

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: P181454

Luminaire Tested: **ICM-F04-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181454
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: ICM-F04-LED-E1-T3
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9473 lumens
Efficiency: N/A
Efficacy: 92.7 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

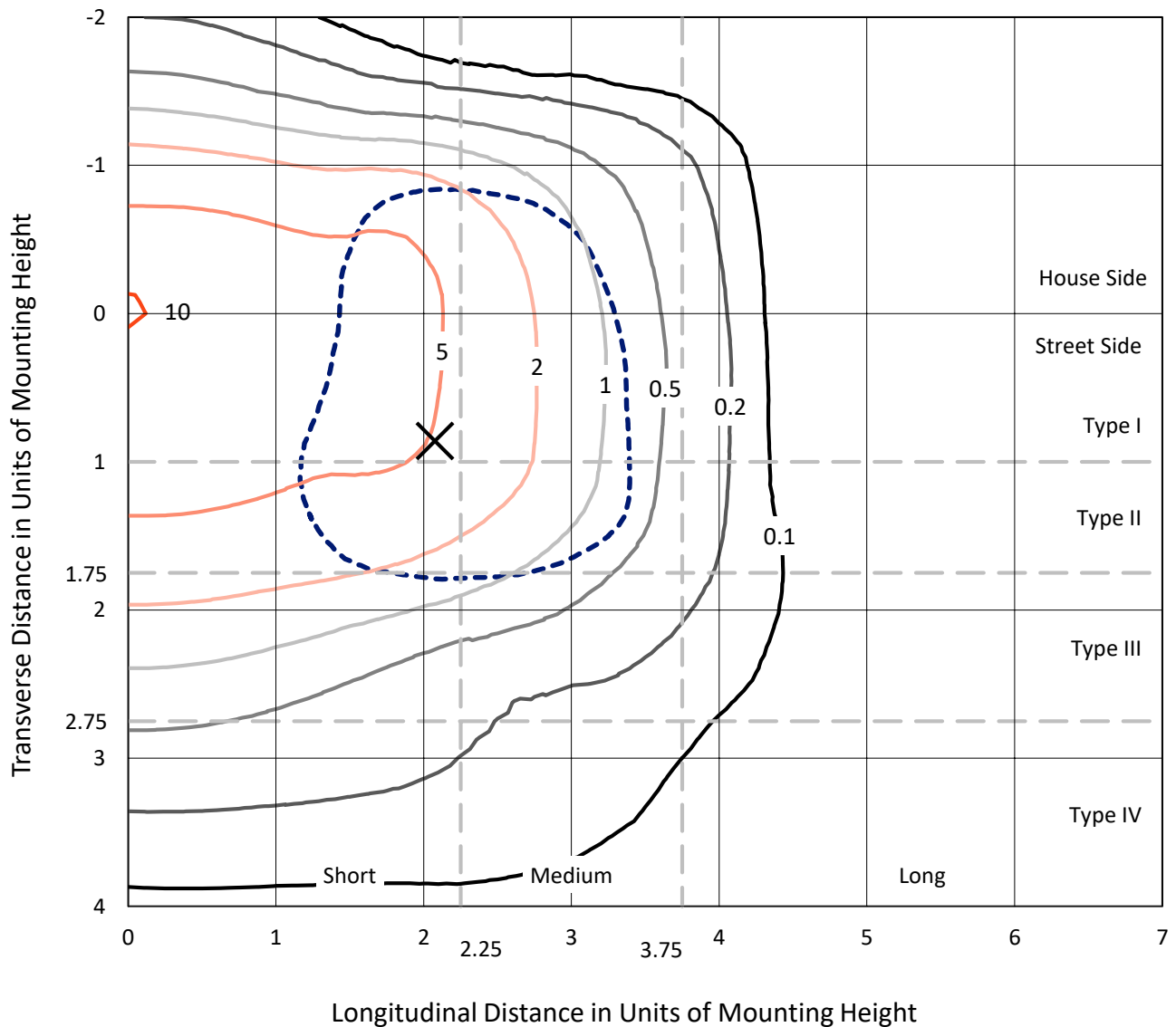
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

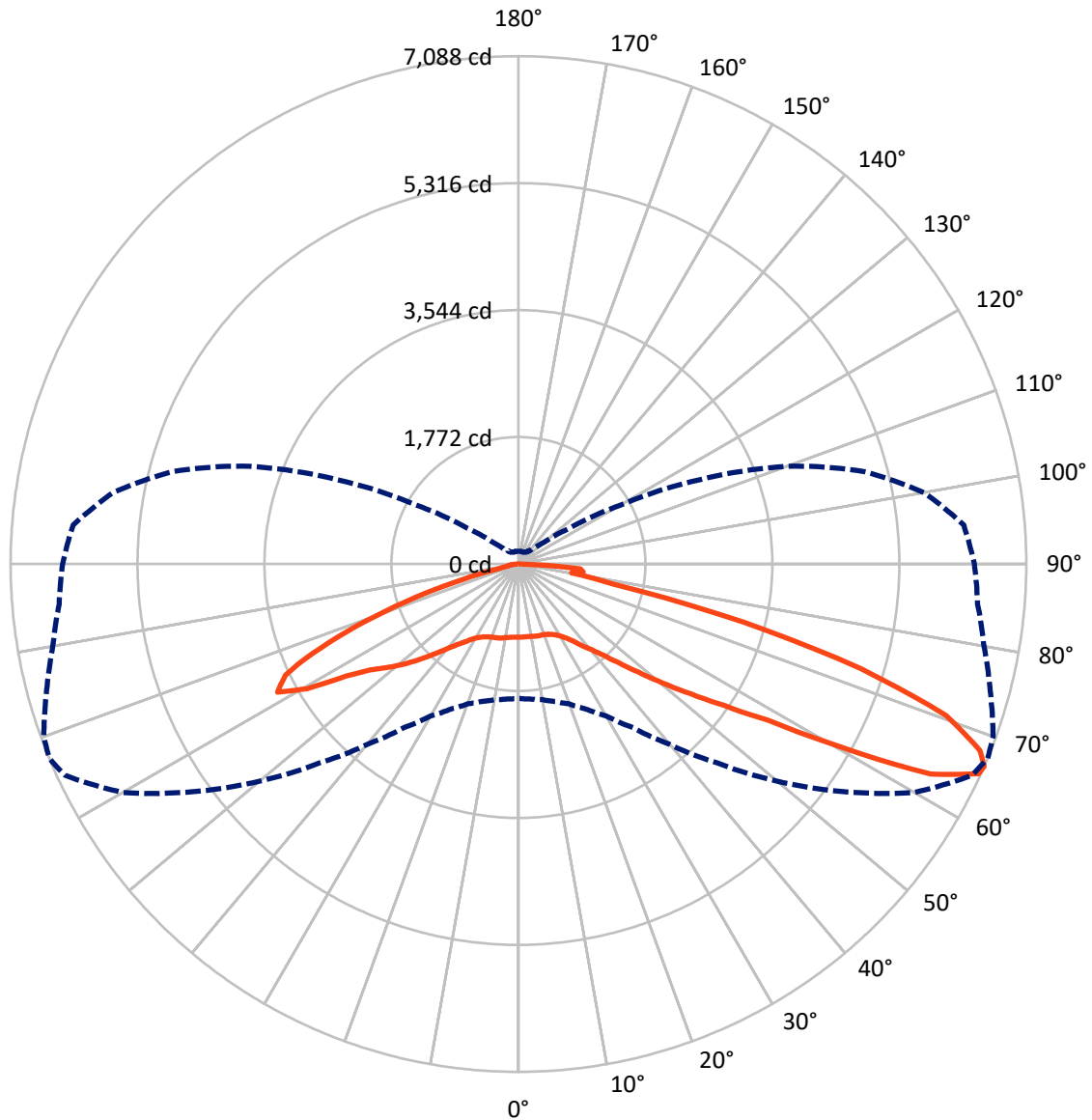
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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	3271.3	0.0	3271.3
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	6201.7	0.0	6201.7
	% Fixture	65.5	0.0	65.5
Total	Lumens	9473.0	0.0	9473.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	1.0
10°-20°	288.6	3.0
20°-30°	495.9	5.2
30°-40°	805.3	8.5
40°-50°	1344.4	14.2
50°-60°	2116.9	22.3
60°-70°	2886.7	30.5
70°-80°	1249.6	13.2
80°-90°	187.9	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°	9473.0	100.0
0°-180°	9473.0	100.0



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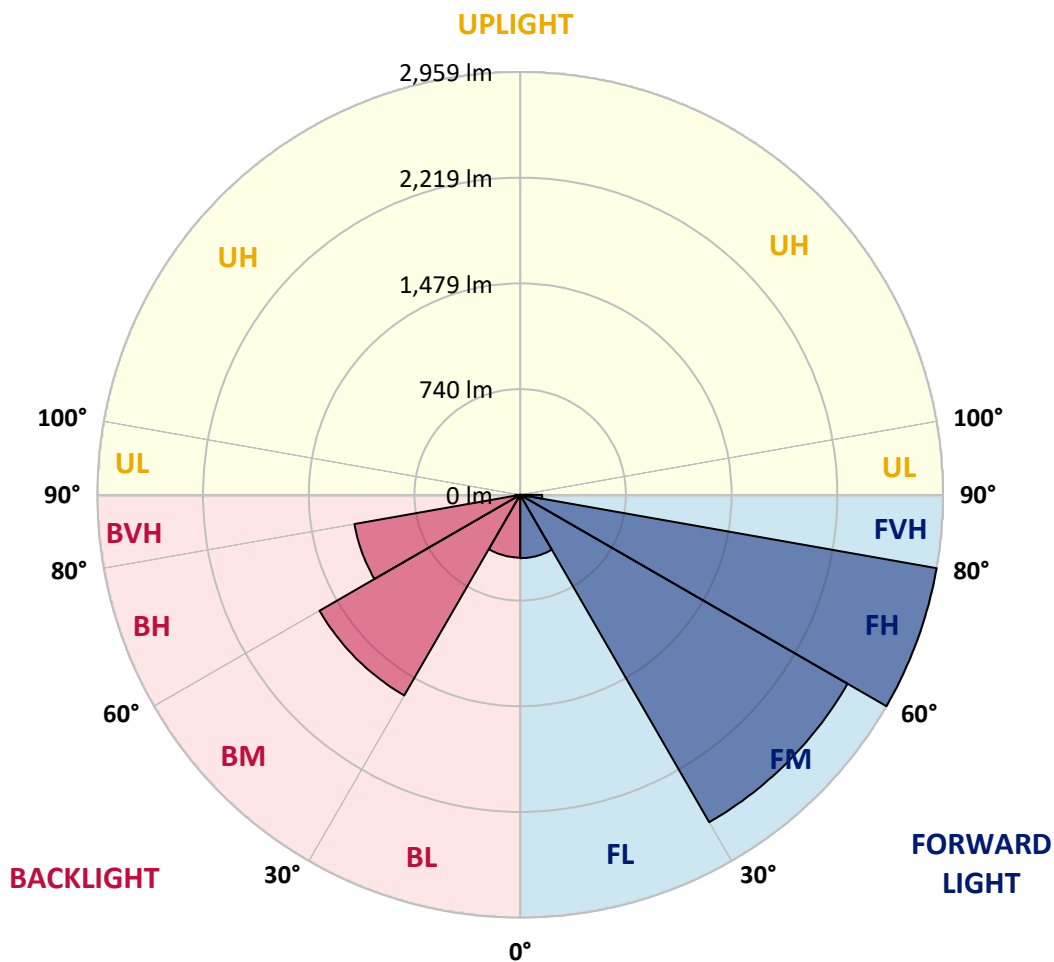
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.2	4.7			
FM	(30°-60°)	2645.5	27.9			
FH	(60°-80°)	2958.7	31.2			G2/5000
FVH	(80°-90°)	154.3	1.6			G2/225
BL	(0°-30°)	439.1	4.6	B1/500		
BM	(30°-60°)	1621.1	17.1	B2/2500		
BH	(60°-80°)	1177.5	12.4	B3/2500		G3/2500
BVH	(80°-90°)	33.6	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°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1024.9	1029.0	1024.9	1026.0	1027.0	1026.0	1024.9	1024.9	1021.9	1023.9	1026.0
5°	1020.8	1023.9	1022.9	1023.9	1024.9	1023.9	1022.9	1023.9	1021.9	1022.9	1026.0
7.5°	1015.7	1014.7	1015.7	1017.8	1019.8	1019.8	1019.8	1020.8	1019.8	1019.8	1022.9
10°	1000.4	1001.4	1003.4	1006.5	1007.5	1010.6	1010.6	1013.7	1014.7	1016.8	1020.8
12.5°	980.9	982.0	984.0	986.1	991.2	996.3	996.3	1003.4	1006.5	1011.6	1018.8
15°	966.6	967.6	969.7	971.7	975.8	980.9	984.0	992.2	997.3	1006.5	1016.8
17.5°	974.8	973.8	975.8	976.8	976.8	980.9	980.9	987.1	993.2	1001.4	1014.7
20°	998.3	998.3	1000.4	1000.4	999.4	1001.4	997.3	997.3	998.3	1002.4	1011.6
22.5°	1021.9	1020.8	1024.9	1027.0	1028.0	1031.1	1027.0	1026.0	1020.8	1017.8	1020.8
25°	1044.4	1043.4	1048.5	1051.5	1056.7	1059.7	1059.7	1059.7	1055.6	1050.5	1047.4
27.5°	1079.2	1079.2	1084.3	1087.4	1091.4	1097.7	1100.8	1100.8	1101.8	1094.5	1089.4
30°	1137.6	1138.6	1139.6	1143.7	1147.8	1149.9	1154.0	1157.0	1160.1	1156.0	1147.8
32.5°	1207.2	1201.0	1201.0	1207.2	1212.3	1218.4	1220.5	1224.6	1230.7	1227.6	1226.6
35°	1290.1	1288.1	1286.1	1288.1	1294.2	1301.4	1309.6	1316.8	1312.7	1318.8	1315.7
37.5°	1413.0	1415.1	1416.1	1416.1	1415.1	1417.1	1421.2	1428.4	1426.3	1428.4	1432.5
40°	1615.7	1608.6	1601.4	1602.4	1592.2	1594.2	1577.9	1585.0	1586.1	1578.9	1582.0
42.5°	1818.4	1822.5	1825.6	1833.9	1826.6	1822.5	1807.2	1807.2	1799.0	1791.8	1789.8
45°	2037.6	2045.8	2046.8	2063.2	2057.0	2070.3	2081.6	2078.5	2065.2	2064.2	2049.9
47.5°	2212.7	2226.0	2240.3	2259.7	2275.2	2304.9	2339.6	2357.0	2367.3	2375.5	2359.1
50°	2343.7	2349.9	2386.7	2417.5	2451.3	2500.4	2548.5	2611.0	2661.1	2684.7	2707.3
52.5°	2414.4	2429.8	2469.7	2517.8	2577.2	2650.9	2728.8	2828.0	2914.1	2971.4	3022.6
55°	2429.8	2445.1	2490.2	2551.6	2632.5	2731.8	2843.4	2978.5	3107.6	3218.2	3325.7
57.5°	2386.7	2404.1	2452.3	2522.9	2618.2	2739.0	2879.3	3056.4	3234.5	3413.7	3572.4
60°	2307.9	2329.4	2373.4	2443.1	2548.5	2684.7	2852.6	3074.8	3324.7	3599.1	3903.2
62.5°	2177.9	2200.4	2241.3	2318.2	2426.7	2577.2	2771.7	3048.2	3401.4	3833.5	4373.1
65°	1968.9	1979.3	2029.4	2107.2	2203.5	2369.3	2583.4	2917.1	3376.9	3977.9	4721.2
66°	1874.8	1892.2	1922.9	1985.4	2077.5	2233.1	2448.2	2787.1	3283.6	3927.7	4712.0
67.5°	1727.4	1740.7	1761.1	1803.1	1859.5	1974.1	2177.9	2498.3	2999.1	3673.8	4516.5
70°	1396.7	1402.8	1430.4	1444.8	1464.2	1502.1	1575.8	1760.1	2150.2	2784.0	3645.1
72.5°	952.3	969.7	999.4	1040.3	1093.5	1144.8	1179.5	1203.1	1287.1	1660.8	2428.8
75°	698.3	716.7	754.6	808.9	902.1	1008.6	1119.2	1170.3	1135.5	1087.4	1352.6
77.5°	405.5	430.0	461.8	514.0	600.0	741.3	930.7	1098.7	1212.3	1219.4	1158.1
80°	171.0	174.0	193.5	220.2	273.4	372.7	520.2	761.8	1013.7	1183.6	1223.5
82.5°	38.9	48.1	61.4	72.7	89.1	122.9	182.2	303.1	547.8	859.1	1120.2
85°	14.3	14.3	19.4	28.7	32.7	36.8	48.1	76.8	131.1	241.7	503.7
87.5°	0.0	1.0	2.0	2.0	4.1	5.1	8.2	11.3	10.2	9.2	30.7
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1023.9	1022.9	1020.8	1020.8	1020.8	1020.8	1018.8	1019.8	1017.8	1018.8	1018.8
5°	1022.9	1022.9	1021.9	1019.8	1020.8	1020.8	1021.9	1019.8	1019.8	1020.8	1019.8
7.5°	1022.9	1021.9	1021.9	1021.9	1022.9	1021.9	1022.9	1022.9	1022.9	1023.9	1023.9
10°	1022.9	1022.9	1024.9	1026.0	1026.0	1027.0	1030.1	1030.1	1031.1	1032.1	1034.1
12.5°	1023.9	1028.0	1031.1	1034.1	1035.2	1037.2	1042.3	1042.3	1044.4	1047.4	1048.5
15°	1024.9	1031.1	1037.2	1039.3	1041.3	1045.4	1050.5	1052.6	1055.6	1058.7	1060.8
17.5°	1023.9	1032.1	1039.3	1042.3	1045.4	1050.5	1056.7	1058.7	1062.8	1066.9	1071.0
20°	1022.9	1034.1	1045.4	1049.5	1053.6	1060.8	1068.9	1074.1	1078.1	1084.3	1088.4
22.5°	1029.0	1042.3	1057.7	1063.8	1071.0	1080.2	1091.4	1097.7	1102.8	1108.9	1112.0
25°	1048.5	1058.7	1077.1	1087.4	1096.6	1112.0	1127.4	1134.5	1140.7	1145.8	1146.8
27.5°	1081.2	1084.3	1106.9	1120.2	1133.5	1158.1	1176.5	1181.6	1192.8	1196.9	1195.9
30°	1134.5	1129.4	1147.8	1168.3	1187.7	1221.5	1244.1	1257.4	1267.6	1267.6	1259.4
32.5°	1211.3	1203.1	1208.2	1231.7	1254.3	1303.4	1330.1	1347.5	1354.6	1352.6	1335.2
35°	1311.6	1306.5	1303.4	1321.9	1357.7	1415.1	1449.9	1459.1	1470.3	1468.3	1445.8
37.5°	1430.4	1426.3	1426.3	1447.8	1482.6	1567.6	1605.5	1611.6	1610.6	1594.2	1552.3
40°	1570.7	1568.7	1559.5	1571.7	1601.4	1712.0	1763.2	1771.4	1760.1	1733.5	1684.4
42.5°	1772.4	1760.1	1731.5	1738.6	1761.1	1868.7	1935.2	1957.7	1946.4	1919.8	1840.0
45°	2035.5	2022.2	1974.1	1967.9	1980.3	2074.4	2160.5	2165.6	2163.5	2129.8	2035.5
47.5°	2344.8	2324.3	2273.1	2256.7	2252.6	2339.6	2422.6	2430.8	2425.7	2375.5	2249.5
50°	2679.6	2649.9	2616.1	2604.9	2588.5	2650.9	2734.9	2735.9	2715.5	2645.8	2528.0
52.5°	3036.9	3026.7	3020.6	3009.3	3002.2	3056.4	3107.6	3076.9	3046.2	2973.4	2871.1
55°	3397.3	3439.4	3482.3	3486.4	3498.7	3557.0	3556.0	3472.1	3449.6	3409.6	3308.3
57.5°	3780.3	3935.9	4071.1	4113.0	4154.0	4262.5	4252.3	4169.3	4140.7	4091.6	4007.6
60°	4301.4	4721.2	5111.4	5204.6	5269.1	5399.1	5386.8	5258.8	5318.2	5314.1	5205.6
62.5°	5031.5	5729.8	6314.5	6457.8	6502.8	6517.2	6439.4	6301.2	6359.5	6425.1	6091.3
65°	5526.1	6347.2	6947.2	7057.8	7064.0	6893.0	6719.9	6557.2	6542.8	6486.5	6009.3
66°	5537.3	6378.0	6980.0	7087.5	7049.6	6816.2	6597.1	6433.2	6362.6	6238.7	5744.1
67.5°	5338.6	6186.5	6834.6	6948.2	6865.3	6534.6	6232.6	6021.6	5883.4	5682.7	5246.5
70°	4483.7	5324.3	6123.0	6334.9	6361.5	5868.0	5449.2	5201.5	5015.1	4739.7	4363.9
72.5°	3333.9	4093.6	4798.1	5000.8	5104.2	4710.0	4356.8	4168.3	3913.4	3623.7	3356.4
75°	2089.8	2626.3	3098.3	3240.7	3143.4	2838.2	2626.3	2547.5	2296.7	2123.6	2001.8
77.5°	1194.9	1362.8	1400.8	1346.4	1231.7	943.0	670.7	496.6	431.1	477.1	526.3
80°	1166.2	1068.9	851.9	749.5	678.9	466.9	274.4	188.4	156.7	160.7	174.0
82.5°	1263.5	1355.6	1116.1	910.2	763.8	516.1	284.7	151.5	102.4	120.8	136.2
85°	821.2	1142.7	1029.0	867.3	702.4	441.3	234.5	78.9	52.2	68.6	94.2
87.5°	83.0	91.2	77.9	105.5	78.9	36.8	18.4	11.3	10.2	12.3	18.4
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°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1019.8	1019.8	1020.8	1021.9	1022.9	1023.9	1023.9	1023.9	1023.9	1026.0	1024.9
5°	1021.9	1023.9	1026.0	1027.0	1029.0	1029.0	1032.1	1031.1	1031.1	1034.1	1035.2
7.5°	1026.0	1029.0	1033.1	1032.1	1036.2	1035.2	1037.2	1037.2	1034.1	1035.2	1033.1
10°	1035.2	1039.3	1041.3	1038.2	1039.3	1035.2	1034.1	1029.0	1022.9	1019.8	1015.7
12.5°	1050.5	1054.6	1054.6	1049.5	1043.4	1034.1	1027.0	1015.7	1006.5	1001.4	996.3
15°	1063.8	1067.9	1066.9	1058.7	1049.5	1035.2	1024.9	1011.6	998.3	990.1	985.0
17.5°	1074.1	1076.1	1073.0	1061.8	1051.5	1038.2	1028.0	1013.7	998.3	988.1	978.9
20°	1089.4	1087.4	1080.2	1065.9	1054.6	1042.3	1034.1	1021.9	1004.5	991.2	977.9
22.5°	1112.0	1103.8	1090.4	1075.1	1063.8	1052.6	1044.4	1031.1	1013.7	997.3	982.0
25°	1141.7	1125.3	1106.9	1090.4	1080.2	1067.9	1058.7	1044.4	1026.0	1007.5	989.1
27.5°	1184.7	1156.0	1132.5	1118.1	1106.9	1091.4	1080.2	1061.8	1042.3	1020.8	1000.4
30°	1232.8	1193.9	1171.4	1160.1	1147.8	1131.4	1114.1	1090.4	1067.9	1044.4	1019.8
32.5°	1295.3	1248.2	1226.6	1215.4	1199.0	1178.5	1158.1	1131.4	1099.7	1068.9	1039.3
35°	1377.1	1329.0	1306.5	1289.1	1266.6	1239.9	1210.2	1174.4	1131.4	1090.4	1052.6
37.5°	1465.2	1413.0	1391.5	1373.0	1339.3	1304.5	1262.5	1210.2	1151.9	1097.7	1050.5
40°	1576.8	1528.7	1501.0	1469.3	1429.4	1368.9	1303.4	1227.6	1152.9	1086.3	1031.1
42.5°	1718.2	1670.0	1629.0	1578.9	1509.2	1416.1	1322.9	1224.6	1134.5	1058.7	999.4
45°	1905.5	1847.2	1776.5	1688.5	1575.8	1445.8	1323.9	1205.1	1099.7	1015.7	952.3
47.5°	2134.9	2045.8	1930.1	1781.6	1619.8	1454.0	1307.5	1166.2	1045.4	954.3	883.6
50°	2407.2	2266.9	2076.5	1858.4	1642.3	1441.7	1266.6	1107.9	968.7	871.4	787.4
52.5°	2718.5	2489.1	2208.6	1913.7	1641.3	1400.8	1196.9	1019.8	868.3	759.7	679.9
55°	3084.0	2743.1	2344.8	1954.6	1612.7	1324.9	1090.4	895.9	744.4	644.0	570.3
57.5°	3619.6	3154.7	2582.3	2018.2	1555.4	1208.2	946.1	747.4	614.3	519.2	456.7
60°	4598.4	3841.7	3010.3	2146.2	1467.3	1037.2	777.1	588.7	477.1	400.4	358.3
62.5°	5335.6	4373.1	3241.7	2117.4	1290.1	826.3	576.5	429.0	351.2	299.0	272.4
65°	5230.2	4208.3	2994.9	1823.5	1011.6	582.6	383.0	291.8	241.7	217.0	201.7
66°	4991.6	3993.2	2780.9	1641.3	874.4	484.3	315.4	244.7	207.8	190.4	180.2
67.5°	4539.0	3594.0	2398.0	1345.4	671.7	351.2	237.6	193.5	168.9	161.8	154.6
70°	3773.1	2866.0	1683.4	783.3	343.0	195.5	150.5	135.2	129.0	128.0	126.0
72.5°	2891.6	2028.4	991.2	370.7	178.1	130.0	116.7	111.6	109.6	109.6	110.6
75°	1772.4	1139.6	438.2	181.2	124.9	109.6	103.4	101.4	100.4	101.4	100.4
77.5°	591.8	362.4	187.3	137.2	113.7	101.4	97.3	95.3	95.3	95.3	95.3
80°	181.2	157.7	143.3	127.0	107.5	96.3	90.1	89.1	90.1	91.2	88.1
82.5°	136.2	129.0	120.8	112.7	97.3	86.0	84.0	84.0	84.0	80.9	76.8
85°	100.4	99.3	82.0	76.8	71.6	71.6	71.6	71.6	68.6	63.4	59.3
87.5°	18.4	17.4	18.4	19.4	28.7	30.7	30.7	32.7	35.8	33.8	33.8
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°	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1024.9	1023.9	1027.0	1024.9	1026.0
5°	1034.1	1033.1	1035.2	1033.1	1036.2
7.5°	1031.1	1029.0	1028.0	1029.0	1030.1
10°	1009.6	1007.5	1006.5	1005.5	1006.5
12.5°	991.2	987.1	987.1	985.0	986.1
15°	977.9	974.8	973.8	971.7	972.8
17.5°	971.7	966.6	964.6	962.5	962.5
20°	967.6	961.5	958.4	956.4	955.4
22.5°	967.6	958.4	954.3	952.3	951.3
25°	971.7	960.5	954.3	951.3	950.1
27.5°	979.9	965.6	958.4	954.3	954.3
30°	994.2	975.8	965.6	960.5	959.4
32.5°	1008.6	984.0	969.7	963.5	961.5
35°	1015.7	984.0	966.6	956.4	954.3
37.5°	1007.5	970.7	949.1	933.8	930.7
40°	982.0	943.0	919.4	905.1	903.1
42.5°	948.1	910.2	882.6	872.4	869.3
45°	902.1	857.0	829.4	815.1	816.1
47.5°	823.3	777.1	752.6	739.3	741.3
50°	730.1	685.0	663.5	649.1	652.2
52.5°	627.6	586.7	566.2	559.1	557.0
55°	520.2	488.4	474.0	465.9	462.8
57.5°	421.9	399.4	389.1	378.9	379.9
60°	332.7	321.5	318.4	307.2	306.1
62.5°	262.1	255.0	251.9	243.7	244.7
65°	198.6	196.6	198.6	193.5	195.5
66°	179.2	180.2	180.2	177.1	179.2
67.5°	154.6	156.7	159.7	156.7	158.7
70°	128.0	130.0	132.1	132.1	132.1
72.5°	111.6	113.7	114.7	114.7	114.7
75°	102.4	103.4	104.5	102.4	102.4
77.5°	96.3	96.3	94.2	93.2	92.2
80°	87.1	86.0	83.0	80.9	80.9
82.5°	72.7	70.6	68.6	65.5	65.5
85°	55.3	53.2	51.2	47.1	45.0
87.5°	28.7	29.7	28.7	23.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)