

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: P181699

Luminaire Tested: **ICS-E03-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181699
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-E03-LED-E1-T4
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8160 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

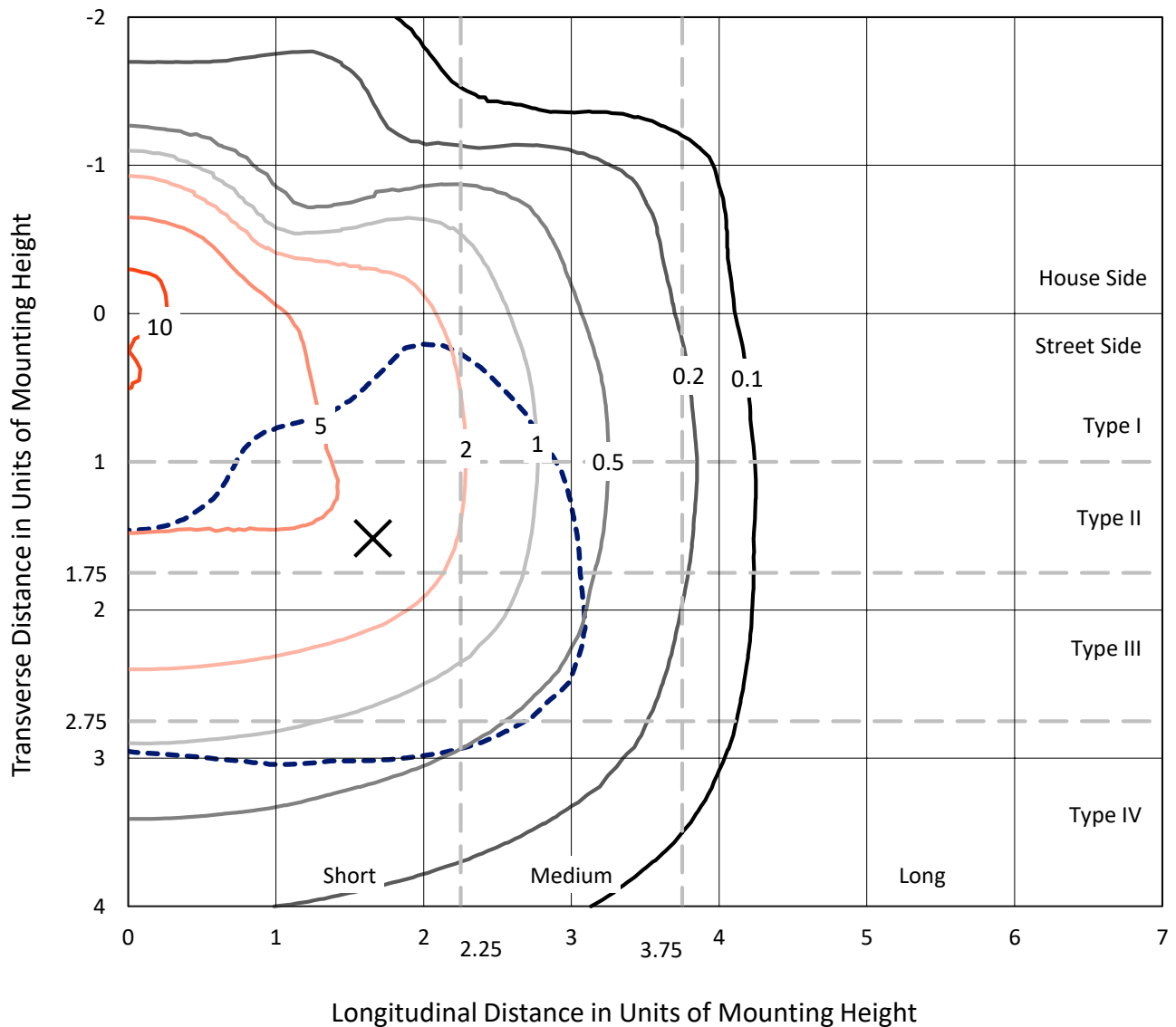
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

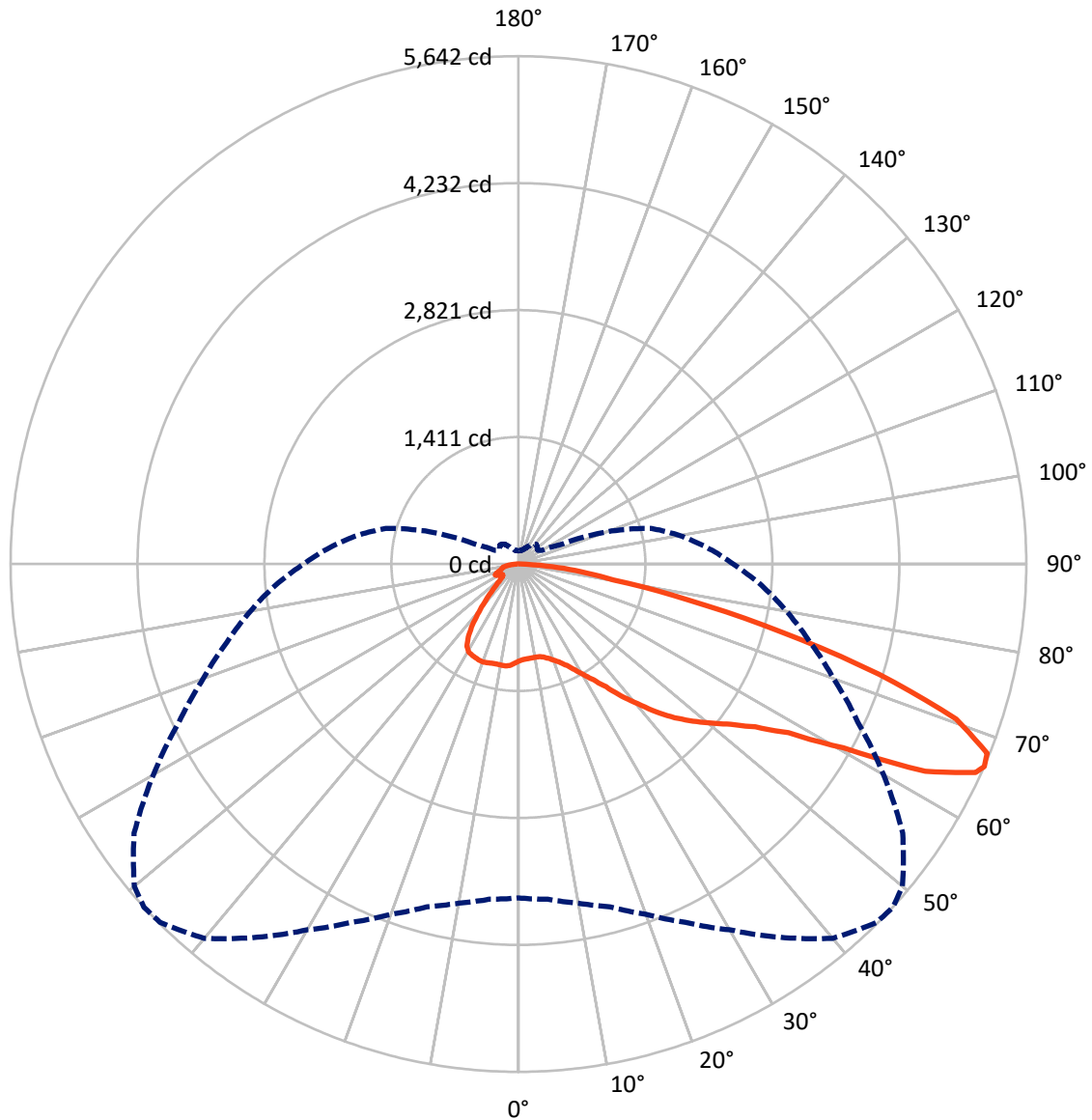
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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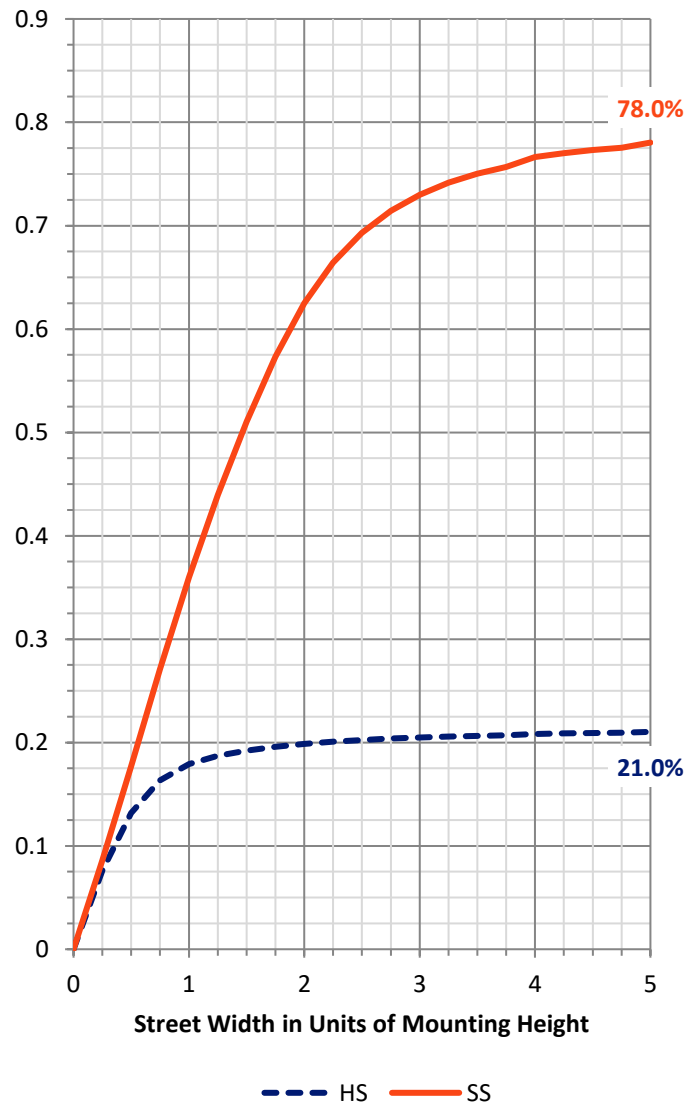
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.1	0.0	1741.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6418.8	0.0	6418.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	8160.0	0.0	8160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.3
10°-20°	317.1	3.9
20°-30°	546.2	6.7
30°-40°	826.4	10.1
40°-50°	1071.1	13.1
50°-60°	1476.7	18.1
60°-70°	2294.3	28.1
70°-80°	1334.1	16.3
80°-90°	189.7	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°	8160.0	100.0
0°-180°	8160.0	100.0



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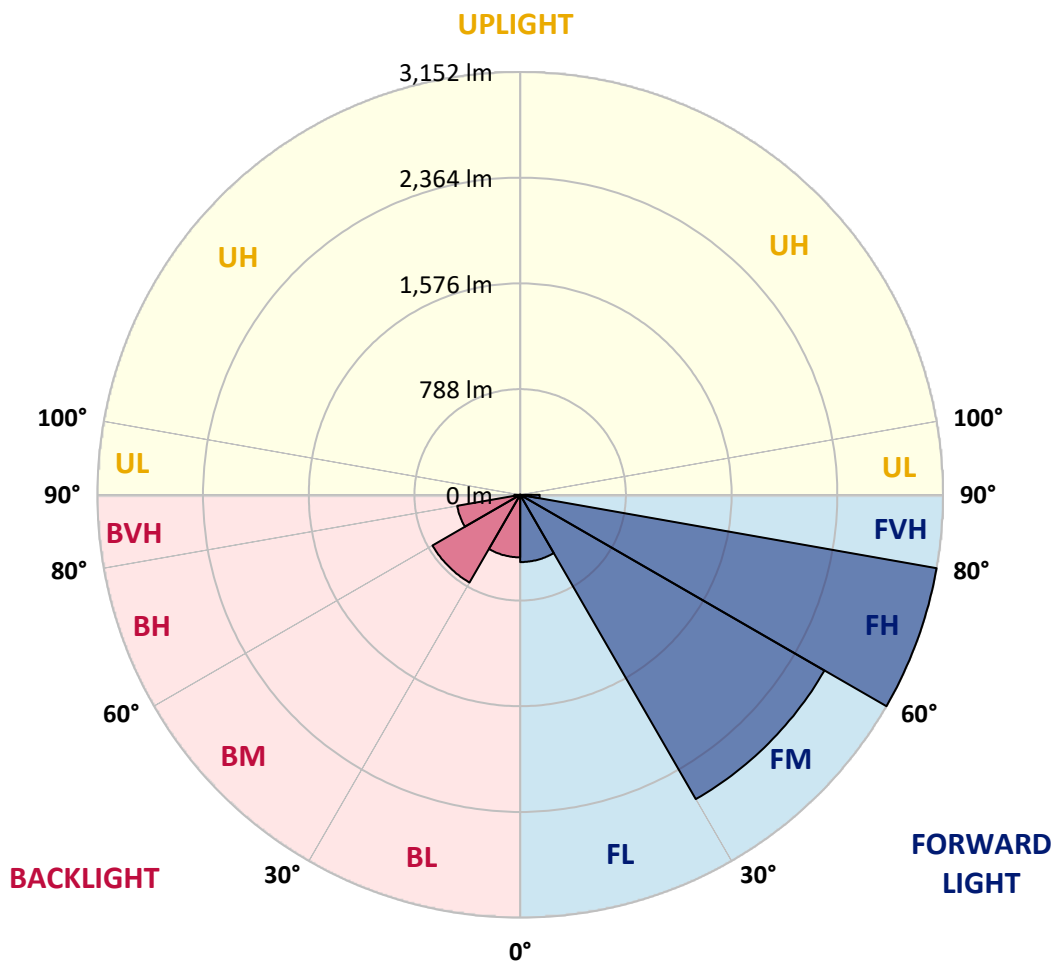
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.7	6.1			
FM	(30°-60°)	2619.3	32.1			
FH	(60°-80°)	3152.2	38.6			G2/5000
FVH	(80°-90°)	145.6	1.8			G2/225
BL	(0°-30°)	466.1	5.7	B1/500		
BM	(30°-60°)	754.8	9.2	B1/1000		
BH	(60°-80°)	476.2	5.8	B1/500		G1/500
BVH	(80°-90°)	44.1	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°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1055.8	1059.4	1056.7	1057.6	1057.6	1058.5	1058.5	1059.4	1058.5	1061.2	1063.0
5°	1036.9	1038.7	1037.8	1039.6	1041.4	1045.0	1044.1	1048.6	1049.5	1052.2	1056.7
7.5°	1029.7	1027.9	1028.8	1031.5	1033.3	1035.1	1036.9	1040.5	1043.2	1049.5	1053.1
10°	1036.9	1036.0	1036.9	1038.7	1038.7	1039.6	1037.8	1041.4	1043.2	1048.6	1052.2
12.5°	1066.6	1066.6	1064.8	1064.8	1063.0	1061.2	1056.7	1054.0	1053.1	1054.0	1055.8
15°	1114.3	1112.5	1108.9	1106.2	1102.6	1096.3	1090.0	1084.6	1081.0	1075.6	1073.8
17.5°	1161.1	1158.4	1154.8	1151.2	1146.7	1140.4	1130.5	1124.2	1114.3	1108.0	1104.4
20°	1215.1	1209.7	1205.2	1200.7	1191.7	1189.9	1180.0	1169.2	1157.5	1143.1	1141.3
22.5°	1285.3	1276.3	1270.9	1268.2	1259.2	1256.5	1240.3	1225.0	1210.6	1191.7	1187.2
25°	1356.4	1347.4	1344.7	1341.1	1334.8	1331.2	1315.9	1298.8	1279.9	1253.8	1248.4
27.5°	1425.7	1426.6	1419.4	1422.1	1420.3	1414.0	1398.7	1381.6	1367.2	1336.6	1330.3
30°	1512.1	1506.7	1503.1	1508.5	1502.2	1503.1	1489.6	1480.6	1457.2	1439.2	1426.6
32.5°	1602.1	1601.2	1606.6	1610.2	1609.3	1607.5	1596.7	1587.7	1567.0	1540.9	1535.5
35°	1725.4	1730.8	1735.3	1751.5	1751.5	1763.2	1752.4	1741.6	1717.3	1685.8	1675.0
37.5°	1809.1	1810.9	1828.9	1850.5	1877.5	1902.7	1909.9	1912.6	1902.7	1879.3	1863.1
40°	1885.6	1889.2	1918.0	1951.3	1990.9	2040.4	2070.1	2083.6	2086.3	2075.5	2040.4
42.5°	1962.1	1967.5	1997.2	2045.8	2100.7	2163.7	2215.9	2249.2	2268.1	2268.1	2247.4
45°	2051.2	2058.4	2090.8	2143.9	2207.8	2287.0	2359.0	2422.9	2453.5	2455.3	2435.5
47.5°	2156.5	2162.8	2200.6	2254.6	2320.3	2400.4	2491.3	2564.2	2620.9	2624.5	2608.3
50°	2292.4	2301.4	2332.9	2381.5	2449.0	2530.0	2620.9	2722.6	2782.1	2796.5	2779.4
52.5°	2472.4	2474.2	2500.3	2545.3	2611.0	2688.4	2784.8	2895.5	2973.8	2985.5	2957.6
55°	2720.8	2718.1	2735.2	2783.9	2833.4	2893.7	2993.6	3117.8	3205.1	3223.1	3194.3
57.5°	3058.4	3055.7	3070.1	3081.8	3174.5	3233.0	3331.1	3449.9	3534.5	3586.7	3537.2
60°	3581.3	3578.6	3602.0	3670.4	3739.7	3825.2	3920.6	4062.8	4181.6	4196.9	4148.3
62.5°	3960.2	3973.7	4025.0	4105.1	4245.5	4412.9	4587.5	4774.8	5018.7	5096.1	5072.7
65°	3827.9	3854.9	3926.0	4047.5	4234.7	4466.0	4739.7	5079.0	5405.7	5588.4	5583.0
66°	3709.1	3738.8	3826.1	3943.1	4141.1	4394.0	4692.9	5062.8	5428.2	5629.8	5642.4
67.5°	3493.1	3526.4	3611.9	3750.5	3943.1	4212.2	4533.5	4935.9	5349.0	5583.9	5617.2
70°	3072.8	3110.6	3172.7	3287.0	3476.9	3717.2	4055.6	4415.6	4848.6	5117.7	5158.2
72.5°	2568.7	2602.0	2671.3	2765.0	2920.7	3071.9	3337.4	3602.9	3912.5	4219.4	4189.7
75°	1844.2	1858.6	1900.0	2001.7	2085.4	2221.3	2434.6	2652.4	2864.0	3004.4	3024.2
77.5°	958.6	996.4	1054.9	1167.4	1258.3	1380.7	1519.3	1683.1	1837.9	1966.6	1931.5
80°	627.3	643.5	695.7	753.3	819.9	898.2	991.0	1052.2	1072.0	1063.9	1072.0
82.5°	361.8	391.5	460.8	504.9	554.4	581.4	655.2	725.4	765.0	715.5	697.5
85°	45.9	59.4	187.2	235.8	270.0	310.5	333.0	375.3	350.1	313.2	381.6
87.5°	9.9	9.0	12.6	27.0	27.9	23.4	44.1	46.8	28.8	14.4	18.0
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°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1064.8	1065.7	1067.5	1070.2	1072.0	1073.8	1075.6	1078.3	1080.1	1081.9	1085.5
5°	1060.3	1063.9	1067.5	1071.1	1075.6	1082.8	1087.3	1090.9	1094.5	1101.7	1104.4
7.5°	1057.6	1063.9	1069.3	1075.6	1082.8	1089.1	1097.2	1101.7	1107.1	1111.6	1117.0
10°	1055.8	1064.8	1070.2	1079.2	1087.3	1093.6	1102.6	1108.0	1114.3	1119.7	1122.4
12.5°	1059.4	1063.9	1069.3	1078.3	1088.2	1097.2	1107.1	1111.6	1117.0	1121.5	1122.4
15°	1074.7	1074.7	1075.6	1082.8	1092.7	1099.9	1108.0	1112.5	1115.2	1117.9	1117.9
17.5°	1102.6	1096.3	1091.8	1092.7	1099.0	1103.5	1108.0	1108.0	1106.2	1105.3	1103.5
20°	1135.0	1126.9	1117.9	1111.6	1109.8	1106.2	1103.5	1094.5	1087.3	1081.0	1076.5
22.5°	1181.8	1169.2	1156.6	1144.9	1134.1	1120.6	1105.3	1087.3	1070.2	1058.5	1051.3
25°	1239.4	1229.5	1214.2	1196.2	1182.7	1157.5	1137.7	1111.6	1090.0	1074.7	1062.1
27.5°	1321.3	1309.6	1295.2	1279.0	1259.2	1231.3	1207.0	1176.4	1150.3	1127.8	1111.6
30°	1423.0	1407.7	1396.9	1377.1	1363.6	1332.1	1307.8	1270.0	1219.6	1183.6	1161.1
32.5°	1527.4	1510.3	1501.3	1486.0	1470.7	1451.8	1414.9	1356.4	1291.6	1233.1	1194.4
35°	1666.9	1648.9	1632.7	1619.2	1596.7	1561.6	1529.2	1459.0	1369.9	1288.0	1223.2
37.5°	1842.4	1812.7	1772.2	1738.0	1698.4	1648.0	1598.5	1526.5	1424.8	1318.6	1232.2
40°	2029.6	1977.4	1919.8	1855.9	1787.5	1714.6	1657.9	1585.0	1470.7	1344.7	1225.9
42.5°	2224.9	2142.1	2062.0	1972.0	1876.6	1790.2	1716.4	1636.3	1504.9	1351.9	1200.7
45°	2418.4	2325.7	2204.2	2086.3	1965.7	1858.6	1775.8	1685.8	1536.4	1354.6	1167.4
47.5°	2578.6	2483.2	2344.6	2197.0	2053.9	1932.4	1835.2	1738.0	1578.7	1373.5	1159.3
50°	2747.8	2631.7	2477.8	2303.2	2141.2	2005.3	1901.8	1801.0	1638.1	1422.1	1185.4
52.5°	2932.4	2799.2	2619.1	2423.8	2246.5	2094.4	1981.9	1878.4	1713.7	1490.5	1234.9
55°	3157.4	2994.5	2799.2	2578.6	2388.7	2220.4	2096.2	1973.8	1803.7	1571.5	1297.0
57.5°	3501.2	3301.4	3081.8	2830.7	2620.0	2421.1	2272.6	2131.3	1943.2	1692.1	1381.6
60°	4123.1	3909.8	3624.5	3320.3	3072.8	2840.6	2622.7	2447.2	2215.9	1929.7	1568.8
62.5°	5014.2	4730.7	4349.9	3924.2	3600.2	3265.4	3019.7	2758.7	2471.5	2162.8	1789.3
65°	5509.2	5165.4	4656.0	4161.8	3745.1	3381.5	3069.2	2766.8	2448.1	2152.9	1840.6
66°	5570.4	5212.2	4683.0	4162.7	3725.3	3351.8	3023.3	2710.0	2384.2	2102.5	1819.0
67.5°	5545.2	5178.9	4633.5	4084.4	3639.8	3238.4	2899.1	2574.1	2249.2	1986.4	1747.0
70°	5132.1	4784.7	4249.1	3717.2	3295.1	2899.1	2575.0	2255.5	1957.6	1732.6	1556.2
72.5°	4261.7	3964.7	3499.4	3081.8	2750.5	2423.8	2149.3	1844.2	1592.2	1425.7	1321.3
75°	3076.4	2896.4	2472.4	2233.0	1942.3	1725.4	1459.0	1278.1	1097.2	1016.2	998.2
77.5°	1943.2	1701.1	1432.0	1179.1	969.4	803.7	625.5	531.0	442.8	433.8	523.8
80°	983.8	885.6	682.2	543.6	457.2	369.9	292.5	221.4	154.8	186.3	223.2
82.5°	644.4	537.3	421.2	346.5	301.5	250.2	194.4	135.0	99.0	111.6	153.0
85°	348.3	297.0	239.4	189.0	153.0	136.8	91.8	64.8	63.9	68.4	87.3
87.5°	25.2	25.2	19.8	18.0	21.6	18.0	16.2	16.2	15.3	16.2	21.6
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1087.3	1090.0	1090.9	1095.4	1098.1	1099.9	1101.7	1101.7	1102.6	1105.3	1106.2
5°	1108.0	1112.5	1117.9	1121.5	1123.3	1128.7	1130.5	1130.5	1132.3	1135.9	1138.6
7.5°	1120.6	1126.9	1132.3	1134.1	1137.7	1139.5	1142.2	1144.0	1144.0	1147.6	1149.4
10°	1125.1	1128.7	1134.1	1134.1	1137.7	1137.7	1140.4	1141.3	1141.3	1144.9	1147.6
12.5°	1125.1	1126.9	1131.4	1131.4	1134.1	1135.0	1138.6	1141.3	1142.2	1146.7	1150.3
15°	1119.7	1121.5	1125.1	1126.0	1132.3	1135.9	1144.0	1149.4	1149.4	1153.9	1155.7
17.5°	1104.4	1108.9	1116.1	1123.3	1135.0	1143.1	1153.0	1157.5	1153.9	1151.2	1148.5
20°	1079.2	1087.3	1104.4	1122.4	1143.1	1153.9	1159.3	1154.8	1142.2	1129.6	1121.5
22.5°	1054.0	1070.2	1099.0	1126.0	1149.4	1156.6	1153.9	1137.7	1117.0	1101.7	1090.9
25°	1065.7	1084.6	1112.5	1136.8	1152.1	1150.3	1139.5	1117.0	1094.5	1074.7	1056.7
27.5°	1114.3	1135.0	1150.3	1158.4	1156.6	1144.0	1126.9	1101.7	1074.7	1048.6	1023.4
30°	1160.2	1171.0	1174.6	1168.3	1153.9	1133.2	1111.6	1082.8	1046.8	1014.4	985.6
32.5°	1180.9	1170.1	1153.0	1135.9	1112.5	1094.5	1064.8	1033.3	988.3	949.6	920.8
35°	1180.9	1137.7	1094.5	1058.5	1023.4	1000.9	966.7	924.4	882.9	850.5	828.0
37.5°	1154.8	1072.0	1000.9	942.4	898.2	873.9	822.6	784.8	749.7	738.9	724.5
40°	1107.1	984.7	882.0	805.5	749.7	713.7	662.4	636.3	622.8	617.4	614.7
42.5°	1043.2	887.4	750.6	656.1	595.8	555.3	521.1	504.9	504.0	503.1	503.1
45°	974.8	783.0	622.8	510.3	457.2	421.2	405.0	398.7	404.1	403.2	404.1
47.5°	932.5	703.8	505.8	386.1	345.6	322.2	314.1	316.8	321.3	319.5	319.5
50°	927.1	663.3	427.5	300.6	270.0	258.3	256.5	256.5	259.2	257.4	256.5
52.5°	946.9	657.0	387.0	258.3	234.0	224.1	222.3	221.4	220.5	215.1	210.6
55°	981.1	671.4	375.3	247.5	222.3	211.5	208.8	207.0	203.4	196.2	188.1
57.5°	1049.5	716.4	386.1	252.9	225.9	216.9	214.2	214.2	207.0	195.3	183.6
60°	1214.2	830.7	430.2	273.6	243.0	234.0	235.8	234.9	224.1	207.0	189.0
62.5°	1426.6	980.2	487.8	302.4	264.6	262.8	271.8	270.0	252.0	225.9	199.8
65°	1524.7	1050.4	504.0	308.7	269.1	277.2	295.2	293.4	270.9	234.9	201.6
66°	1526.5	1050.4	496.8	303.3	262.8	272.7	290.7	289.8	267.3	231.3	198.0
67.5°	1489.6	1021.6	476.1	292.5	250.2	257.4	273.6	272.7	252.0	222.3	190.8
70°	1351.0	914.4	423.0	273.6	233.1	229.5	234.9	231.3	217.8	197.1	175.5
72.5°	1157.5	767.7	369.0	259.2	221.4	207.0	203.4	200.7	189.9	178.2	164.7
75°	911.7	607.5	324.0	248.4	210.6	191.7	185.4	181.8	174.6	166.5	155.7
77.5°	562.5	434.7	282.6	234.0	202.5	183.6	179.1	173.7	162.9	153.0	144.9
80°	251.1	269.1	232.2	204.3	180.9	163.8	156.6	148.5	137.7	131.4	126.9
82.5°	167.4	173.7	168.3	153.0	136.8	123.3	112.5	112.5	110.7	105.3	103.5
85°	107.1	108.0	104.4	94.5	88.2	80.1	75.6	76.5	80.1	79.2	78.3
87.5°	24.3	24.3	28.8	27.0	31.5	33.3	36.0	38.7	44.1	44.1	46.8
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°	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1107.1	1108.9	1110.7	1108.0	1108.9
5°	1138.6	1137.7	1142.2	1139.5	1141.3
7.5°	1148.5	1149.4	1153.0	1153.0	1153.9
10°	1149.4	1151.2	1155.7	1158.4	1160.2
12.5°	1153.9	1157.5	1164.7	1166.5	1166.5
15°	1157.5	1159.3	1163.8	1165.6	1167.4
17.5°	1144.9	1141.3	1143.1	1144.0	1143.1
20°	1113.4	1109.8	1108.9	1105.3	1107.1
22.5°	1079.2	1069.3	1063.0	1055.8	1055.8
25°	1037.8	1022.5	1009.9	997.3	1000.0
27.5°	999.1	979.3	966.7	958.6	956.8
30°	961.3	940.6	928.9	918.9	918.9
32.5°	898.2	883.8	868.5	862.2	861.3
35°	810.9	801.9	789.3	786.6	782.1
37.5°	712.8	710.1	699.3	698.4	693.9
40°	610.2	612.0	608.4	606.6	603.9
42.5°	507.6	516.6	514.8	513.9	512.1
45°	409.5	415.8	416.7	419.4	423.9
47.5°	322.2	324.0	325.8	324.9	325.8
50°	252.0	247.5	246.6	243.9	246.6
52.5°	203.4	196.2	192.6	189.0	187.2
55°	179.1	171.9	168.3	166.5	164.7
57.5°	172.8	165.6	160.2	156.6	155.7
60°	174.6	163.8	156.6	152.1	151.2
62.5°	179.1	164.7	154.8	150.3	149.4
65°	178.2	162.9	153.9	148.5	147.6
66°	175.5	161.1	152.1	147.6	146.7
67.5°	171.0	158.4	150.3	146.7	144.9
70°	162.9	154.8	148.5	144.0	142.2
72.5°	155.7	149.4	144.0	139.5	138.6
75°	147.6	142.2	136.8	133.2	132.3
77.5°	137.7	132.3	128.7	126.0	125.1
80°	121.5	117.9	114.3	110.7	110.7
82.5°	100.8	98.1	94.5	91.8	90.9
85°	77.4	77.4	74.7	72.0	71.1
87.5°	45.9	45.0	45.0	42.3	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)