

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: P181240

Luminaire Tested: **ICM-E02-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181240
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-E02-LED-E1-T2-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4810.9 lumens
Efficiency: N/A
Efficacy: 92.3 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: B2 - U0 - G2

Input Watts (W): 52.1
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

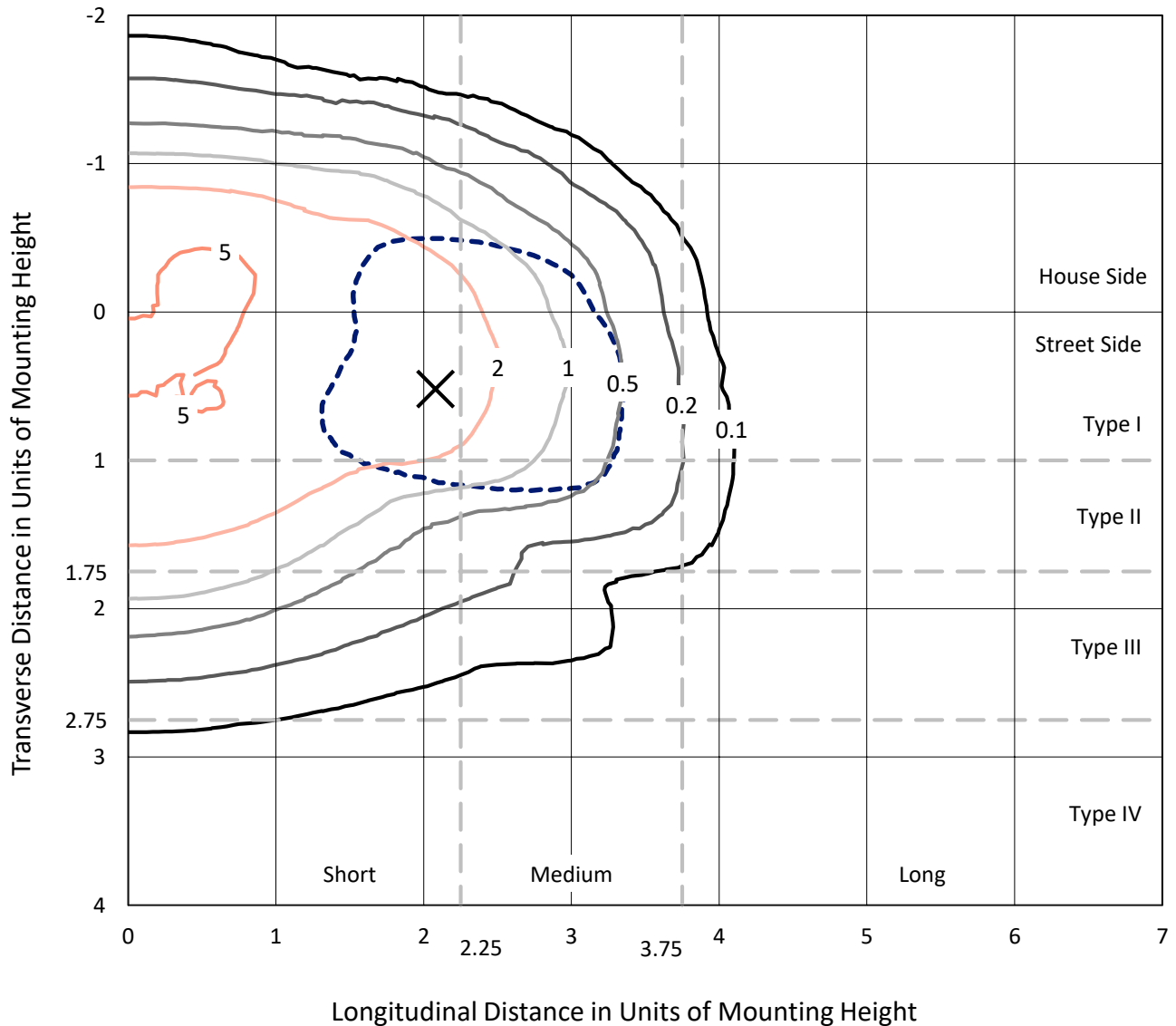


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Iso-Footcandle Lines of Horizontal Illumination

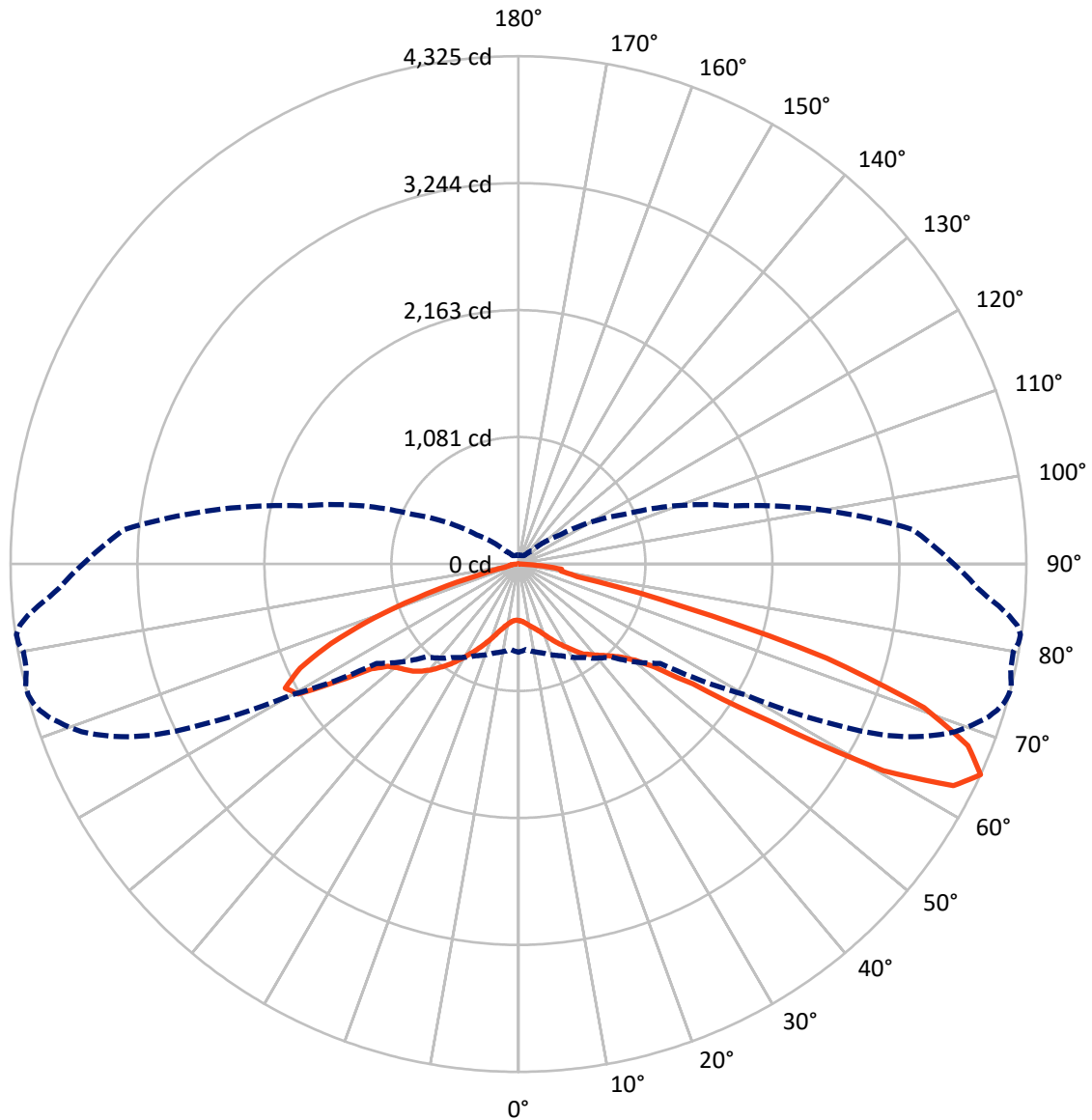
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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	1684.7	0.0	1684.7
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	3126.3	0.0	3126.3
	% Fixture	65.0	0.0	65.0
Total	Lumens	4810.9	0.0	4810.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.0
10°-20°	165.4	3.4
20°-30°	325.0	6.8
30°-40°	540.1	11.2
40°-50°	793.6	16.5
50°-60°	1098.7	22.8
60°-70°	1311.4	27.3
70°-80°	463.8	9.6
80°-90°	64.8	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°	4810.9	100.0
0°-180°	4810.9	100.0

Coefficient of Utilization



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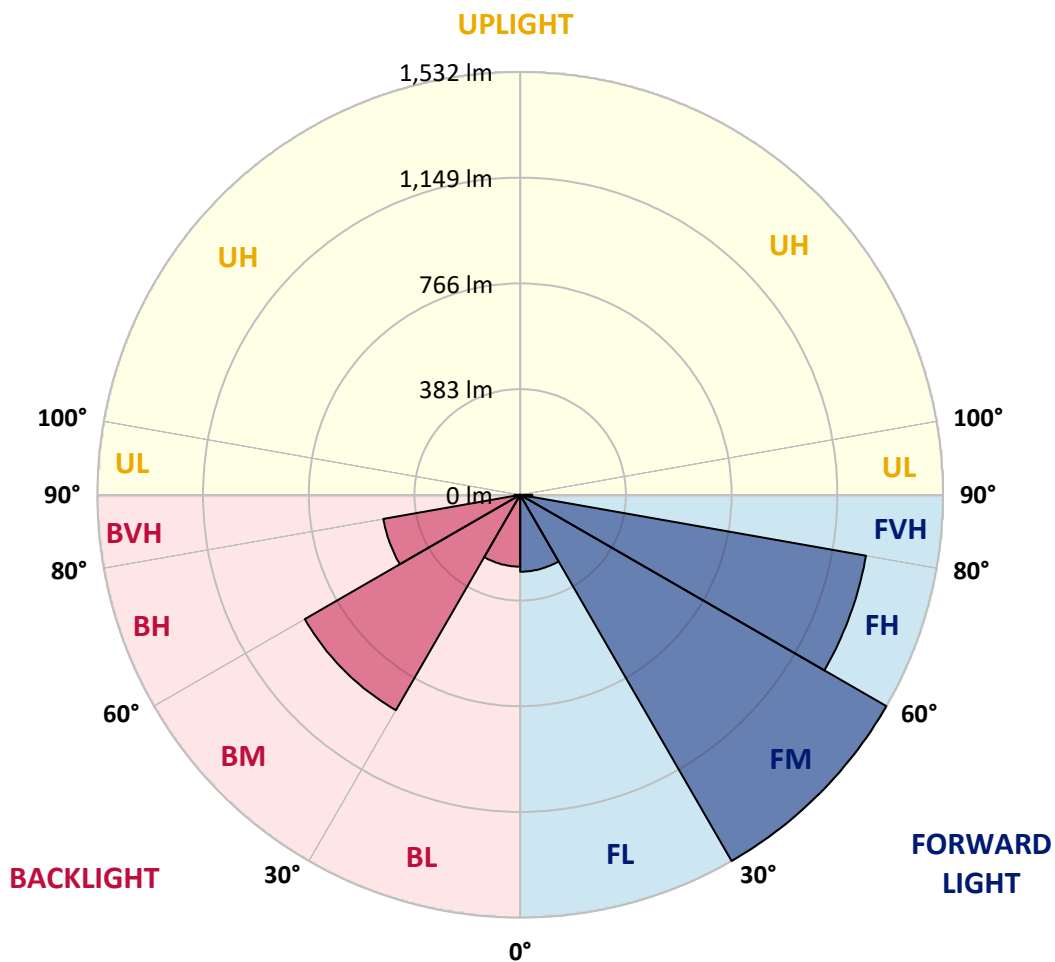
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.4	5.8			
FM	(30°-60°)	1531.7	31.8			
FH	(60°-80°)	1272.0	26.4			G1/1800
FVH	(80°-90°)	44.3	0.9			G1/100
BL	(0°-30°)	260.3	5.4	B1/500		
BM	(30°-60°)	900.7	18.7	B1/1000		
BH	(60°-80°)	503.2	10.5	B2/1000		G2/1000
BVH	(80°-90°)	20.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
2.5°	502.0	502.5	501.4	500.9	499.4	496.7	494.6	492.6	492.6	492.6	491.0
5°	523.9	524.9	522.9	521.3	516.6	514.0	510.3	507.7	506.7	506.1	504.6
7.5°	551.6	550.1	547.0	546.0	542.2	536.5	529.7	524.5	524.5	523.9	524.5
10°	579.4	575.3	573.7	572.1	566.3	559.0	551.2	545.4	544.8	544.4	542.8
12.5°	607.2	605.6	604.0	598.2	592.5	581.0	572.1	566.3	565.8	566.3	564.2
15°	643.8	640.1	638.5	628.7	616.1	603.4	592.5	587.3	585.7	586.2	584.7
17.5°	672.1	672.1	668.4	657.4	641.2	623.9	612.4	609.2	608.7	608.7	609.2
20°	694.6	694.1	690.3	681.5	662.1	644.8	639.1	638.1	637.5	637.5	639.1
22.5°	707.2	706.1	704.5	694.6	679.4	667.9	668.4	671.5	672.6	673.6	675.7
25°	713.4	711.8	711.4	704.5	693.5	691.9	701.4	709.8	711.8	714.0	716.6
27.5°	723.9	721.2	722.3	719.7	717.0	721.8	741.1	750.1	751.6	754.2	755.8
30°	752.7	751.6	755.8	756.8	759.0	765.8	783.5	791.9	795.5	795.5	802.9
32.5°	807.6	808.1	809.2	820.2	823.8	828.6	838.0	844.7	845.3	845.9	852.7
35°	881.4	884.6	893.5	902.9	911.8	911.3	905.5	909.1	906.5	909.7	910.2
37.5°	974.6	970.4	983.4	1004.9	1018.5	1014.9	989.2	972.5	977.2	975.1	973.5
40°	1046.3	1051.0	1076.1	1104.4	1114.9	1126.3	1092.8	1064.1	1059.9	1052.0	1047.4
42.5°	1145.2	1145.8	1166.1	1187.1	1217.4	1242.6	1221.1	1179.7	1167.2	1157.8	1137.4
45°	1236.8	1235.3	1252.0	1277.7	1313.8	1349.9	1357.7	1312.8	1308.0	1291.3	1264.6
47.5°	1298.1	1295.9	1307.4	1340.9	1399.6	1458.7	1491.2	1477.6	1468.7	1461.9	1420.0
50°	1339.4	1335.2	1348.3	1383.9	1449.3	1540.4	1625.2	1636.7	1633.0	1633.0	1606.3
52.5°	1370.2	1370.2	1379.7	1408.5	1475.0	1588.6	1740.3	1798.4	1803.2	1808.4	1806.8
55°	1353.0	1355.6	1379.2	1421.0	1491.2	1622.1	1835.6	1962.8	1988.9	2010.9	2036.0
57.5°	1293.9	1302.8	1334.1	1402.7	1495.4	1647.2	1941.3	2193.0	2266.9	2330.7	2430.2
60°	1207.5	1219.0	1264.6	1352.0	1464.5	1606.3	1978.5	2387.8	2505.0	2644.3	2903.8
62.5°	1059.4	1070.9	1115.4	1202.8	1299.1	1449.9	1824.6	2416.6	2603.9	2801.3	3193.9
65°	750.6	732.3	783.5	862.1	972.5	1118.5	1474.4	2223.5	2493.0	2760.5	3245.1
67.5°	418.2	416.7	448.0	506.7	612.4	769.4	1015.9	1705.2	1953.3	2256.4	2851.6
70°	288.4	291.5	311.4	374.8	462.1	597.8	723.9	1070.9	1249.4	1455.1	2040.3
72.5°	202.5	209.4	220.4	258.0	347.5	503.5	739.5	640.1	729.1	869.4	1226.9
75°	118.8	123.5	131.3	149.7	197.9	336.6	765.8	562.7	562.7	595.6	742.2
77.5°	73.3	73.3	78.0	85.3	105.2	164.8	545.4	632.3	614.5	595.6	597.2
80°	37.7	40.3	47.1	50.8	58.6	75.3	244.9	589.9	646.9	685.1	658.4
82.5°	17.3	19.3	28.7	30.9	34.0	39.8	84.3	335.5	449.6	592.0	739.5
85°	8.9	8.9	15.2	18.9	20.4	18.3	30.9	135.5	205.2	313.0	490.0
87.5°	1.6	1.6	2.6	3.2	4.7	4.2	5.2	7.8	13.1	14.1	14.7
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°	71°	72°	73°	74°	75°
0°	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
2.5°	490.4	491.0	490.4	490.0	488.8	488.8	488.8	488.4	488.4	488.4	487.8
5°	504.6	502.5	503.0	502.0	501.4	500.9	501.4	500.4	499.4	499.8	499.4
7.5°	522.3	521.3	519.3	519.3	518.7	517.7	517.7	516.1	515.5	514.5	514.0
10°	542.2	539.6	540.7	539.6	540.2	538.0	537.0	536.0	534.9	534.9	535.4
12.5°	562.7	562.1	560.6	559.5	559.5	558.0	558.5	558.0	556.4	555.8	554.3
15°	583.6	583.6	582.1	582.5	582.1	581.0	579.9	579.9	578.9	577.9	578.3
17.5°	608.2	608.2	608.2	608.2	608.7	607.2	607.6	606.6	605.6	607.6	607.6
20°	640.1	642.2	642.2	641.7	644.3	642.7	642.2	644.8	642.2	645.9	645.4
22.5°	676.7	678.9	678.9	680.9	681.5	683.1	684.1	683.1	685.1	687.3	687.3
25°	717.6	719.7	721.2	724.4	726.0	724.9	725.4	728.1	729.1	731.2	733.3
27.5°	760.5	761.0	763.2	766.8	769.4	770.4	771.0	775.2	775.7	776.7	778.8
30°	802.4	807.6	806.6	811.3	812.8	814.4	817.6	819.2	822.8	824.9	824.9
32.5°	851.5	850.5	854.7	858.4	861.0	863.6	866.2	868.4	870.4	871.4	876.7
35°	912.8	914.9	914.9	915.4	921.7	922.2	924.4	929.0	930.6	933.8	935.8
37.5°	973.5	969.9	969.3	969.3	967.3	968.8	969.3	969.9	972.0	972.5	974.6
40°	1041.6	1036.8	1032.7	1030.1	1025.9	1020.1	1019.1	1016.5	1018.1	1017.5	1018.1
42.5°	1134.7	1121.7	1111.7	1104.4	1096.0	1089.8	1085.0	1078.2	1073.5	1067.7	1066.7
45°	1253.6	1228.9	1212.2	1200.2	1188.1	1170.9	1160.9	1150.4	1141.0	1131.6	1123.7
47.5°	1409.5	1383.4	1356.7	1334.7	1315.8	1288.1	1259.8	1244.1	1225.9	1209.6	1198.1
50°	1593.2	1561.9	1549.3	1518.4	1494.9	1452.9	1417.9	1392.3	1355.6	1331.0	1309.6
52.5°	1781.1	1773.3	1766.5	1740.3	1712.6	1688.5	1657.6	1612.7	1575.5	1547.2	1503.3
55°	2037.1	2040.8	2038.2	2024.0	2014.1	1991.1	1978.5	1939.3	1922.5	1881.7	1835.6
57.5°	2467.8	2497.2	2534.3	2549.0	2568.9	2550.1	2572.0	2598.7	2532.3	2555.3	2514.0
60°	3018.0	3152.5	3232.6	3331.0	3395.4	3485.4	3501.6	3525.1	3518.3	3531.5	3558.2
62.5°	3354.0	3513.6	3667.0	3778.4	3897.8	3963.7	4043.4	4098.8	4156.4	4195.1	4184.1
65°	3453.0	3617.2	3756.5	3878.4	3985.2	4065.8	4139.7	4209.2	4262.1	4299.3	4321.2
67.5°	3089.7	3304.3	3450.8	3593.7	3731.4	3816.2	3878.0	3945.4	4022.9	4087.3	4099.8
70°	2324.9	2646.9	2854.7	3025.8	3187.6	3301.7	3388.0	3450.8	3511.0	3557.0	3607.4
72.5°	1454.1	1735.6	1973.2	2195.2	2366.9	2523.8	2596.7	2735.8	2717.5	2752.6	2790.2
75°	871.4	1008.6	1139.4	1295.9	1386.0	1516.8	1540.4	1563.5	1551.4	1512.1	1541.4
77.5°	605.6	628.1	627.1	618.1	608.7	585.7	555.8	539.6	528.7	512.9	519.3
80°	609.2	560.6	486.2	408.7	337.6	290.5	271.6	271.6	291.0	318.8	346.5
82.5°	728.1	676.3	603.0	504.6	399.9	325.6	275.8	255.9	259.6	287.9	323.4
85°	491.0	502.5	440.7	403.0	319.3	248.7	208.3	169.0	149.7	154.4	174.8
87.5°	17.8	21.5	7.8	10.5	7.3	6.3	6.3	6.8	4.7	5.8	5.2
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°	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
2.5°	487.3	486.8	486.8	485.7	485.7	485.2	485.2	484.7	484.2	484.2	483.6
5°	498.8	498.3	497.2	496.7	495.6	495.6	495.2	494.1	494.1	493.0	492.6
7.5°	515.1	514.0	512.9	512.4	511.9	510.3	510.3	509.3	509.3	508.2	507.7
10°	534.4	533.4	532.3	532.8	531.3	530.7	529.7	529.7	528.1	527.6	527.6
12.5°	555.4	554.8	554.8	553.2	552.7	552.2	550.1	550.1	550.1	549.0	549.6
15°	577.9	578.3	576.8	578.3	577.9	576.3	576.3	576.3	574.1	576.8	574.7
17.5°	608.2	609.8	608.7	609.2	608.2	608.2	608.7	608.2	609.2	609.2	612.4
20°	645.9	646.4	649.0	648.0	648.0	647.4	648.5	649.0	651.1	650.1	652.2
22.5°	687.3	689.9	690.3	692.5	692.5	691.9	693.0	695.1	696.1	697.7	697.2
25°	734.3	735.9	738.1	735.4	739.5	739.5	740.7	743.3	743.7	743.7	747.4
27.5°	778.3	782.5	783.0	785.7	784.1	785.1	788.7	790.3	792.5	792.5	793.5
30°	828.0	829.6	830.6	833.8	833.3	833.8	834.3	836.9	836.9	839.5	842.1
32.5°	879.4	880.4	881.4	884.6	885.6	887.7	886.6	888.7	891.4	891.9	893.5
35°	940.6	941.6	942.7	947.4	947.9	951.5	952.6	951.5	955.7	953.1	955.7
37.5°	976.2	980.8	982.0	985.0	984.0	986.6	988.2	990.3	991.4	993.4	997.6
40°	1019.6	1021.2	1024.3	1025.9	1028.0	1028.5	1030.6	1032.2	1033.8	1038.4	1043.2
42.5°	1064.1	1066.1	1067.7	1069.9	1072.5	1074.5	1076.1	1080.8	1081.9	1085.0	1094.0
45°	1118.0	1116.9	1117.5	1118.0	1119.1	1121.7	1126.3	1131.1	1134.2	1141.6	1148.8
47.5°	1185.0	1178.1	1175.5	1171.4	1172.5	1178.1	1179.3	1187.1	1193.4	1200.2	1209.0
50°	1286.5	1268.2	1257.2	1246.2	1245.2	1248.3	1252.5	1260.8	1268.2	1277.1	1289.7
52.5°	1457.1	1422.1	1400.1	1369.8	1361.4	1359.8	1356.7	1361.4	1363.5	1375.5	1399.1
55°	1802.6	1737.7	1695.8	1648.8	1604.8	1591.7	1566.5	1571.8	1566.5	1573.9	1608.9
57.5°	2523.8	2472.0	2431.3	2371.1	2295.6	2215.5	2195.7	2113.5	2129.8	2176.9	2146.5
60°	3571.2	3552.4	3523.1	3494.3	3391.2	3333.0	3238.3	3227.8	3161.4	3161.9	3118.4
62.5°	4157.4	4181.5	4163.7	4155.4	4149.6	4131.3	4084.1	4027.7	3942.8	3881.6	3791.6
65°	4325.0	4304.5	4285.1	4282.5	4281.0	4310.8	4317.6	4277.8	4200.9	4105.6	4002.0
67.5°	4129.7	4118.2	4119.2	4097.2	4110.8	4162.6	4198.8	4187.7	4117.1	4002.0	3870.1
70°	3664.9	3642.4	3665.4	3694.3	3714.6	3744.5	3780.6	3789.5	3725.1	3606.8	3472.3
72.5°	2744.2	2747.9	2769.9	2777.7	2859.9	2851.6	2884.0	2778.2	2731.6	2619.2	2550.1
75°	1444.1	1420.6	1481.8	1352.0	1298.6	1335.7	1231.5	1131.6	1152.6	1169.8	1045.2
77.5°	510.3	477.3	421.3	398.8	331.8	281.0	229.8	207.3	195.3	188.9	181.1
80°	366.4	376.8	365.3	338.1	287.4	230.3	181.6	143.4	123.0	112.0	104.7
82.5°	370.6	411.9	430.2	422.4	376.4	284.7	187.9	119.8	89.0	74.3	69.1
85°	198.9	217.8	209.4	176.4	158.6	94.7	64.9	43.4	36.7	33.5	30.9
87.5°	7.8	6.3	5.2	5.2	5.8	6.3	5.2	5.8	5.2	5.2	5.2
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°	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0	481.0
2.5°	482.6	482.6	482.6	482.0	481.0	478.4	475.8	473.7	472.1	470.5	468.5
5°	492.0	491.0	491.0	491.0	486.8	482.6	478.9	475.3	472.1	469.5	467.4
7.5°	507.7	507.2	505.1	504.6	501.4	494.6	490.4	484.2	480.5	476.8	475.8
10°	526.5	526.0	525.5	524.9	520.7	514.0	508.7	503.0	497.8	492.6	487.3
12.5°	548.6	548.0	547.4	546.0	544.4	540.7	534.9	528.7	522.3	511.4	505.6
15°	575.7	576.8	575.7	575.3	574.1	574.7	571.1	562.1	552.2	538.0	526.0
17.5°	611.9	610.8	610.3	612.4	611.9	614.5	613.4	602.0	586.7	564.2	543.3
20°	651.6	651.6	653.8	655.4	660.0	666.8	663.7	649.6	621.8	590.4	563.2
22.5°	699.3	700.3	702.4	701.4	708.7	719.7	720.7	700.8	664.7	621.3	583.1
25°	749.0	750.1	747.9	751.1	763.2	778.8	782.0	753.7	706.1	649.6	599.8
27.5°	796.1	797.1	797.1	801.3	812.8	839.5	842.7	811.3	747.9	674.1	611.9
30°	842.1	846.3	847.4	848.5	865.7	902.9	909.7	864.2	784.6	692.5	620.3
32.5°	900.3	901.9	903.9	906.5	926.4	972.0	972.0	909.7	808.1	704.0	621.8
35°	962.5	963.1	967.8	968.3	996.6	1042.1	1033.2	947.4	824.9	701.4	610.3
37.5°	1000.2	1002.3	1007.1	1013.3	1043.2	1107.5	1087.1	979.8	828.0	684.1	584.1
40°	1046.8	1051.0	1055.7	1062.0	1106.5	1174.0	1132.7	1000.2	815.0	650.1	544.8
42.5°	1097.0	1102.8	1110.1	1121.7	1174.5	1232.7	1167.2	1003.4	785.1	611.9	498.3
45°	1153.6	1164.1	1172.5	1186.1	1245.7	1283.4	1188.1	985.0	747.4	561.6	448.6
47.5°	1219.0	1227.4	1242.1	1256.7	1316.4	1318.0	1190.2	949.5	696.1	511.4	395.7
50°	1299.6	1304.8	1326.8	1335.7	1391.7	1354.1	1175.1	901.3	642.2	454.9	337.1
52.5°	1406.9	1414.2	1442.5	1456.1	1495.9	1403.3	1153.6	848.9	580.5	391.5	276.8
55°	1618.9	1650.8	1670.7	1694.2	1719.9	1514.7	1144.2	792.9	510.9	318.2	219.4
57.5°	2214.1	2203.5	2247.5	2300.9	2300.4	1769.7	1200.7	744.8	428.7	243.4	168.6
60°	3100.7	3110.6	3088.1	3120.0	3018.5	2085.8	1278.1	694.1	336.0	181.1	128.7
62.5°	3759.7	3702.1	3670.2	3632.5	3409.0	2120.3	1221.6	589.9	244.5	127.2	98.9
65°	3915.7	3848.1	3779.6	3707.8	3370.7	1911.5	1002.3	432.8	158.0	87.4	78.5
67.5°	3761.7	3653.4	3566.0	3492.2	3088.7	1584.4	732.7	265.9	90.5	70.7	67.0
70°	3362.9	3243.0	3101.7	3019.0	2600.9	1167.7	469.5	143.4	69.6	62.8	61.2
72.5°	2461.6	2363.2	2208.8	2114.1	1867.5	709.8	262.2	80.6	64.9	60.2	58.1
75°	958.9	907.6	843.2	848.5	757.4	314.0	118.8	69.6	63.3	59.2	57.0
77.5°	164.8	160.7	148.7	148.7	169.0	114.6	79.1	70.1	62.8	58.1	54.4
80°	98.9	96.8	92.1	91.1	87.9	80.6	75.9	71.2	61.8	55.0	50.2
82.5°	64.9	62.3	60.7	60.2	65.4	70.7	71.2	70.7	58.6	47.6	40.8
85°	27.7	27.7	27.7	28.3	37.7	57.0	58.6	62.8	48.2	37.1	29.3
87.5°	4.7	5.8	5.8	6.3	6.8	12.6	15.7	20.4	16.2	15.7	14.1
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):

	165°	175°	180°
0°	481.0	481.0	481.0
2.5°	467.9	466.9	466.9
5°	466.3	465.3	465.9
7.5°	472.7	470.5	471.1
10°	484.2	482.0	481.0
12.5°	498.8	496.2	496.2
15°	514.0	507.7	507.2
17.5°	526.5	518.7	517.7
20°	540.7	530.2	528.7
22.5°	553.8	539.6	537.6
25°	563.2	546.0	543.3
27.5°	567.4	547.0	544.8
30°	570.5	547.4	544.4
32.5°	567.4	542.8	540.2
35°	550.1	523.4	521.9
37.5°	520.3	490.4	488.4
40°	481.0	449.6	444.4
42.5°	430.8	401.5	395.7
45°	382.0	348.6	346.0
47.5°	329.8	297.9	299.4
50°	274.8	246.0	245.5
52.5°	222.4	197.3	195.7
55°	175.3	157.6	156.0
57.5°	138.7	129.3	127.7
60°	113.0	108.4	106.8
62.5°	91.1	89.5	89.0
65°	75.9	75.9	75.9
67.5°	66.0	66.5	66.5
70°	60.7	61.2	60.7
72.5°	58.6	60.2	60.2
75°	57.0	58.1	56.0
77.5°	56.0	56.6	52.8
80°	55.4	55.0	48.2
82.5°	48.2	46.6	40.8
85°	44.0	33.5	28.3
87.5°	22.5	15.7	12.0
90°	0.0	0.0	0.0

(END OF REPORT)