

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: P181509

Luminaire Tested: **ICS-E04-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181509
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E04-LED-E1-T3
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11102.7 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

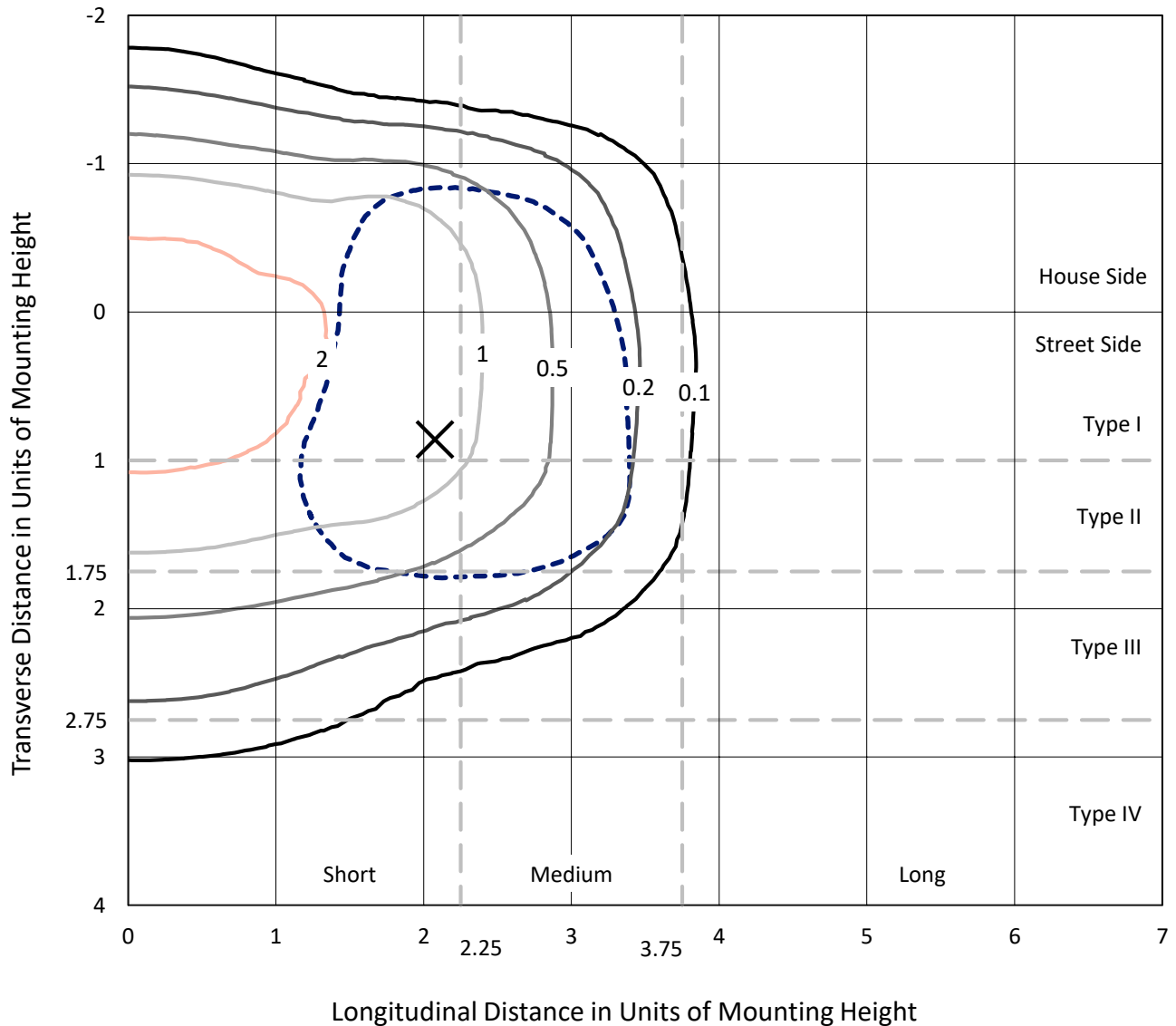
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

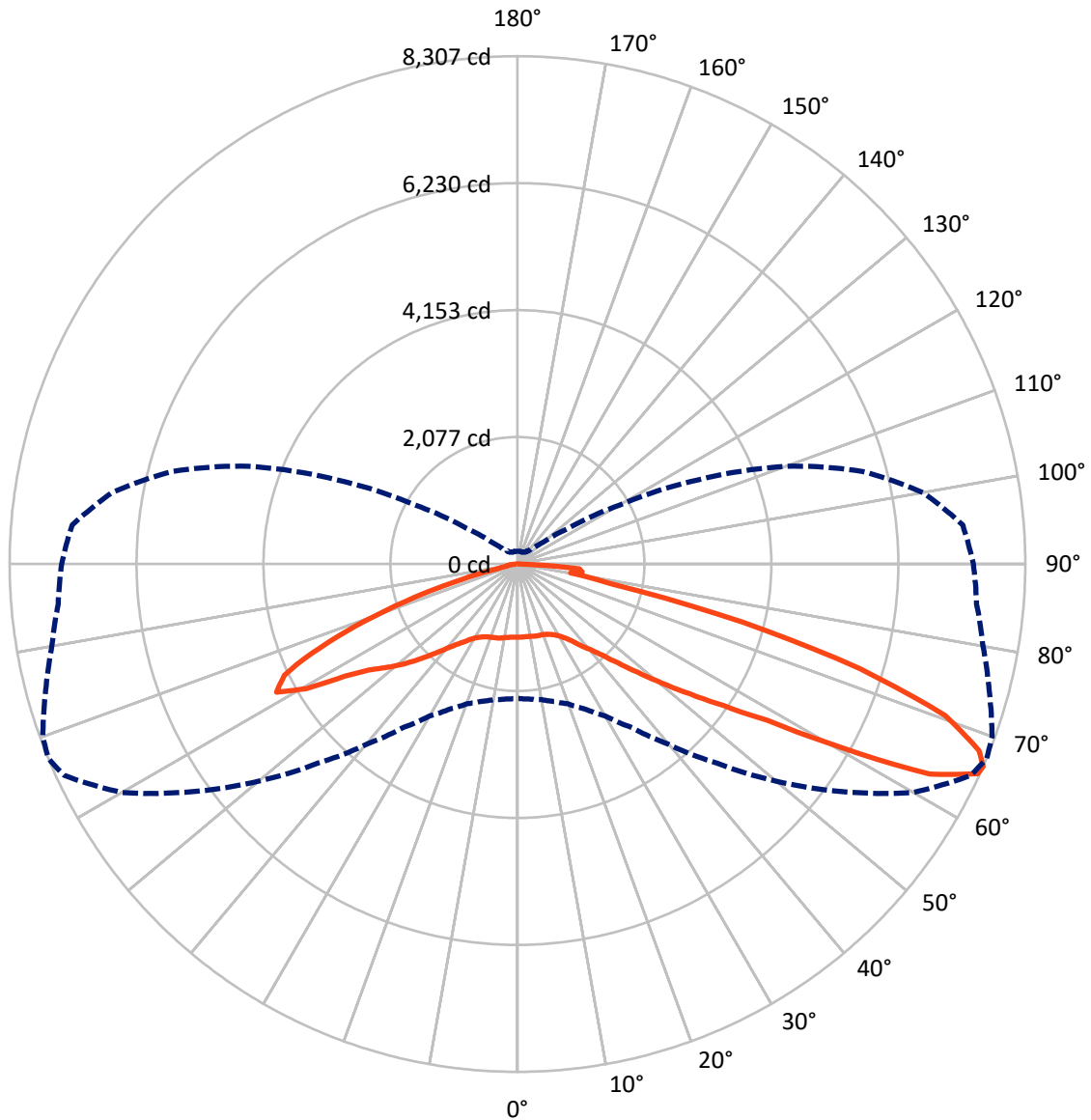
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3834.1	0.0	3834.1
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	7268.6	0.0	7268.6
	% Fixture	65.5	0.0	65.5
Total	Lumens	11102.7	0.0	11102.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.0
10°-20°	338.2	3.0
20°-30°	581.3	5.2
30°-40°	943.8	8.5
40°-50°	1575.7	14.2
50°-60°	2481.1	22.3
60°-70°	3383.3	30.5
70°-80°	1464.6	13.2
80°-90°	220.2	2.0
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°	11102.7	100.0
0°-180°	11102.7	100.0

Coefficient of Utilization



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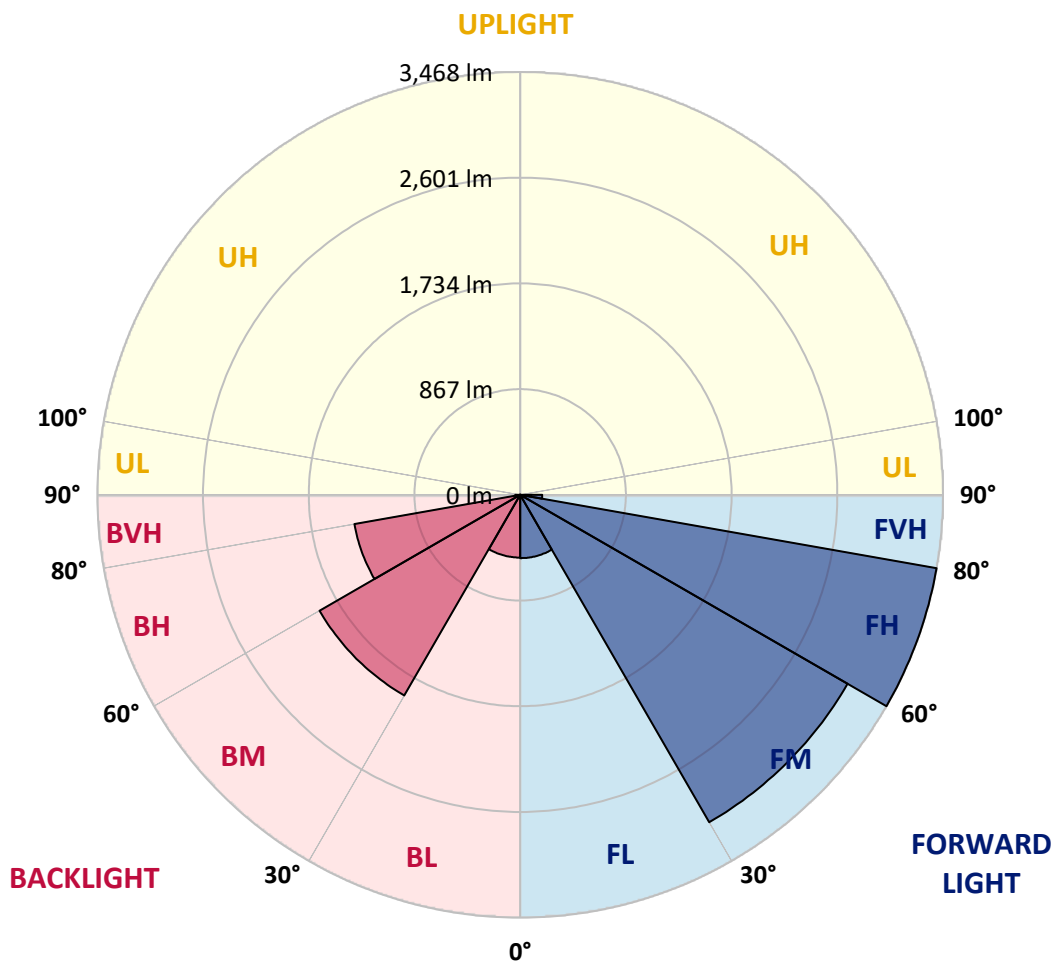
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.4	4.7			
FM (30°-60°)	3100.6	27.9			
FH (60°-80°)	3467.8	31.2			G2/5000
FVH (80°-90°)	180.8	1.6			G2/225
BL (0°-30°)	514.7	4.6	B2/1000		
BM (30°-60°)	1900.0	17.1	B2/2500		
BH (60°-80°)	1380.1	12.4	B3/2500		G3/2500
BVH (80°-90°)	39.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5
2.5°	1201.3	1206.1	1201.3	1202.5	1203.7	1202.5	1201.3	1201.3	1197.7	1200.1	1202.5
5°	1196.5	1200.1	1198.9	1200.1	1201.3	1200.1	1198.9	1200.1	1197.7	1198.9	1202.5
7.5°	1190.5	1189.3	1190.5	1192.9	1195.3	1195.3	1195.3	1196.5	1195.3	1195.3	1198.9
10°	1172.5	1173.7	1176.1	1179.7	1180.9	1184.5	1184.5	1188.1	1189.3	1191.7	1196.5
12.5°	1149.7	1150.9	1153.3	1155.7	1161.7	1167.7	1167.7	1176.1	1179.7	1185.7	1194.1
15°	1132.9	1134.1	1136.5	1138.9	1143.7	1149.7	1153.3	1162.9	1168.9	1179.7	1191.7
17.5°	1142.5	1141.3	1143.7	1144.9	1144.9	1149.7	1149.7	1156.9	1164.1	1173.7	1189.3
20°	1170.1	1170.1	1172.5	1172.5	1171.3	1173.7	1168.9	1168.9	1170.1	1174.9	1185.7
22.5°	1197.7	1196.5	1201.3	1203.7	1204.9	1208.5	1203.7	1202.5	1196.5	1192.9	1196.5
25°	1224.1	1222.9	1228.9	1232.5	1238.5	1242.1	1242.1	1242.1	1237.3	1231.3	1227.7
27.5°	1264.9	1264.9	1270.9	1274.5	1279.3	1286.5	1290.1	1290.1	1291.3	1282.9	1276.9
30°	1333.3	1334.5	1335.7	1340.5	1345.3	1347.7	1352.5	1356.1	1359.7	1354.9	1345.3
32.5°	1414.9	1407.7	1407.7	1414.9	1420.9	1428.1	1430.5	1435.3	1442.5	1438.9	1437.7
35°	1512.1	1509.7	1507.3	1509.7	1516.9	1525.3	1534.9	1543.3	1538.5	1545.7	1542.1
37.5°	1656.1	1658.5	1659.7	1659.7	1658.5	1660.9	1665.7	1674.1	1671.7	1674.1	1678.9
40°	1893.7	1885.3	1876.9	1878.1	1866.1	1868.5	1849.3	1857.7	1858.9	1850.5	1854.1
42.5°	2131.3	2136.1	2139.7	2149.3	2140.9	2136.1	2118.1	2118.1	2108.5	2100.1	2097.7
45°	2388.1	2397.7	2398.9	2418.1	2410.9	2426.5	2439.7	2436.1	2420.5	2419.3	2402.5
47.5°	2593.3	2608.9	2625.7	2648.5	2666.5	2701.3	2742.1	2762.6	2774.6	2784.2	2765.0
50°	2746.9	2754.1	2797.4	2833.4	2873.0	2930.6	2987.0	3060.2	3119.0	3146.6	3173.0
52.5°	2829.8	2847.8	2894.6	2951.0	3020.6	3107.0	3198.2	3314.6	3415.4	3482.6	3542.6
55°	2847.8	2865.8	2918.6	2990.6	3085.4	3201.8	3332.6	3491.0	3642.2	3771.8	3897.8
57.5°	2797.4	2817.8	2874.2	2957.0	3068.6	3210.2	3374.6	3582.2	3791.0	4001.0	4187.0
60°	2704.9	2730.1	2781.8	2863.4	2987.0	3146.6	3343.4	3603.8	3896.6	4218.2	4574.6
62.5°	2552.5	2578.9	2626.9	2716.9	2844.2	3020.6	3248.6	3572.6	3986.6	4493.0	5125.5
65°	2307.7	2319.7	2378.5	2469.7	2582.5	2777.0	3027.8	3419.0	3957.8	4662.3	5533.5
66°	2197.3	2217.7	2253.7	2326.9	2434.9	2617.3	2869.4	3266.6	3848.6	4603.5	5522.7
67.5°	2024.5	2040.1	2064.1	2113.3	2179.3	2313.7	2552.5	2928.2	3515.0	4305.8	5293.5
70°	1636.9	1644.1	1676.5	1693.3	1716.1	1760.5	1846.9	2062.9	2520.1	3263.0	4272.2
72.5°	1116.1	1136.5	1171.3	1219.3	1281.7	1341.7	1382.5	1410.1	1508.5	1946.5	2846.6
75°	818.4	840.0	884.4	948.1	1057.3	1182.1	1311.7	1371.7	1330.9	1274.5	1585.3
77.5°	475.2	504.0	541.2	602.4	703.2	868.8	1090.9	1287.7	1420.9	1429.3	1357.3
80°	200.4	204.0	226.8	258.0	320.4	436.8	609.6	892.8	1188.1	1387.3	1434.1
82.5°	45.6	56.4	72.0	85.2	104.4	144.0	213.6	355.2	642.0	1006.9	1312.9
85°	16.8	16.8	22.8	33.6	38.4	43.2	56.4	90.0	153.6	283.2	590.4
87.5°	0.0	1.2	2.4	2.4	4.8	6.0	9.6	13.2	12.0	10.8	36.0
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5
2.5°	1200.1	1198.9	1196.5	1196.5	1196.5	1196.5	1194.1	1195.3	1192.9	1194.1	1194.1
5°	1198.9	1198.9	1197.7	1195.3	1196.5	1196.5	1197.7	1195.3	1195.3	1196.5	1195.3
7.5°	1198.9	1197.7	1197.7	1197.7	1198.9	1197.7	1198.9	1198.9	1198.9	1200.1	1200.1
10°	1198.9	1198.9	1201.3	1202.5	1202.5	1203.7	1207.3	1207.3	1208.5	1209.7	1212.1
12.5°	1200.1	1204.9	1208.5	1212.1	1213.3	1215.7	1221.7	1221.7	1224.1	1227.7	1228.9
15°	1201.3	1208.5	1215.7	1218.1	1220.5	1225.3	1231.3	1233.7	1237.3	1240.9	1243.3
17.5°	1200.1	1209.7	1218.1	1221.7	1225.3	1231.3	1238.5	1240.9	1245.7	1250.5	1255.3
20°	1198.9	1212.1	1225.3	1230.1	1234.9	1243.3	1252.9	1258.9	1263.7	1270.9	1275.7
22.5°	1206.1	1221.7	1239.7	1246.9	1255.3	1266.1	1279.3	1286.5	1292.5	1299.7	1303.3
25°	1228.9	1240.9	1262.5	1274.5	1285.3	1303.3	1321.3	1329.7	1336.9	1342.9	1344.1
27.5°	1267.3	1270.9	1297.3	1312.9	1328.5	1357.3	1378.9	1384.9	1398.1	1402.9	1401.7
30°	1329.7	1323.7	1345.3	1369.3	1392.1	1431.7	1458.1	1473.7	1485.7	1485.7	1476.1
32.5°	1419.7	1410.1	1416.1	1443.7	1470.1	1527.7	1558.9	1579.3	1587.7	1585.3	1564.9
35°	1537.3	1531.3	1527.7	1549.3	1591.3	1658.5	1699.3	1710.1	1723.3	1720.9	1694.5
37.5°	1676.5	1671.7	1671.7	1696.9	1737.7	1837.3	1881.7	1888.9	1887.7	1868.5	1819.3
40°	1840.9	1838.5	1827.7	1842.1	1876.9	2006.5	2066.5	2076.1	2062.9	2031.7	1974.1
42.5°	2077.3	2062.9	2029.3	2037.7	2064.1	2190.1	2268.1	2294.5	2281.3	2250.1	2156.5
45°	2385.7	2370.1	2313.7	2306.5	2320.9	2431.3	2532.1	2538.1	2535.7	2496.1	2385.7
47.5°	2748.1	2724.1	2664.1	2644.9	2640.1	2742.1	2839.4	2849.0	2843.0	2784.2	2636.5
50°	3140.6	3105.8	3066.2	3053.0	3033.8	3107.0	3205.4	3206.6	3182.6	3101.0	2963.0
52.5°	3559.4	3547.4	3540.2	3527.0	3518.6	3582.2	3642.2	3606.2	3570.2	3485.0	3365.0
55°	3981.8	4031.0	4081.4	4086.2	4100.6	4169.0	4167.8	4069.4	4043.0	3996.2	3877.4
57.5°	4430.6	4613.1	4771.5	4820.7	4868.7	4995.9	4983.9	4886.7	4853.1	4795.5	4697.1
60°	5041.5	5533.5	5990.7	6099.9	6175.5	6327.9	6313.5	6163.5	6233.1	6228.3	6101.1
62.5°	5897.1	6715.6	7400.8	7568.8	7621.6	7638.4	7547.2	7385.2	7453.6	7530.4	7139.2
65°	6476.8	7439.2	8142.4	8272.0	8279.3	8078.8	7876.0	7685.2	7668.4	7602.4	7043.2
66°	6490.0	7475.2	8180.8	8306.9	8262.4	7988.8	7732.0	7540.0	7457.2	7312.0	6732.4
67.5°	6257.1	7250.8	8010.4	8143.6	8046.4	7658.8	7304.8	7057.6	6895.6	6660.4	6149.1
70°	5255.1	6240.3	7176.4	7424.8	7456.0	6877.6	6386.7	6096.3	5877.9	5555.1	5114.7
72.5°	3907.4	4797.9	5623.5	5861.1	5982.3	5520.3	5106.3	4885.5	4586.6	4247.0	3933.8
75°	2449.3	3078.2	3631.4	3798.2	3684.2	3326.6	3078.2	2985.8	2691.7	2488.9	2346.1
77.5°	1400.5	1597.3	1641.7	1578.1	1443.7	1105.3	786.0	582.0	505.2	559.2	616.8
80°	1366.9	1252.9	998.5	878.4	795.6	547.2	321.6	220.8	183.6	188.4	204.0
82.5°	1480.9	1588.9	1308.1	1066.9	895.2	604.8	333.6	177.6	120.0	141.6	159.6
85°	962.5	1339.3	1206.1	1016.5	823.2	517.2	274.8	92.4	61.2	80.4	110.4
87.5°	97.2	106.8	91.2	123.6	92.4	43.2	21.6	13.2	12.0	14.4	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°	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5
2.5°	1195.3	1195.3	1196.5	1197.7	1198.9	1200.1	1200.1	1200.1	1200.1	1202.5	1201.3
5°	1197.7	1200.1	1202.5	1203.7	1206.1	1206.1	1209.7	1208.5	1208.5	1212.1	1213.3
7.5°	1202.5	1206.1	1210.9	1209.7	1214.5	1213.3	1215.7	1215.7	1212.1	1213.3	1210.9
10°	1213.3	1218.1	1220.5	1216.9	1218.1	1213.3	1212.1	1206.1	1198.9	1195.3	1190.5
12.5°	1231.3	1236.1	1236.1	1230.1	1222.9	1212.1	1203.7	1190.5	1179.7	1173.7	1167.7
15°	1246.9	1251.7	1250.5	1240.9	1230.1	1213.3	1201.3	1185.7	1170.1	1160.5	1154.5
17.5°	1258.9	1261.3	1257.7	1244.5	1232.5	1216.9	1204.9	1188.1	1170.1	1158.1	1147.3
20°	1276.9	1274.5	1266.1	1249.3	1236.1	1221.7	1212.1	1197.7	1177.3	1161.7	1146.1
22.5°	1303.3	1293.7	1278.1	1260.1	1246.9	1233.7	1224.1	1208.5	1188.1	1168.9	1150.9
25°	1338.1	1318.9	1297.3	1278.1	1266.1	1251.7	1240.9	1224.1	1202.5	1180.9	1159.3
27.5°	1388.5	1354.9	1327.3	1310.5	1297.3	1279.3	1266.1	1244.5	1221.7	1196.5	1172.5
30°	1444.9	1399.3	1372.9	1359.7	1345.3	1326.1	1305.7	1278.1	1251.7	1224.1	1195.3
32.5°	1518.1	1462.9	1437.7	1424.5	1405.3	1381.3	1357.3	1326.1	1288.9	1252.9	1218.1
35°	1614.1	1557.7	1531.3	1510.9	1484.5	1453.3	1418.5	1376.5	1326.1	1278.1	1233.7
37.5°	1717.3	1656.1	1630.9	1609.3	1569.7	1528.9	1479.7	1418.5	1350.1	1286.5	1231.3
40°	1848.1	1791.7	1759.3	1722.1	1675.3	1604.5	1527.7	1438.9	1351.3	1273.3	1208.5
42.5°	2013.7	1957.3	1909.3	1850.5	1768.9	1659.7	1550.5	1435.3	1329.7	1240.9	1171.3
45°	2233.3	2164.9	2082.1	1978.9	1846.9	1694.5	1551.7	1412.5	1288.9	1190.5	1116.1
47.5°	2502.1	2397.7	2262.1	2088.1	1898.5	1704.1	1532.5	1366.9	1225.3	1118.5	1035.7
50°	2821.4	2656.9	2433.7	2178.1	1924.9	1689.7	1484.5	1298.5	1135.3	1021.3	922.9
52.5°	3186.2	2917.4	2588.5	2242.9	1923.7	1641.7	1402.9	1195.3	1017.7	890.4	796.8
55°	3614.6	3215.0	2748.1	2290.9	1890.1	1552.9	1278.1	1050.1	872.4	754.8	668.4
57.5°	4242.2	3697.4	3026.6	2365.3	1822.9	1416.1	1108.9	876.0	720.0	608.4	535.2
60°	5389.5	4502.6	3528.2	2515.3	1719.7	1215.7	910.8	690.0	559.2	469.2	420.0
62.5°	6253.5	5125.5	3799.4	2481.7	1512.1	968.5	675.6	502.8	411.6	350.4	319.2
65°	6129.9	4932.3	3510.2	2137.3	1185.7	682.8	448.8	342.0	283.2	254.4	236.4
66°	5850.3	4680.3	3259.4	1923.7	1024.9	567.6	369.6	286.8	243.6	223.2	211.2
67.5°	5319.9	4212.2	2810.6	1576.9	787.2	411.6	278.4	226.8	198.0	189.6	181.2
70°	4422.2	3359.0	1972.9	918.0	402.0	229.2	176.4	158.4	151.2	150.0	147.6
72.5°	3389.0	2377.3	1161.7	434.4	208.8	152.4	136.8	130.8	128.4	128.4	129.6
75°	2077.3	1335.7	513.6	212.4	146.4	128.4	121.2	118.8	117.6	118.8	117.6
77.5°	693.6	424.8	219.6	160.8	133.2	118.8	114.0	111.6	111.6	111.6	111.6
80°	212.4	184.8	168.0	148.8	126.0	112.8	105.6	104.4	105.6	106.8	103.2
82.5°	159.6	151.2	141.6	132.0	114.0	100.8	98.4	98.4	98.4	94.8	90.0
85°	117.6	116.4	96.0	90.0	84.0	84.0	84.0	84.0	80.4	74.4	69.6
87.5°	21.6	20.4	21.6	22.8	33.6	36.0	36.0	38.4	42.0	39.6	39.6
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):

	160°	165°	170°	175°	180°
0°	1196.5	1196.5	1196.5	1196.5	1196.5
2.5°	1201.3	1200.1	1203.7	1201.3	1202.5
5°	1212.1	1210.9	1213.3	1210.9	1214.5
7.5°	1208.5	1206.1	1204.9	1206.1	1207.3
10°	1183.3	1180.9	1179.7	1178.5	1179.7
12.5°	1161.7	1156.9	1156.9	1154.5	1155.7
15°	1146.1	1142.5	1141.3	1138.9	1140.1
17.5°	1138.9	1132.9	1130.5	1128.1	1128.1
20°	1134.1	1126.9	1123.3	1120.9	1119.7
22.5°	1134.1	1123.3	1118.5	1116.1	1114.9
25°	1138.9	1125.7	1118.5	1114.9	1113.7
27.5°	1148.5	1131.7	1123.3	1118.5	1118.5
30°	1165.3	1143.7	1131.7	1125.7	1124.5
32.5°	1182.1	1153.3	1136.5	1129.3	1126.9
35°	1190.5	1153.3	1132.9	1120.9	1118.5
37.5°	1180.9	1137.7	1112.5	1094.5	1090.9
40°	1150.9	1105.3	1077.7	1060.9	1058.5
42.5°	1111.3	1066.9	1034.5	1022.5	1018.9
45°	1057.3	1004.5	972.1	955.3	956.5
47.5°	964.9	910.8	882.0	866.4	868.8
50°	855.6	802.8	777.6	760.8	764.4
52.5°	735.6	687.6	663.6	655.2	652.8
55°	609.6	572.4	555.6	546.0	542.4
57.5°	494.4	468.0	456.0	444.0	445.2
60°	390.0	376.8	373.2	360.0	358.8
62.5°	307.2	298.8	295.2	285.6	286.8
65°	232.8	230.4	232.8	226.8	229.2
66°	210.0	211.2	211.2	207.6	210.0
67.5°	181.2	183.6	187.2	183.6	186.0
70°	150.0	152.4	154.8	154.8	154.8
72.5°	130.8	133.2	134.4	134.4	134.4
75°	120.0	121.2	122.4	120.0	120.0
77.5°	112.8	112.8	110.4	109.2	108.0
80°	102.0	100.8	97.2	94.8	94.8
82.5°	85.2	82.8	80.4	76.8	76.8
85°	64.8	62.4	60.0	55.2	52.8
87.5°	33.6	34.8	33.6	27.6	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)