

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: P181713

Luminaire Tested: **ICS-F04-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181713
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-T4-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8203.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.2
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

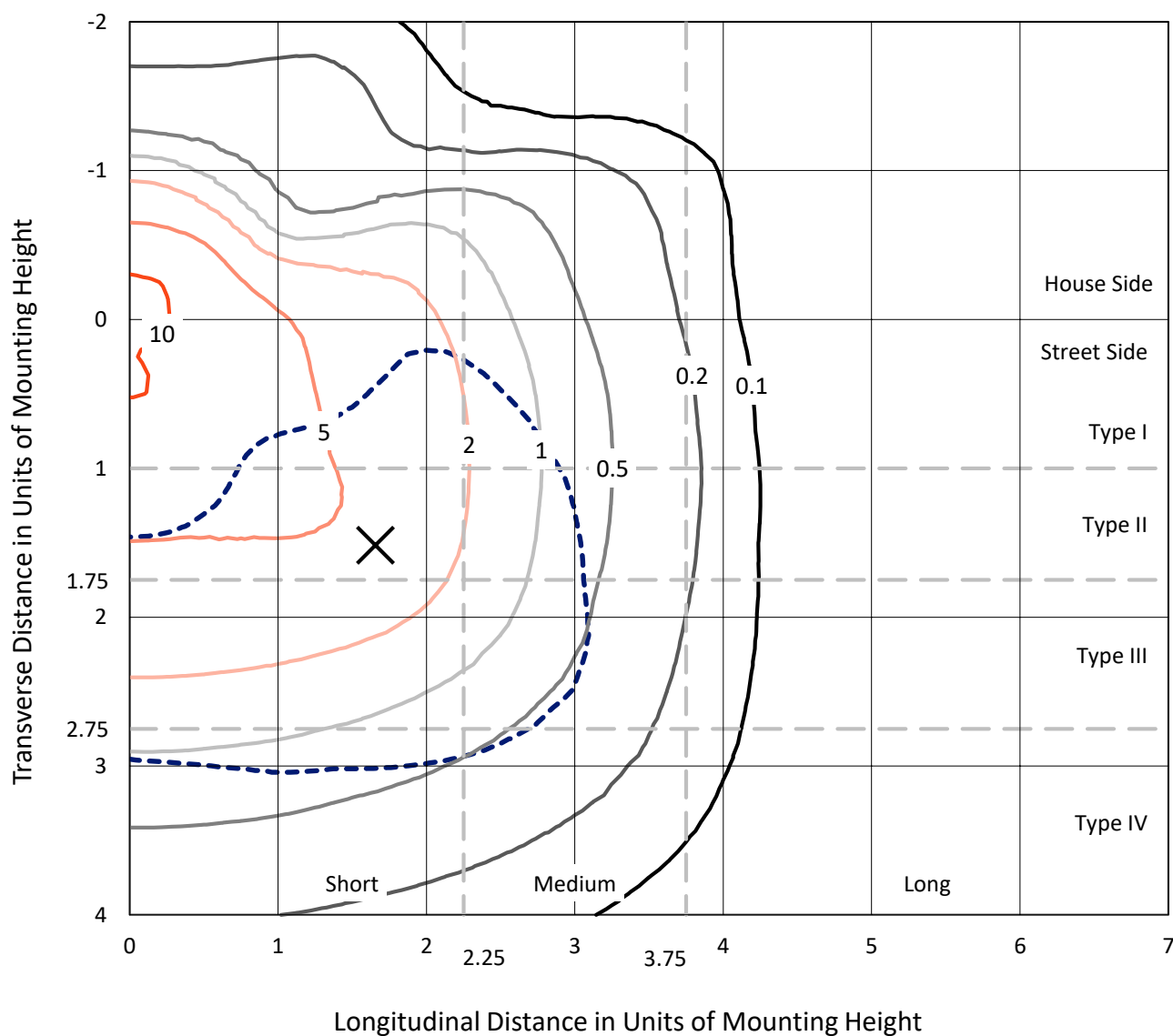


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

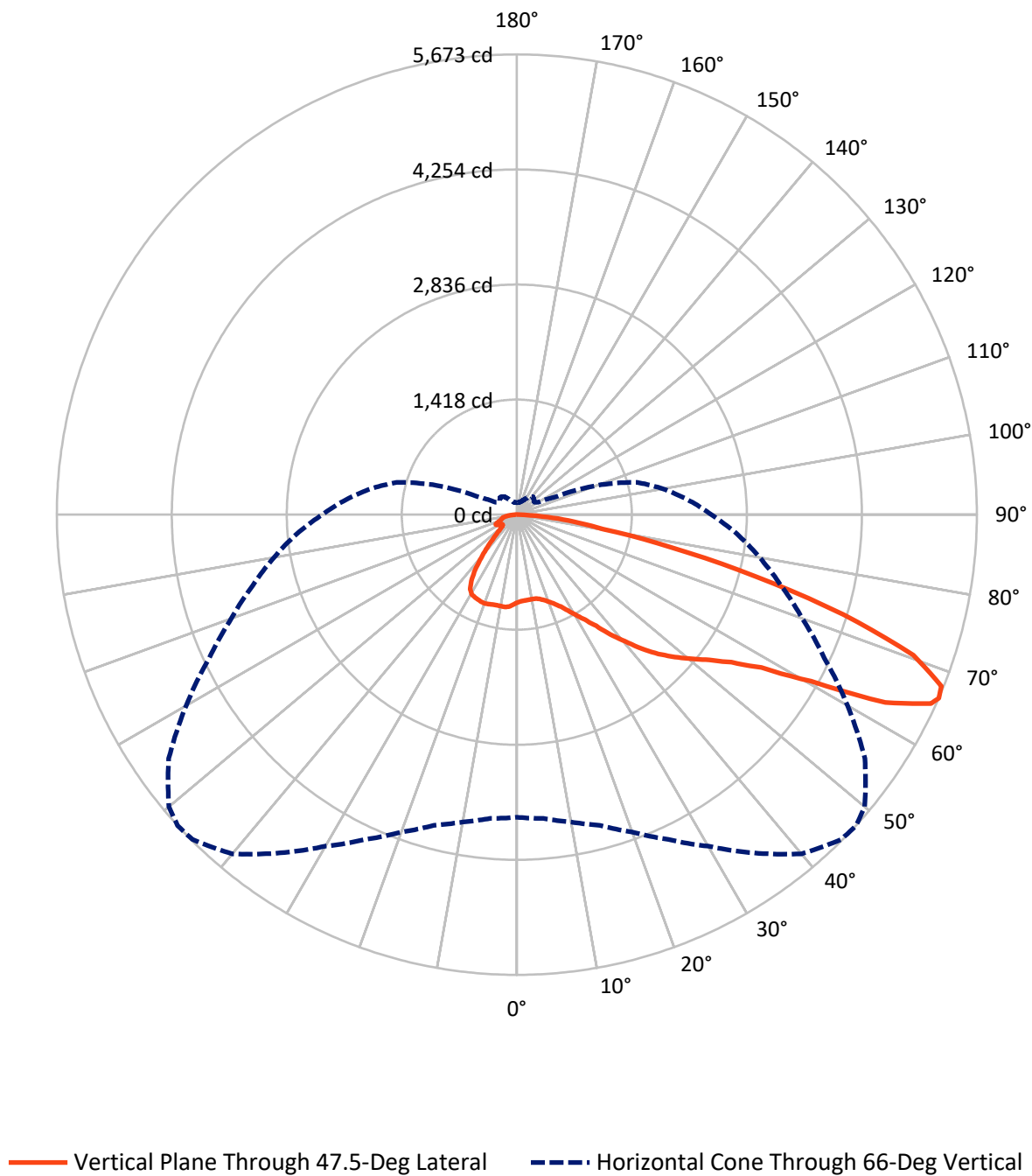


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.4	0.0	1750.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6453.0	0.0	6453.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	8203.4	0.0	8203.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.3
10°-20°	318.8	3.9
20°-30°	549.1	6.7
30°-40°	830.8	10.1
40°-50°	1076.8	13.1
50°-60°	1484.5	18.1
60°-70°	2306.5	28.1
70°-80°	1341.2	16.3
80°-90°	190.7	2.3
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°	8203.4	100.0
0°-180°	8203.4	100.0

Coefficient of Utilization



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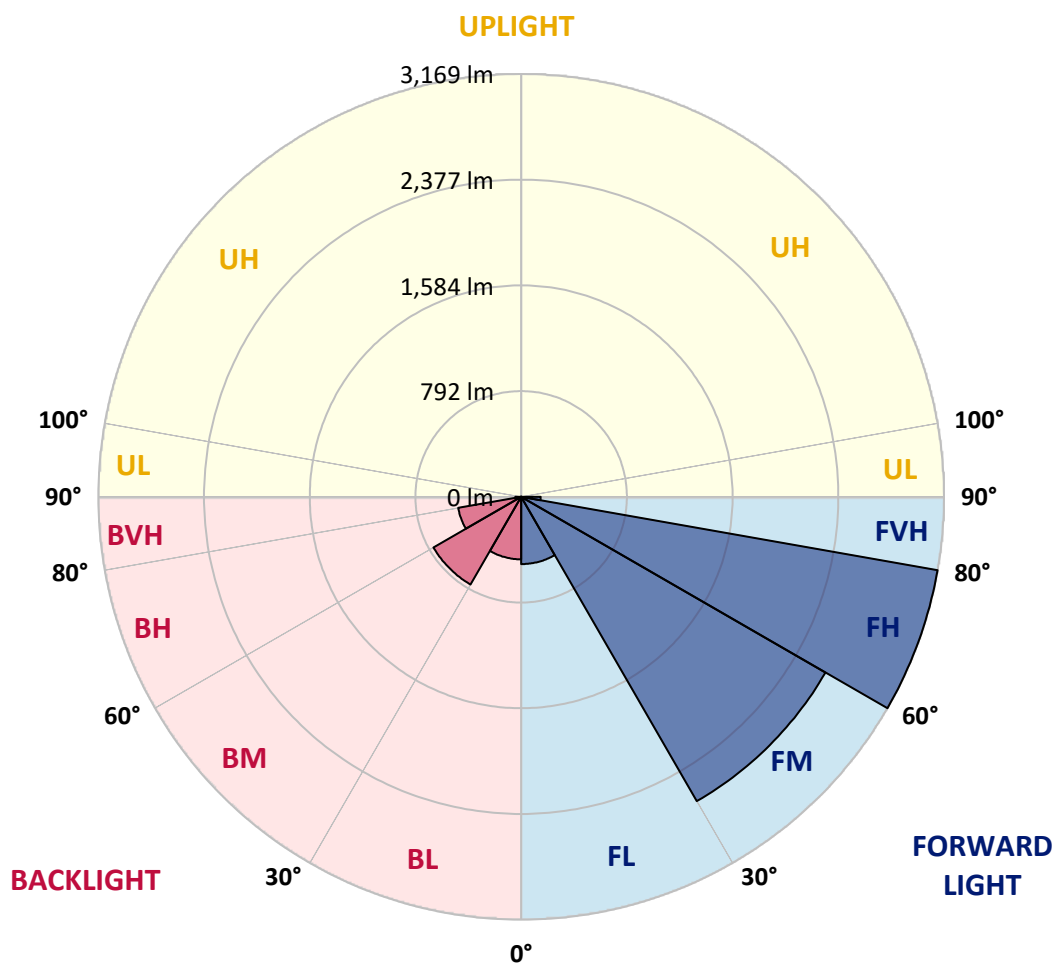
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.4	6.1			
FM	(30°-60°)	2633.3	32.1			
FH	(60°-80°)	3169.0	38.6			G2/5000
FVH	(80°-90°)	146.4	1.8			G2/225
BL	(0°-30°)	468.5	5.7	B1/500		
BM	(30°-60°)	758.8	9.2	B1/1000		
BH	(60°-80°)	478.7	5.8	B1/500		G1/500
BVH	(80°-90°)	44.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3
2.5°	1061.4	1065.0	1062.3	1063.2	1063.2	1064.1	1064.1	1065.0	1064.1	1066.8	1068.6
5°	1042.4	1044.2	1043.3	1045.1	1046.9	1050.5	1049.6	1054.1	1055.0	1057.8	1062.3
7.5°	1035.1	1033.3	1034.2	1036.9	1038.8	1040.6	1042.4	1046.0	1048.7	1055.0	1058.7
10°	1042.4	1041.5	1042.4	1044.2	1044.2	1045.1	1043.3	1046.9	1048.7	1054.1	1057.8
12.5°	1072.2	1072.2	1070.4	1070.4	1068.6	1066.8	1062.3	1059.6	1058.7	1059.6	1061.4
15°	1120.2	1118.4	1114.8	1112.1	1108.4	1102.1	1095.8	1090.3	1086.7	1081.3	1079.5
17.5°	1167.2	1164.5	1160.9	1157.3	1152.8	1146.4	1136.5	1130.1	1120.2	1113.9	1110.2
20°	1221.5	1216.1	1211.6	1207.1	1198.0	1196.2	1186.2	1175.4	1163.6	1149.1	1147.3
22.5°	1292.1	1283.1	1277.6	1274.9	1265.9	1263.2	1246.9	1231.5	1217.0	1198.0	1193.5
25°	1363.6	1354.5	1351.8	1348.2	1341.9	1338.3	1322.9	1305.7	1286.7	1260.4	1255.0
27.5°	1433.3	1434.2	1426.9	1429.6	1427.8	1421.5	1406.1	1388.9	1374.5	1343.7	1337.4
30°	1520.1	1514.7	1511.1	1516.5	1510.2	1511.1	1497.5	1488.5	1464.9	1446.8	1434.2
32.5°	1610.6	1609.7	1615.1	1618.8	1617.9	1616.0	1605.2	1596.1	1575.3	1549.1	1543.7
35°	1734.6	1740.0	1744.5	1760.8	1760.8	1772.6	1761.7	1750.9	1726.4	1694.8	1683.9
37.5°	1818.7	1820.5	1838.6	1860.4	1887.5	1912.8	1920.1	1922.8	1912.8	1889.3	1873.0
40°	1895.6	1899.3	1928.2	1961.7	2001.5	2051.3	2081.1	2094.7	2097.4	2086.6	2051.3
42.5°	1972.6	1978.0	2007.8	2056.7	2111.9	2175.2	2227.7	2261.2	2280.2	2280.2	2259.4
45°	2062.1	2069.4	2101.9	2155.3	2219.6	2299.2	2371.6	2435.8	2466.6	2468.4	2448.5
47.5°	2168.0	2174.3	2212.3	2266.6	2332.7	2413.2	2504.6	2577.9	2634.9	2638.5	2622.2
50°	2304.6	2313.7	2345.3	2394.2	2462.1	2543.5	2634.9	2737.1	2796.9	2811.3	2794.2
52.5°	2485.6	2487.4	2513.6	2558.9	2624.9	2702.8	2799.6	2910.9	2989.6	3001.4	2973.3
55°	2735.3	2732.6	2749.8	2798.7	2848.4	2909.1	3009.5	3134.4	3222.1	3240.2	3211.3
57.5°	3074.7	3071.9	3086.4	3098.2	3191.4	3250.2	3348.8	3468.3	3553.3	3605.8	3556.0
60°	3600.4	3597.6	3621.2	3689.9	3759.6	3845.6	3941.5	4084.5	4203.9	4219.3	4170.4
62.5°	3981.3	3994.9	4046.5	4127.0	4268.1	4436.4	4612.0	4800.2	5045.4	5123.2	5099.7
65°	3848.3	3875.4	3946.9	4069.1	4257.3	4489.8	4764.9	5106.0	5434.5	5618.2	5612.7
66°	3728.9	3758.7	3846.5	3964.1	4163.2	4417.4	4717.8	5089.7	5457.1	5659.8	5672.5
67.5°	3511.7	3545.2	3631.1	3770.5	3964.1	4234.7	4557.7	4962.2	5377.5	5613.6	5647.1
70°	3089.1	3127.1	3189.6	3304.5	3495.4	3737.0	4077.2	4439.2	4874.4	5144.9	5185.6
72.5°	2582.4	2615.9	2685.6	2779.7	2936.2	3088.2	3355.2	3622.1	3933.3	4241.9	4212.0
75°	1854.0	1868.5	1910.1	2012.4	2096.5	2233.1	2447.6	2666.6	2879.2	3020.4	3040.3
77.5°	963.7	1001.7	1060.5	1173.6	1265.0	1388.0	1527.4	1692.1	1847.7	1977.1	1941.8
80°	630.7	647.0	699.4	757.4	824.3	903.0	996.2	1057.8	1077.7	1069.5	1077.7
82.5°	363.7	393.6	463.3	507.6	557.4	584.5	658.7	729.3	769.1	719.3	701.3
85°	46.1	59.7	188.2	237.1	271.5	312.2	334.8	377.3	352.0	314.9	383.7
87.5°	10.0	9.0	12.7	27.1	28.1	23.5	44.3	47.1	29.0	14.5	18.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3
2.5°	1070.4	1071.3	1073.1	1075.9	1077.7	1079.5	1081.3	1084.0	1085.8	1087.6	1091.2
5°	1065.9	1069.5	1073.1	1076.8	1081.3	1088.5	1093.0	1096.7	1100.3	1107.5	1110.2
7.5°	1063.2	1069.5	1075.0	1081.3	1088.5	1094.9	1103.0	1107.5	1113.0	1117.5	1122.9
10°	1061.4	1070.4	1075.9	1084.9	1093.0	1099.4	1108.4	1113.9	1120.2	1125.6	1128.3
12.5°	1065.0	1069.5	1075.0	1084.0	1094.0	1103.0	1113.0	1117.5	1122.9	1127.4	1128.3
15°	1080.4	1080.4	1081.3	1088.5	1098.5	1105.7	1113.9	1118.4	1121.1	1123.8	1123.8
17.5°	1108.4	1102.1	1097.6	1098.5	1104.8	1109.3	1113.9	1113.9	1112.1	1111.1	1109.3
20°	1141.0	1132.9	1123.8	1117.5	1115.7	1112.1	1109.3	1100.3	1093.0	1086.7	1082.2
22.5°	1188.1	1175.4	1162.7	1151.0	1140.1	1126.5	1111.1	1093.0	1075.9	1064.1	1056.9
25°	1246.0	1236.0	1220.6	1202.5	1189.0	1163.6	1143.7	1117.5	1095.8	1080.4	1067.7
27.5°	1328.3	1316.5	1302.1	1285.8	1265.9	1237.8	1213.4	1182.6	1156.4	1133.8	1117.5
30°	1430.6	1415.2	1404.3	1384.4	1370.8	1339.2	1314.7	1276.7	1226.1	1189.9	1167.2
32.5°	1535.5	1518.3	1509.3	1493.9	1478.5	1459.5	1422.4	1363.6	1298.4	1239.6	1200.7
35°	1675.8	1657.7	1641.4	1627.8	1605.2	1569.9	1537.3	1466.7	1377.2	1294.8	1229.7
37.5°	1852.2	1822.4	1781.6	1747.2	1707.4	1656.8	1607.0	1534.6	1432.4	1325.6	1238.7
40°	2040.4	1987.9	1930.0	1865.8	1797.0	1723.7	1666.7	1593.4	1478.5	1351.8	1232.4
42.5°	2236.8	2153.5	2073.0	1982.5	1886.6	1799.7	1725.5	1645.0	1512.9	1359.1	1207.1
45°	2431.3	2338.1	2216.0	2097.4	1976.2	1868.5	1785.3	1694.8	1544.6	1361.8	1173.6
47.5°	2592.4	2496.5	2357.1	2208.7	2064.8	1942.7	1845.0	1747.2	1587.1	1380.8	1165.4
50°	2762.5	2645.8	2491.0	2315.5	2152.6	2016.0	1911.9	1810.6	1646.8	1429.6	1191.7
52.5°	2948.0	2814.1	2633.1	2436.7	2258.5	2105.6	1992.5	1888.4	1722.8	1498.4	1241.4
55°	3174.2	3010.4	2814.1	2592.4	2401.4	2232.2	2107.4	1984.3	1813.3	1579.9	1303.9
57.5°	3519.8	3319.0	3098.2	2845.7	2634.0	2434.0	2284.7	2142.7	1953.6	1701.1	1388.9
60°	4145.1	3930.6	3643.8	3338.0	3089.1	2855.7	2636.7	2460.3	2227.7	1940.0	1577.1
62.5°	5040.9	4755.8	4373.1	3945.1	3619.4	3282.8	3035.7	2773.3	2484.7	2174.3	1798.8
65°	5538.5	5192.9	4680.7	4184.0	3765.0	3399.5	3085.5	2781.5	2461.2	2164.4	1850.4
66°	5600.1	5239.9	4707.9	4184.9	3745.1	3369.6	3039.4	2724.5	2396.9	2113.7	1828.7
67.5°	5574.7	5206.5	4658.1	4106.2	3659.2	3255.6	2914.5	2587.8	2261.2	1997.0	1756.3
70°	5159.4	4810.1	4271.8	3737.0	3312.6	2914.5	2588.8	2267.5	1968.0	1741.8	1564.5
72.5°	4284.4	3985.8	3518.0	3098.2	2765.2	2436.7	2160.8	1854.0	1600.7	1433.3	1328.3
75°	3092.7	2911.8	2485.6	2244.9	1952.6	1734.6	1466.7	1284.9	1103.0	1021.6	1003.5
77.5°	1953.6	1710.2	1439.6	1185.3	974.5	808.0	628.9	533.9	445.2	436.1	526.6
80°	989.0	890.4	685.9	546.5	459.7	371.9	294.1	222.6	155.6	187.3	224.4
82.5°	647.9	540.2	423.5	348.4	303.1	251.5	195.4	135.7	99.5	112.2	153.8
85°	350.2	298.6	240.7	190.0	153.8	137.5	92.3	65.1	64.2	68.8	87.8
87.5°	25.3	25.3	19.9	18.1	21.7	18.1	16.3	16.3	15.4	16.3	21.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3	1081.3
2.5°	1093.0	1095.8	1096.7	1101.2	1103.9	1105.7	1107.5	1107.5	1108.4	1111.1	1112.1
5°	1113.9	1118.4	1123.8	1127.4	1129.2	1134.7	1136.5	1136.5	1138.3	1141.9	1144.6
7.5°	1126.5	1132.9	1138.3	1140.1	1143.7	1145.5	1148.2	1150.1	1150.1	1153.7	1155.5
10°	1131.1	1134.7	1140.1	1140.1	1143.7	1143.7	1146.4	1147.3	1147.3	1151.0	1153.7
12.5°	1131.1	1132.9	1137.4	1137.4	1140.1	1141.0	1144.6	1147.3	1148.2	1152.8	1156.4
15°	1125.6	1127.4	1131.1	1132.0	1138.3	1141.9	1150.1	1155.5	1155.5	1160.0	1161.8
17.5°	1110.2	1114.8	1122.0	1129.2	1141.0	1149.1	1159.1	1163.6	1160.0	1157.3	1154.6
20°	1084.9	1093.0	1110.2	1128.3	1149.1	1160.0	1165.4	1160.9	1148.2	1135.6	1127.4
22.5°	1059.6	1075.9	1104.8	1132.0	1155.5	1162.7	1160.0	1143.7	1122.9	1107.5	1096.7
25°	1071.3	1090.3	1118.4	1142.8	1158.2	1156.4	1145.5	1122.9	1100.3	1080.4	1062.3
27.5°	1120.2	1141.0	1156.4	1164.5	1162.7	1150.1	1132.9	1107.5	1080.4	1054.1	1028.8
30°	1166.3	1177.2	1180.8	1174.5	1160.0	1139.2	1117.5	1088.5	1052.3	1019.8	990.8
32.5°	1187.2	1176.3	1159.1	1141.9	1118.4	1100.3	1070.4	1038.8	993.5	954.6	925.7
35°	1187.2	1143.7	1100.3	1064.1	1028.8	1006.2	971.8	929.3	887.6	855.1	832.5
37.5°	1160.9	1077.7	1006.2	947.4	903.0	878.6	827.0	789.0	753.7	742.9	728.4
40°	1113.0	989.9	886.7	809.8	753.7	717.5	666.0	639.7	626.2	620.7	618.0
42.5°	1048.7	892.2	754.6	659.6	599.0	558.3	523.9	507.6	506.7	505.8	505.8
45°	979.9	787.2	626.2	513.0	459.7	423.5	407.2	400.8	406.3	405.4	406.3
47.5°	937.4	707.6	508.5	388.2	347.5	323.9	315.8	318.5	323.0	321.2	321.2
50°	932.0	666.9	429.8	302.2	271.5	259.7	257.9	257.9	260.6	258.8	257.9
52.5°	951.9	660.5	389.1	259.7	235.3	225.3	223.5	222.6	221.7	216.3	211.7
55°	986.3	675.0	377.3	248.8	223.5	212.6	209.9	208.1	204.5	197.3	189.1
57.5°	1055.0	720.3	388.2	254.3	227.1	218.1	215.4	215.4	208.1	196.4	184.6
60°	1220.6	835.2	432.5	275.1	244.3	235.3	237.1	236.2	225.3	208.1	190.0
62.5°	1434.2	985.4	490.4	304.0	266.0	264.2	273.3	271.5	253.4	227.1	200.9
65°	1532.8	1055.9	506.7	310.4	270.5	278.7	296.8	295.0	272.4	236.2	202.7
66°	1534.6	1055.9	499.5	304.9	264.2	274.2	292.3	291.4	268.7	232.5	199.1
67.5°	1497.5	1027.0	478.7	294.1	251.5	258.8	275.1	274.2	253.4	223.5	191.8
70°	1358.2	919.3	425.3	275.1	234.4	230.7	236.2	232.5	219.0	198.2	176.4
72.5°	1163.6	771.8	371.0	260.6	222.6	208.1	204.5	201.8	190.9	179.2	165.6
75°	916.6	610.8	325.7	249.7	211.7	192.7	186.4	182.8	175.5	167.4	156.5
77.5°	565.5	437.0	284.1	235.3	203.6	184.6	180.1	174.6	163.8	153.8	145.7
80°	252.5	270.5	233.4	205.4	181.9	164.7	157.4	149.3	138.4	132.1	127.6
82.5°	168.3	174.6	169.2	153.8	137.5	124.0	113.1	113.1	111.3	105.9	104.1
85°	107.7	108.6	105.0	95.0	88.7	80.5	76.0	76.9	80.5	79.6	78.7
87.5°	24.4	24.4	29.0	27.1	31.7	33.5	36.2	38.9	44.3	44.3	47.1
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):

	160°	165°	170°	175°	180°
0°	1081.3	1081.3	1081.3	1081.3	1081.3
2.5°	1113.0	1114.8	1116.6	1113.9	1114.8
5°	1144.6	1143.7	1148.2	1145.5	1147.3
7.5°	1154.6	1155.5	1159.1	1159.1	1160.0
10°	1155.5	1157.3	1161.8	1164.5	1166.3
12.5°	1160.0	1163.6	1170.9	1172.7	1172.7
15°	1163.6	1165.4	1170.0	1171.8	1173.6
17.5°	1151.0	1147.3	1149.1	1150.1	1149.1
20°	1119.3	1115.7	1114.8	1111.1	1113.0
22.5°	1084.9	1075.0	1068.6	1061.4	1061.4
25°	1043.3	1027.9	1015.2	1002.6	1005.3
27.5°	1004.4	984.5	971.8	963.7	961.8
30°	966.4	945.6	933.8	923.8	923.8
32.5°	903.0	888.6	873.2	866.8	865.9
35°	815.3	806.2	793.5	790.8	786.3
37.5°	716.6	713.9	703.1	702.2	697.6
40°	613.5	615.3	611.7	609.9	607.1
42.5°	510.3	519.4	517.6	516.7	514.9
45°	411.7	418.0	418.9	421.7	426.2
47.5°	323.9	325.7	327.6	326.6	327.6
50°	253.4	248.8	247.9	245.2	247.9
52.5°	204.5	197.3	193.6	190.0	188.2
55°	180.1	172.8	169.2	167.4	165.6
57.5°	173.7	166.5	161.1	157.4	156.5
60°	175.5	164.7	157.4	152.9	152.0
62.5°	180.1	165.6	155.6	151.1	150.2
65°	179.2	163.8	154.7	149.3	148.4
66°	176.4	162.0	152.9	148.4	147.5
67.5°	171.9	159.3	151.1	147.5	145.7
70°	163.8	155.6	149.3	144.8	143.0
72.5°	156.5	150.2	144.8	140.3	139.3
75°	148.4	143.0	137.5	133.9	133.0
77.5°	138.4	133.0	129.4	126.7	125.8
80°	122.2	118.5	114.9	111.3	111.3
82.5°	101.3	98.6	95.0	92.3	91.4
85°	77.8	77.8	75.1	72.4	71.5
87.5°	46.1	45.2	45.2	42.5	42.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)