

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: P180941

Luminaire Tested: **ICS-F03-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180941
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F03-LED-E1-SL4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5557.5 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

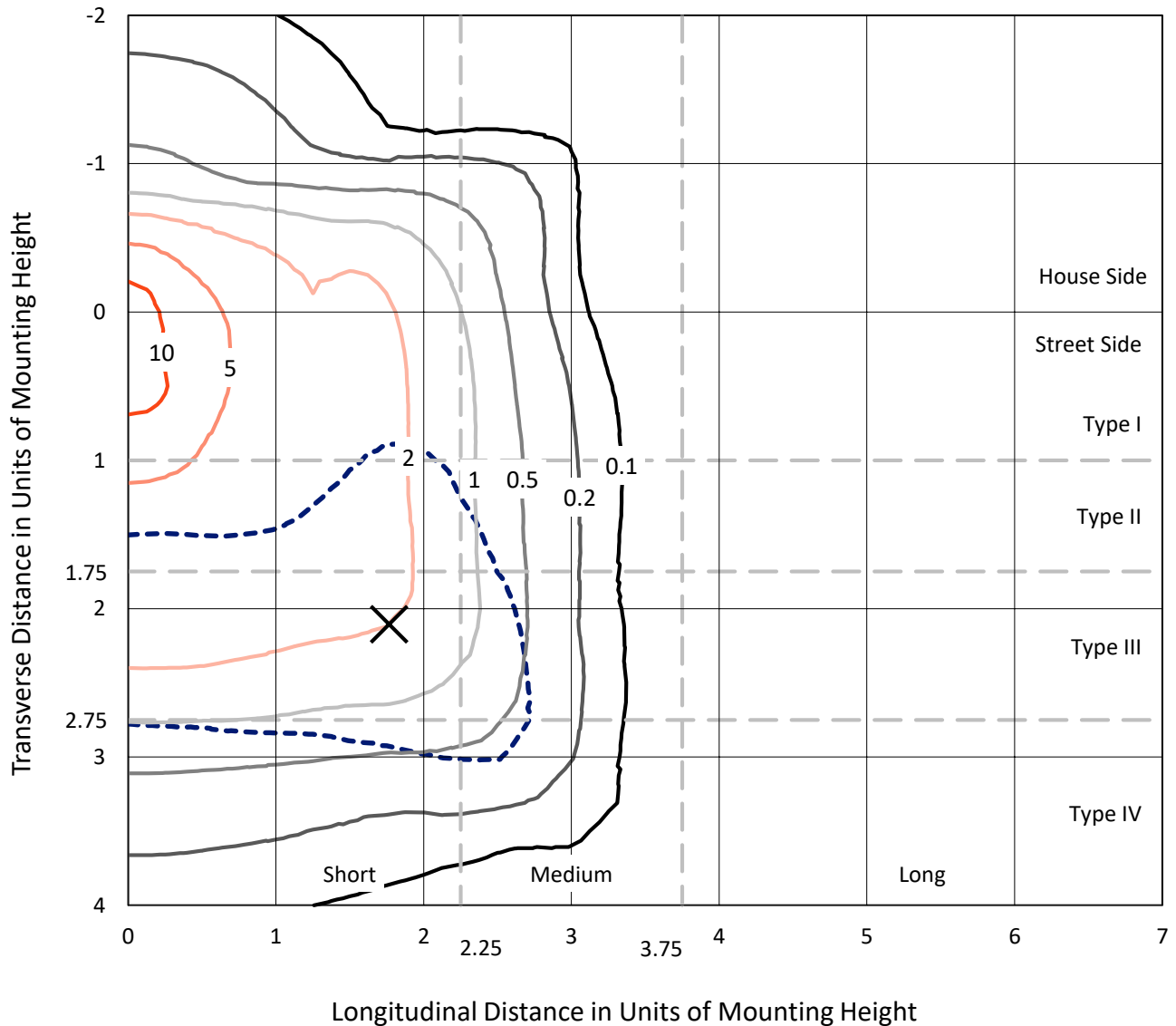


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

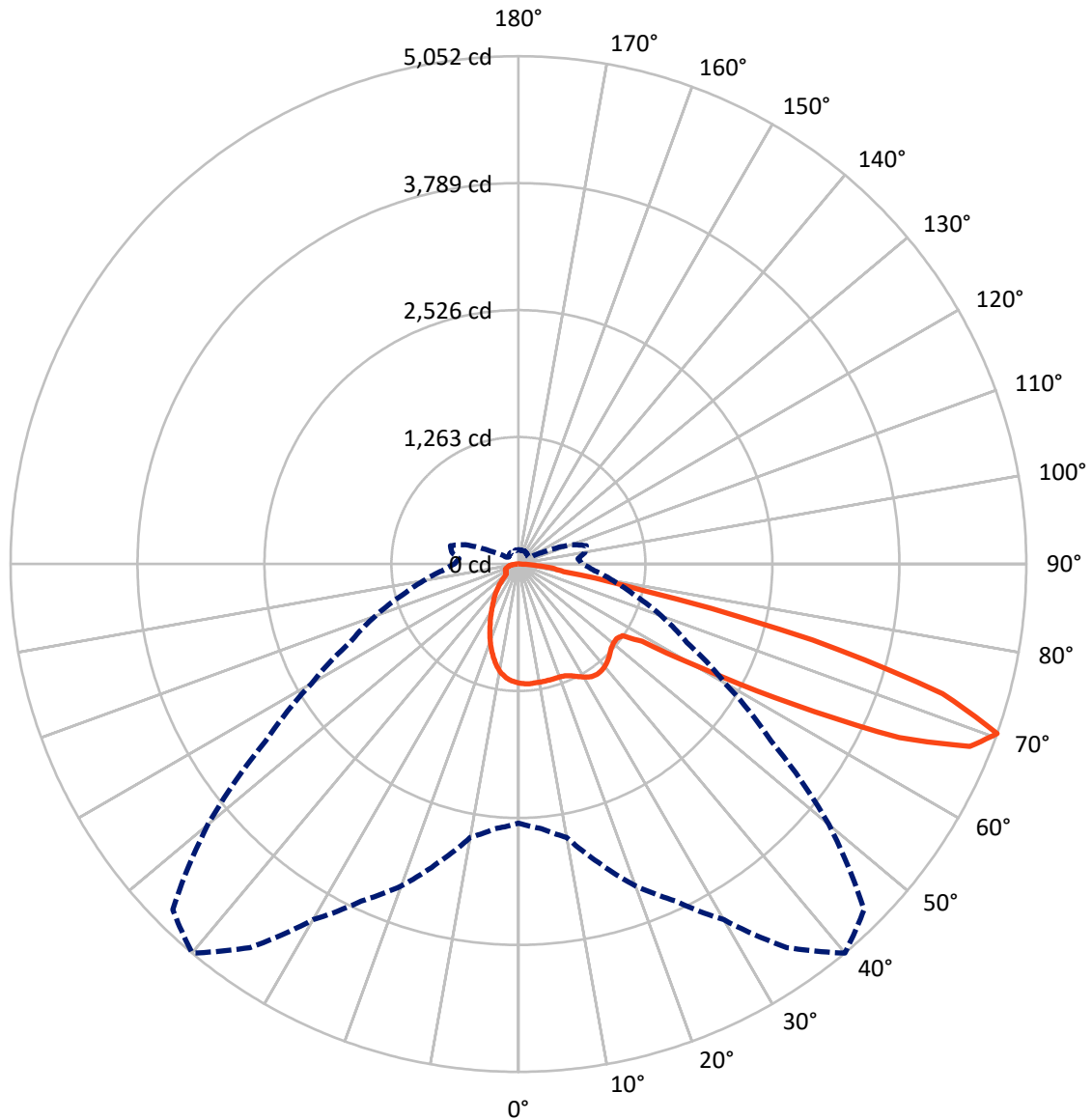


Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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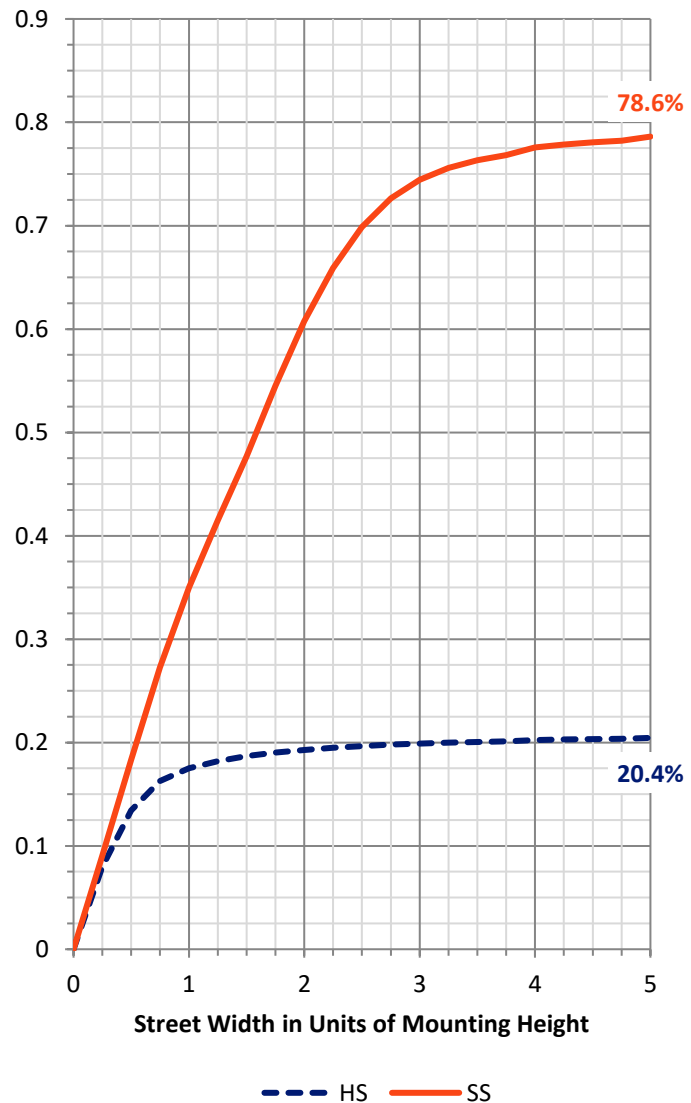
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1153.7	0.0	1153.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	4403.9	0.0	4403.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	5557.5	0.0	5557.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	2.0
10°-20°	303.3	5.5
20°-30°	449.0	8.1
30°-40°	567.4	10.2
40°-50°	641.7	11.5
50°-60°	913.1	16.4
60°-70°	1700.5	30.6
70°-80°	779.4	14.0
80°-90°	92.5	1.7
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°	5557.5	100.0
0°-180°	5557.5	100.0



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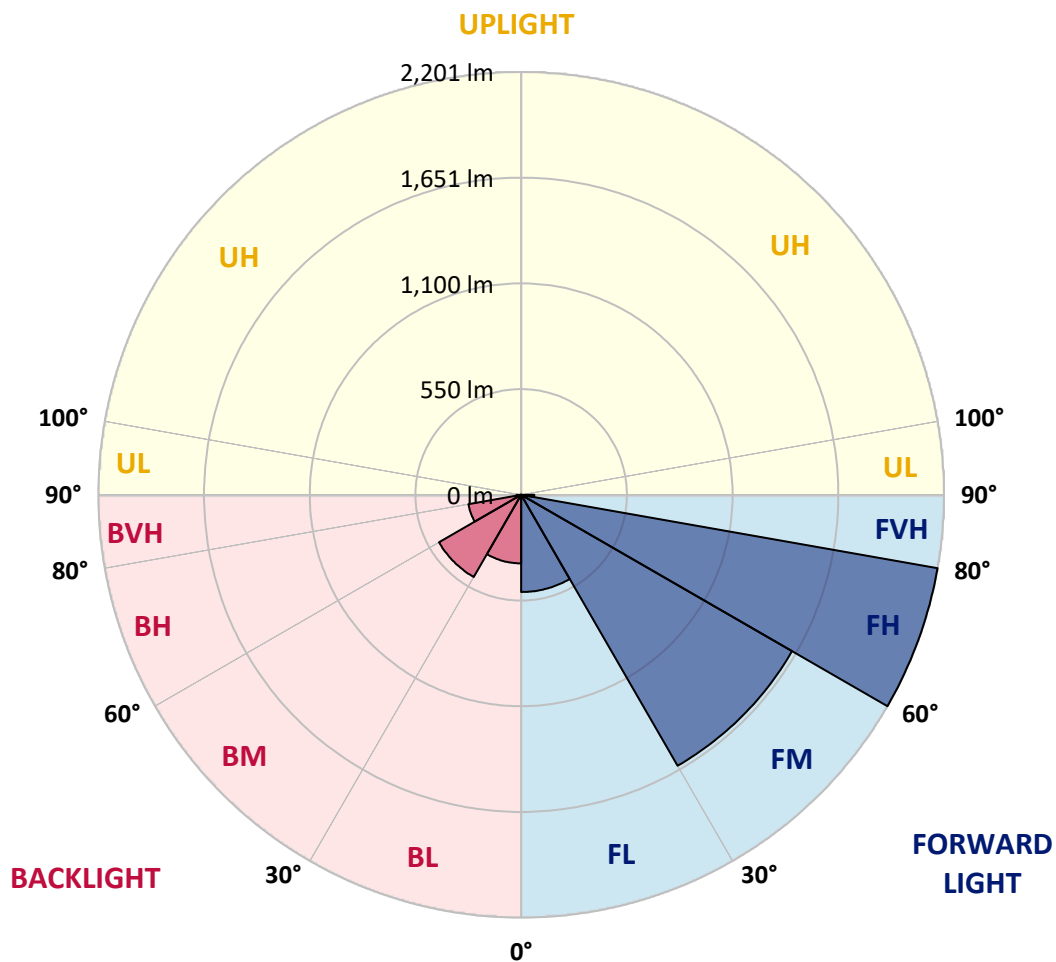
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.1	9.1			
FM	(30°-60°)	1628.2	29.3			
FH	(60°-80°)	2201.0	39.6			G2/5000
FVH	(80°-90°)	68.6	1.2			G1/100
BL	(0°-30°)	357.0	6.4	B1/500		
BM	(30°-60°)	493.9	8.9	B1/1000		
BH	(60°-80°)	278.9	5.0	B1/500		G1/500
BVH	(80°-90°)	23.9	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8
2.5°	1204.0	1207.2	1203.4	1202.8	1202.8	1202.1	1198.4	1197.8	1192.7	1193.4	1194.6
5°	1212.8	1214.1	1211.5	1210.9	1209.7	1207.2	1204.0	1200.3	1196.5	1192.7	1189.6
7.5°	1221.6	1220.3	1218.4	1218.4	1216.6	1212.8	1206.5	1201.5	1193.4	1189.0	1183.3
10°	1234.1	1232.2	1229.7	1228.5	1225.3	1219.7	1210.9	1204.0	1194.0	1185.2	1175.8
12.5°	1246.0	1245.4	1241.7	1239.8	1234.8	1229.1	1218.4	1207.8	1194.6	1180.8	1168.3
15°	1267.4	1264.9	1261.1	1257.3	1249.2	1241.7	1225.3	1212.8	1194.0	1175.8	1156.4
17.5°	1304.4	1300.0	1296.2	1288.1	1278.0	1264.9	1241.0	1219.7	1194.0	1167.7	1145.7
20°	1372.1	1362.7	1357.7	1347.0	1329.4	1305.6	1268.6	1234.1	1195.9	1162.0	1132.5
22.5°	1448.6	1442.3	1435.4	1428.5	1400.9	1366.4	1316.3	1264.9	1207.2	1159.5	1121.9
25°	1534.5	1526.4	1522.6	1510.7	1485.0	1445.5	1377.1	1305.6	1232.9	1169.5	1121.9
27.5°	1611.0	1608.5	1607.9	1594.1	1569.6	1523.2	1442.3	1356.4	1268.0	1190.2	1131.3
30°	1680.6	1678.1	1676.9	1669.3	1641.1	1585.9	1498.1	1401.6	1306.2	1219.1	1148.8
32.5°	1754.6	1746.5	1742.7	1728.3	1696.3	1631.7	1531.4	1431.0	1336.3	1247.3	1168.3
35°	1814.8	1807.9	1800.4	1779.7	1734.5	1658.0	1545.8	1441.1	1348.3	1263.0	1178.3
37.5°	1858.7	1851.8	1841.2	1814.8	1759.0	1666.8	1545.2	1437.9	1343.9	1260.5	1180.2
40°	1878.2	1871.3	1860.0	1826.7	1763.4	1661.8	1533.2	1423.5	1330.7	1247.3	1172.7
42.5°	1870.6	1865.6	1851.2	1819.2	1749.6	1639.2	1509.4	1396.5	1305.6	1226.0	1155.7
45°	1841.8	1838.0	1824.2	1790.4	1718.2	1602.9	1474.3	1362.7	1275.5	1199.6	1133.2
47.5°	1798.5	1797.3	1783.5	1750.2	1678.7	1566.5	1437.9	1329.4	1245.4	1173.9	1114.3
50°	1750.9	1744.6	1737.7	1707.0	1641.7	1535.1	1411.6	1308.7	1228.5	1164.5	1106.2
52.5°	1720.8	1718.9	1712.6	1685.0	1622.3	1516.9	1399.7	1301.2	1227.2	1162.6	1101.8
55°	1987.9	1992.3	1934.6	1814.8	1709.5	1567.1	1435.4	1339.5	1258.0	1192.7	1148.2
57.5°	2940.5	2921.0	2821.9	2584.3	2315.9	1961.6	1706.3	1551.4	1450.5	1461.8	1484.3
60°	3425.8	3422.1	3403.9	3311.7	3133.0	2863.3	2564.2	2221.2	2112.1	2124.0	2132.8
62.5°	3642.8	3648.4	3662.2	3627.8	3580.7	3502.3	3353.1	3215.1	3069.0	3014.5	2868.3
65°	3743.1	3753.2	3784.5	3804.0	3822.2	3835.9	3894.9	4056.7	4163.3	3963.9	3499.8
67.5°	3535.6	3583.9	3687.3	3788.3	3878.6	4007.1	4206.6	4582.2	4843.7	4598.5	3925.6
70°	2577.4	2643.2	2761.7	3074.0	3407.6	3699.2	4085.5	4657.4	5051.9	4862.5	4031.0
72.5°	1616.0	1634.2	1686.9	1801.6	2049.4	2423.7	3099.1	3957.0	4412.2	4261.1	3407.0
75°	1025.3	1031.6	1029.7	1056.0	1098.0	1179.6	1446.7	2337.2	3022.6	2786.8	1898.8
77.5°	610.8	620.2	624.0	632.1	652.2	681.0	703.0	795.2	1267.4	1230.4	689.2
80°	511.7	519.2	513.0	511.1	498.5	489.8	500.4	489.8	454.6	437.7	403.2
82.5°	270.9	270.3	268.4	286.6	323.6	352.4	374.4	369.4	334.2	284.7	241.4
85°	148.6	153.6	153.6	159.9	154.3	154.9	159.9	168.7	156.1	130.4	106.6
87.5°	12.5	19.4	15.7	19.4	26.3	18.8	18.2	18.2	15.7	11.3	10.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8
2.5°	1191.5	1190.2	1187.7	1185.8	1185.8	1182.7	1180.8	1179.6	1178.9	1176.4	1176.4
5°	1187.7	1183.3	1178.9	1175.8	1173.9	1170.8	1165.8	1163.3	1160.1	1157.6	1156.4
7.5°	1179.6	1171.4	1164.5	1159.5	1153.2	1148.2	1141.9	1136.3	1130.7	1128.1	1126.9
10°	1167.0	1156.4	1145.7	1136.3	1127.5	1118.7	1110.6	1102.4	1095.5	1090.5	1085.5
12.5°	1155.1	1138.8	1125.0	1111.2	1097.4	1086.8	1075.5	1063.6	1053.5	1044.1	1041.6
15°	1138.8	1120.0	1102.4	1085.5	1068.6	1051.0	1037.2	1024.0	1007.7	997.1	988.9
17.5°	1123.8	1101.2	1079.9	1059.8	1039.1	1020.9	1000.2	982.7	966.4	950.1	938.1
20°	1107.5	1083.0	1060.4	1037.8	1015.3	992.1	968.2	945.7	925.6	906.2	886.7
22.5°	1093.0	1067.9	1046.0	1021.5	996.5	970.1	942.5	914.3	891.1	866.0	843.4
25°	1084.2	1056.7	1034.1	1010.3	982.7	953.8	922.5	889.2	861.0	832.2	805.2
27.5°	1084.2	1048.5	1025.3	1001.5	973.3	942.5	908.0	871.7	839.7	807.7	774.5
30°	1093.7	1049.8	1018.4	993.3	964.5	931.2	893.0	854.7	819.6	782.0	750.0
32.5°	1102.4	1052.3	1013.4	981.4	948.2	915.6	876.7	835.9	797.0	761.3	727.4
35°	1108.1	1052.3	1004.0	963.2	925.6	893.6	855.4	814.6	775.1	740.0	708.6
37.5°	1108.7	1047.3	988.9	942.5	903.0	869.8	833.4	795.2	757.5	724.9	698.6
40°	1102.4	1037.2	973.9	920.6	879.2	845.3	812.1	777.6	743.7	716.8	694.2
42.5°	1091.1	1026.6	959.5	903.0	859.7	824.6	793.9	764.4	735.0	711.8	692.9
45°	1074.2	1012.1	946.3	892.4	849.7	812.7	782.6	758.2	733.1	713.6	694.8
47.5°	1059.2	1007.1	950.7	899.3	854.7	816.5	785.8	765.1	745.6	732.4	706.7
50°	1056.0	1004.6	952.6	904.9	859.7	820.9	793.9	783.2	777.6	769.4	729.9
52.5°	1047.3	1004.0	966.4	940.0	911.2	893.0	864.8	874.8	868.5	839.7	768.2
55°	1139.4	1152.0	1187.1	1237.3	1283.7	1294.3	1291.2	1279.3	1215.9	1046.0	860.4
57.5°	1566.5	1637.3	1703.8	1733.3	1729.5	1696.3	1672.5	1624.2	1532.6	1325.7	1042.2
60°	2159.7	2171.0	2135.9	2083.8	1996.0	1922.7	1844.3	1754.0	1621.0	1418.5	1153.9
62.5°	2705.9	2554.2	2398.0	2251.3	2117.7	2001.1	1891.9	1765.9	1592.8	1381.5	1139.4
65°	3091.6	2770.5	2524.1	2313.4	2124.6	1961.6	1825.5	1661.8	1466.8	1276.1	1056.0
67.5°	3290.4	2798.1	2420.0	2126.5	1858.7	1633.0	1451.7	1292.4	1147.6	1064.2	924.3
70°	3068.4	2374.8	1848.1	1516.3	1195.9	958.8	757.5	635.9	593.9	672.9	699.8
72.5°	2286.4	1545.8	1099.3	850.3	651.6	519.2	398.2	312.9	254.6	267.1	346.8
75°	1081.1	667.2	471.6	358.7	285.3	236.4	193.1	176.8	148.0	122.9	115.4
77.5°	420.8	306.6	253.3	185.6	131.7	106.0	90.3	87.2	89.0	86.5	85.3
80°	320.4	217.0	136.1	99.7	85.9	75.9	67.1	64.6	65.8	69.0	72.1
82.5°	178.7	111.6	82.8	72.1	64.6	55.2	50.2	46.4	47.0	50.8	57.7
85°	69.0	53.9	49.5	47.7	44.5	35.7	30.7	31.4	35.7	42.6	42.6
87.5°	7.5	7.5	10.0	7.5	7.5	7.5	6.9	8.2	8.8	11.3	13.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8	1185.8
2.5°	1175.2	1175.2	1175.2	1173.9	1174.6	1172.0	1172.0	1170.2	1173.3	1171.4	1170.8
5°	1157.0	1156.4	1153.9	1153.9	1153.9	1153.9	1155.7	1150.7	1154.5	1154.5	1152.6
7.5°	1126.3	1126.3	1119.4	1123.1	1121.9	1123.8	1126.3	1123.8	1127.5	1130.0	1128.1
10°	1083.6	1083.6	1078.0	1082.4	1080.5	1084.9	1089.3	1086.8	1089.3	1093.0	1094.3
12.5°	1036.6	1034.1	1029.1	1030.9	1030.9	1033.5	1035.3	1038.5	1041.6	1046.6	1049.1
15°	982.0	978.3	972.0	972.0	968.2	969.5	973.3	974.5	980.8	987.7	995.8
17.5°	926.2	916.8	909.9	901.8	895.5	900.5	904.9	908.0	913.1	923.7	929.4
20°	873.5	854.7	841.6	830.9	824.0	827.1	832.8	836.5	840.9	843.4	845.3
22.5°	821.5	800.2	782.0	768.8	757.5	760.7	758.2	756.3	759.4	751.3	750.6
25°	776.3	751.3	726.8	711.1	697.3	692.9	679.8	676.6	667.9	661.0	655.9
27.5°	743.7	711.1	684.2	666.0	644.0	627.7	610.8	593.9	584.5	573.2	567.5
30°	718.0	683.5	651.6	620.8	592.0	566.9	544.3	522.4	507.3	491.0	480.4
32.5°	694.2	662.2	623.3	581.3	542.4	514.2	484.7	459.7	435.8	414.5	398.8
35°	677.9	642.1	592.6	541.2	497.3	464.1	432.7	397.0	368.1	340.5	323.6
37.5°	669.1	625.2	564.4	507.3	458.4	420.8	381.9	340.5	305.4	279.7	254.0
40°	662.2	608.3	539.3	477.2	425.8	380.6	335.5	286.6	247.7	220.7	200.7
42.5°	654.7	589.5	517.4	453.4	396.3	343.6	289.1	237.0	200.0	181.2	172.5
45°	646.5	573.2	496.7	430.8	367.5	303.5	240.8	192.5	170.6	164.3	164.3
47.5°	644.7	562.5	481.6	408.9	334.9	257.1	196.3	166.2	159.9	161.2	163.7
50°	652.2	559.4	468.4	383.2	291.6	208.2	166.2	156.1	157.4	161.2	164.9
52.5°	670.4	561.9	454.6	347.4	240.2	171.8	153.6	153.0	156.8	162.4	166.2
55°	701.1	561.9	428.3	294.1	191.9	154.3	149.2	151.8	156.8	161.8	164.9
57.5°	766.9	556.2	381.9	235.2	160.5	148.0	148.0	151.1	155.5	160.5	163.0
60°	845.3	548.7	316.7	181.9	144.9	143.0	147.4	151.1	154.9	159.3	161.8
62.5°	850.3	529.3	250.8	150.5	136.7	139.8	146.7	151.8	153.0	156.1	159.3
65°	781.4	461.5	199.4	134.8	132.9	138.0	144.9	148.6	149.2	150.5	153.6
67.5°	684.2	376.3	161.2	127.3	129.2	134.8	138.6	141.7	143.6	146.7	147.4
70°	561.9	302.3	138.0	119.8	121.7	127.9	131.1	134.2	138.0	141.7	139.8
72.5°	398.2	235.2	121.0	111.6	114.1	119.8	123.5	126.0	129.2	132.9	130.4
75°	169.3	164.3	104.7	101.0	104.7	108.5	112.3	116.0	119.1	121.0	121.0
77.5°	86.5	96.6	90.3	90.3	92.8	96.6	99.7	103.5	105.4	107.2	109.7
80°	73.4	74.6	75.9	78.4	80.9	84.7	87.8	90.9	91.6	92.2	93.4
82.5°	60.8	63.3	64.6	68.4	70.2	71.5	73.4	73.4	74.6	74.6	72.7
85°	43.9	47.0	48.9	49.5	48.9	49.5	50.2	51.4	54.6	54.6	52.0
87.5°	12.5	11.9	15.1	15.7	16.9	19.4	21.9	26.3	27.6	28.8	28.8
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):

	165°	170°	175°	180°
0°	1185.8	1185.8	1185.8	1185.8
2.5°	1170.2	1171.4	1168.9	1169.5
5°	1152.6	1155.1	1152.0	1155.7
7.5°	1130.0	1133.8	1133.2	1132.5
10°	1097.4	1102.4	1102.4	1104.3
12.5°	1056.0	1059.2	1061.7	1062.9
15°	1000.2	1005.9	1009.0	1009.0
17.5°	933.1	936.9	938.8	936.3
20°	847.8	846.6	847.2	840.9
22.5°	749.4	751.3	745.6	746.9
25°	652.8	649.7	652.2	648.4
27.5°	559.4	560.0	553.1	556.2
30°	470.3	467.2	458.4	462.8
32.5°	384.4	376.3	366.9	361.2
35°	303.5	291.0	286.6	284.7
37.5°	238.3	224.5	220.1	215.1
40°	189.4	184.4	182.5	183.7
42.5°	169.9	169.9	171.2	171.8
45°	164.9	166.8	168.7	169.3
47.5°	165.6	167.4	169.9	170.6
50°	166.8	168.7	170.6	171.2
52.5°	167.4	167.4	168.7	169.3
55°	166.2	165.6	166.2	166.8
57.5°	163.7	162.4	163.0	164.9
60°	162.4	160.5	161.8	163.0
62.5°	159.3	158.7	159.9	160.5
65°	152.4	153.0	154.9	154.9
67.5°	146.1	146.7	147.4	148.0
70°	138.6	139.2	140.5	141.1
72.5°	129.8	132.3	134.2	136.7
75°	122.9	125.4	129.2	131.7
77.5°	111.0	112.9	117.3	120.4
80°	94.1	93.4	94.1	95.9
82.5°	72.1	72.1	71.5	70.9
85°	50.8	50.2	48.3	48.3
87.5°	27.6	27.0	26.3	25.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)