

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: P181449

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181449
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-E04-LED-E1-T3
Description: ICON SITE MEDIUM 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: 11475.1 lumens
Efficiency: N/A
Efficacy: 118.1 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

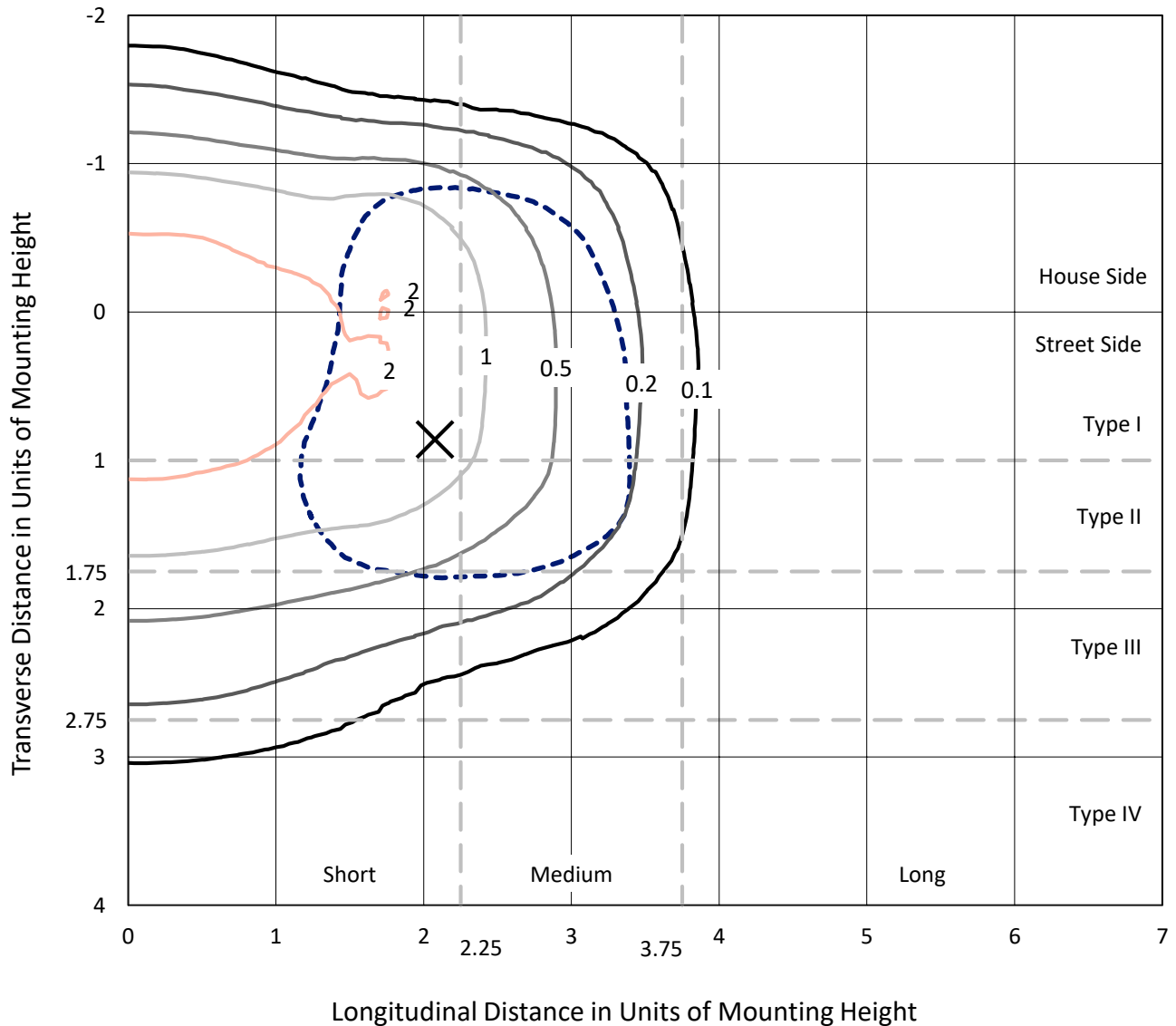
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

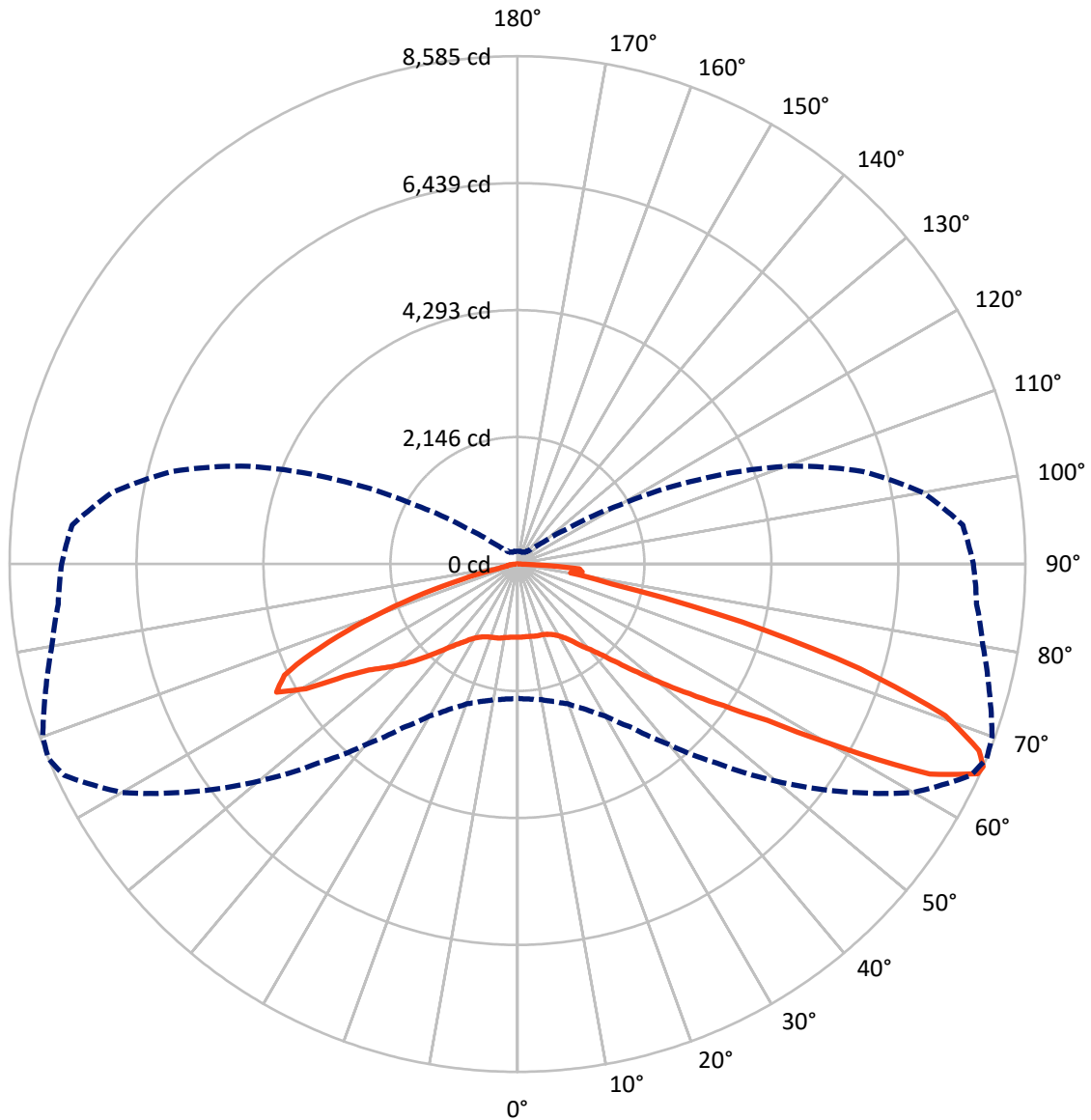
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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	3962.7	0.0	3962.7
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	7512.4	0.0	7512.4
	% Fixture	65.5	0.0	65.5
Total	Lumens	11475.1	0.0	11475.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.0
10°-20°	349.5	3.0
20°-30°	600.8	5.2
30°-40°	975.5	8.5
40°-50°	1628.5	14.2
50°-60°	2564.3	22.3
60°-70°	3496.8	30.5
70°-80°	1513.7	13.2
80°-90°	227.6	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°	11475.1	100.0
0°-180°	11475.1	100.0



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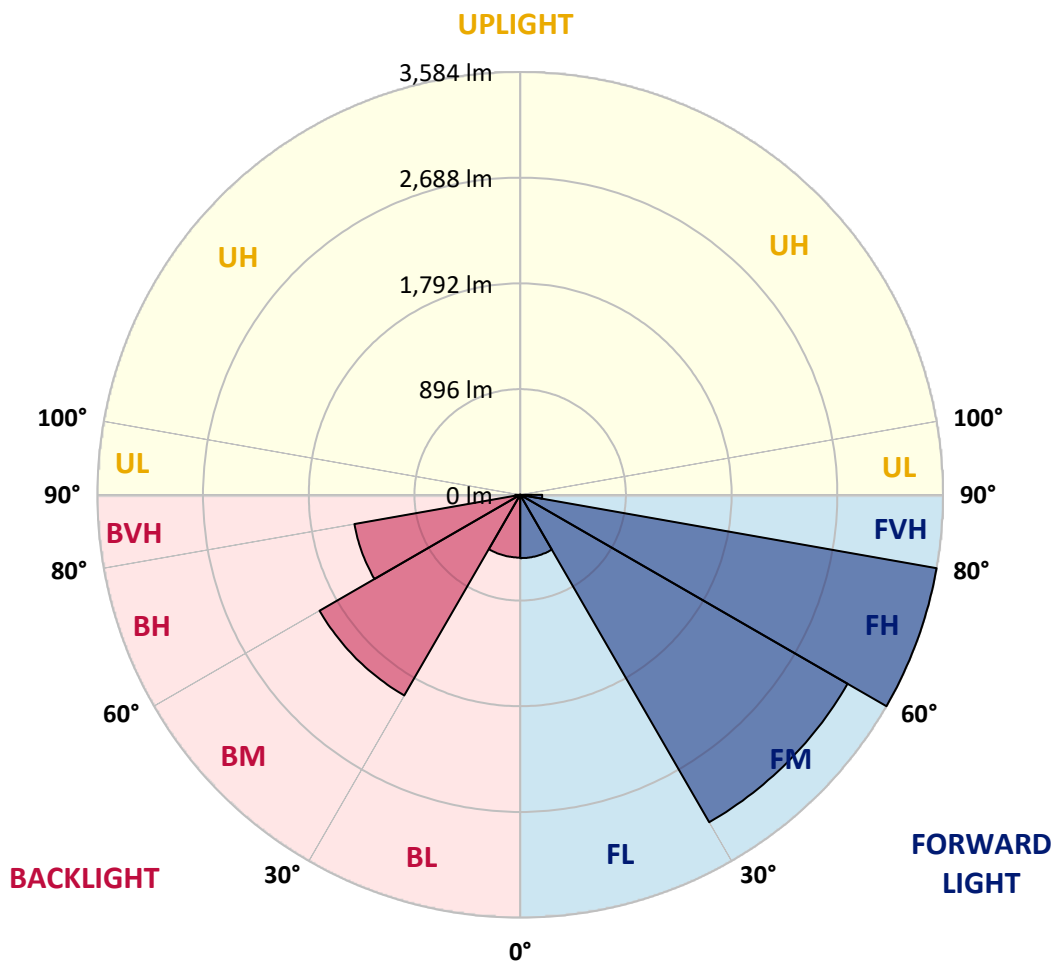
CATALOG NUMBER: ICM-E04-LED-E1-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.8	4.7			
FM	(30°-60°)	3204.6	27.9			
FH	(60°-80°)	3584.1	31.2			G2/5000
FVH	(80°-90°)	186.9	1.6			G2/225
BL	(0°-30°)	531.9	4.6	B2/1000		
BM	(30°-60°)	1963.7	17.1	B2/2500		
BH	(60°-80°)	1426.4	12.4	B3/2500		G3/2500
BVH	(80°-90°)	40.7	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°	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6
2.5°	1241.6	1246.5	1241.6	1242.8	1244.0	1242.8	1241.6	1241.6	1237.9	1240.3	1242.8
5°	1236.6	1240.3	1239.1	1240.3	1241.6	1240.3	1239.1	1240.3	1237.9	1239.1	1242.8
7.5°	1230.4	1229.1	1230.4	1232.8	1235.4	1235.4	1235.4	1236.6	1235.4	1235.4	1239.1
10°	1211.8	1213.0	1215.5	1219.3	1220.5	1224.2	1224.2	1227.9	1229.1	1231.6	1236.6
12.5°	1188.2	1189.5	1191.9	1194.4	1200.7	1206.8	1206.8	1215.5	1219.3	1225.4	1234.1
15°	1170.9	1172.1	1174.6	1177.0	1182.1	1188.2	1191.9	1201.9	1208.1	1219.3	1231.6
17.5°	1180.8	1179.5	1182.1	1183.3	1183.3	1188.2	1188.2	1195.6	1203.1	1213.0	1229.1
20°	1209.3	1209.3	1211.8	1211.8	1210.5	1213.0	1208.1	1208.1	1209.3	1214.2	1225.4
22.5°	1237.9	1236.6	1241.6	1244.0	1245.3	1249.0	1244.0	1242.8	1236.6	1232.8	1236.6
25°	1265.1	1263.9	1270.1	1273.8	1280.0	1283.7	1283.7	1283.7	1278.8	1272.6	1268.8
27.5°	1307.3	1307.3	1313.5	1317.2	1322.1	1329.6	1333.3	1333.3	1334.6	1325.9	1319.7
30°	1378.0	1379.3	1380.5	1385.4	1390.4	1392.8	1397.9	1401.6	1405.3	1400.3	1390.4
32.5°	1462.3	1454.9	1454.9	1462.3	1468.6	1476.0	1478.4	1483.5	1490.9	1487.2	1485.9
35°	1562.8	1560.3	1557.9	1560.3	1567.7	1576.5	1586.3	1595.1	1590.1	1597.5	1593.8
37.5°	1711.6	1714.2	1715.4	1715.4	1714.2	1716.6	1721.6	1730.2	1727.7	1730.2	1735.2
40°	1957.2	1948.6	1939.8	1941.1	1928.7	1931.2	1911.4	1920.0	1921.2	1912.6	1916.3
42.5°	2202.8	2207.7	2211.5	2221.4	2212.8	2207.7	2189.1	2189.1	2179.3	2170.5	2168.1
45°	2468.2	2478.2	2479.4	2499.3	2491.8	2507.9	2521.6	2517.9	2501.7	2500.5	2483.1
47.5°	2680.3	2696.5	2713.8	2737.4	2756.0	2791.9	2834.2	2855.2	2867.6	2877.5	2857.7
50°	2839.1	2846.5	2891.2	2928.4	2969.3	3028.9	3087.2	3162.8	3223.6	3252.1	3279.4
52.5°	2924.7	2943.3	2991.6	3050.0	3121.9	3211.2	3305.4	3425.8	3530.0	3599.4	3661.4
55°	2943.3	2961.9	3016.5	3090.9	3188.9	3309.1	3444.4	3608.1	3764.4	3898.3	4028.6
57.5°	2891.2	2912.3	2970.5	3056.1	3171.5	3317.9	3487.7	3702.3	3918.2	4135.2	4327.5
60°	2795.6	2821.7	2875.1	2959.4	3087.2	3252.1	3455.6	3724.7	4027.3	4359.7	4728.1
62.5°	2638.2	2665.4	2715.1	2808.1	2939.6	3121.9	3357.5	3692.4	4120.3	4643.7	5297.4
65°	2385.1	2397.5	2458.3	2552.6	2669.1	2870.1	3129.3	3533.7	4090.5	4818.6	5719.1
66°	2271.0	2292.1	2329.3	2404.9	2516.6	2705.1	2965.6	3376.1	3977.7	4757.9	5707.9
67.5°	2092.4	2108.6	2133.3	2184.2	2252.4	2391.4	2638.2	3026.3	3632.9	4450.3	5471.0
70°	1691.8	1699.3	1732.8	1750.1	1773.7	1819.5	1908.8	2132.1	2604.7	3372.4	4415.6
72.5°	1153.5	1174.6	1210.5	1260.2	1324.7	1386.7	1428.8	1457.4	1559.1	2011.8	2942.1
75°	845.9	868.2	914.1	979.8	1092.8	1221.7	1355.6	1417.7	1375.5	1317.2	1638.4
77.5°	491.2	520.9	559.4	622.6	726.8	898.0	1127.4	1330.9	1468.6	1477.2	1402.8
80°	207.2	210.9	234.4	266.7	331.2	451.4	630.1	922.8	1227.9	1433.8	1482.1
82.5°	47.2	58.3	74.4	88.1	107.9	148.8	220.7	367.2	663.5	1040.7	1356.9
85°	17.4	17.4	23.5	34.7	39.7	44.7	58.3	93.0	158.8	292.7	610.2
87.5°	0.0	1.2	2.5	2.5	4.9	6.2	10.0	13.7	12.4	11.2	37.2
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6
2.5°	1240.3	1239.1	1236.6	1236.6	1236.6	1236.6	1234.1	1235.4	1232.8	1234.1	1234.1
5°	1239.1	1239.1	1237.9	1237.9	1236.6	1236.6	1237.9	1235.4	1235.4	1236.6	1235.4
7.5°	1239.1	1237.9	1237.9	1237.9	1239.1	1237.9	1239.1	1239.1	1239.1	1240.3	1240.3
10°	1239.1	1239.1	1241.6	1242.8	1242.8	1244.0	1247.7	1247.7	1249.0	1250.2	1252.8
12.5°	1240.3	1245.3	1249.0	1252.8	1254.0	1256.5	1262.6	1262.6	1265.1	1268.8	1270.1
15°	1241.6	1249.0	1256.5	1258.9	1261.4	1266.3	1272.6	1275.1	1278.8	1282.5	1284.9
17.5°	1240.3	1250.2	1258.9	1262.6	1266.3	1272.6	1280.0	1282.5	1287.4	1292.4	1297.4
20°	1239.1	1252.8	1266.3	1271.4	1276.3	1284.9	1294.9	1301.1	1306.1	1313.5	1318.4
22.5°	1246.5	1262.6	1281.2	1288.7	1297.4	1308.6	1322.1	1329.6	1335.8	1343.3	1347.0
25°	1270.1	1282.5	1304.8	1317.2	1328.4	1347.0	1365.6	1374.2	1381.7	1387.9	1389.1
27.5°	1309.8	1313.5	1340.8	1356.9	1373.0	1402.8	1425.1	1431.4	1444.9	1450.0	1448.7
30°	1374.2	1368.1	1390.4	1415.2	1438.8	1479.7	1507.0	1523.1	1535.5	1535.5	1525.6
32.5°	1467.3	1457.4	1463.5	1492.1	1519.4	1578.9	1611.2	1632.3	1640.9	1638.4	1617.4
35°	1588.8	1582.6	1578.9	1601.2	1644.7	1714.2	1756.3	1767.5	1781.1	1778.6	1751.4
37.5°	1732.8	1727.7	1727.7	1753.8	1796.0	1898.9	1944.8	1952.3	1951.0	1931.2	1880.3
40°	1902.6	1900.2	1889.0	1903.9	1939.8	2073.8	2135.8	2145.8	2132.1	2099.8	2040.3
42.5°	2147.0	2132.1	2097.4	2106.1	2133.3	2263.5	2344.2	2371.5	2357.9	2325.6	2228.9
45°	2465.8	2449.6	2391.4	2383.9	2398.8	2512.9	2617.0	2623.3	2620.8	2579.8	2465.8
47.5°	2840.3	2815.6	2753.5	2733.7	2728.7	2834.2	2934.6	2944.5	2938.3	2877.5	2724.9
50°	3245.9	3210.0	3169.0	3155.4	3135.6	3211.2	3312.9	3314.2	3289.3	3204.9	3062.3
52.5°	3678.8	3666.3	3658.9	3645.3	3636.6	3702.3	3764.4	3727.2	3690.0	3601.9	3477.9
55°	4115.4	4166.3	4218.4	4223.3	4238.2	4308.9	4307.7	4205.9	4178.6	4130.3	4007.5
57.5°	4579.3	4767.8	4931.5	4982.4	5031.9	5163.5	5151.0	5050.5	5015.8	4956.3	4854.6
60°	5210.5	5719.1	6191.7	6304.5	6382.6	6540.2	6525.3	6370.3	6442.2	6437.2	6305.8
62.5°	6094.9	6940.8	7649.1	7822.7	7877.3	7894.7	7800.3	7632.9	7703.6	7783.0	7378.6
65°	6694.0	7688.7	8415.6	8549.5	8557.0	8349.8	8140.2	7943.0	7925.6	7857.4	7279.4
66°	6707.7	7725.9	8455.2	8585.4	8539.6	8256.8	7991.4	7792.9	7707.3	7557.3	6958.2
67.5°	6467.0	7494.0	8279.1	8416.8	8316.3	7915.7	7549.8	7294.3	7126.8	6883.8	6355.4
70°	5431.4	6449.6	7417.1	7673.8	7706.1	7108.2	6601.0	6300.8	6075.1	5741.4	5286.3
72.5°	4038.4	4958.8	5812.1	6057.7	6183.0	5705.4	5277.5	5049.3	4740.5	4389.5	4065.8
75°	2531.5	3181.4	3753.2	3925.6	3807.7	3438.2	3181.4	3085.9	2782.1	2572.4	2424.9
77.5°	1447.5	1650.9	1696.8	1631.0	1492.1	1142.3	812.4	601.6	522.1	578.0	637.5
80°	1412.8	1294.9	1031.9	907.9	822.3	565.6	332.4	228.2	189.8	194.7	210.9
82.5°	1530.5	1642.1	1351.9	1102.6	925.3	625.1	344.8	183.5	124.0	146.3	164.9
85°	994.7	1384.2	1246.5	1050.5	850.9	534.6	284.0	95.5	63.3	83.1	114.1
87.5°	100.5	110.4	94.2	127.7	95.5	44.7	22.3	13.7	12.4	14.9	22.3
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°	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6	1236.6
2.5°	1235.4	1235.4	1236.6	1237.9	1239.1	1240.3	1240.3	1240.3	1240.3	1242.8	1241.6
5°	1237.9	1240.3	1242.8	1244.0	1246.5	1246.5	1250.2	1249.0	1249.0	1252.8	1254.0
7.5°	1242.8	1246.5	1251.4	1250.2	1255.2	1254.0	1256.5	1256.5	1252.8	1254.0	1251.4
10°	1254.0	1258.9	1261.4	1257.7	1258.9	1254.0	1252.8	1246.5	1239.1	1235.4	1230.4
12.5°	1272.6	1277.5	1277.5	1271.4	1263.9	1252.8	1244.0	1230.4	1219.3	1213.0	1206.8
15°	1288.7	1293.7	1292.4	1282.5	1271.4	1254.0	1241.6	1225.4	1209.3	1199.4	1193.2
17.5°	1301.1	1303.5	1299.8	1286.2	1273.8	1257.7	1245.3	1227.9	1209.3	1196.9	1185.8
20°	1319.7	1317.2	1308.6	1291.2	1277.5	1262.6	1252.8	1237.9	1216.8	1200.7	1184.5
22.5°	1347.0	1337.0	1320.9	1302.3	1288.7	1275.1	1265.1	1249.0	1227.9	1208.1	1189.5
25°	1383.0	1363.1	1340.8	1320.9	1308.6	1293.7	1282.5	1265.1	1242.8	1220.5	1198.1
27.5°	1435.1	1400.3	1371.8	1354.4	1340.8	1322.1	1308.6	1286.2	1262.6	1236.6	1211.8
30°	1493.3	1446.2	1418.9	1405.3	1390.4	1370.5	1349.5	1320.9	1293.7	1265.1	1235.4
32.5°	1569.0	1511.9	1485.9	1472.3	1452.4	1427.6	1402.8	1370.5	1332.1	1294.9	1258.9
35°	1668.2	1610.0	1582.6	1561.6	1534.2	1502.1	1466.1	1422.6	1370.5	1320.9	1275.1
37.5°	1774.9	1711.6	1685.6	1663.3	1622.3	1580.2	1529.3	1466.1	1395.4	1329.6	1272.6
40°	1910.1	1851.8	1818.3	1779.8	1731.5	1658.3	1578.9	1487.2	1396.6	1316.0	1249.0
42.5°	2081.2	2023.0	1973.3	1912.6	1828.2	1715.4	1602.5	1483.5	1374.2	1282.5	1210.5
45°	2308.2	2237.5	2151.9	2045.3	1908.8	1751.4	1603.7	1459.8	1332.1	1230.4	1153.5
47.5°	2586.1	2478.2	2338.0	2158.2	1962.2	1761.2	1583.9	1412.8	1266.3	1156.0	1070.4
50°	2916.0	2746.1	2515.4	2251.2	1989.5	1746.3	1534.2	1342.1	1173.3	1055.5	953.8
52.5°	3293.0	3015.2	2675.4	2318.2	1988.2	1696.8	1450.0	1235.4	1051.8	920.3	823.5
55°	3735.8	3322.8	2840.3	2367.7	1953.5	1604.9	1320.9	1085.3	901.7	780.2	690.9
57.5°	4384.5	3821.4	3128.1	2444.7	1884.0	1463.5	1146.1	905.4	744.2	628.8	553.2
60°	5570.3	4653.7	3646.5	2599.7	1777.4	1256.5	941.4	713.2	578.0	484.9	434.1
62.5°	6463.3	5297.4	3926.8	2564.9	1562.8	1000.9	698.3	519.7	425.4	362.1	330.0
65°	6335.6	5097.7	3627.9	2209.0	1225.4	705.8	463.9	353.5	292.7	263.0	244.4
66°	6046.5	4837.2	3368.7	1988.2	1059.3	586.7	382.0	296.5	251.8	230.7	218.3
67.5°	5498.4	4353.5	2904.9	1629.8	813.7	425.4	287.7	234.4	204.7	196.0	187.3
70°	4570.5	3471.6	2039.1	948.8	415.5	236.9	182.3	163.7	156.3	155.1	152.6
72.5°	3502.6	2457.0	1200.7	449.0	215.8	157.5	141.4	135.2	132.7	132.7	134.0
75°	2147.0	1380.5	530.9	219.5	151.3	132.7	125.3	122.8	121.6	122.8	121.6
77.5°	716.9	439.1	227.0	166.2	137.7	122.8	117.9	115.3	115.3	115.3	115.3
80°	219.5	191.0	173.7	153.8	130.2	116.6	109.1	107.9	109.1	110.4	106.7
82.5°	164.9	156.3	146.3	136.5	117.9	104.2	101.7	101.7	101.7	98.0	93.0
85°	121.6	120.3	99.3	93.0	86.8	86.8	86.8	86.8	83.1	76.9	71.9
87.5°	22.3	21.1	22.3	23.5	34.7	37.2	37.2	39.7	43.4	40.9	40.9
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°	1236.6	1236.6	1236.6	1236.6	1236.6
2.5°	1241.6	1240.3	1244.0	1241.6	1242.8
5°	1252.8	1251.4	1254.0	1251.4	1255.2
7.5°	1249.0	1246.5	1245.3	1246.5	1247.7
10°	1223.0	1220.5	1219.3	1218.0	1219.3
12.5°	1200.7	1195.6	1195.6	1193.2	1194.4
15°	1184.5	1180.8	1179.5	1177.0	1178.3
17.5°	1177.0	1170.9	1168.4	1165.9	1165.9
20°	1172.1	1164.7	1160.9	1158.4	1157.2
22.5°	1172.1	1160.9	1156.0	1153.5	1152.3
25°	1177.0	1163.4	1156.0	1152.3	1151.0
27.5°	1187.0	1169.6	1160.9	1156.0	1156.0
30°	1204.4	1182.1	1169.6	1163.4	1162.1
32.5°	1221.7	1191.9	1174.6	1167.2	1164.7
35°	1230.4	1191.9	1170.9	1158.4	1156.0
37.5°	1220.5	1175.8	1149.8	1131.2	1127.4
40°	1189.5	1142.3	1113.8	1096.5	1094.0
42.5°	1148.6	1102.6	1069.1	1056.8	1053.0
45°	1092.8	1038.1	1004.7	987.3	988.6
47.5°	997.2	941.4	911.6	895.5	898.0
50°	884.4	829.8	803.7	786.3	790.1
52.5°	760.3	710.7	685.9	677.2	674.7
55°	630.1	591.6	574.2	564.4	560.7
57.5°	511.0	483.7	471.4	458.9	460.2
60°	403.1	389.5	385.8	372.1	370.9
62.5°	317.5	308.8	305.1	295.2	296.5
65°	240.7	238.1	240.7	234.4	236.9
66°	217.0	218.3	218.3	214.6	217.0
67.5°	187.3	189.8	193.5	189.8	192.3
70°	155.1	157.5	160.0	160.0	160.0
72.5°	135.2	137.7	138.9	138.9	138.9
75°	124.0	125.3	126.5	124.0	124.0
77.5°	116.6	116.6	114.1	112.8	111.6
80°	105.4	104.2	100.5	98.0	98.0
82.5°	88.1	85.6	83.1	79.3	79.3
85°	67.0	64.5	62.0	57.0	54.6
87.5°	34.7	36.0	34.7	28.6	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)