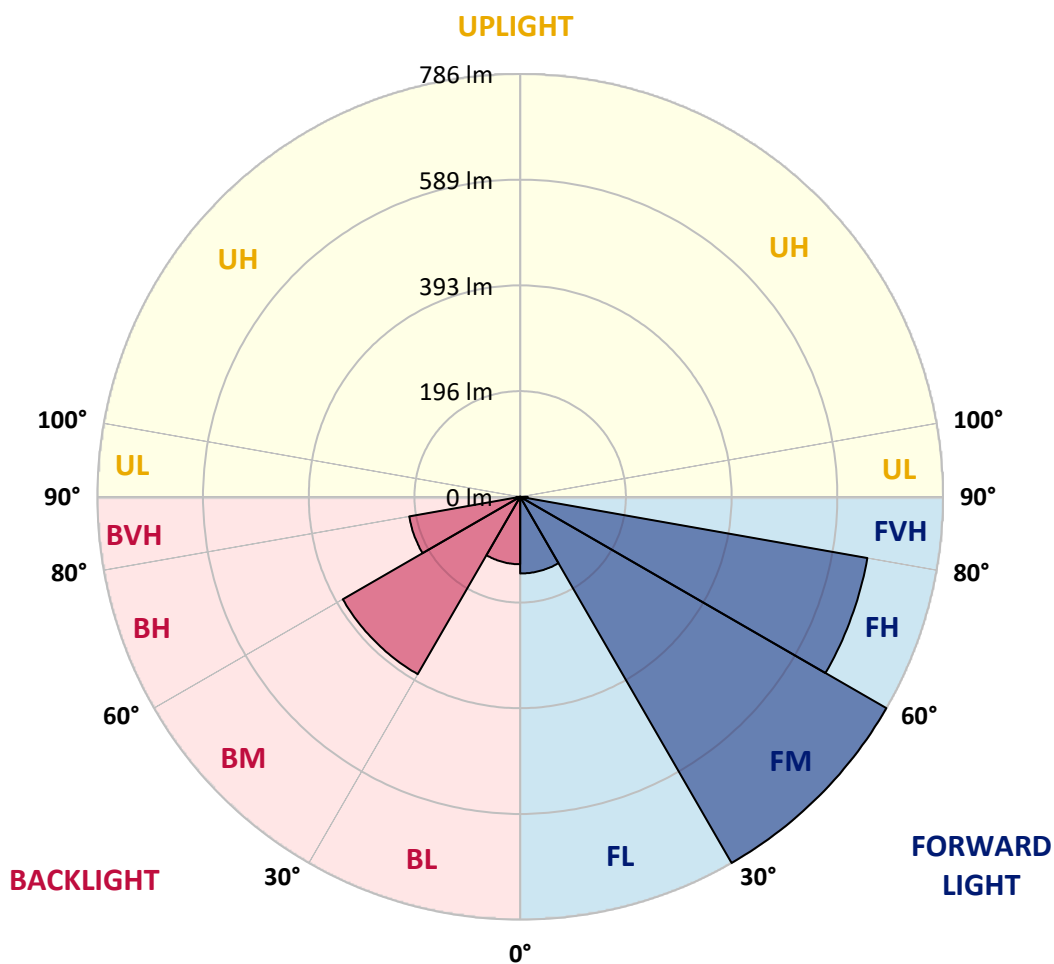
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.5	6.1			
FM	(30°-60°)	785.6	33.9			
FH	(60°-80°)	655.0	28.2			G0/660
FVH	(80°-90°)	14.0	0.6			G1/100
BL	(0°-30°)	125.3	5.4	B1/500		
BM	(30°-60°)	380.6	16.4	B1/1000		
BH	(60°-80°)	209.4	9.0	B1/500		G1/500
BVH	(80°-90°)	7.0	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	257.9	257.1	257.5	257.1	257.1	256.2	253.7	253.7	253.3	253.7	252.9
5°	271.9	271.5	271.1	270.2	270.2	268.5	264.3	263.4	263.9	263.0	261.3
7.5°	287.6	287.2	286.3	284.6	283.8	281.2	275.3	274.5	274.0	273.2	271.9
10°	303.3	302.8	301.6	299.4	297.3	293.5	287.6	285.5	285.0	284.6	283.3
12.5°	319.3	318.1	318.5	314.7	311.3	306.6	299.9	297.7	297.3	296.9	296.5
15°	337.1	336.7	335.9	330.8	324.4	318.1	311.3	308.8	307.1	307.5	307.1
17.5°	354.1	353.7	350.7	343.5	335.0	327.8	319.3	317.7	317.7	317.2	317.2
20°	366.4	365.9	363.0	354.1	343.1	335.0	328.2	328.2	327.8	328.2	328.7
22.5°	371.9	371.9	368.1	358.3	346.5	340.5	338.4	339.7	340.1	340.5	341.4
25°	374.0	374.0	370.2	358.7	347.7	348.6	351.1	353.2	354.1	354.1	357.0
27.5°	377.8	378.2	373.1	360.9	352.0	360.0	366.4	369.3	370.6	371.4	375.3
30°	389.2	388.8	384.6	371.4	364.7	376.1	387.5	390.5	393.5	393.5	397.7
32.5°	406.2	405.7	403.2	393.0	390.1	404.5	414.6	421.0	420.6	421.4	424.4
35°	428.6	429.0	430.7	428.2	430.7	445.1	456.6	459.1	459.5	460.0	460.4
37.5°	454.0	454.5	463.8	471.8	483.3	504.4	511.2	512.5	509.5	509.5	508.7
40°	473.1	475.2	496.0	517.1	541.3	570.1	580.2	577.7	575.6	573.9	568.8
42.5°	512.1	513.3	535.4	565.8	599.7	639.5	657.3	648.9	648.4	640.8	637.0
45°	551.0	554.4	578.1	612.4	653.1	708.2	734.4	727.2	725.9	722.6	712.0
47.5°	581.9	586.6	612.9	653.5	700.1	763.6	810.7	815.7	812.8	809.0	800.5
50°	608.2	612.0	638.7	683.2	736.5	806.0	873.3	891.5	894.1	892.4	890.3
52.5°	625.1	629.0	655.2	702.6	757.7	837.3	919.9	955.9	963.5	963.1	972.0
55°	625.6	629.8	656.9	709.0	769.6	858.9	963.1	1019.9	1029.2	1040.6	1059.7
57.5°	602.3	606.5	640.4	700.5	773.0	875.9	1005.1	1105.0	1130.4	1152.9	1205.4
60°	537.5	539.2	576.4	656.9	756.9	872.1	1036.8	1178.3	1214.3	1263.0	1347.7
62.5°	437.9	441.3	464.2	542.6	681.9	838.6	1049.5	1260.0	1319.3	1390.5	1526.0
63°	410.4	413.4	434.5	512.1	656.5	828.0	1049.1	1273.2	1338.4	1411.7	1557.8
65°	316.8	317.7	333.3	391.8	538.7	750.9	1026.2	1254.5	1337.1	1422.7	1576.0
67.5°	255.4	258.4	274.0	315.1	425.7	630.6	923.7	1086.8	1143.1	1227.4	1410.0
70°	199.9	205.0	219.8	266.4	363.0	507.8	777.2	907.2	941.9	982.2	1137.2
72.5°	132.1	133.4	136.0	161.8	253.3	395.2	646.7	735.3	748.8	777.6	853.4
75°	62.3	66.9	70.7	83.9	122.4	258.8	468.9	522.2	538.3	568.4	595.9
77.5°	27.1	26.7	28.4	38.5	64.4	115.2	291.8	385.8	391.3	384.6	372.7
80°	8.5	8.9	9.3	10.2	20.3	55.1	126.2	259.2	286.3	304.5	299.4
82.5°	0.8	0.4	1.3	2.5	4.2	8.0	47.4	121.6	152.9	187.6	232.1
85°	0.0	0.0	0.4	0.4	0.8	1.7	3.0	12.7	21.2	24.6	48.7
87.5°	0.0	0.0	0.4	0.4	0.8	1.3	1.3	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°	80°	85°	90°	95°
0°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	252.4	252.4	251.6	252.0	251.6	251.6	250.7	249.9	249.5	247.3	246.1
5°	261.3	261.3	260.9	260.1	260.1	259.6	257.5	255.4	254.1	251.6	249.0
7.5°	271.5	271.1	270.2	269.4	269.4	268.9	266.0	263.9	261.3	257.5	254.5
10°	283.3	282.9	282.1	280.8	280.8	280.4	277.4	274.0	271.9	267.3	263.4
12.5°	296.1	294.8	294.4	293.5	292.7	292.7	290.1	286.7	285.0	280.0	276.1
15°	306.6	305.8	305.4	304.9	304.5	303.7	301.6	298.6	297.3	293.1	290.1
17.5°	316.8	316.8	317.2	316.4	316.0	315.1	313.8	313.0	311.7	307.9	306.2
20°	328.7	328.7	329.5	329.1	328.7	329.9	329.5	329.1	329.1	325.7	324.4
22.5°	342.6	342.2	343.5	343.1	343.5	344.8	346.5	345.6	347.3	345.2	344.3
25°	358.7	358.3	359.6	360.4	361.3	362.1	365.5	366.4	368.5	368.1	366.4
27.5°	376.9	377.4	377.8	379.9	381.2	382.0	386.7	389.2	393.5	391.8	393.5
30°	398.1	400.2	401.9	404.1	404.5	405.3	412.9	415.5	417.6	418.9	421.4
32.5°	427.3	428.6	429.0	431.6	432.4	433.7	441.7	445.1	448.1	448.5	453.2
35°	462.9	463.8	465.0	466.3	468.0	467.2	476.5	481.6	485.4	485.8	490.9
37.5°	509.9	507.0	508.2	506.6	504.0	504.0	507.0	512.1	516.3	519.7	524.8
40°	566.3	564.2	563.7	559.9	555.7	551.9	550.2	553.1	556.5	559.5	565.8
42.5°	630.6	628.5	621.3	618.8	611.6	607.4	595.9	597.2	603.1	604.8	608.6
45°	706.0	698.4	695.9	680.2	677.2	671.3	649.7	648.0	653.1	653.5	651.0
47.5°	792.0	786.5	780.6	769.6	758.1	748.4	715.4	698.0	703.5	703.1	690.8
50°	885.6	884.8	875.9	868.7	858.5	844.5	785.7	753.9	758.1	754.3	731.9
52.5°	975.0	972.4	972.0	966.5	962.7	958.0	886.5	831.8	822.1	814.0	785.2
55°	1069.0	1075.4	1071.1	1080.0	1086.8	1086.0	1056.3	976.3	926.7	920.3	876.3
57.5°	1225.7	1241.0	1261.3	1262.1	1280.4	1306.6	1360.0	1302.4	1178.3	1153.7	1094.8
60°	1405.3	1444.7	1495.5	1520.5	1559.5	1600.1	1734.0	1742.9	1569.2	1474.3	1366.3
62.5°	1585.7	1637.4	1697.5	1736.5	1784.8	1816.6	1958.0	1991.9	1833.5	1658.6	1480.7
63°	1623.8	1676.8	1728.9	1767.0	1807.7	1836.9	1963.9	1999.5	1847.9	1659.0	1473.5
65°	1643.8	1693.3	1734.0	1767.8	1795.0	1814.9	1915.2	1953.8	1828.8	1597.6	1392.6
67.5°	1492.5	1572.2	1623.4	1664.5	1692.0	1719.6	1811.9	1836.0	1747.5	1478.1	1269.8
70°	1235.5	1327.4	1408.3	1472.2	1519.7	1561.6	1658.6	1642.1	1565.8	1284.6	1077.1
72.5°	908.9	989.0	1067.7	1140.2	1202.0	1255.4	1319.3	1169.8	1053.8	854.3	745.4
75°	611.2	628.5	664.5	700.5	723.0	738.2	698.8	557.0	452.3	405.7	354.9
77.5°	360.9	349.0	350.3	341.4	335.4	334.2	280.4	155.9	82.2	83.9	88.1
80°	288.0	274.9	260.9	245.2	235.1	224.1	182.5	100.0	35.6	28.8	30.1
82.5°	232.9	229.6	221.9	205.8	189.7	170.7	130.4	96.1	20.3	16.1	17.4
85°	45.3	50.8	45.7	50.0	37.3	35.2	20.8	22.4	8.0	7.2	8.9
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
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):

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7	245.7
2.5°	244.0	242.3	241.0	239.3	238.5	237.2	236.8	235.5	235.9
5°	244.8	241.8	239.3	236.8	235.1	234.2	233.4	232.5	232.5
7.5°	249.0	245.2	242.3	239.3	238.0	236.3	235.9	234.6	234.6
10°	257.9	253.7	249.9	246.5	244.8	242.7	241.8	240.6	240.6
12.5°	271.1	267.3	263.0	257.9	254.5	252.0	249.9	249.0	249.0
15°	285.9	282.9	279.5	272.8	267.3	262.6	258.4	256.7	256.2
17.5°	303.7	301.1	297.7	290.1	281.2	271.5	264.3	260.9	260.5
20°	325.3	322.7	317.7	307.1	293.1	277.8	266.4	261.3	260.9
22.5°	347.3	347.3	338.8	321.5	300.7	280.4	265.1	258.4	257.1
25°	371.4	372.7	360.0	332.9	304.9	279.1	259.6	251.2	249.5
27.5°	400.7	399.4	378.2	341.8	305.4	274.0	250.7	240.6	238.9
30°	432.9	424.4	393.0	346.9	302.4	264.7	238.9	227.4	226.2
32.5°	465.0	446.8	404.1	347.7	293.9	251.2	223.2	211.3	209.7
35°	499.4	466.7	410.8	343.1	280.0	232.9	203.7	192.3	190.6
37.5°	528.2	482.0	412.9	330.8	258.8	211.8	185.9	174.1	171.1
40°	554.4	493.0	409.1	310.9	235.1	191.0	167.3	157.1	156.3
42.5°	578.6	498.1	395.6	285.0	211.3	173.2	151.6	141.9	141.0
45°	597.2	494.7	372.7	256.7	191.9	158.0	137.6	128.8	127.1
47.5°	609.0	482.4	341.4	232.9	175.8	142.3	122.4	113.1	111.4
50°	618.4	464.2	309.6	214.7	160.1	126.2	106.7	98.3	97.0
52.5°	630.6	440.9	282.1	198.2	141.9	108.0	90.6	82.6	81.3
55°	657.8	421.0	262.6	180.0	122.4	88.9	74.5	69.5	67.8
57.5°	749.7	427.8	250.3	158.0	100.0	71.6	61.8	58.9	58.4
60°	846.2	456.6	244.4	132.6	77.5	58.0	52.5	51.7	51.2
62.5°	841.1	430.7	219.8	104.2	59.7	47.9	45.3	45.7	45.7
63°	824.2	415.1	211.8	97.8	56.8	46.6	44.0	44.0	44.0
65°	721.7	352.0	172.0	74.1	47.4	41.5	39.4	39.8	40.2
67.5°	595.9	254.1	113.1	51.7	42.8	37.7	35.2	34.3	34.3
70°	455.7	171.1	66.9	44.9	42.4	35.2	30.9	30.1	30.1
72.5°	299.0	104.6	45.3	44.9	41.9	33.5	28.8	27.1	27.1
75°	137.2	51.7	37.7	43.2	39.8	30.9	25.4	23.3	22.9
77.5°	53.4	32.6	33.9	36.4	30.9	25.4	22.9	21.2	20.8
80°	30.9	26.3	29.6	26.3	22.4	19.5	19.5	18.2	17.8
82.5°	22.4	22.4	22.9	19.1	16.9	16.1	16.1	14.8	14.4
85°	16.1	16.5	19.1	15.2	13.1	11.4	10.6	10.6	10.2
87.5°	8.0	13.1	10.6	6.4	5.9	5.5	5.5	5.5	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)