

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: P141393

Luminaire Tested: **ECM-F02-LED-E1-SLL-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141393
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F02-LED-E1-SLL-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3644.7 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

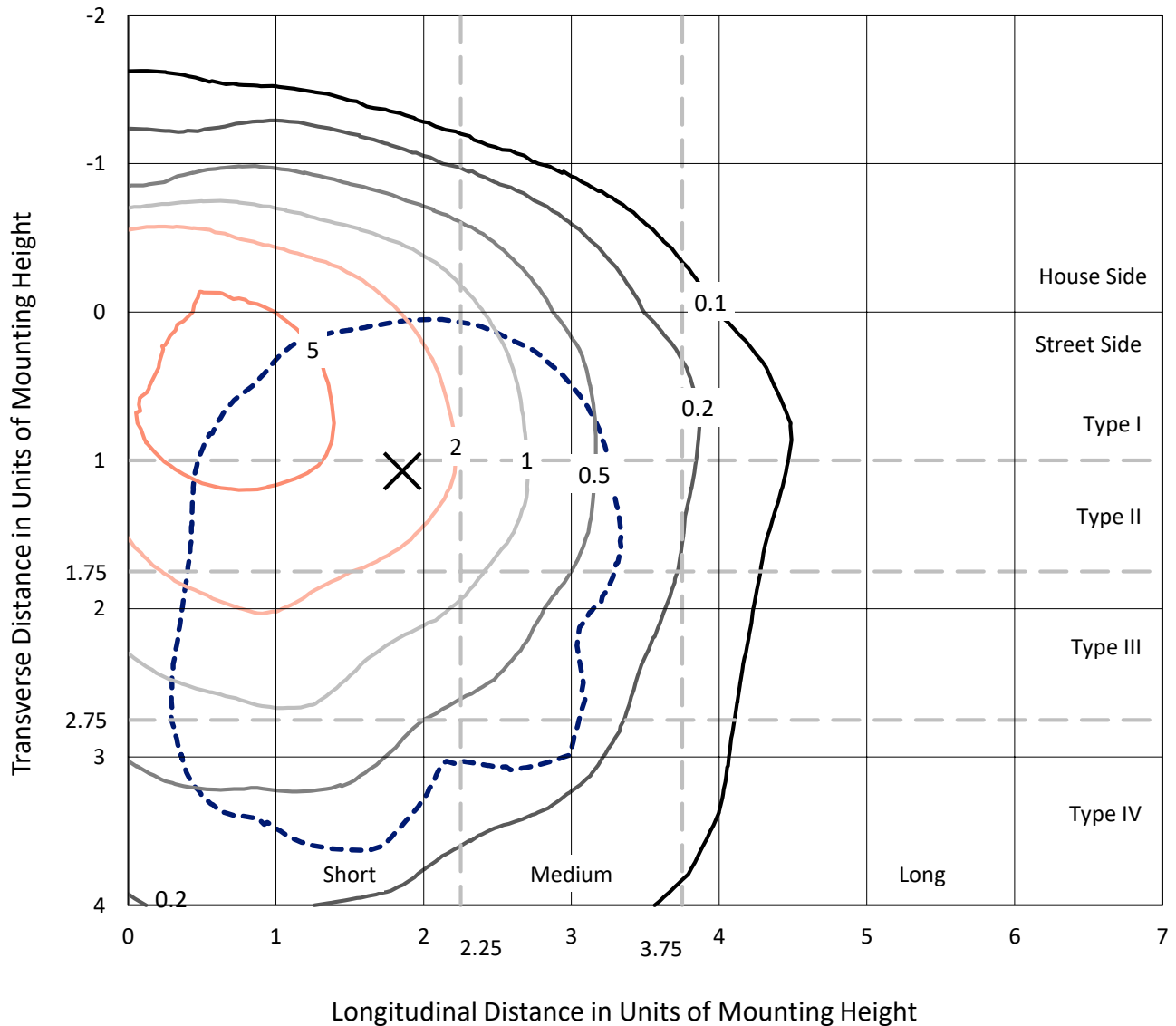
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

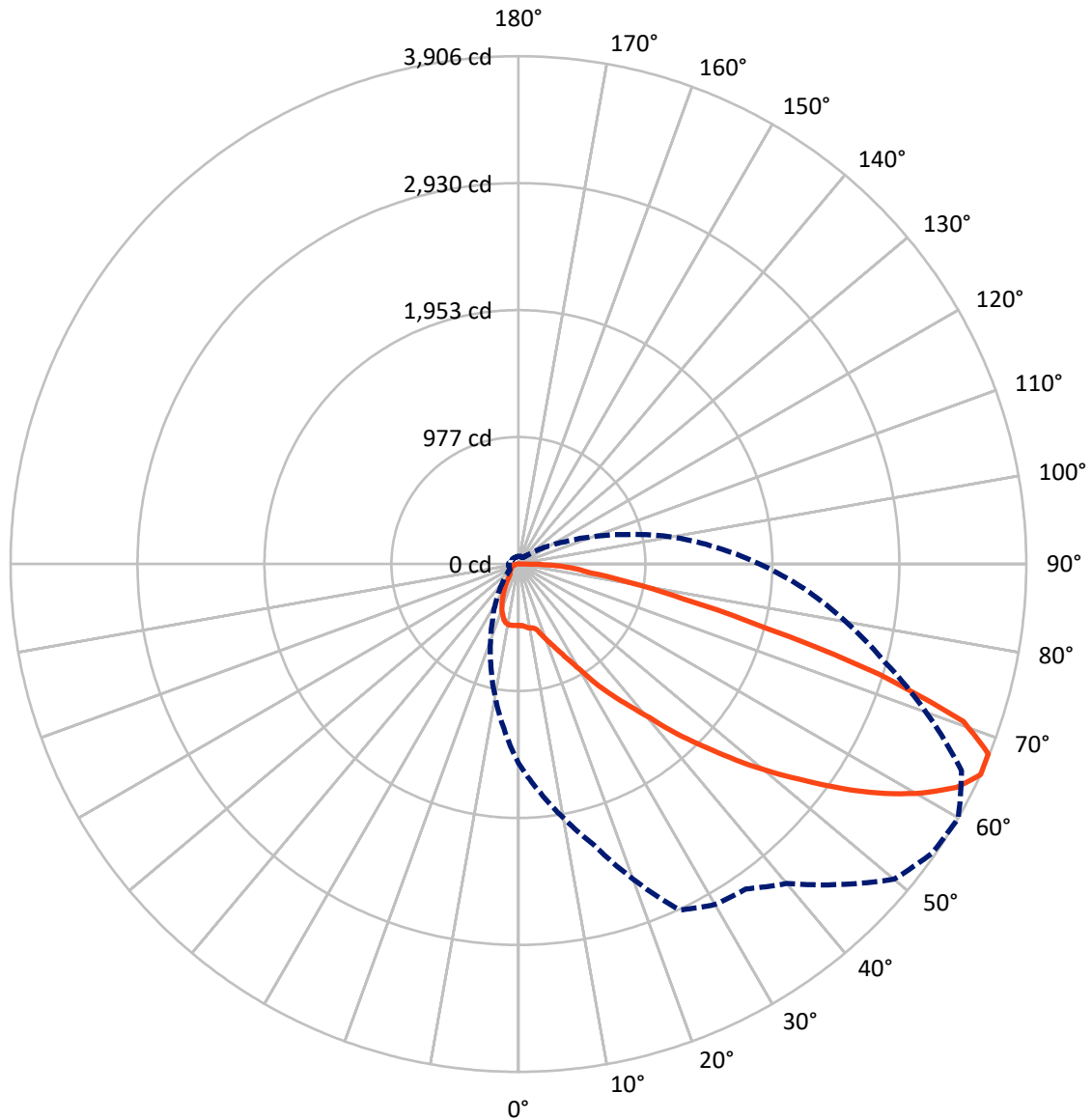
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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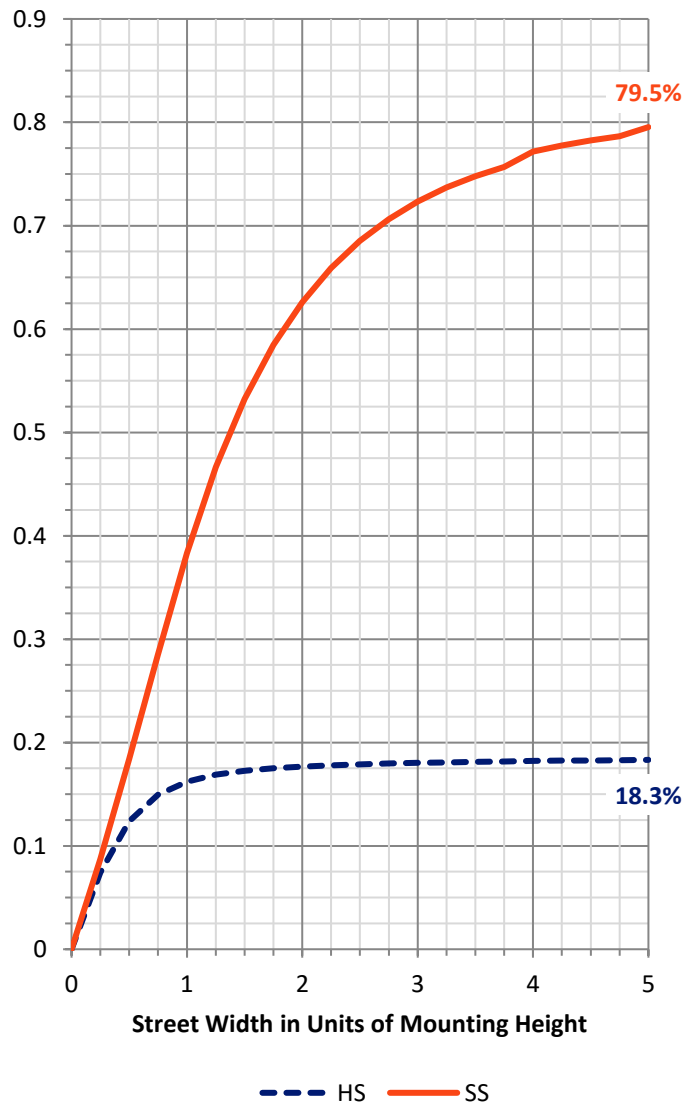
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	676.0	0.0	676.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	2968.7	0.0	2968.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	3644.7	0.0	3644.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.3
10°-20°	137.7	3.8
20°-30°	228.7	6.3
30°-40°	334.4	9.2
40°-50°	508.6	14.0
50°-60°	731.1	20.1
60°-70°	898.9	24.7
70°-80°	601.3	16.5
80°-90°	158.2	4.3
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°	3644.7	100.0
0°-180°	3644.7	100.0

Coefficient of Utilization



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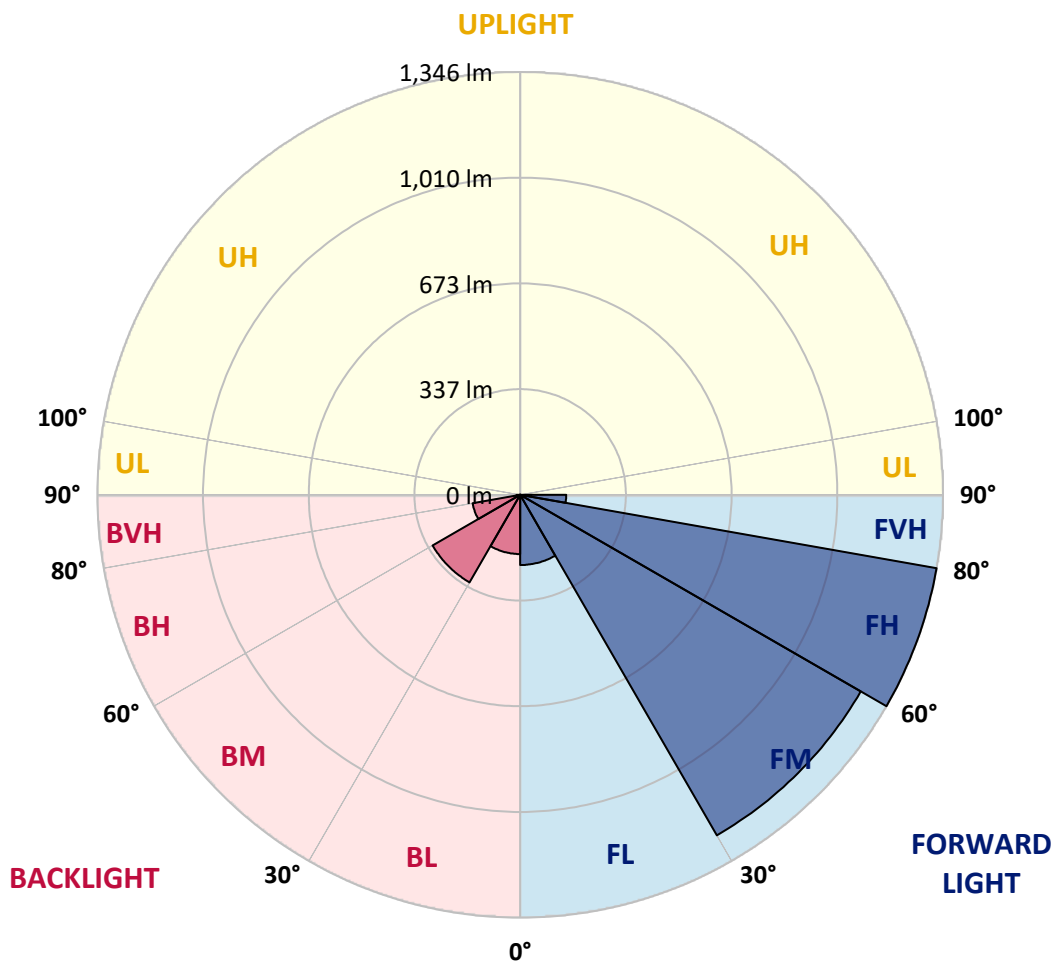
CATALOG NUMBER: ECM-F02-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.6	6.1			
FM	(30°-60°)	1252.1	34.4			
FH	(60°-80°)	1346.3	36.9			G1/1800
FVH	(80°-90°)	146.7	4.0			G2/225
BL	(0°-30°)	188.7	5.2	B1/500		
BM	(30°-60°)	322.0	8.8	B1/1000		
BH	(60°-80°)	153.8	4.2	B1/500		G1/500
BVH	(80°-90°)	11.5	0.3			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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	474.2	474.7	474.7	474.2	473.8	474.2	473.3	474.2	473.8	473.3	473.8
5°	468.2	468.7	469.6	469.6	470.5	472.4	472.9	475.2	476.6	477.0	478.9
7.5°	453.8	456.1	457.5	459.4	462.2	466.8	470.1	475.6	479.8	483.5	488.6
10°	445.0	447.8	450.6	454.7	458.9	465.0	470.5	477.5	483.1	488.6	494.7
12.5°	447.3	450.6	454.3	457.5	464.0	469.6	476.6	484.9	487.7	493.3	498.4
15°	466.3	469.1	471.9	475.6	481.7	488.2	497.5	506.8	508.6	514.7	520.2
17.5°	491.9	492.4	497.0	503.5	509.1	519.8	530.9	543.5	551.4	555.1	558.3
20°	518.4	519.8	527.2	533.2	545.8	559.7	576.0	594.5	601.1	617.3	623.3
22.5°	557.9	557.4	566.2	574.6	588.5	603.4	627.1	652.6	667.5	680.0	684.7
25°	617.8	619.2	617.8	629.8	644.2	668.4	692.1	717.6	726.5	748.3	758.5
27.5°	677.2	687.9	702.3	706.0	723.7	751.5	770.1	797.5	818.9	824.9	841.7
30°	732.5	754.8	778.5	798.5	830.0	864.0	891.8	922.9	924.3	935.5	940.1
32.5°	788.7	823.5	858.4	883.9	914.6	959.6	1011.2	1061.8	1094.8	1128.7	1111.5
35°	859.3	913.7	962.4	1001.9	1027.9	1069.7	1129.2	1211.4	1264.3	1304.8	1328.0
37.5°	923.9	1006.1	1080.9	1137.1	1200.7	1230.4	1269.5	1328.9	1389.8	1427.4	1446.9
40°	971.2	1083.7	1189.6	1270.8	1351.7	1422.7	1472.0	1520.3	1602.5	1649.4	1653.1
42.5°	1008.4	1151.5	1279.2	1395.8	1514.7	1614.1	1673.6	1734.9	1839.4	1893.7	1889.5
45°	1034.0	1202.1	1360.5	1504.0	1648.0	1777.6	1892.3	1983.4	2090.2	2193.8	2172.9
47.5°	1056.3	1243.9	1425.1	1587.2	1760.0	1921.6	2064.7	2192.9	2334.1	2473.9	2482.2
50°	1078.5	1277.8	1483.6	1670.3	1864.9	2067.9	2240.7	2405.6	2582.1	2760.0	2800.9
52.5°	1109.2	1315.9	1537.9	1746.0	1972.2	2186.4	2379.1	2584.4	2802.7	2974.6	3090.7
55°	1155.2	1368.9	1605.3	1821.7	2068.4	2304.3	2517.5	2754.4	2955.1	3167.4	3332.7
57.5°	1230.4	1439.5	1683.3	1904.4	2161.3	2411.2	2632.7	2881.2	3072.6	3308.1	3515.7
60°	1325.7	1535.6	1771.6	2002.4	2270.4	2561.2	2784.6	2968.6	3160.4	3398.7	3648.6
62.5°	1433.9	1644.3	1879.3	2117.6	2422.3	2737.2	2929.1	3034.1	3201.3	3460.9	3734.5
65°	1529.1	1746.0	1980.6	2233.3	2577.9	2936.0	3024.3	3050.8	3207.3	3486.0	3771.7
67.5°	1607.1	1856.6	2075.3	2327.1	2741.9	3062.4	3026.2	2973.2	3125.1	3425.2	3700.6
70°	1648.0	1905.8	2120.4	2335.5	2776.7	3080.0	2953.2	2809.2	2878.4	3172.0	3402.4
72.5°	1603.0	1867.3	2036.8	2170.6	2568.2	2862.7	2701.0	2429.3	2492.5	2776.7	2836.2
75°	1426.4	1745.6	1844.5	1839.8	2054.0	2206.3	2089.3	1916.0	2077.2	2195.6	2134.8
77.5°	1065.1	1429.7	1485.0	1383.3	1428.8	1557.0	1446.4	1581.1	1776.7	1830.1	1714.9
80°	669.8	1047.9	1053.9	927.1	903.0	953.1	1095.7	1382.3	1569.0	1557.9	1405.5
82.5°	373.0	679.5	744.1	628.0	598.3	721.4	975.9	1128.2	1103.6	1094.3	896.0
85°	255.0	464.0	567.1	543.9	601.5	719.5	800.3	715.3	688.8	586.7	476.1
87.5°	103.6	209.0	351.6	404.1	428.7	526.3	460.8	375.3	288.9	274.0	235.5
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°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	472.4	473.3	473.3	473.8	474.2	474.7	474.7	474.7	475.2	475.6	475.2
5°	479.4	480.7	481.7	481.7	482.6	483.5	484.5	484.0	485.4	486.3	486.8
7.5°	490.5	493.3	495.6	497.5	498.4	498.4	498.4	497.0	498.4	498.9	499.3
10°	498.4	501.6	502.1	504.0	503.5	503.0	502.1	501.2	501.6	502.6	504.0
12.5°	500.7	504.0	504.9	506.3	505.8	505.4	503.5	503.5	503.0	504.4	505.8
15°	519.8	522.6	527.2	523.0	523.5	519.8	516.5	514.7	513.7	514.7	515.6
17.5°	563.4	568.1	566.2	559.7	559.2	551.4	550.0	540.7	540.7	540.7	537.9
20°	623.3	622.9	619.6	613.1	599.2	596.4	586.2	578.8	571.8	570.4	567.1
22.5°	688.8	681.9	680.0	666.5	657.7	641.0	625.7	620.1	613.6	612.2	611.7
25°	752.5	755.3	741.8	735.3	713.0	698.1	689.3	675.4	675.4	673.5	671.2
27.5°	832.4	841.7	826.8	817.5	796.6	775.7	760.4	752.0	743.2	737.1	720.4
30°	945.2	951.3	941.1	922.0	896.0	858.8	837.9	828.7	812.4	792.0	764.6
32.5°	1104.1	1095.7	1060.9	1027.5	993.5	958.2	933.2	916.4	891.4	850.5	798.5
35°	1309.9	1237.9	1194.2	1148.2	1109.2	1069.7	1050.7	1020.5	963.4	896.9	827.3
37.5°	1411.1	1379.1	1328.9	1294.5	1248.1	1208.6	1165.4	1113.8	1040.0	944.8	848.2
40°	1614.1	1553.7	1514.7	1475.7	1418.6	1364.7	1306.1	1223.0	1104.1	985.6	864.4
42.5°	1827.3	1782.7	1712.1	1660.1	1617.4	1528.2	1435.3	1319.2	1169.6	1022.8	879.3
45°	2105.1	2002.9	1915.6	1871.4	1787.4	1678.7	1570.4	1404.6	1230.0	1061.8	896.0
47.5°	2384.2	2252.8	2162.7	2080.5	1990.8	1845.0	1676.3	1478.9	1276.4	1094.3	909.9
50°	2683.8	2510.6	2406.5	2308.1	2160.3	1983.8	1769.2	1540.3	1324.7	1125.0	922.5
52.5°	2988.5	2769.8	2621.1	2506.4	2323.4	2105.1	1853.3	1603.9	1376.3	1154.7	932.7
55°	3262.6	3057.3	2865.4	2688.5	2468.3	2214.7	1930.4	1661.0	1422.7	1185.8	939.2
57.5°	3511.1	3332.3	3103.3	2865.9	2601.6	2316.4	2001.5	1722.8	1466.4	1208.6	938.7
60°	3681.6	3577.0	3339.2	3049.8	2741.0	2409.8	2087.0	1791.5	1504.9	1224.9	935.0
62.5°	3804.2	3783.3	3575.6	3226.8	2854.8	2493.8	2169.6	1848.7	1532.8	1226.7	919.2
65°	3880.8	3906.4	3760.5	3339.2	2918.4	2557.9	2210.5	1853.8	1512.8	1196.1	877.4
67.5°	3832.5	3898.5	3759.6	3290.4	2857.5	2498.0	2150.6	1768.3	1406.5	1100.8	783.6
70°	3532.9	3631.9	3494.8	2967.2	2559.8	2266.7	1930.0	1518.9	1210.0	906.7	619.2
72.5°	2771.1	2901.7	2781.8	2420.0	2119.0	1873.8	1623.9	1192.8	922.5	666.1	416.2
75°	1911.8	1962.0	1890.5	1640.6	1548.1	1452.5	1218.8	801.7	609.4	411.1	244.8
77.5°	1483.1	1301.5	1164.5	1062.3	1060.4	1042.8	797.5	479.8	364.6	226.2	136.1
80°	1115.2	875.6	722.7	632.2	657.3	734.8	465.0	246.2	188.6	124.9	83.6
82.5°	733.9	558.8	445.9	394.8	399.0	460.8	233.6	135.6	92.9	71.1	54.3
85°	447.3	434.3	387.4	351.6	324.2	316.8	181.6	104.0	51.6	36.7	27.9
87.5°	218.3	258.7	315.9	320.0	275.0	233.2	94.3	29.7	21.8	11.6	8.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	475.6	478.0	477.0	476.6	476.6	478.9	478.9	478.0	478.0	478.4	478.4
5°	486.8	489.1	488.2	488.6	489.6	490.0	491.4	490.0	489.1	490.0	489.6
7.5°	499.8	502.1	501.6	502.6	503.5	504.4	505.4	504.9	504.0	504.0	503.5
10°	505.4	510.0	511.9	513.7	516.0	517.0	518.4	518.4	516.5	516.5	514.2
12.5°	509.1	512.8	517.4	520.2	524.4	527.7	529.1	529.5	528.1	526.3	523.9
15°	517.0	519.8	524.4	527.2	532.3	536.5	539.3	538.8	537.0	531.8	524.9
17.5°	536.5	536.0	537.9	539.7	541.1	543.5	542.5	538.3	529.5	520.2	510.5
20°	565.7	565.3	562.5	558.3	553.2	546.7	536.5	523.9	509.1	492.4	477.5
22.5°	607.1	602.9	599.2	588.0	570.4	548.6	522.1	497.5	479.8	463.6	447.3
25°	661.9	651.7	633.6	607.6	579.7	547.2	508.6	475.6	453.3	434.3	418.0
27.5°	696.3	672.6	642.4	606.6	569.5	527.7	484.9	452.4	427.3	406.4	387.8
30°	725.5	682.8	640.5	595.0	548.1	504.9	459.8	425.0	395.7	372.5	350.2
32.5°	741.8	684.7	631.7	577.4	526.3	477.0	428.3	390.6	362.8	334.0	303.3
35°	752.0	679.1	615.0	553.7	497.5	446.4	395.3	353.9	317.2	281.9	251.3
37.5°	754.8	669.8	593.2	527.2	463.1	407.4	359.1	310.7	274.0	236.0	200.7
40°	753.4	652.1	565.7	485.9	418.5	364.6	317.7	273.6	233.2	199.3	165.4
42.5°	747.8	632.2	533.2	451.9	384.1	332.6	289.4	244.8	208.6	172.3	143.5
45°	746.0	612.7	508.6	425.9	360.9	310.3	268.0	224.8	186.7	152.4	123.6
47.5°	741.8	595.0	485.9	406.0	341.9	293.1	249.4	207.2	167.7	136.6	108.7
50°	732.5	576.0	469.1	390.6	326.1	275.9	231.3	185.8	147.2	116.6	95.2
52.5°	722.7	563.9	458.5	375.3	309.4	255.5	211.3	165.4	129.1	100.3	84.1
55°	713.0	554.6	444.1	357.2	287.5	234.6	190.0	147.7	113.8	89.2	77.6
57.5°	702.3	542.1	426.4	334.0	262.9	211.3	166.8	126.8	98.9	80.4	72.5
60°	693.5	524.4	395.7	301.5	229.9	178.8	138.4	105.9	84.1	72.5	69.2
62.5°	670.3	490.5	351.6	253.6	186.7	139.8	105.4	82.7	70.6	65.0	65.5
65°	614.1	414.8	279.2	197.9	131.0	93.8	75.2	63.2	57.6	57.6	59.0
67.5°	517.4	315.9	197.9	125.9	85.9	67.8	57.6	52.5	51.6	52.5	54.8
70°	366.5	204.8	124.0	82.2	64.6	54.8	49.7	47.8	46.9	47.8	48.8
72.5°	225.7	120.8	79.0	64.1	55.3	49.2	46.0	44.6	44.1	44.1	43.7
75°	123.1	80.8	63.2	55.7	50.2	45.5	42.3	39.9	39.5	39.9	39.0
77.5°	78.5	63.2	56.2	51.6	46.4	40.4	37.6	35.8	35.8	35.3	34.4
80°	61.3	56.2	51.6	46.9	39.0	34.4	31.6	31.1	30.7	30.2	30.2
82.5°	46.0	44.6	42.3	38.1	31.1	27.4	26.0	26.0	25.5	24.2	24.2
85°	26.5	26.0	27.9	24.6	20.9	18.1	18.1	18.6	19.0	18.6	17.2
87.5°	8.8	7.4	7.9	7.9	6.5	5.1	7.0	8.4	7.9	7.0	8.4
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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CATALOG NUMBER: ECM-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	477.0	478.0	479.8	478.0	477.0	477.0	476.1	476.6	475.2	473.8	474.2
5°	488.6	487.7	488.6	487.3	484.5	484.0	482.1	482.1	480.3	478.4	477.5
7.5°	501.6	500.3	500.7	497.9	494.7	492.4	490.0	489.1	486.8	484.0	482.1
10°	511.9	510.5	509.5	506.3	502.1	499.8	496.5	494.7	492.4	488.6	486.8
12.5°	518.4	515.1	513.3	507.7	504.0	501.6	497.9	497.0	494.2	491.0	489.6
15°	517.0	509.5	504.0	497.5	492.4	489.1	485.9	484.9	483.5	482.1	479.4
17.5°	494.2	484.9	478.9	465.4	458.0	454.7	454.3	453.8	452.9	452.9	449.6
20°	462.6	451.9	442.7	429.7	419.9	416.6	407.8	405.5	402.7	405.5	402.7
22.5°	434.3	420.8	410.1	399.5	387.8	378.6	366.9	361.4	353.5	351.6	352.5
25°	404.1	387.4	373.9	361.4	348.8	335.8	325.1	317.2	312.1	305.2	298.7
27.5°	367.4	353.5	335.4	325.1	310.3	295.9	284.7	276.4	267.1	261.5	252.2
30°	330.3	308.9	290.8	276.4	260.1	253.1	242.5	233.6	225.3	219.2	211.3
32.5°	281.9	259.7	240.6	223.9	212.7	203.0	196.5	189.0	184.9	179.8	174.6
35°	230.9	203.0	180.2	172.8	160.2	160.7	157.5	153.7	150.5	145.8	145.4
37.5°	174.2	152.4	137.5	128.2	126.3	123.6	124.0	123.6	122.6	121.2	121.2
40°	138.0	118.4	108.7	106.8	106.8	106.4	105.9	105.9	105.9	105.0	104.5
42.5°	118.0	104.0	100.8	99.9	98.9	98.5	97.5	96.1	96.1	95.2	93.8
45°	104.0	96.1	95.2	94.3	94.3	92.9	91.5	90.6	90.1	89.6	88.7
47.5°	95.2	91.0	90.1	89.2	88.7	87.8	86.4	85.0	84.5	84.1	84.1
50°	85.5	82.7	82.7	82.7	81.3	80.4	79.0	78.0	78.0	77.6	77.1
52.5°	78.5	77.1	76.6	76.2	75.2	73.9	72.9	72.5	72.0	72.5	72.0
55°	75.2	74.3	73.9	72.9	72.0	70.6	69.7	68.3	67.8	68.7	68.7
57.5°	71.5	71.1	70.6	69.7	68.7	66.9	65.5	64.6	64.6	66.0	65.5
60°	70.1	69.7	69.2	68.7	67.4	65.0	62.7	61.8	61.8	63.2	63.2
62.5°	66.9	66.4	66.0	65.5	63.6	61.8	59.5	58.5	59.0	59.9	61.3
65°	60.8	61.3	60.8	60.8	59.5	58.1	56.7	55.7	55.3	55.7	57.1
67.5°	55.3	55.7	55.7	55.7	55.3	53.9	53.0	51.6	50.6	51.1	51.6
70°	50.2	50.6	51.1	51.1	50.2	48.8	47.4	46.0	45.5	46.0	46.0
72.5°	44.6	44.6	44.6	45.1	44.6	44.1	42.3	40.4	40.4	39.9	40.4
75°	39.0	39.0	39.0	39.0	38.1	38.1	37.2	35.3	34.8	35.3	35.8
77.5°	34.4	33.4	33.0	33.0	33.0	32.0	31.6	31.6	31.1	31.1	31.1
80°	28.3	27.4	26.5	26.0	26.5	26.5	27.4	27.4	26.9	26.9	26.9
82.5°	22.3	20.4	20.0	20.0	19.0	20.0	21.8	24.2	23.2	23.7	23.7
85°	16.3	14.4	13.5	13.5	12.5	14.4	16.7	18.6	17.7	18.6	18.1
87.5°	7.4	7.0	5.6	4.6	5.6	8.4	9.8	10.2	8.8	10.7	10.7
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8
2.5°	476.1	474.2	473.8	474.2	473.3	474.7	474.7	474.2	474.2	473.8	474.7
5°	478.9	476.6	475.2	475.2	474.2	475.6	474.7	474.2	473.8	473.8	473.8
7.5°	483.1	479.8	477.5	476.1	474.2	474.2	472.9	471.5	470.5	470.1	470.1
10°	486.8	482.1	478.4	475.2	472.4	470.1	467.7	464.5	463.6	462.6	463.1
12.5°	486.3	481.2	475.6	470.5	464.0	461.2	455.2	451.5	451.5	449.2	450.6
15°	476.1	467.3	459.4	451.0	443.1	437.5	430.1	425.9	423.6	423.2	426.4
17.5°	445.4	437.1	429.7	420.4	410.1	406.4	401.3	399.5	398.1	400.4	402.7
20°	404.1	393.4	386.5	380.9	380.9	380.0	377.6	374.4	371.6	371.1	373.9
22.5°	345.6	341.4	342.8	339.1	339.1	337.2	340.9	334.9	338.1	335.4	336.8
25°	296.8	295.0	294.0	293.6	293.6	296.8	296.3	297.3	294.0	295.9	295.4
27.5°	252.7	250.4	247.1	249.0	250.8	253.1	254.1	254.5	257.3	252.2	254.1
30°	210.4	206.7	209.0	207.2	208.1	207.6	207.6	207.6	209.5	213.2	210.4
32.5°	172.3	170.5	172.8	169.5	170.0	170.0	169.1	167.7	168.6	164.4	167.7
35°	142.6	140.3	142.1	140.7	139.3	135.6	134.2	131.9	132.4	131.5	131.0
37.5°	119.4	118.9	117.5	117.5	116.6	116.1	113.8	114.3	114.7	115.7	115.7
40°	103.1	102.7	102.2	103.1	103.6	104.0	105.0	105.9	107.3	108.7	110.1
42.5°	93.8	93.8	93.8	95.7	97.1	99.4	100.8	102.7	104.5	106.8	108.7
45°	88.3	87.8	88.7	90.1	92.4	94.8	97.1	99.9	102.7	105.0	106.4
47.5°	83.6	83.1	84.1	85.5	87.8	91.5	94.8	98.0	101.3	103.6	104.5
50°	77.6	77.6	78.0	79.4	81.8	85.0	88.3	92.0	95.2	97.1	98.0
52.5°	72.9	73.4	73.4	74.8	77.1	79.9	83.1	86.4	88.7	90.1	92.0
55°	68.3	69.2	69.2	70.6	72.9	76.2	80.4	83.1	85.9	87.8	89.2
57.5°	65.0	65.5	65.5	67.4	70.1	72.9	77.1	80.8	84.1	86.4	88.3
60°	62.2	62.7	62.2	64.6	66.9	70.1	73.9	78.0	82.7	85.9	87.3
62.5°	59.9	59.9	59.5	61.3	62.7	64.6	67.8	72.5	76.6	79.4	80.8
65°	57.1	57.1	56.2	58.1	58.1	60.8	63.2	67.4	70.6	73.9	74.8
67.5°	51.6	52.5	52.0	53.4	55.3	57.1	59.9	63.2	66.4	68.7	70.1
70°	46.0	46.4	47.8	48.8	50.6	51.6	53.9	56.2	59.5	60.8	62.2
72.5°	40.9	41.3	42.3	43.2	45.1	46.0	47.8	49.7	52.5	53.9	55.3
75°	35.8	36.2	36.7	37.6	38.6	39.5	40.4	42.3	44.1	46.0	47.4
77.5°	30.7	31.1	32.5	32.0	33.0	33.4	34.8	35.8	36.7	38.6	40.4
80°	26.9	26.5	27.4	27.9	28.8	28.8	29.7	29.7	31.1	31.1	31.6
82.5°	22.8	22.3	23.2	24.6	25.1	25.1	26.0	24.2	23.7	24.2	25.5
85°	17.2	17.7	18.1	20.0	20.4	20.4	21.4	20.0	18.1	18.1	19.0
87.5°	9.8	7.4	10.7	12.5	12.5	13.0	13.9	13.5	13.0	10.2	10.7
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	473.8	0°
2.5°	474.2	474.7	475.2	475.6	476.1	475.6	476.6	475.6	476.1	475.2	474.7	2.5°
5°	473.8	474.2	474.2	475.2	475.6	474.2	475.2	473.8	473.8	472.9	471.5	5°
7.5°	470.5	471.5	471.5	472.4	472.4	471.0	471.0	468.2	467.3	464.0	461.7	7.5°
10°	464.0	465.4	466.3	468.2	469.1	466.8	465.4	462.2	458.5	454.7	451.0	10°
12.5°	452.9	453.3	456.6	459.4	460.8	462.2	461.2	460.8	457.1	454.7	453.3	12.5°
15°	427.3	431.0	434.3	440.8	445.4	450.6	454.3	458.5	460.3	462.6	463.6	15°
17.5°	405.0	409.2	411.5	417.1	421.8	429.7	439.4	450.1	457.5	466.8	475.6	17.5°
20°	373.9	380.9	382.7	391.6	397.6	407.8	418.5	432.0	446.8	461.2	477.0	20°
22.5°	339.1	342.3	346.0	355.3	362.8	375.8	392.0	410.6	427.8	447.8	470.5	22.5°
25°	296.8	301.0	304.7	314.9	325.6	337.7	357.2	380.0	401.8	428.3	458.0	25°
27.5°	255.0	258.3	264.8	272.2	284.3	297.3	321.4	346.5	371.6	403.6	438.9	27.5°
30°	211.3	214.6	217.8	226.7	239.2	254.5	276.4	306.1	335.8	370.2	412.0	30°
32.5°	169.5	170.5	177.0	183.5	194.2	207.2	230.9	259.7	291.7	333.5	374.8	32.5°
35°	132.4	138.0	140.7	149.6	156.1	169.5	189.5	216.0	249.4	291.7	336.3	35°
37.5°	117.5	119.4	123.1	129.6	138.4	150.5	164.4	184.9	213.7	249.4	291.2	37.5°
40°	111.9	113.8	116.6	121.7	130.1	141.2	152.8	169.1	191.4	219.7	257.3	40°
42.5°	110.1	110.5	111.5	116.1	124.5	137.0	151.0	166.3	183.5	206.2	236.0	42.5°
45°	107.8	107.8	108.2	111.5	118.9	131.9	149.6	169.1	188.6	209.0	234.1	45°
47.5°	105.9	106.4	105.9	107.3	112.9	125.4	144.9	168.6	194.6	221.1	248.5	47.5°
50°	98.5	98.5	98.9	99.4	103.6	115.7	134.7	160.7	192.8	228.5	266.2	50°
52.5°	92.4	93.4	93.4	94.3	97.1	106.8	125.9	153.3	188.1	229.9	280.6	52.5°
55°	90.6	91.5	92.0	92.0	93.8	102.2	120.3	146.3	183.0	228.5	286.1	55°
57.5°	89.2	90.1	90.6	90.1	91.5	98.5	115.2	140.7	177.4	225.3	288.4	57.5°
60°	87.8	88.3	87.3	86.4	86.9	92.9	107.8	132.8	170.9	220.6	287.5	60°
62.5°	81.3	81.8	80.8	79.9	79.0	83.6	97.1	121.7	157.5	209.9	280.1	62.5°
65°	75.7	75.7	75.7	74.8	73.9	76.6	86.4	107.3	138.4	190.9	262.9	65°
67.5°	71.1	70.6	70.6	70.1	69.2	70.1	76.2	90.6	114.7	160.7	231.8	67.5°
70°	63.6	63.2	63.6	63.2	62.2	62.2	65.0	72.9	89.2	118.0	180.2	70°
72.5°	56.2	56.7	57.6	57.6	57.6	58.1	58.1	60.4	69.2	84.5	122.6	72.5°
75°	48.3	48.8	50.2	52.0	51.1	51.6	51.6	53.0	57.6	66.9	85.9	75°
77.5°	40.9	42.3	44.1	44.6	43.2	43.2	44.1	46.4	50.6	56.2	65.5	77.5°
80°	33.4	35.3	35.8	36.7	37.2	37.2	38.1	39.9	44.1	51.1	58.5	80°
82.5°	26.5	27.9	29.3	30.7	31.6	33.0	33.4	34.4	38.6	45.5	53.9	82.5°
85°	20.0	21.4	23.2	24.6	25.5	26.9	26.5	26.9	29.3	34.8	40.9	85°
87.5°	12.1	12.1	13.5	13.9	14.4	14.4	15.3	13.5	14.4	18.6	22.3	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
473.8	473.8	473.8	473.8	473.8	473.8	473.8
475.2	474.7	474.2	474.7	475.6	475.6	474.2
471.9	470.5	469.6	469.6	469.6	469.1	468.2
460.8	458.5	457.1	456.1	455.7	455.7	453.8
448.7	447.3	444.5	443.6	444.1	445.4	445.0
451.5	447.3	445.9	445.9	445.4	447.8	447.3
466.8	466.8	465.0	464.5	463.6	466.3	466.3
483.1	487.3	489.1	487.3	487.7	488.2	491.9
491.9	504.0	510.5	515.6	516.0	518.8	518.4
493.3	515.1	532.3	543.5	553.7	558.8	557.9
486.3	516.5	546.7	575.0	596.4	608.0	617.8
477.0	512.8	551.8	591.8	626.6	657.7	677.2
455.2	500.7	550.9	602.0	651.7	696.3	732.5
424.5	477.0	537.0	604.3	674.0	735.8	788.7
383.7	439.9	512.8	595.5	687.4	779.4	859.3
339.5	401.3	481.2	580.6	694.4	814.3	923.9
301.0	361.8	449.2	561.6	693.5	837.0	971.2
275.9	333.0	421.3	543.5	688.8	850.0	1008.4
267.5	319.1	402.7	529.1	686.1	859.3	1034.0
278.7	323.3	398.5	522.6	685.1	870.0	1056.3
304.7	346.5	414.3	533.2	693.5	880.7	1078.5
329.3	379.0	448.7	563.9	724.6	911.8	1109.2
349.3	414.3	485.9	604.3	769.2	960.1	1155.2
360.4	441.7	534.2	660.5	830.0	1031.2	1230.4
365.1	460.8	575.5	719.5	906.7	1112.5	1325.7
363.2	469.6	605.2	773.4	975.9	1201.6	1433.9
351.6	469.6	623.8	816.6	1034.0	1272.7	1529.1
323.7	453.3	625.7	841.7	1078.5	1332.6	1607.1
272.7	406.4	594.5	838.9	1092.5	1351.7	1648.0
190.9	303.3	496.1	758.0	1033.0	1306.6	1603.0
118.4	189.0	355.3	586.2	859.8	1108.7	1426.4
83.1	114.7	203.4	371.1	591.8	826.3	1065.1
69.2	84.5	116.1	204.4	355.8	509.1	669.8
59.9	68.3	80.8	116.6	181.2	271.3	373.0
44.6	49.7	55.7	76.6	114.3	167.7	255.0
18.1	20.4	22.8	30.7	70.1	96.6	103.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)