

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: P181243

Luminaire Tested: **ICM-F02-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181243
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-T2-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3971.5 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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

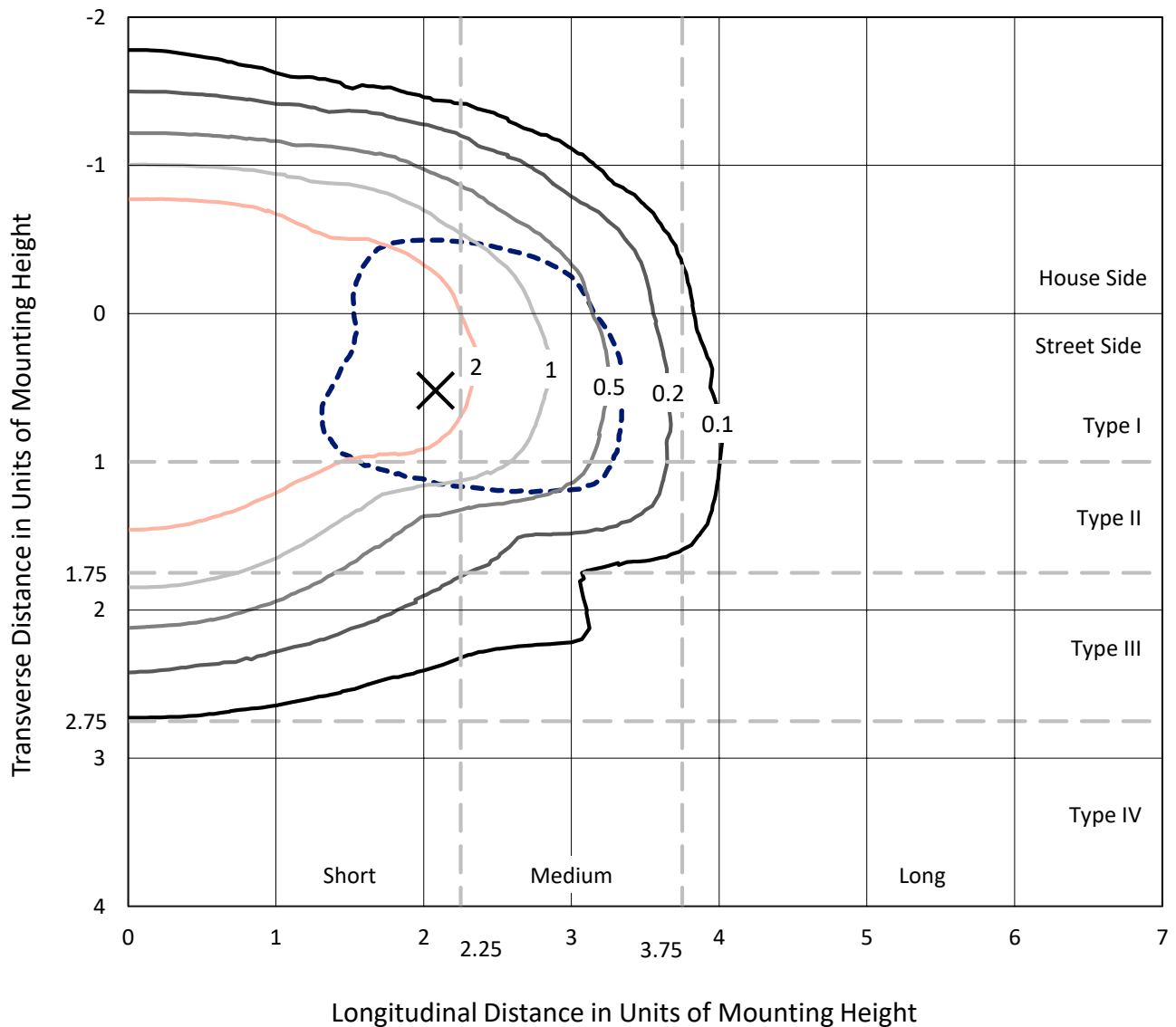


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

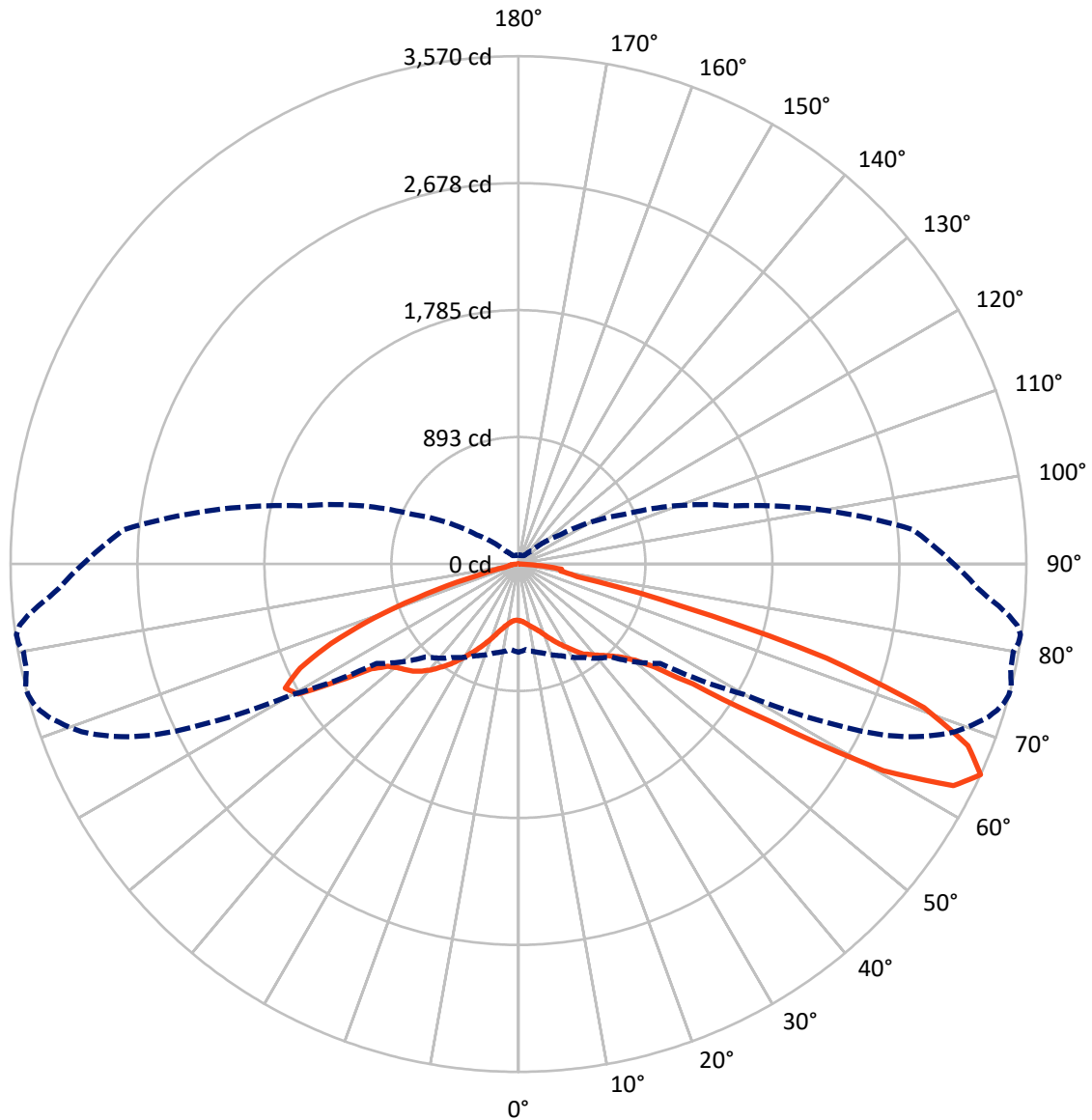


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.7	0.0	1390.7
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	2580.8	0.0	2580.8
	% Fixture	65.0	0.0	65.0
Total	Lumens	3971.5	0.0	3971.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	1.0
10°-20°	136.6	3.4
20°-30°	268.3	6.8
30°-40°	445.8	11.2
40°-50°	655.1	16.5
50°-60°	907.0	22.8
60°-70°	1082.6	27.3
70°-80°	382.9	9.6
80°-90°	53.5	1.3
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°	3971.5	100.0
0°-180°	3971.5	100.0



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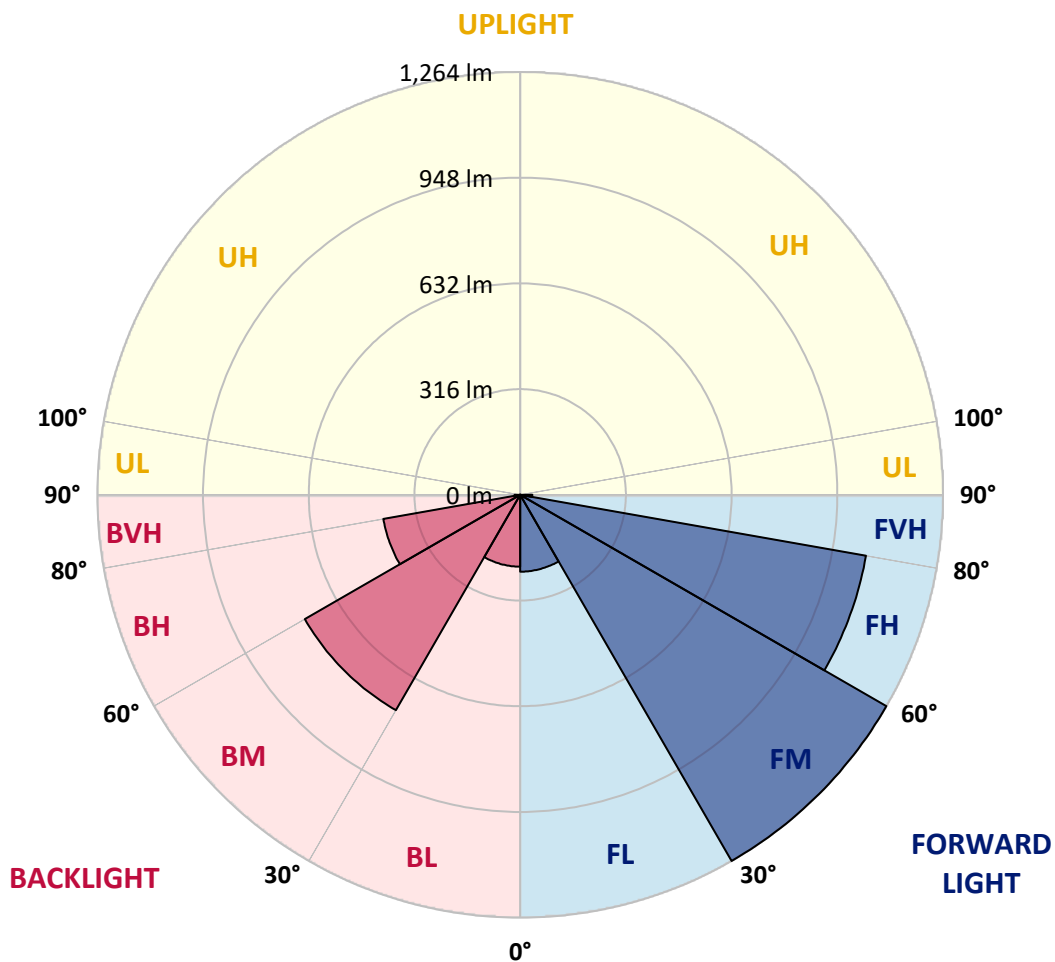
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	229.8	5.8			
FM (30°-60°)	1264.4	31.8			
FH (60°-80°)	1050.0	26.4			G1/1800
FVH (80°-90°)	36.6	0.9			G1/100
BL (0°-30°)	214.9	5.4	B1/500		
BM (30°-60°)	743.5	18.7	B1/1000		
BH (60°-80°)	415.4	10.5	B1/500		G1/500
BVH (80°-90°)	16.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
2.5°	414.3	414.8	414.0	413.5	412.2	410.0	408.3	406.6	406.6	406.6	405.3
5°	432.6	433.4	431.6	430.3	426.5	424.3	421.3	419.2	418.2	417.9	416.6
7.5°	455.4	454.1	451.5	450.7	447.6	442.9	437.3	432.9	432.9	432.6	432.9
10°	478.3	474.9	473.6	472.3	467.5	461.5	455.0	450.2	449.8	449.4	448.1
12.5°	501.2	499.9	498.6	493.9	489.1	479.6	472.3	467.5	467.1	467.5	465.8
15°	531.4	528.5	527.2	519.0	508.6	498.2	489.1	484.8	483.5	483.9	482.6
17.5°	554.8	554.8	551.8	542.7	529.3	515.1	505.6	503.0	502.5	502.5	503.0
20°	573.4	572.9	570.0	562.6	546.6	532.4	527.5	526.7	526.2	526.2	527.5
22.5°	583.7	582.9	581.6	573.4	560.8	551.4	551.8	554.3	555.3	556.1	557.9
25°	588.9	587.6	587.2	581.6	572.5	571.3	579.0	585.9	587.6	589.4	591.5
27.5°	597.6	595.4	596.3	594.1	592.0	595.8	611.8	619.2	620.5	622.6	623.9
30°	621.3	620.5	623.9	624.8	626.5	632.1	646.8	653.8	656.7	656.7	662.8
32.5°	666.7	667.2	668.0	677.1	680.1	684.0	691.7	697.4	697.9	698.2	703.9
35°	727.6	730.2	737.6	745.3	752.7	752.3	747.5	750.5	748.4	751.0	751.4
37.5°	804.6	801.1	811.9	829.6	840.8	837.8	816.7	802.8	806.7	804.9	803.7
40°	863.7	867.6	888.4	911.7	920.4	929.9	902.2	878.4	875.0	868.5	864.6
42.5°	945.4	945.9	962.7	980.0	1005.0	1025.8	1008.1	974.0	963.5	955.8	938.9
45°	1021.0	1019.7	1033.6	1054.7	1084.6	1114.3	1120.8	1083.6	1079.8	1066.0	1043.9
47.5°	1071.5	1069.9	1079.4	1107.0	1155.4	1204.2	1231.0	1219.8	1212.5	1206.8	1172.3
50°	1105.7	1102.2	1113.0	1142.4	1196.5	1271.6	1341.6	1351.2	1348.1	1348.1	1326.1
52.5°	1131.2	1131.2	1139.0	1162.7	1217.6	1311.4	1436.7	1484.7	1488.6	1492.8	1491.5
55°	1116.9	1119.1	1138.5	1173.1	1231.0	1339.1	1515.4	1620.3	1642.0	1660.1	1680.8
57.5°	1068.1	1075.4	1101.4	1158.0	1234.4	1359.8	1602.6	1810.4	1871.4	1924.1	2006.2
60°	996.8	1006.3	1043.9	1116.1	1208.9	1326.1	1633.3	1971.2	2068.0	2182.9	2397.2
62.5°	874.5	884.0	920.7	992.9	1072.5	1196.8	1506.2	1995.0	2149.6	2312.6	2636.6
65°	619.6	604.5	646.8	711.6	802.8	923.4	1217.2	1835.5	2058.1	2278.8	2678.9
67.5°	345.2	343.9	369.9	418.2	505.6	635.2	838.7	1407.7	1612.6	1862.7	2354.0
70°	238.0	240.7	257.1	309.4	381.5	493.4	597.6	884.0	1031.4	1201.2	1684.3
72.5°	167.3	172.8	182.0	213.0	286.9	415.6	610.5	528.5	601.9	717.7	1012.8
75°	98.0	102.0	108.5	123.5	163.3	277.9	632.1	464.5	464.5	491.7	612.7
77.5°	60.5	60.5	64.4	70.4	86.9	136.1	450.2	522.0	507.3	491.7	493.0
80°	31.1	33.3	38.9	42.0	48.4	62.2	202.2	487.0	534.0	565.6	543.5
82.5°	14.2	16.0	23.7	25.5	28.1	32.8	69.6	276.9	371.2	488.7	610.5
85°	7.3	7.3	12.6	15.5	16.8	15.2	25.5	111.9	169.4	258.4	404.5
87.5°	1.3	1.3	2.1	2.6	3.9	3.4	4.3	6.5	10.8	11.6	12.1
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°	71°	72°	73°	74°	75°
0°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
2.5°	404.8	405.3	404.8	404.5	403.5	403.5	403.5	403.2	403.2	403.2	402.7
5°	416.6	414.8	415.3	414.3	414.0	413.5	414.0	413.1	412.2	412.7	412.2
7.5°	431.3	430.3	428.7	428.7	428.2	427.4	427.4	426.0	425.6	424.7	424.3
10°	447.6	445.5	446.3	445.5	446.0	444.2	443.4	442.4	441.6	441.6	442.0
12.5°	464.5	464.1	462.8	461.9	461.9	460.6	461.0	460.6	459.4	458.9	457.6
15°	481.8	481.8	480.5	480.9	480.5	479.6	478.8	478.8	477.9	477.0	477.5
17.5°	502.0	502.0	502.0	502.0	502.5	501.2	501.7	500.7	499.9	501.7	501.7
20°	528.5	530.1	530.1	529.8	531.9	530.6	530.1	532.4	530.1	533.2	532.7
22.5°	558.7	560.4	560.4	562.1	562.6	563.9	564.7	563.9	565.6	567.4	567.4
25°	592.4	594.1	595.4	598.1	599.3	598.4	598.9	601.0	601.9	603.6	605.4
27.5°	627.8	628.3	630.0	633.0	635.2	636.0	636.5	639.9	640.4	641.2	643.0
30°	662.4	666.7	665.9	669.8	671.1	672.3	674.9	676.2	679.3	680.9	680.9
32.5°	703.0	702.1	705.6	708.7	710.8	712.9	715.1	716.8	718.5	719.4	723.7
35°	753.6	755.3	755.3	755.7	760.9	761.3	763.1	767.0	768.3	770.9	772.6
37.5°	803.7	800.7	800.2	800.2	798.5	799.8	800.2	800.7	802.4	802.8	804.6
40°	859.8	856.0	852.5	850.3	846.9	842.1	841.3	839.1	840.4	840.0	840.4
42.5°	936.7	926.0	917.8	911.7	904.7	899.6	895.7	890.1	886.2	881.5	880.6
45°	1034.9	1014.5	1000.8	990.8	980.8	966.6	958.3	949.7	942.0	934.1	927.7
47.5°	1163.6	1142.0	1120.0	1101.9	1086.2	1063.4	1040.0	1027.1	1011.9	998.5	989.0
50°	1315.3	1289.3	1279.0	1253.5	1234.1	1199.4	1170.5	1149.3	1119.1	1098.8	1081.1
52.5°	1470.4	1463.9	1458.3	1436.7	1413.8	1393.9	1368.4	1331.3	1300.6	1277.2	1240.9
55°	1681.7	1684.7	1682.5	1670.9	1662.7	1643.6	1633.3	1600.8	1587.1	1553.3	1515.4
57.5°	2037.3	2061.5	2092.2	2104.3	2120.7	2105.1	2123.3	2145.3	2090.4	2109.4	2075.3
60°	2491.5	2602.4	2668.6	2749.8	2802.9	2877.2	2890.6	2910.1	2904.5	2915.3	2937.3
62.5°	2768.9	2900.6	3027.2	3119.3	3217.8	3272.2	3337.9	3383.6	3431.2	3463.2	3454.1
65°	2850.4	2986.2	3101.0	3201.8	3289.9	3356.5	3417.4	3474.8	3518.4	3549.1	3567.3
67.5°	2550.6	2727.7	2848.8	2966.7	3080.4	3150.3	3201.3	3257.0	3321.0	3374.2	3384.6
70°	1919.4	2185.0	2356.6	2497.9	2631.4	2725.6	2796.9	2848.8	2898.4	2936.5	2978.0
72.5°	1200.4	1432.8	1628.9	1812.2	1953.9	2083.5	2143.5	2258.5	2243.4	2272.4	2303.5
75°	719.4	832.7	940.7	1069.9	1144.2	1252.2	1271.6	1290.6	1280.7	1248.3	1272.5
77.5°	499.9	518.5	517.7	510.3	502.5	483.5	458.9	445.5	436.4	423.4	428.7
80°	503.0	462.8	401.4	337.5	278.7	239.8	224.3	224.3	240.3	263.2	286.0
82.5°	601.0	558.2	497.8	416.6	330.1	268.7	227.7	211.3	214.3	237.7	267.1
85°	405.3	414.8	363.8	332.7	263.5	205.2	172.0	139.5	123.5	127.4	144.3
87.5°	14.7	17.7	6.5	8.7	6.0	5.2	5.2	5.6	3.9	4.7	4.3
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
2.5°	402.2	401.9	401.9	400.9	400.9	400.6	400.6	400.1	399.7	399.7	399.3
5°	411.8	411.4	410.5	410.0	409.2	409.2	408.7	407.9	407.9	407.0	406.6
7.5°	425.2	424.3	423.4	423.0	422.6	421.3	421.3	420.4	420.4	419.5	419.2
10°	441.1	440.3	439.4	439.9	438.6	438.1	437.3	437.3	436.0	435.5	435.5
12.5°	458.4	458.0	458.0	456.7	456.3	455.8	454.1	454.1	454.1	453.3	453.7
15°	477.0	477.5	476.2	477.5	477.0	475.7	475.7	475.7	474.0	476.2	474.4
17.5°	502.0	503.4	502.5	503.0	502.0	502.0	502.5	502.0	503.0	503.0	505.6
20°	533.2	533.6	535.8	534.9	534.9	534.5	535.4	535.8	537.5	536.7	538.4
22.5°	567.4	569.5	570.0	571.6	571.6	571.3	572.1	573.8	574.7	576.0	575.5
25°	606.2	607.5	609.2	607.1	610.5	610.5	611.4	613.6	614.0	614.0	617.0
27.5°	642.5	646.0	646.4	648.6	647.3	648.1	651.2	652.5	654.1	654.1	655.1
30°	683.5	684.8	685.7	688.3	687.9	688.3	688.7	690.9	690.9	693.0	695.3
32.5°	725.9	726.8	727.6	730.2	731.1	732.8	731.9	733.7	735.8	736.3	737.6
35°	776.5	777.3	778.1	782.1	782.5	785.5	786.4	785.5	789.0	786.8	789.0
37.5°	805.9	809.8	810.6	813.2	812.3	814.5	815.8	817.5	818.3	820.1	823.5
40°	841.7	843.0	845.6	846.9	848.7	849.0	850.8	852.1	853.4	857.2	861.1
42.5°	878.4	880.2	881.5	883.2	885.3	887.1	888.4	892.3	893.1	895.7	903.1
45°	923.0	922.1	922.5	923.0	923.8	926.0	929.9	933.8	936.4	942.4	948.5
47.5°	978.2	972.7	970.4	967.0	967.9	972.7	973.5	980.0	985.1	990.8	998.1
50°	1062.1	1047.0	1037.9	1028.8	1027.9	1030.5	1034.0	1040.9	1047.0	1054.3	1064.7
52.5°	1202.9	1174.0	1155.8	1130.8	1123.8	1122.5	1120.0	1123.8	1125.6	1135.5	1155.0
55°	1488.1	1434.5	1399.9	1361.0	1324.8	1314.0	1293.2	1297.6	1293.2	1299.3	1328.2
57.5°	2083.5	2040.8	2007.1	1957.3	1895.2	1829.0	1812.6	1744.8	1758.2	1797.0	1772.0
60°	2948.1	2932.6	2908.4	2884.6	2799.5	2751.6	2673.3	2664.7	2609.8	2610.2	2574.3
62.5°	3432.0	3451.9	3437.2	3430.3	3425.6	3410.4	3371.6	3325.0	3254.9	3204.4	3130.1
65°	3570.3	3553.5	3537.5	3535.4	3534.1	3558.6	3564.3	3531.5	3467.9	3389.3	3303.7
67.5°	3409.1	3399.6	3400.5	3382.3	3393.6	3436.4	3466.2	3457.1	3398.8	3303.7	3194.8
70°	3025.5	3006.9	3025.9	3049.7	3066.5	3091.2	3120.9	3128.3	3075.2	2977.5	2866.4
72.5°	2265.4	2268.5	2286.6	2293.1	2360.9	2354.0	2380.8	2293.5	2255.1	2162.2	2105.1
75°	1192.1	1172.7	1223.3	1116.1	1072.0	1102.7	1016.7	934.1	951.4	965.7	862.9
77.5°	421.3	394.0	347.8	329.2	274.0	232.0	189.7	171.1	161.2	156.0	149.5
80°	302.4	311.1	301.6	279.2	237.2	190.1	150.0	118.4	101.6	92.5	86.4
82.5°	306.0	340.1	355.2	348.7	310.7	235.1	155.2	99.0	73.5	61.4	57.0
85°	164.2	179.7	172.8	145.6	130.9	78.2	53.6	35.9	30.2	27.6	25.5
87.5°	6.5	5.2	4.3	4.3	4.7	5.2	4.3	4.7	4.3	4.3	4.3
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1
2.5°	398.4	398.4	398.4	398.0	397.1	394.9	392.7	391.1	389.8	388.5	386.7
5°	406.1	405.3	405.3	405.3	401.9	398.4	395.4	392.4	389.8	387.5	385.9
7.5°	419.2	418.7	416.9	416.6	414.0	408.3	404.8	399.7	396.7	393.7	392.7
10°	434.7	434.2	433.8	433.4	430.0	424.3	420.0	415.3	410.9	406.6	402.2
12.5°	452.8	452.4	452.0	450.7	449.4	446.3	441.6	436.4	431.3	422.1	417.4
15°	475.3	476.2	475.3	474.9	474.0	474.4	471.4	464.1	455.8	444.2	434.2
17.5°	505.1	504.3	503.8	505.6	505.1	507.3	506.4	496.9	484.4	465.8	448.5
20°	538.0	538.0	539.6	540.9	544.8	550.5	547.9	536.2	513.3	487.4	464.9
22.5°	577.3	578.1	579.8	579.0	585.0	594.1	595.0	578.6	548.7	512.9	481.3
25°	618.3	619.2	617.5	620.0	630.0	643.0	645.5	622.2	582.9	536.2	495.2
27.5°	657.2	658.1	658.1	661.5	671.1	693.0	695.6	669.8	617.5	556.6	505.1
30°	695.3	698.7	699.5	700.4	714.7	745.3	751.0	713.4	647.7	571.6	512.0
32.5°	743.2	744.5	746.2	748.4	764.7	802.4	802.4	751.0	667.2	581.1	513.3
35°	794.6	795.1	798.9	799.4	822.7	860.3	852.9	782.1	680.9	579.0	503.8
37.5°	825.7	827.4	831.4	836.6	861.1	914.3	897.4	808.8	683.5	564.7	482.2
40°	864.2	867.6	871.5	876.7	913.4	969.2	935.1	825.7	672.7	536.7	449.8
42.5°	905.7	910.4	916.5	926.0	969.6	1017.6	963.5	828.3	648.1	505.1	411.4
45°	952.3	960.9	967.9	979.1	1028.4	1059.4	980.8	813.2	617.0	463.6	370.3
47.5°	1006.3	1013.2	1025.3	1037.4	1086.7	1088.0	982.6	783.8	574.7	422.1	326.7
50°	1072.8	1077.2	1095.4	1102.7	1148.9	1117.8	970.1	744.1	530.1	375.4	278.2
52.5°	1161.5	1167.5	1190.8	1202.1	1234.9	1158.4	952.3	700.8	479.2	323.2	228.6
55°	1336.5	1362.8	1379.3	1398.7	1419.8	1250.4	944.6	654.6	421.7	262.7	181.0
57.5°	1827.7	1819.1	1855.4	1899.5	1899.0	1460.8	991.2	614.9	353.9	200.9	139.2
60°	2559.6	2567.9	2549.3	2575.6	2491.8	1721.9	1055.2	572.9	277.4	149.5	106.3
62.5°	3103.6	3056.1	3029.8	2998.7	2814.2	1750.4	1008.5	487.0	201.8	105.0	81.7
65°	3232.5	3176.7	3120.1	3060.9	2782.6	1578.0	827.4	357.3	130.5	72.2	64.8
67.5°	3105.4	3015.9	2943.8	2882.9	2549.8	1307.9	604.9	219.5	74.8	58.3	55.3
70°	2776.2	2677.2	2560.6	2492.3	2147.1	964.0	387.5	118.4	57.5	51.8	50.5
72.5°	2032.1	1950.9	1823.4	1745.2	1541.7	585.9	216.5	66.5	53.6	49.7	48.0
75°	791.5	749.2	696.1	700.4	625.2	259.3	98.0	57.5	52.3	48.8	47.1
77.5°	136.1	132.7	122.7	122.7	139.5	94.6	65.2	57.9	51.8	48.0	44.9
80°	81.7	79.9	76.1	75.2	72.6	66.5	62.7	58.8	51.0	45.4	41.5
82.5°	53.6	51.4	50.1	49.7	54.0	58.3	58.8	58.3	48.4	39.3	33.7
85°	22.9	22.9	22.9	23.3	31.1	47.1	48.4	51.8	39.7	30.7	24.2
87.5°	3.9	4.7	4.7	5.2	5.6	10.3	12.9	16.8	13.4	12.9	11.6
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):

	165°	175°	180°
0°	397.1	397.1	397.1
2.5°	386.3	385.4	385.4
5°	385.0	384.1	384.6
7.5°	390.1	388.5	388.8
10°	399.7	398.0	397.1
12.5°	411.8	409.6	409.6
15°	424.3	419.2	418.7
17.5°	434.7	428.2	427.4
20°	446.3	437.7	436.4
22.5°	457.1	445.5	443.7
25°	464.9	450.7	448.5
27.5°	468.4	451.5	449.8
30°	471.0	452.0	449.4
32.5°	468.4	448.1	446.0
35°	454.1	432.1	430.8
37.5°	429.5	404.8	403.2
40°	397.1	371.2	366.9
42.5°	355.6	331.4	326.7
45°	315.4	287.8	285.6
47.5°	272.2	245.9	247.2
50°	226.9	203.1	202.6
52.5°	183.6	162.9	161.6
55°	144.7	130.0	128.7
57.5°	114.5	106.7	105.4
60°	93.3	89.4	88.2
62.5°	75.2	73.9	73.5
65°	62.7	62.7	62.7
67.5°	54.4	54.9	54.9
70°	50.1	50.5	50.1
72.5°	48.4	49.7	49.7
75°	47.1	48.0	46.2
77.5°	46.2	46.7	43.6
80°	45.8	45.4	39.7
82.5°	39.7	38.4	33.7
85°	36.3	27.6	23.3
87.5°	18.6	12.9	10.0
90°	0.0	0.0	0.0

(END OF REPORT)