

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: P148783

Luminaire Tested: **VWM-F01-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148783
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F01-LED-E1-RW-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2176.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (A_{in}): 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

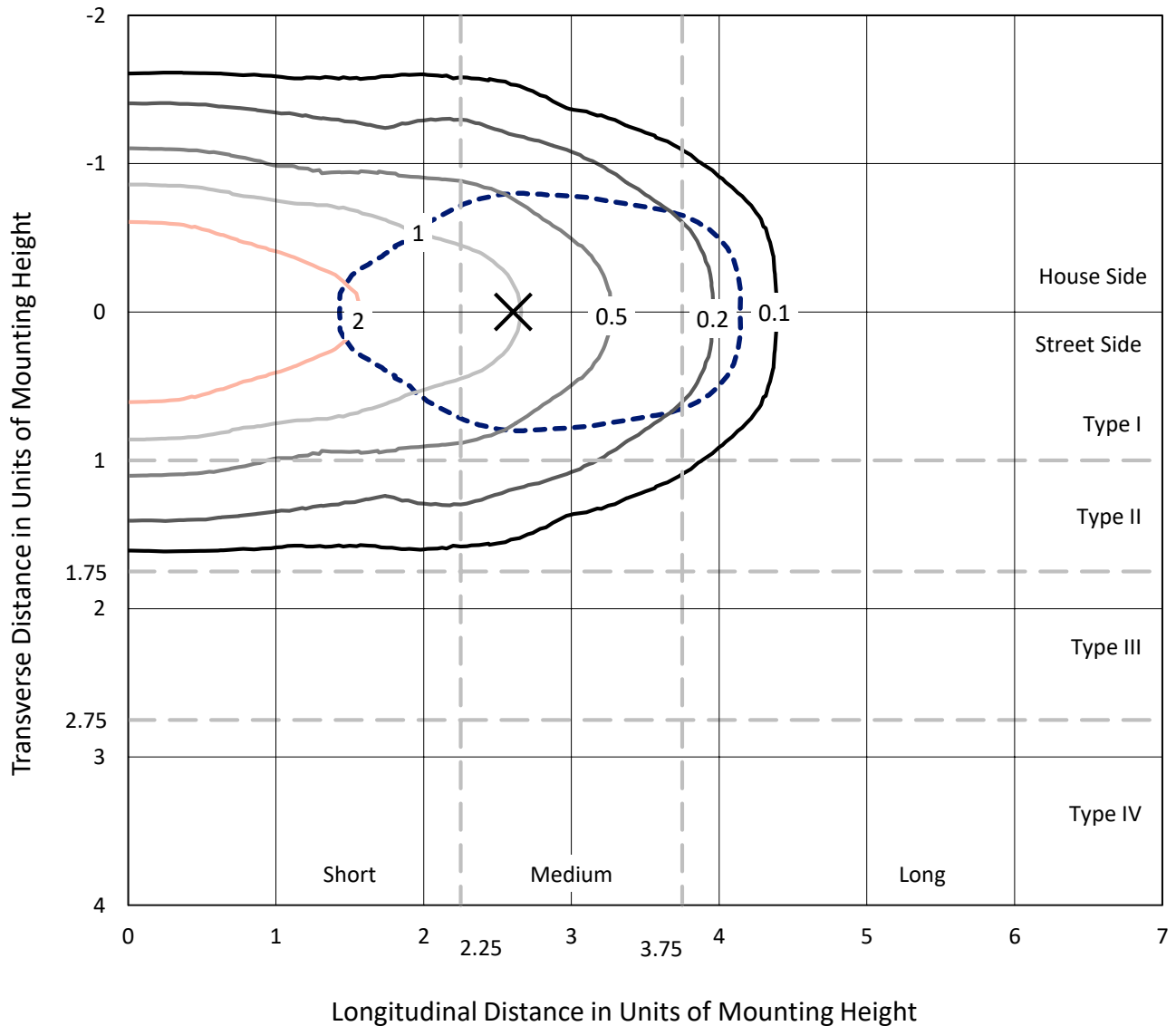


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Iso-Footcandle Lines of Horizontal Illumination

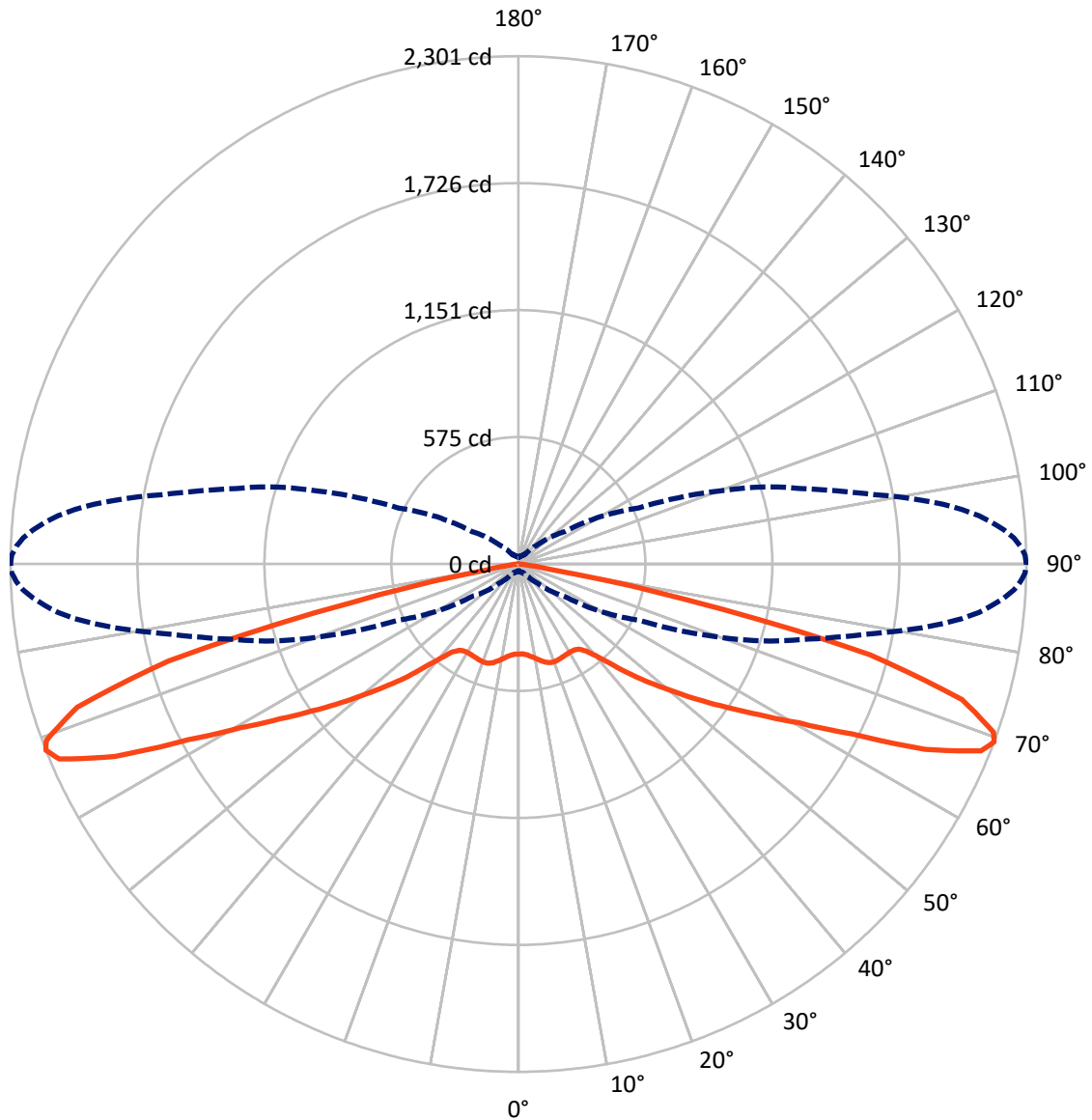
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.3	0.0	1088.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1088.3	0.0	1088.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	2176.6	0.0	2176.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	1.8
10°-20°	126.2	5.8
20°-30°	204.4	9.4
30°-40°	254.8	11.7
40°-50°	318.4	14.6
50°-60°	393.1	18.1
60°-70°	488.5	22.4
70°-80°	324.3	14.9
80°-90°	26.8	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°	2176.6	100.0
0°-180°	2176.6	100.0



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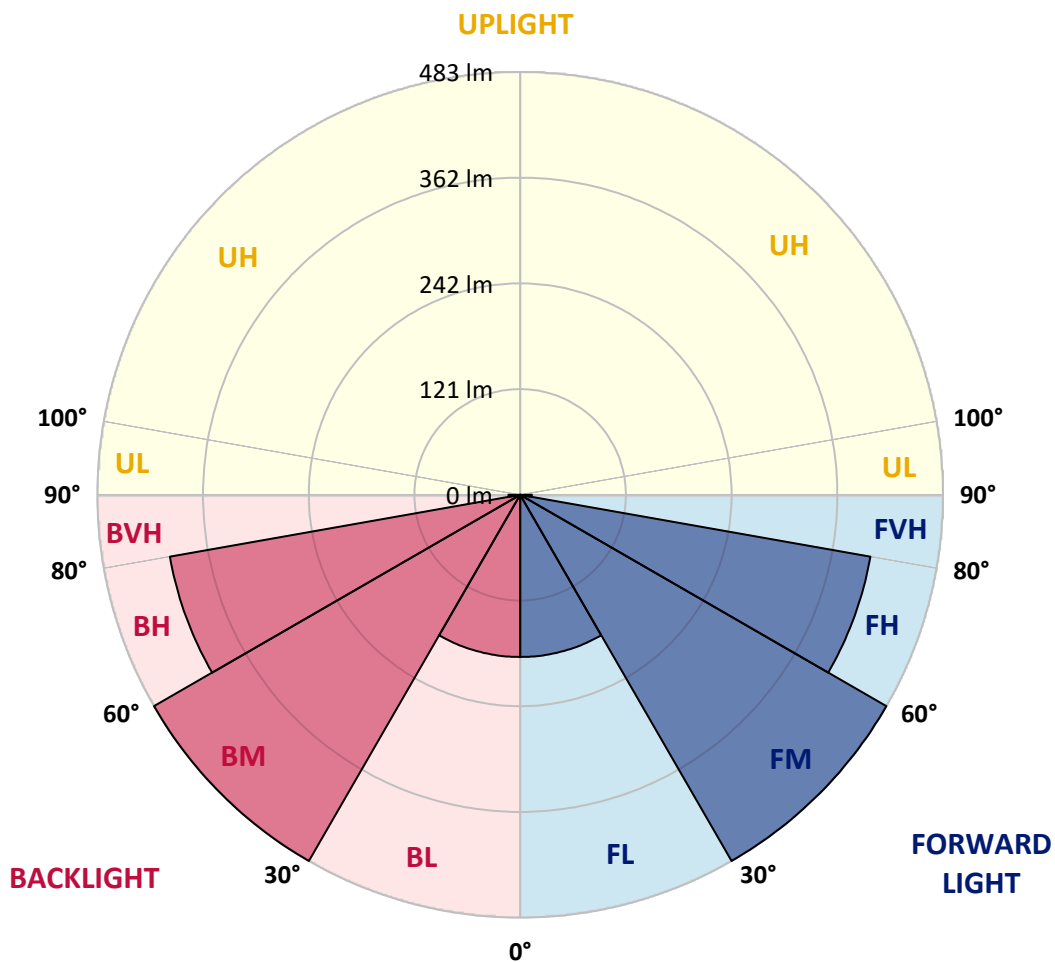
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.3	8.5			
FM (30°-60°)	483.2	22.2			
FH (60°-80°)	406.4	18.7			G0/660
FVH (80°-90°)	13.4	0.6			G1/100
BL (0°-30°)	185.3	8.5	B1/500		
BM (30°-60°)	483.2	22.2	B1/1000		
BH (60°-80°)	406.4	18.7	B1/500		G1/500
BVH (80°-90°)	13.4	0.6			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	409.6	410.0	409.8	410.2	410.2	410.2	409.9	409.4	409.4	409.3	409.3
5°	413.6	413.2	413.8	414.6	414.4	414.4	414.3	414.3	414.3	414.2	414.2
7.5°	417.8	417.7	418.2	420.0	420.2	421.0	421.8	422.4	422.4	422.4	422.4
10°	421.4	421.6	422.7	425.4	426.8	429.0	431.2	432.9	433.0	433.2	433.3
12.5°	424.3	424.4	426.2	430.4	433.7	437.9	442.6	445.4	445.6	445.8	446.0
15°	424.6	424.9	427.9	434.8	441.5	448.4	454.0	457.6	457.8	458.0	458.2
17.5°	421.6	421.8	426.8	437.0	448.2	458.9	464.8	466.4	466.5	466.6	466.7
20°	413.6	414.2	421.4	436.4	453.6	467.5	473.7	471.4	471.2	471.0	470.8
22.5°	400.8	400.8	410.2	430.4	454.6	474.2	479.7	473.9	473.2	472.5	471.8
25°	380.2	381.6	392.6	416.8	448.7	475.8	484.0	475.2	474.2	473.2	472.2
27.5°	357.8	358.6	370.3	396.2	434.8	470.6	486.1	477.7	476.6	475.5	474.4
30°	331.6	332.7	345.2	372.3	412.7	457.0	485.5	483.5	482.2	480.9	479.6
32.5°	306.1	307.3	318.5	348.2	389.4	438.6	482.0	491.8	490.4	489.1	487.8
35°	279.6	281.4	295.0	325.0	366.8	418.0	476.7	502.4	501.6	500.9	500.1
37.5°	257.6	258.0	271.2	302.8	346.0	398.4	469.6	515.7	516.2	516.8	517.3
40°	233.2	235.4	248.6	281.8	327.0	381.8	462.9	533.8	536.6	539.4	542.1
42.5°	211.2	211.4	225.0	259.2	306.4	368.4	459.2	555.7	561.6	567.5	573.5
45°	188.1	189.0	201.2	234.3	282.8	352.7	459.0	580.8	590.3	599.8	609.3
47.5°	166.3	166.6	179.5	210.3	255.6	330.6	458.2	607.9	620.8	633.7	646.6
50°	145.4	145.0	157.7	187.3	228.8	301.6	451.2	638.6	654.8	671.1	687.4
52.5°	121.4	123.1	136.2	164.6	204.4	272.3	430.4	672.1	691.6	711.1	730.6
55°	98.0	98.7	112.8	139.2	179.6	244.9	394.5	703.0	726.0	748.9	771.9
57.5°	72.2	74.4	86.6	112.8	154.6	221.8	348.7	719.0	747.0	774.9	802.9
60°	51.0	52.6	63.5	85.4	127.0	197.5	309.4	710.1	746.4	782.8	819.1
62.5°	39.8	41.0	49.7	64.0	99.1	173.2	281.2	681.2	730.6	780.0	829.4
65°	34.8	36.0	43.9	51.2	74.0	148.6	265.7	650.7	716.0	781.3	846.6
67.5°	31.5	32.8	39.7	44.8	60.3	129.6	261.6	631.3	705.3	779.3	853.3
69°	30.0	31.4	37.5	41.8	56.0	122.8	254.6	601.0	674.6	748.2	821.7
70°	29.0	30.2	35.8	40.3	54.6	118.2	243.0	563.2	635.4	707.7	779.9
72.5°	27.0	27.6	32.5	36.8	50.6	95.6	187.0	418.3	480.9	543.6	606.2
75°	23.8	24.5	29.2	33.3	39.4	59.4	118.3	258.8	305.5	352.2	399.0
77.5°	20.6	21.2	25.2	31.8	30.6	37.0	70.7	144.0	171.1	198.2	225.3
80°	16.5	17.2	20.8	31.6	25.3	28.8	50.8	100.7	108.0	115.3	122.6
82.5°	12.0	12.6	16.2	25.6	19.4	21.7	38.8	85.4	87.9	90.4	93.0
85°	6.2	6.2	10.4	15.6	12.3	11.3	21.8	58.4	60.0	61.7	63.3
87.5°	1.0	1.0	2.3	2.7	3.1	1.9	2.8	10.0	10.3	10.6	10.9
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	409.2	409.1	409.0	409.0	409.1	409.1	409.2	409.2	409.4	408.9	408.9
5°	414.1	414.1	414.1	414.1	414.2	414.1	414.2	414.4	414.3	414.1	414.0
7.5°	422.4	422.4	422.5	422.5	422.7	422.5	422.3	422.7	422.9	423.0	423.2
10°	433.4	433.6	434.0	433.9	434.3	434.3	434.3	434.7	435.0	435.0	435.3
12.5°	446.3	446.5	446.7	446.9	447.3	447.1	447.6	447.9	448.2	448.9	448.6
15°	458.4	458.6	459.2	459.3	459.6	459.8	460.4	460.6	460.6	461.2	461.2
17.5°	466.8	466.8	467.1	466.9	467.3	467.2	467.6	467.7	468.0	468.3	468.8
20°	470.6	470.4	470.2	470.1	469.9	469.5	469.6	469.8	469.8	470.1	470.5
22.5°	471.2	470.5	469.8	469.3	468.6	468.0	467.4	467.4	467.5	467.4	467.7
25°	471.2	470.2	469.1	467.8	466.8	465.5	464.4	464.3	464.0	464.0	464.1
27.5°	473.3	472.2	470.6	469.1	467.0	465.2	463.4	462.8	462.2	461.8	461.6
30°	478.4	477.1	475.2	473.3	471.0	468.2	465.6	464.9	464.0	463.2	462.5
32.5°	486.5	485.2	483.1	481.1	478.0	475.3	472.8	471.5	470.2	468.8	467.5
35°	499.4	498.7	496.9	495.1	492.8	490.7	488.4	487.0	484.8	483.7	482.2
37.5°	517.9	518.4	518.4	518.6	517.9	516.9	515.2	513.8	513.0	510.2	508.3
40°	544.9	547.7	550.2	552.2	553.9	555.7	557.2	556.3	556.6	555.8	554.7
42.5°	579.4	585.4	590.7	596.2	600.1	606.2	610.4	611.8	615.2	616.6	619.1
45°	618.8	628.2	637.3	645.8	653.6	662.3	670.8	677.2	684.1	692.0	699.8
47.5°	659.5	672.4	685.8	696.8	708.1	721.1	732.4	741.9	754.4	765.9	778.6
50°	703.7	720.0	735.3	748.8	763.4	778.3	793.8	807.8	824.7	843.1	863.1
52.5°	750.0	769.5	787.2	804.2	821.3	838.4	854.9	874.7	895.4	919.8	944.7
55°	794.9	817.8	837.9	856.8	876.4	895.5	912.5	939.0	964.4	993.5	1026.0
57.5°	830.8	858.8	881.9	904.3	926.4	946.7	967.6	997.6	1030.0	1063.9	1105.2
60°	855.4	891.7	921.2	948.2	975.3	1000.8	1024.9	1064.0	1102.6	1144.8	1196.1
62.5°	878.9	928.3	966.8	1003.5	1040.1	1072.9	1102.8	1152.0	1202.4	1254.5	1315.7
65°	912.0	977.3	1034.0	1085.3	1135.8	1184.1	1228.8	1291.1	1354.7	1423.4	1496.3
67.5°	927.3	1001.3	1075.2	1144.3	1208.5	1269.6	1327.0	1402.3	1477.2	1556.8	1644.9
69°	895.3	968.8	1047.8	1123.3	1194.2	1259.0	1321.2	1398.1	1476.0	1557.2	1646.2
70°	852.2	924.4	1004.1	1083.0	1150.8	1218.3	1282.8	1359.0	1438.0	1519.4	1612.6
72.5°	668.8	731.4	809.1	885.7	953.7	1021.5	1084.1	1162.2	1241.6	1327.2	1415.3
75°	445.8	492.5	550.4	621.4	683.8	743.7	804.4	870.4	947.9	1018.4	1099.1
77.5°	252.5	279.6	313.2	359.4	404.2	440.0	483.3	514.4	559.4	598.2	639.2
80°	130.0	137.3	147.3	158.4	164.7	163.7	170.1	163.8	165.2	160.0	154.4
82.5°	95.5	98.1	102.6	104.8	104.6	97.3	89.5	78.8	69.2	59.3	50.1
85°	64.9	66.6	67.7	69.4	68.9	65.7	58.8	49.4	40.3	32.3	25.8
87.5°	11.3	11.6	11.5	12.4	12.5	11.6	9.5	8.1	6.9	5.1	3.6
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	408.8	408.8	409.0	408.8	408.8	408.8	408.6	408.9	408.8	408.4	408.1
5°	414.1	413.8	413.6	413.8	414.1	413.6	414.0	414.4	413.8	413.9	413.6
7.5°	423.0	422.9	422.8	423.0	423.0	423.0	423.0	422.7	422.4	422.8	423.2
10°	435.0	434.9	435.1	435.1	435.6	435.4	435.2	435.6	435.4	435.1	435.2
12.5°	449.0	448.7	449.3	449.2	449.6	449.6	449.5	449.6	449.5	449.2	448.9
15°	461.6	461.2	461.2	462.2	462.0	462.3	462.3	462.0	462.0	461.8	461.9
17.5°	469.2	468.9	468.9	469.4	469.7	469.6	469.6	469.6	469.4	469.6	469.8
20°	470.6	470.6	470.6	471.1	471.7	471.4	471.4	471.6	471.4	471.6	471.7
22.5°	467.8	468.1	468.3	469.0	469.0	469.0	469.0	469.1	469.4	469.4	469.6
25°	464.2	464.4	464.7	465.2	465.6	465.6	465.6	465.9	465.9	466.0	466.1
27.5°	461.4	461.6	462.0	462.4	463.0	463.0	463.0	463.2	463.2	463.4	463.6
30°	461.7	461.2	461.6	461.8	462.2	462.2	462.0	462.2	462.3	462.2	462.4
32.5°	466.7	465.6	465.3	465.2	465.3	465.0	464.8	464.6	464.4	464.4	464.3
35°	480.0	478.3	478.2	477.2	476.3	475.4	475.5	474.8	475.0	474.4	474.0
37.5°	507.1	505.2	506.4	504.4	503.2	502.2	501.2	499.8	499.0	500.0	500.0
40°	555.8	554.5	554.2	554.4	553.4	553.9	551.4	550.7	549.2	550.2	551.6
42.5°	623.0	622.2	626.6	627.4	627.8	628.6	629.0	625.2	625.1	624.2	622.0
45°	706.0	710.9	710.7	716.0	716.2	714.6	715.3	713.6	712.8	710.3	713.5
47.5°	791.4	800.7	804.2	805.3	809.8	810.8	806.6	805.2	807.6	803.4	804.0
50°	883.0	893.0	901.1	906.6	909.7	909.9	906.8	906.1	908.3	900.4	904.1
52.5°	973.1	988.2	1003.5	1011.6	1017.5	1018.0	1020.4	1017.4	1018.6	1016.8	1020.5
55°	1062.0	1088.1	1106.1	1121.9	1132.1	1140.8	1141.6	1144.8	1144.9	1148.8	1145.0
57.5°	1148.8	1177.2	1208.6	1236.8	1252.5	1262.4	1271.7	1284.4	1287.1	1285.6	1288.0
60°	1251.4	1295.4	1338.0	1370.5	1397.6	1423.4	1437.4	1457.2	1460.4	1469.0	1461.5
62.5°	1380.9	1444.8	1502.6	1546.4	1587.5	1627.8	1658.2	1673.6	1682.8	1700.8	1694.9
65°	1579.8	1656.4	1732.9	1795.6	1853.2	1901.2	1947.4	1969.4	1993.8	2019.4	2024.0
67.5°	1743.4	1838.3	1924.6	2001.0	2070.8	2124.2	2172.2	2210.4	2240.1	2259.0	2260.4
69°	1750.9	1849.4	1943.2	2025.2	2098.0	2154.6	2205.3	2247.8	2276.7	2296.0	2301.1
70°	1715.4	1816.2	1916.2	1999.0	2073.5	2131.4	2185.1	2225.6	2257.9	2277.5	2284.4
72.5°	1515.5	1623.2	1730.0	1802.6	1878.8	1947.8	1990.7	2032.0	2077.5	2083.5	2102.3
75°	1194.6	1285.2	1368.0	1423.6	1487.2	1549.1	1591.2	1602.2	1626.0	1656.0	1645.2
77.5°	692.3	720.2	773.6	787.3	775.7	802.7	811.6	792.6	791.6	809.2	774.3
80°	153.4	144.7	155.6	147.5	147.7	148.0	145.5	144.6	146.3	144.6	142.1
82.5°	42.5	41.2	41.4	40.8	41.7	41.1	40.8	41.7	41.6	41.4	42.3
85°	20.4	20.2	19.8	19.8	19.2	18.7	17.8	17.8	18.2	17.5	17.9
87.5°	2.7	2.6	2.6	3.0	2.7	2.2	2.2	2.2	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

(END OF REPORT)