

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: P180988

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180988
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
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-SLL
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10353.4 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

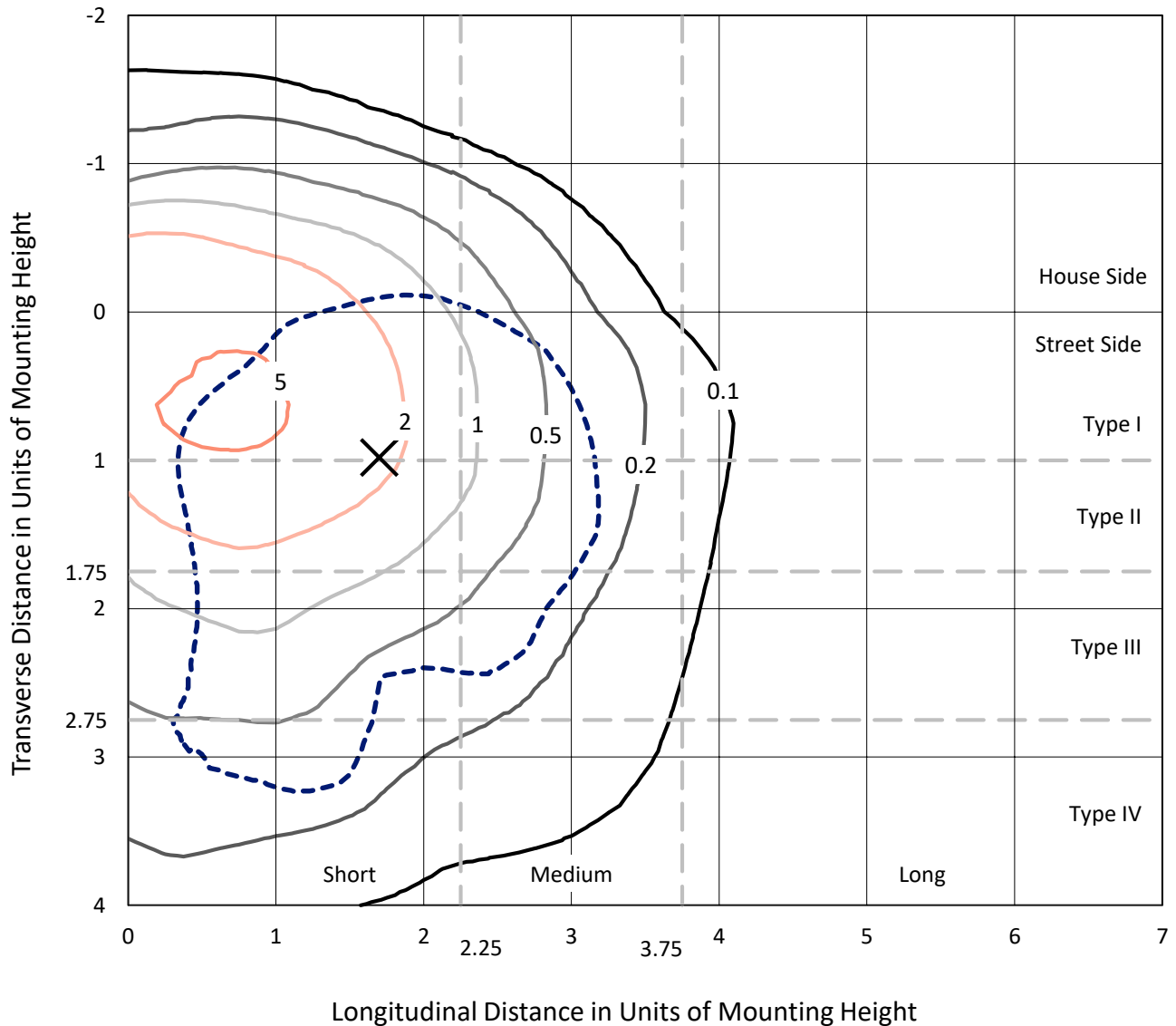
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180988
 CATALOG NUMBER: ICM-E04-LED-E1-SLL

Iso-Footcandle Lines of Horizontal Illumination

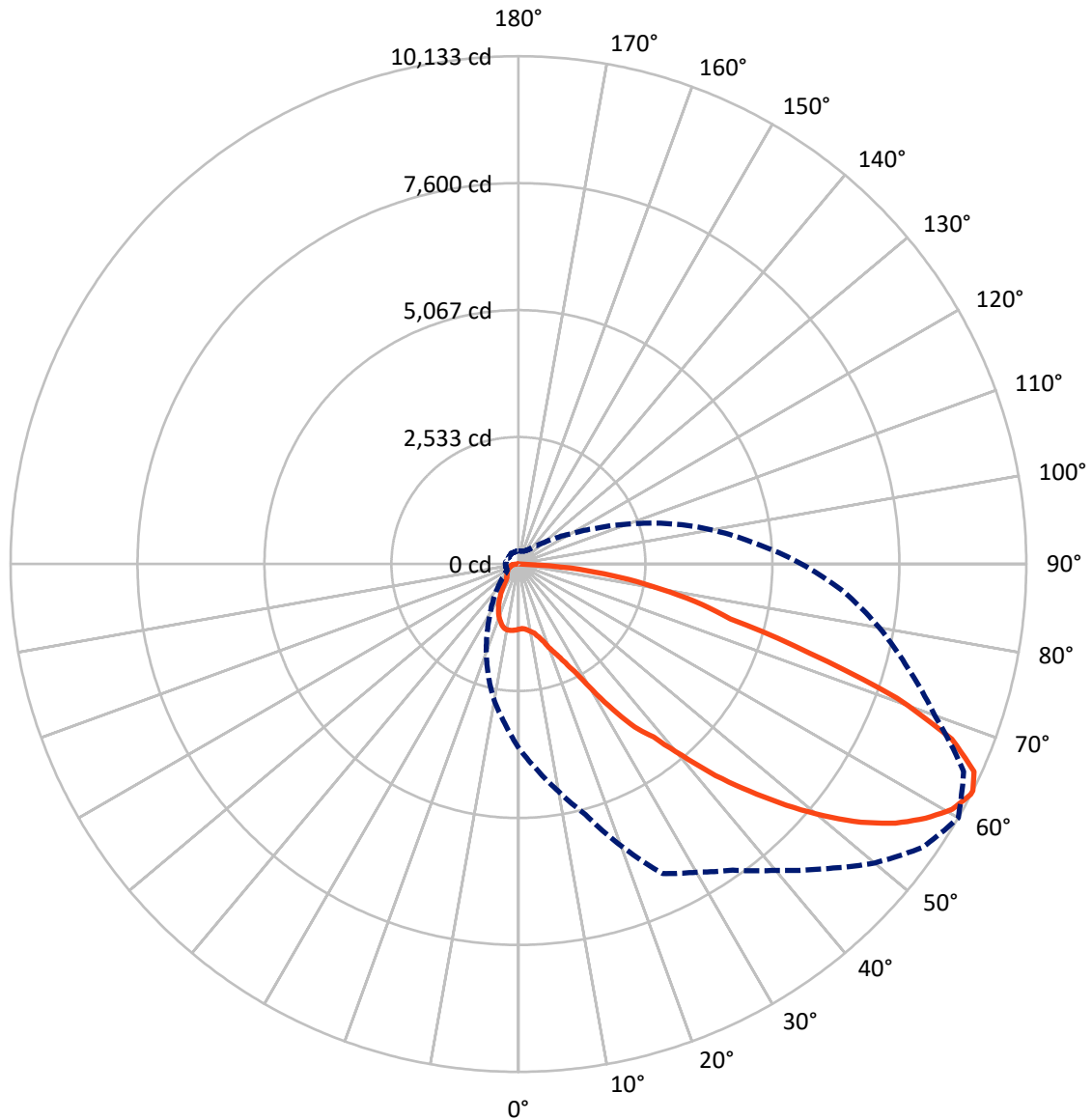
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P180988
CATALOG NUMBER: ICM-E04-LED-E1-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P180988

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2245.1	0.0	2245.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8108.3	0.0	8108.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	10353.4	0.0	10353.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	1.2
10°-20°	394.5	3.8
20°-30°	700.8	6.8
30°-40°	1103.5	10.7
40°-50°	1624.1	15.7
50°-60°	2157.2	20.8
60°-70°	2376.2	23.0
70°-80°	1490.8	14.4
80°-90°	379.7	3.7
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°	10353.4	100.0
0°-180°	10353.4	100.0



REPORT NUMBER: P180988

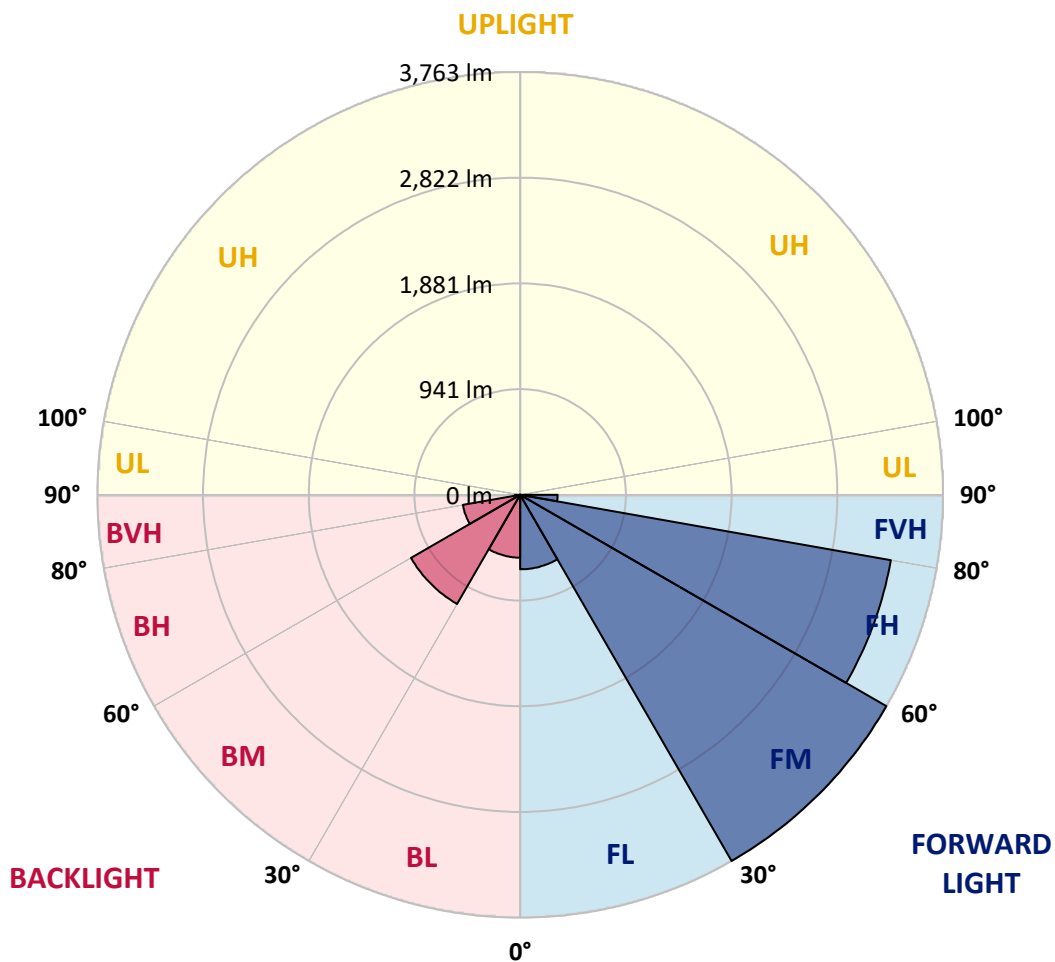
CATALOG NUMBER: ICM-E04-LED-E1-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.9	6.4			
FM (30°-60°)	3762.7	36.3			
FH (60°-80°)	3349.5	32.4			G2/5000
FVH (80°-90°)	333.2	3.2			G3/500
BL (0°-30°)	558.9	5.4	B2/1000		
BM (30°-60°)	1122.1	10.8	B2/2500		
BH (60°-80°)	517.5	5.0	B2/1000		G2/1000
BVH (80°-90°)	46.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P180988

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1283.7	1286.2	1286.2	1284.9	1284.9	1287.4	1286.2	1284.9	1281.2	1286.2	1286.2
5°	1273.8	1276.3	1276.3	1278.8	1281.2	1283.7	1283.7	1286.2	1284.9	1290.0	1293.7
7.5°	1286.2	1288.7	1293.7	1299.8	1303.5	1312.3	1312.3	1318.4	1320.9	1324.7	1323.4
10°	1302.3	1308.6	1319.7	1329.6	1337.0	1347.0	1354.4	1363.1	1363.1	1366.8	1369.3
12.5°	1330.9	1337.0	1349.5	1361.9	1373.0	1385.4	1396.6	1405.3	1414.0	1416.5	1421.4
15°	1378.0	1385.4	1404.0	1421.4	1435.1	1451.2	1466.1	1483.5	1499.5	1503.3	1505.8
17.5°	1448.7	1463.5	1477.2	1508.2	1528.1	1549.1	1572.8	1597.5	1602.5	1628.6	1634.7
20°	1549.1	1567.7	1580.2	1618.6	1652.1	1679.4	1714.2	1742.6	1753.8	1778.6	1803.5
22.5°	1722.8	1719.1	1737.7	1776.1	1800.9	1855.5	1885.3	1915.1	1930.0	1967.2	1987.0
25°	1956.0	1975.8	2016.8	2020.5	2044.0	2107.3	2145.8	2175.5	2176.8	2187.9	2209.0
27.5°	2185.4	2267.3	2331.8	2366.5	2429.8	2488.1	2485.6	2527.7	2462.1	2475.6	2495.6
30°	2463.3	2599.7	2721.2	2803.1	2867.6	2935.8	2969.3	2992.9	2964.4	2951.9	2928.4
32.5°	2723.7	2914.7	3102.1	3247.2	3367.5	3480.3	3554.7	3588.2	3627.9	3728.4	3764.4
35°	2902.3	3172.8	3405.9	3615.6	3816.5	3996.3	4126.5	4201.0	4172.4	4158.8	4151.4
37.5°	3009.0	3338.9	3630.4	3926.8	4157.5	4426.7	4628.9	4824.9	4869.5	4791.4	4752.9
40°	3076.0	3466.7	3841.2	4191.0	4490.0	4837.2	5087.8	5381.7	5605.0	5634.7	5543.0
42.5°	3108.2	3552.3	3988.9	4384.5	4788.9	5214.3	5531.8	5887.8	6221.4	6450.9	6393.8
45°	3113.2	3608.1	4096.8	4559.4	5040.7	5545.4	5954.7	6349.2	6795.7	7188.9	7200.0
47.5°	3113.2	3650.3	4171.2	4685.9	5266.4	5833.2	6279.8	6746.1	7293.1	7758.2	7900.8
50°	3115.6	3678.8	4240.7	4785.1	5438.8	6076.3	6581.2	7131.9	7707.3	8213.4	8488.7
52.5°	3126.8	3699.8	4295.2	4855.8	5550.5	6247.5	6815.6	7450.6	8023.6	8543.3	8899.3
55°	3151.6	3729.6	4334.9	4899.3	5624.9	6359.1	6985.4	7668.9	8228.2	8755.4	9252.8
57.5°	3221.1	3781.7	4383.3	4937.7	5665.8	6432.3	7104.5	7763.1	8306.4	8855.9	9440.1
60°	3360.0	3892.1	4466.4	5014.6	5734.0	6567.5	7161.6	7699.9	8249.4	8826.1	9482.2
62.5°	3582.1	4064.5	4581.7	5144.9	5928.7	6777.1	7118.2	7511.4	8024.9	8653.7	9332.2
63°	3658.9	4101.7	4607.7	5173.3	5982.1	6815.6	7099.6	7455.6	7978.9	8599.1	9278.8
65°	3873.5	4266.7	4731.8	5317.2	6201.6	6854.0	6954.5	7165.3	7661.4	8287.8	8963.8
67.5°	4274.2	4667.3	4998.4	5560.3	6386.4	6702.6	6504.2	6530.3	7048.7	7697.4	8305.2
70°	4527.2	4996.0	5168.4	5591.4	6352.9	6478.2	5921.2	5576.5	5991.9	6731.2	7263.3
72.5°	4461.4	4999.8	4981.1	5178.4	5683.1	5799.8	5223.0	4679.7	4926.5	5478.5	5823.3
75°	3821.4	4465.1	4328.7	4289.0	4466.4	4543.3	4110.4	4027.3	4338.6	4645.0	4650.0
77.5°	2751.0	3459.3	3299.3	3069.8	3057.4	3234.7	3293.0	3837.5	4297.7	4539.6	4432.9
80°	1752.6	2520.3	2354.2	1953.5	1947.3	2178.0	2690.2	3430.7	3918.2	4053.3	3775.6
82.5°	915.4	1649.6	1712.8	1466.1	1678.1	2060.2	2560.0	2764.7	2949.5	2968.1	2640.7
85°	570.5	1014.6	1193.2	1231.6	1515.6	1827.0	1823.3	1751.4	1669.5	1428.8	1292.4
87.5°	64.5	127.7	193.5	183.5	246.8	346.0	431.6	253.0	177.4	64.5	89.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180988

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1288.7	1290.0	1291.2	1291.2	1297.4	1296.1	1297.4	1299.8	1303.5	1306.1	1308.6
5°	1298.6	1298.6	1303.5	1307.3	1314.7	1319.7	1322.1	1329.6	1338.3	1335.8	1343.3
7.5°	1330.9	1329.6	1334.6	1337.0	1343.3	1351.9	1350.7	1356.9	1364.4	1366.8	1373.0
10°	1374.2	1370.5	1370.5	1368.1	1369.3	1366.8	1366.8	1366.8	1371.8	1370.5	1375.5
12.5°	1418.9	1417.7	1415.2	1407.7	1407.7	1397.9	1392.8	1386.7	1385.4	1376.8	1378.0
15°	1510.7	1510.7	1505.8	1490.9	1478.4	1469.8	1457.4	1448.7	1436.3	1420.2	1411.5
17.5°	1644.7	1627.3	1621.1	1618.6	1598.8	1591.4	1564.0	1535.5	1521.9	1499.5	1487.2
20°	1808.4	1804.7	1779.8	1767.5	1742.6	1707.9	1673.2	1636.0	1613.7	1586.3	1571.5
22.5°	1993.2	1965.9	1953.5	1934.9	1896.5	1856.8	1804.7	1755.1	1720.3	1701.7	1690.5
25°	2209.0	2181.7	2169.3	2144.5	2097.4	2055.2	1990.7	1932.4	1901.4	1870.4	1853.0
27.5°	2495.6	2469.5	2454.6	2390.1	2374.0	2304.5	2225.1	2145.8	2104.9	2058.9	2029.1
30°	2923.5	2924.7	2847.7	2769.6	2689.0	2568.7	2485.6	2396.3	2329.3	2263.5	2197.9
32.5°	3646.5	3461.7	3319.1	3151.6	2976.8	2849.0	2746.1	2639.4	2546.3	2450.9	2341.7
35°	4088.1	3998.8	3814.0	3507.6	3331.5	3176.5	3062.3	2933.3	2819.3	2650.5	2484.4
37.5°	4586.7	4379.6	4155.1	3985.1	3785.4	3605.6	3414.6	3268.2	3071.0	2844.0	2608.4
40°	5314.7	5018.4	4747.9	4519.7	4261.7	4073.2	3859.8	3647.7	3386.1	3057.4	2733.7
42.5°	6075.1	5768.7	5411.5	5115.1	4811.2	4590.4	4326.3	4028.6	3644.0	3237.2	2841.6
45°	6872.6	6463.3	6035.4	5673.2	5357.0	5082.8	4755.4	4361.0	3892.1	3398.4	2942.1
47.5°	7658.9	7188.9	6679.1	6289.6	5877.9	5543.0	5141.1	4642.5	4085.6	3551.0	3042.5
50°	8352.3	7899.6	7285.6	6790.7	6374.0	5961.0	5459.8	4859.6	4238.2	3682.5	3133.0
52.5°	8950.1	8560.7	7914.5	7289.3	6809.3	6345.4	5716.6	5034.4	4391.9	3804.0	3207.5
55°	9389.2	9130.0	8534.7	7759.4	7192.6	6639.4	5933.7	5203.1	4537.1	3900.8	3255.8
57.5°	9720.3	9576.5	9065.5	8202.2	7544.9	6924.7	6158.2	5405.3	4681.0	3983.9	3278.2
60°	9901.5	9941.2	9467.3	8589.2	7856.1	7162.8	6382.6	5577.7	4787.7	4032.3	3265.8
62.5°	9884.1	10127.2	9768.7	8827.3	8037.3	7304.2	6534.0	5658.4	4772.8	3955.4	3152.9
63°	9850.6	10133.4	9802.2	8843.5	8048.4	7309.2	6537.7	5647.2	4741.7	3918.2	3108.2
65°	9561.6	9990.8	9773.7	8770.3	7949.2	7216.1	6459.6	5485.9	4523.5	3718.4	2878.8
67.5°	8787.7	9324.7	9262.7	8253.1	7479.1	6831.7	6060.2	4966.3	3983.9	3227.3	2439.7
70°	7508.9	8013.7	8024.9	7177.7	6531.5	5896.5	5255.2	4041.0	3157.9	2501.7	1819.5
72.5°	5755.1	6080.0	6192.9	5634.7	5201.9	4755.4	4179.8	2933.3	2251.2	1701.7	1184.5
75°	4456.5	4367.2	4365.9	4130.3	3954.2	3735.8	3103.3	1979.5	1478.4	1106.3	724.4
77.5°	4006.3	3609.3	3224.9	2942.1	2800.7	2727.5	2035.4	1193.2	871.9	636.3	416.7
80°	3304.2	2718.8	2196.6	1891.5	1770.0	1854.2	1134.9	644.9	477.5	362.1	270.4
82.5°	2278.4	1891.5	1437.5	1190.7	1022.1	1069.1	580.5	330.0	220.7	202.1	167.4
85°	1187.0	1040.7	878.1	754.1	666.1	585.4	301.4	157.5	91.8	80.7	73.2
87.5°	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180988

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1312.3	1311.0	1313.5	1314.7	1318.4	1320.9	1322.1	1319.7	1323.4	1327.2	1324.7
5°	1347.0	1355.6	1356.9	1360.7	1360.7	1368.1	1368.1	1368.1	1366.8	1368.1	1365.6
7.5°	1376.8	1387.9	1389.1	1394.1	1395.4	1404.0	1400.3	1402.8	1402.8	1396.6	1394.1
10°	1380.5	1391.6	1397.9	1404.0	1412.8	1423.9	1423.9	1430.1	1430.1	1425.1	1423.9
12.5°	1381.7	1390.4	1396.6	1405.3	1417.7	1433.8	1442.5	1451.2	1454.9	1453.7	1450.0
15°	1407.7	1407.7	1409.0	1416.5	1425.1	1444.9	1457.4	1467.3	1473.5	1471.0	1464.8
17.5°	1476.0	1466.1	1458.6	1446.2	1448.7	1458.6	1466.1	1474.7	1476.0	1473.5	1463.5
20°	1555.4	1543.0	1524.4	1504.5	1494.6	1487.2	1482.1	1482.1	1478.4	1466.1	1450.0
22.5°	1668.2	1652.1	1626.1	1596.3	1576.5	1552.8	1524.4	1497.0	1467.3	1437.5	1402.8
25°	1824.5	1802.2	1774.9	1729.0	1686.8	1637.2	1578.9	1518.1	1447.5	1385.4	1334.6
27.5°	1982.1	1932.4	1861.7	1798.4	1720.3	1645.9	1562.8	1488.4	1397.9	1323.4	1267.6
30°	2112.3	2018.0	1916.3	1815.8	1712.8	1612.4	1513.2	1423.9	1324.7	1249.0	1194.4
32.5°	2212.8	2082.5	1941.1	1809.6	1683.1	1560.3	1446.2	1347.0	1246.5	1168.4	1110.1
35°	2305.8	2124.7	1944.8	1782.3	1626.1	1498.3	1369.3	1261.4	1154.7	1072.8	1009.6
37.5°	2375.2	2144.5	1922.5	1731.5	1551.6	1409.0	1277.5	1167.2	1058.0	968.7	896.7
40°	2419.8	2132.1	1874.2	1658.3	1463.5	1313.5	1179.5	1065.4	960.0	862.1	775.2
42.5°	2455.8	2116.0	1825.8	1591.4	1394.1	1230.4	1092.8	970.0	863.3	756.6	661.1
45°	2509.1	2128.4	1804.7	1544.2	1332.1	1159.7	1008.4	880.7	769.0	664.8	573.0
47.5°	2561.2	2134.6	1773.7	1485.9	1254.0	1086.5	932.7	808.7	694.6	599.1	514.7
50°	2608.4	2130.9	1725.3	1411.5	1178.3	1013.3	864.5	740.5	627.6	539.5	460.2
52.5°	2630.7	2109.8	1665.8	1339.5	1117.5	948.8	797.5	677.2	565.6	482.5	409.3
55°	2628.2	2055.2	1587.6	1271.4	1050.5	880.7	731.8	612.7	512.3	435.4	372.1
57.5°	2591.0	1970.9	1504.5	1195.6	962.5	796.3	654.9	539.5	455.2	390.7	337.4
60°	2512.9	1863.0	1395.4	1085.3	852.1	692.1	559.4	460.2	391.9	342.3	307.6
62.5°	2366.5	1707.9	1258.9	931.4	703.3	556.9	441.6	377.0	326.2	296.5	280.3
63°	2323.1	1665.8	1200.7	894.2	668.6	525.9	416.7	349.8	312.6	286.5	271.6
65°	2107.3	1458.6	1004.7	721.9	519.7	405.6	334.9	284.0	261.7	250.5	249.3
67.5°	1706.7	1147.3	710.7	494.9	353.5	292.7	256.7	235.6	225.8	223.3	225.8
70°	1198.1	724.4	451.4	328.7	261.7	235.6	219.5	210.9	204.7	205.9	208.4
72.5°	764.0	434.1	310.0	249.3	220.7	207.2	199.7	197.2	196.0	194.7	194.7
75°	435.4	289.0	238.1	215.8	200.9	189.8	183.5	181.1	182.3	183.5	181.1
77.5°	287.7	238.1	212.1	197.2	183.5	171.2	167.4	166.2	168.7	171.2	171.2
80°	227.0	212.1	197.2	182.3	160.0	151.3	153.8	155.1	153.8	155.1	151.3
82.5°	160.0	157.5	161.2	155.1	132.7	125.3	122.8	124.0	121.6	121.6	119.1
85°	74.4	74.4	78.1	78.1	75.6	76.9	83.1	90.5	94.2	90.5	85.6
87.5°	0.0	0.0	0.0	0.0	0.0	11.2	22.3	32.3	34.7	43.4	42.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180988

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1320.9	1323.4	1322.1	1320.9	1323.4	1320.9	1322.1	1320.9	1320.9	1319.7	1319.7
5°	1363.1	1366.8	1359.4	1358.1	1355.6	1349.5	1349.5	1347.0	1347.0	1342.1	1338.3
7.5°	1390.4	1391.6	1385.4	1384.2	1378.0	1371.8	1366.8	1361.9	1360.7	1356.9	1349.5
10°	1416.5	1414.0	1409.0	1402.8	1396.6	1387.9	1381.7	1375.5	1374.2	1368.1	1359.4
12.5°	1438.8	1437.5	1427.6	1421.4	1411.5	1402.8	1395.4	1387.9	1384.2	1376.8	1364.4
15°	1453.7	1446.2	1433.8	1422.6	1411.5	1401.6	1392.8	1384.2	1380.5	1371.8	1359.4
17.5°	1447.5	1433.8	1417.7	1404.0	1389.1	1376.8	1369.3	1360.7	1354.4	1349.5	1332.1
20°	1425.1	1405.3	1380.5	1364.4	1344.5	1328.4	1323.4	1314.7	1309.8	1291.2	1268.8
22.5°	1366.8	1338.3	1307.3	1283.7	1261.4	1245.3	1232.8	1224.2	1211.8	1200.7	1165.9
25°	1293.7	1261.4	1229.1	1200.7	1170.9	1146.1	1123.7	1102.6	1096.5	1072.8	1039.4
27.5°	1223.0	1187.0	1154.7	1121.2	1082.8	1051.8	1013.3	983.5	963.7	938.9	907.9
30°	1147.3	1111.4	1067.9	1023.3	978.6	945.1	901.7	865.8	840.9	814.9	786.3
32.5°	1051.8	1008.4	956.3	906.7	865.8	826.1	782.6	747.9	723.1	699.5	672.3
35°	942.6	885.6	829.8	775.2	731.8	698.3	659.8	633.8	616.5	595.4	566.8
37.5°	817.4	752.8	693.3	651.2	612.7	580.5	553.2	537.0	518.4	507.3	490.0
40°	690.9	627.6	569.3	530.9	498.6	480.0	465.1	461.4	449.0	434.1	423.0
42.5°	579.3	518.4	461.4	430.4	409.3	404.4	396.9	396.9	390.7	379.5	372.1
45°	503.5	440.3	390.7	368.4	357.2	356.0	352.3	352.3	351.0	346.0	337.4
47.5°	449.0	391.9	353.5	339.8	337.4	334.9	331.2	330.0	328.7	324.9	320.0
50°	399.4	351.0	326.2	320.0	321.2	317.5	313.8	310.0	308.8	305.1	300.2
52.5°	353.5	318.8	302.6	298.9	298.9	298.9	296.5	296.5	294.0	292.7	287.7
55°	327.4	301.4	292.7	291.4	290.2	289.0	286.5	286.5	284.0	282.8	276.6
57.5°	305.1	289.0	284.0	281.6	280.3	277.9	276.6	276.6	276.6	276.6	269.1
60°	287.7	280.3	279.1	276.6	275.4	270.4	267.9	266.7	267.9	269.1	261.7
62.5°	269.1	267.9	266.7	264.2	263.0	258.0	254.2	251.8	254.2	256.7	255.5
63°	264.2	263.0	263.0	261.7	260.5	254.2	250.5	248.1	250.5	253.0	253.0
65°	246.8	248.1	248.1	246.8	245.6	241.9	236.9	234.4	235.6	239.4	240.7
67.5°	228.2	229.5	228.2	229.5	228.2	225.8	222.0	219.5	218.3	219.5	220.7
70°	210.9	213.3	212.1	210.9	209.6	209.6	207.2	203.4	202.1	200.9	200.9
72.5°	196.0	196.0	193.5	193.5	192.3	192.3	189.8	186.0	184.8	184.8	182.3
75°	179.8	179.8	176.1	176.1	173.7	174.9	172.4	168.7	167.4	167.4	166.2
77.5°	170.0	166.2	160.0	158.8	157.5	157.5	156.3	152.6	151.3	151.3	150.0
80°	150.0	142.6	136.5	135.2	136.5	138.9	138.9	136.5	136.5	136.5	136.5
82.5°	116.6	114.1	110.4	107.9	107.9	111.6	116.6	119.1	121.6	124.0	124.0
85°	85.6	86.8	85.6	81.9	80.7	84.4	89.3	94.2	95.5	100.5	99.3
87.5°	45.9	47.2	43.4	42.1	45.9	48.4	53.3	54.6	57.0	58.3	59.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180988

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1318.4	1317.2	1318.4	1316.0	1316.0	1313.5	1311.0	1309.8	1307.3	1306.1	1303.5
5°	1340.8	1337.0	1333.3	1332.1	1327.2	1322.1	1318.4	1312.3	1307.3	1298.6	1296.1
7.5°	1355.6	1347.0	1342.1	1340.8	1333.3	1329.6	1320.9	1313.5	1306.1	1294.9	1291.2
10°	1361.9	1353.2	1344.5	1340.8	1332.1	1325.9	1317.2	1306.1	1299.8	1288.7	1286.2
12.5°	1369.3	1353.2	1339.5	1329.6	1317.2	1303.5	1294.9	1288.7	1280.0	1273.8	1271.4
15°	1355.6	1334.6	1313.5	1294.9	1275.1	1260.2	1251.4	1241.6	1231.6	1227.9	1227.9
17.5°	1318.4	1291.2	1255.2	1231.6	1210.5	1194.4	1183.3	1173.3	1172.1	1167.2	1169.6
20°	1241.6	1205.6	1170.9	1153.5	1141.1	1131.2	1120.0	1115.1	1111.4	1103.9	1101.4
22.5°	1134.9	1105.1	1080.3	1067.9	1058.0	1045.6	1035.6	1020.8	1017.0	1009.6	1005.9
25°	1017.0	993.5	972.4	963.7	957.5	940.2	934.0	914.1	900.5	891.8	896.7
27.5°	899.3	881.9	862.1	850.9	847.2	831.0	824.8	802.5	791.4	791.4	778.9
30°	777.7	761.6	749.1	736.7	734.2	714.4	698.3	689.6	677.2	672.3	663.5
32.5°	663.5	647.4	637.5	631.4	621.4	605.3	589.1	574.2	554.4	547.0	543.3
35°	558.1	545.8	533.3	528.4	514.7	497.4	477.5	465.1	441.6	432.8	429.1
37.5°	477.5	462.6	454.0	440.3	426.7	408.1	393.2	382.0	373.3	369.6	369.6
40°	413.0	401.9	391.9	380.7	369.6	359.7	352.3	349.8	348.6	348.6	351.0
42.5°	364.7	354.7	349.8	343.5	339.8	339.8	338.6	339.8	341.1	342.3	346.0
45°	332.4	326.2	323.7	322.5	324.9	327.4	328.7	331.2	336.1	338.6	339.8
47.5°	315.1	310.0	308.8	310.0	313.8	318.8	323.7	327.4	331.2	332.4	333.7
50°	297.7	291.4	289.0	291.4	296.5	303.9	307.6	313.8	316.3	318.8	316.3
52.5°	282.8	277.9	276.6	276.6	281.6	286.5	291.4	296.5	297.7	297.7	296.5
55°	270.4	266.7	263.0	265.4	269.1	274.1	281.6	285.3	287.7	289.0	289.0
57.5°	260.5	256.7	253.0	255.5	259.3	264.2	271.6	275.4	277.9	281.6	282.8
60°	253.0	248.1	244.4	248.1	251.8	259.3	265.4	269.1	275.4	276.6	276.6
62.5°	245.6	240.7	234.4	238.1	238.1	241.9	248.1	253.0	259.3	261.7	261.7
63°	244.4	239.4	233.2	235.6	235.6	238.1	243.1	248.1	255.5	258.0	256.7
65°	234.4	233.2	227.0	227.0	224.5	227.0	230.7	235.6	239.4	243.1	243.1
67.5°	218.3	217.0	215.8	215.8	215.8	218.3	220.7	224.5	228.2	230.7	229.5
70°	199.7	199.7	199.7	200.9	200.9	203.4	204.7	203.4	207.2	209.6	208.4
72.5°	183.5	182.3	181.1	183.5	182.3	182.3	184.8	183.5	187.3	187.3	188.6
75°	166.2	164.9	164.9	166.2	163.7	161.2	162.5	162.5	163.7	163.7	166.2
77.5°	151.3	151.3	151.3	150.0	147.6	146.3	145.1	145.1	145.1	145.1	146.3
80°	137.7	137.7	137.7	136.5	134.0	131.4	129.0	127.7	126.5	120.3	120.3
82.5°	124.0	124.0	124.0	124.0	122.8	120.3	116.6	106.7	101.7	96.7	98.0
85°	98.0	100.5	103.0	106.7	105.4	105.4	98.0	85.6	78.1	73.2	74.4
87.5°	63.3	55.8	55.8	54.6	52.1	49.6	49.6	42.1	34.7	31.0	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P180988
 CATALOG NUMBER: ICM-E04-LED-E1-SLL

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	0°
2.5°	1303.5	1301.1	1298.6	1298.6	1294.9	1294.9	1292.4	1297.4	1292.4	1288.7	1288.7	2.5°
5°	1293.7	1291.2	1283.7	1282.5	1277.5	1277.5	1277.5	1275.1	1275.1	1272.6	1271.4	5°
7.5°	1287.4	1281.2	1275.1	1271.4	1271.4	1268.8	1273.8	1271.4	1272.6	1272.6	1273.8	7.5°
10°	1282.5	1277.5	1275.1	1273.8	1273.8	1277.5	1281.2	1282.5	1281.2	1282.5	1282.5	10°
12.5°	1270.1	1272.6	1273.8	1278.8	1284.9	1292.4	1301.1	1302.3	1304.8	1304.8	1307.3	12.5°
15°	1230.4	1236.6	1244.0	1256.5	1272.6	1288.7	1304.8	1318.4	1330.9	1337.0	1342.1	15°
17.5°	1174.6	1180.8	1194.4	1208.1	1229.1	1252.8	1280.0	1303.5	1329.6	1353.2	1376.8	17.5°
20°	1098.9	1108.8	1112.6	1137.4	1162.1	1194.4	1226.7	1263.9	1308.6	1353.2	1399.1	20°
22.5°	1000.9	1012.1	1029.5	1049.3	1075.4	1115.1	1153.5	1211.8	1271.4	1334.6	1406.5	22.5°
25°	891.8	904.2	919.1	940.2	966.2	1008.4	1064.2	1126.2	1199.4	1282.5	1371.8	25°
27.5°	778.9	791.4	803.7	818.6	848.4	893.0	958.8	1023.3	1103.9	1194.4	1298.6	27.5°
30°	666.1	667.3	674.7	693.3	724.4	782.6	831.0	911.6	996.0	1091.4	1211.8	30°
32.5°	542.0	540.7	549.5	565.6	595.4	651.2	710.7	788.8	871.9	992.3	1116.3	32.5°
35°	431.6	431.6	447.7	463.9	497.4	537.0	589.1	658.6	756.6	868.2	992.3	35°
37.5°	373.3	382.0	391.9	408.1	434.1	465.1	511.0	571.8	648.7	755.4	869.5	37.5°
40°	354.7	359.7	368.4	383.3	405.6	434.1	467.6	513.5	573.0	658.6	762.8	40°
42.5°	347.3	348.6	353.5	364.7	384.5	413.0	447.7	488.7	533.3	594.1	684.7	42.5°
45°	339.8	338.6	341.1	349.8	365.9	398.1	437.9	482.5	527.2	578.0	652.4	45°
47.5°	333.7	333.7	333.7	337.4	352.3	384.5	430.4	482.5	535.8	592.8	666.1	47.5°
50°	316.3	315.1	315.1	317.5	328.7	363.4	418.0	481.2	550.7	625.1	708.2	50°
52.5°	296.5	296.5	297.7	298.9	308.8	343.5	404.4	481.2	568.1	667.3	771.4	52.5°
55°	290.2	291.4	292.7	291.4	298.9	328.7	389.5	473.8	575.5	700.7	839.7	55°
57.5°	285.3	287.7	287.7	286.5	291.4	316.3	374.6	458.9	569.3	713.2	888.1	57.5°
60°	277.9	277.9	277.9	274.1	276.6	298.9	352.3	435.4	549.5	702.1	895.5	60°
62.5°	261.7	261.7	259.3	258.0	256.7	274.1	322.5	400.7	513.5	672.3	876.9	62.5°
63°	258.0	256.7	256.7	253.0	253.0	269.1	316.3	395.6	503.5	664.8	869.5	63°
65°	244.4	244.4	244.4	241.9	240.7	253.0	291.4	360.9	465.1	630.1	832.3	65°
67.5°	229.5	230.7	228.2	227.0	225.8	233.2	263.0	317.5	405.6	556.9	762.8	67.5°
70°	208.4	209.6	209.6	208.4	207.2	212.1	230.7	272.8	336.1	463.9	650.0	70°
72.5°	189.8	192.3	192.3	194.7	194.7	198.4	205.9	227.0	269.1	362.1	511.0	72.5°
75°	170.0	171.2	173.7	176.1	173.7	172.4	173.7	189.8	210.9	267.9	364.7	75°
77.5°	152.6	156.3	156.3	155.1	151.3	148.8	148.8	156.3	173.7	203.4	260.5	77.5°
80°	126.5	132.7	134.0	130.2	126.5	126.5	129.0	134.0	145.1	167.4	197.2	80°
82.5°	101.7	107.9	109.1	110.4	109.1	112.8	112.8	114.1	120.3	137.7	161.2	82.5°
85°	78.1	83.1	86.8	88.1	89.3	90.5	89.3	83.1	86.8	98.0	109.1	85°
87.5°	34.7	36.0	33.5	34.7	33.5	34.7	36.0	29.8	28.6	38.4	39.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P180988

NUMBER: ICM-E04-LED-E1-SLL

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
1287.4	1287.4	1288.7	1286.2	1286.2	1287.4	1283.7
1267.6	1272.6	1272.6	1272.6	1270.1	1272.6	1273.8
1272.6	1276.3	1278.8	1278.8	1277.5	1282.5	1286.2
1278.8	1284.9	1287.4	1287.4	1287.4	1293.7	1302.3
1302.3	1307.3	1311.0	1311.0	1313.5	1320.9	1330.9
1345.8	1351.9	1351.9	1350.7	1358.1	1366.8	1378.0
1394.1	1411.5	1420.2	1418.9	1425.1	1436.3	1448.7
1440.0	1488.4	1509.5	1524.4	1530.5	1545.4	1549.1
1478.4	1559.1	1617.4	1667.0	1690.5	1705.4	1722.8
1464.8	1574.0	1678.1	1779.8	1851.8	1924.9	1956.0
1409.0	1545.4	1681.9	1830.7	1960.9	2091.2	2185.4
1340.8	1504.5	1688.1	1898.9	2104.9	2304.5	2463.3
1262.6	1466.1	1701.7	1962.2	2232.6	2494.2	2723.7
1164.7	1392.8	1668.2	1968.4	2287.2	2604.7	2902.3
1040.7	1293.7	1590.1	1923.7	2289.6	2653.0	3009.0
916.6	1168.4	1490.9	1859.3	2257.4	2664.2	3076.0
829.8	1056.8	1390.4	1777.4	2205.3	2646.8	3108.2
770.2	976.1	1301.1	1703.0	2149.5	2615.8	3113.2
765.3	941.4	1242.8	1648.4	2104.9	2588.6	3113.2
807.4	960.0	1223.0	1621.1	2086.2	2579.8	3115.6
886.8	1034.4	1258.9	1642.1	2101.1	2591.0	3126.8
982.3	1147.3	1355.6	1715.4	2164.4	2628.2	3151.6
1069.1	1277.5	1520.7	1856.8	2279.7	2722.5	3221.1
1120.0	1389.1	1695.5	2055.2	2476.9	2909.8	3360.0
1126.2	1451.2	1850.5	2271.0	2716.3	3124.4	3582.1
1121.2	1456.1	1870.4	2311.9	2767.2	3177.7	3658.9
1094.0	1457.4	1926.2	2455.8	2943.3	3402.2	3873.5
1024.5	1417.7	1946.1	2568.7	3165.3	3697.4	4274.2
904.2	1304.8	1887.7	2571.2	3250.9	3862.3	4527.2
726.8	1090.2	1636.0	2339.3	3025.1	3699.8	4461.4
532.1	801.2	1236.6	1812.1	2468.2	3079.7	3821.4
353.5	518.4	833.5	1291.2	1770.0	2216.5	2751.0
243.1	321.2	487.4	776.5	1082.8	1299.8	1752.6
178.6	212.1	270.4	396.9	520.9	641.2	915.4
111.6	121.6	135.2	196.0	280.3	378.3	570.5
29.8	31.0	28.6	38.4	60.7	58.3	64.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)