

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: STREETWORKS

Report Number: P141490

Luminaire Tested: **CEM-E04-LED-E-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141490  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CEM-E04-LED-E-U-SLL  
Description: EPIC CLASSICAL MEDIUM DECORATIVE 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: 10462.1 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

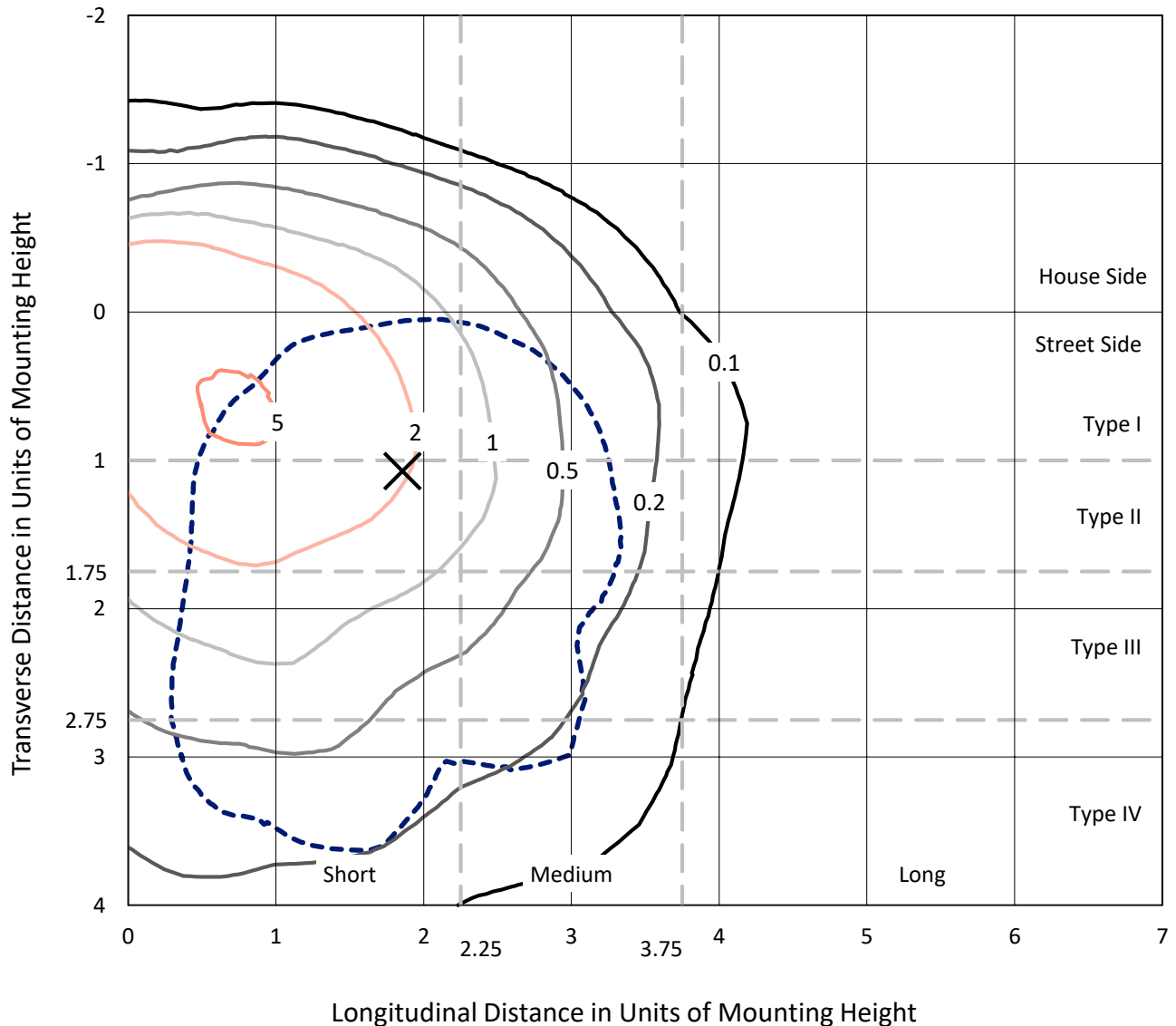
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P141490  
 CATALOG NUMBER: CEM-E04-LED-E-U-SLL

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

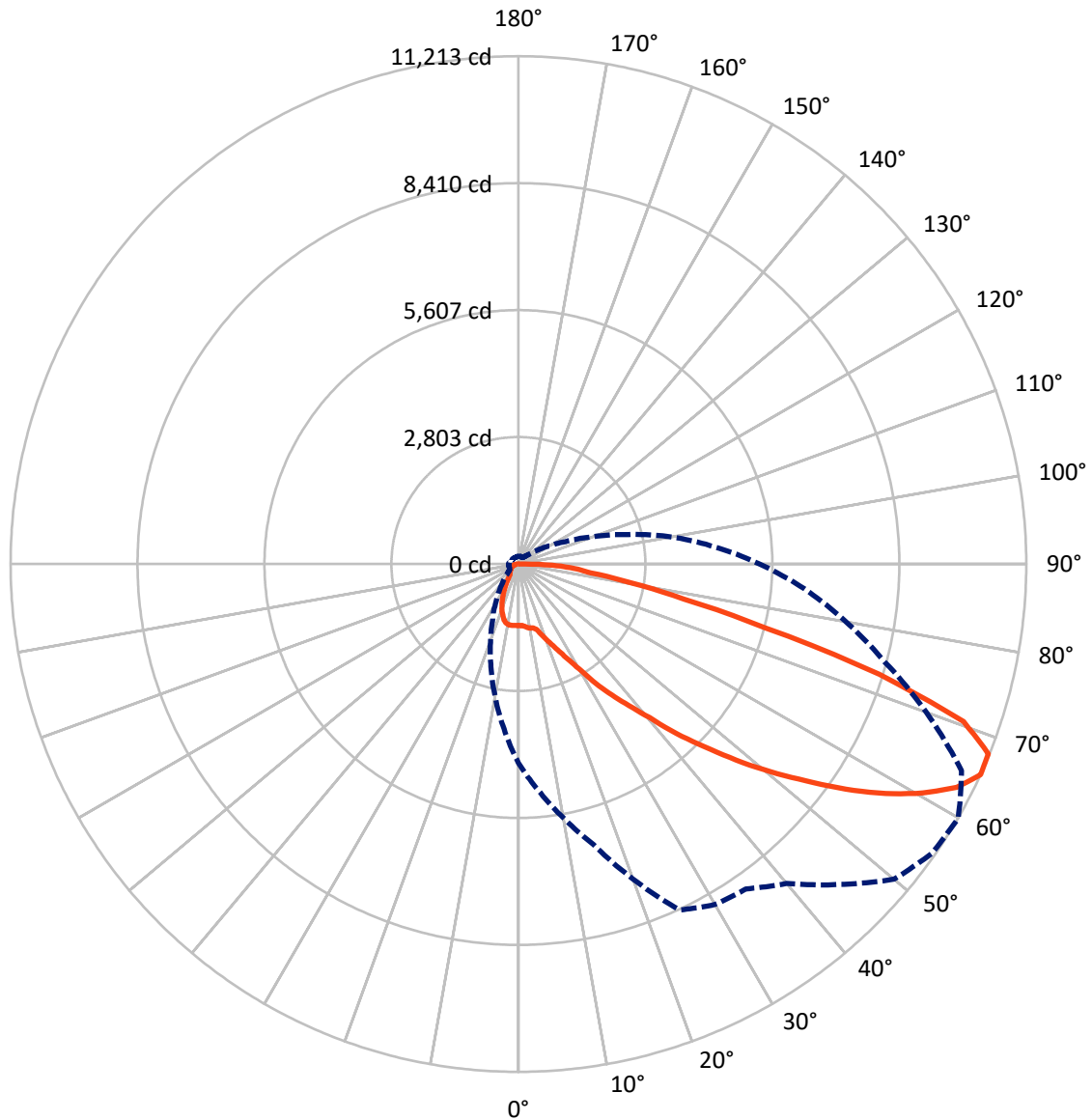


Based on 20 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P141490

CATALOG NUMBER: CEM-E04-LED-E-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P141490

CATALOG NUMBER: CEM-E04-LED-E-U-SLL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1940.5	0.0	1940.5
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	8521.6	0.0	8521.6
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	10462.1	0.0	10462.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.6	1.3
10°-20°	395.2	3.8
20°-30°	656.5	6.3
30°-40°	959.8	9.2
40°-50°	1460.0	14.0
50°-60°	2098.6	20.1
60°-70°	2580.2	24.7
70°-80°	1726.1	16.5
80°-90°	454.1	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°	10462.1	100.0
0°-180°	10462.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P141490

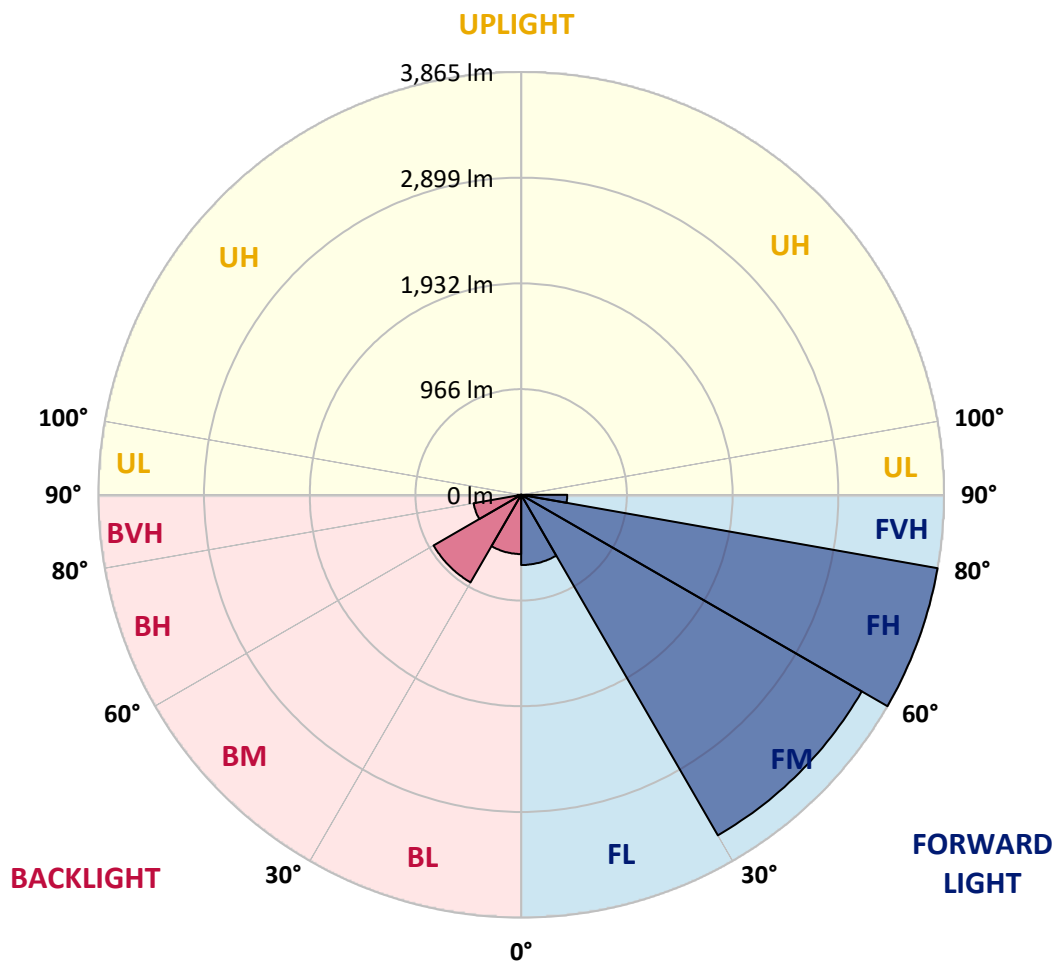
CATALOG NUMBER: CEM-E04-LED-E-U-SLL

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	641.8	6.1			
FM	(30°-60°)	3594.1	34.4			
FH	(60°-80°)	3864.7	36.9			G2/5000
FVH	(80°-90°)	421.1	4.0			G3/500
BL	(0°-30°)	541.6	5.2	B2/1000		
BM	(30°-60°)	924.3	8.8	B1/1000		
BH	(60°-80°)	441.6	4.2	B1/500		G1/500
BVH	(80°-90°)	33.0	0.3			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: P141490

CATALOG NUMBER: CEM-E04-LED-E-U-SLL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1361.3	1362.7	1362.7	1361.3	1360.0	1361.3	1358.7	1361.3	1360.0	1358.7	1360.0
5°	1344.0	1345.3	1348.0	1348.0	1350.7	1356.0	1357.3	1364.0	1368.0	1369.3	1374.7
7.5°	1302.7	1309.3	1313.3	1318.7	1326.7	1340.0	1349.3	1365.3	1377.3	1388.0	1402.7
10°	1277.3	1285.3	1293.3	1305.3	1317.3	1334.7	1350.7	1370.7	1386.7	1402.7	1420.0
12.5°	1284.0	1293.3	1304.0	1313.3	1332.0	1348.0	1368.0	1392.0	1400.0	1416.0	1430.7
15°	1338.7	1346.7	1354.7	1365.3	1382.7	1401.3	1428.0	1454.7	1460.0	1477.3	1493.3
17.5°	1412.0	1413.3	1426.7	1445.3	1461.3	1492.0	1524.0	1560.0	1582.7	1593.3	1602.7
20°	1488.0	1492.0	1513.3	1530.7	1566.7	1606.7	1653.3	1706.7	1725.3	1772.0	1789.3
22.5°	1601.3	1600.0	1625.3	1649.3	1689.3	1732.0	1800.0	1873.3	1916.0	1952.0	1965.3
25°	1773.3	1777.3	1773.3	1808.0	1849.3	1918.7	1986.7	2060.0	2085.3	2148.0	2177.3
27.5°	1944.0	1974.7	2016.0	2026.7	2077.3	2157.3	2210.7	2289.3	2350.7	2368.0	2416.0
30°	2102.7	2166.7	2234.7	2292.0	2382.7	2480.0	2560.0	2649.3	2653.3	2685.3	2698.7
32.5°	2264.0	2364.0	2464.0	2537.3	2625.3	2754.7	2902.7	3048.0	3142.7	3240.0	3190.7
35°	2466.7	2622.7	2762.7	2876.0	2950.7	3070.7	3241.3	3477.3	3629.3	3745.3	3812.0
37.5°	2652.0	2888.0	3102.7	3264.0	3446.7	3532.0	3644.0	3814.7	3989.3	4097.3	4153.3
40°	2788.0	3110.7	3414.7	3648.0	3880.0	4084.0	4225.3	4364.0	4600.0	4734.7	4745.3
42.5°	2894.7	3305.3	3672.0	4006.7	4348.0	4633.3	4804.0	4980.0	5280.0	5436.0	5424.0
45°	2968.0	3450.7	3905.3	4317.3	4730.7	5102.7	5432.0	5693.3	6000.0	6297.3	6237.3
47.5°	3032.0	3570.7	4090.7	4556.0	5052.0	5516.0	5926.7	6294.7	6700.0	7101.3	7125.3
50°	3096.0	3668.0	4258.7	4794.7	5353.3	5936.0	6432.0	6905.3	7412.0	7922.7	8040.0
52.5°	3184.0	3777.3	4414.7	5012.0	5661.3	6276.0	6829.3	7418.7	8045.3	8538.7	8872.0
55°	3316.0	3929.3	4608.0	5229.3	5937.3	6614.7	7226.7	7906.7	8482.7	9092.0	9566.7
57.5°	3532.0	4132.0	4832.0	5466.7	6204.0	6921.3	7557.3	8270.7	8820.0	9496.0	10092.0
60°	3805.3	4408.0	5085.3	5748.0	6517.3	7352.0	7993.3	8521.3	9072.0	9756.0	10473.3
62.5°	4116.0	4720.0	5394.7	6078.7	6953.3	7857.3	8408.0	8709.3	9189.3	9934.7	10720.0
65°	4389.3	5012.0	5685.3	6410.7	7400.0	8428.0	8681.3	8757.3	9206.7	10006.7	10826.7
67.5°	4613.3	5329.3	5957.3	6680.0	7870.7	8790.7	8686.7	8534.7	8970.7	9832.0	10622.7
70°	4730.7	5470.7	6086.7	6704.0	7970.7	8841.3	8477.3	8064.0	8262.7	9105.3	9766.7
72.5°	4601.3	5360.0	5846.7	6230.7	7372.0	8217.3	7753.3	6973.3	7154.7	7970.7	8141.3
75°	4094.7	5010.7	5294.7	5281.3	5896.0	6333.3	5997.3	5500.0	5962.7	6302.7	6128.0
77.5°	3057.3	4104.0	4262.7	3970.7	4101.3	4469.3	4152.0	4538.7	5100.0	5253.3	4922.7
80°	1922.7	3008.0	3025.3	2661.3	2592.0	2736.0	3145.3	3968.0	4504.0	4472.0	4034.7
82.5°	1070.7	1950.7	2136.0	1802.7	1717.3	2070.7	2801.3	3238.7	3168.0	3141.3	2572.0
85°	732.0	1332.0	1628.0	1561.3	1726.7	2065.3	2297.3	2053.3	1977.3	1684.0	1366.7
87.5°	297.3	600.0	1009.3	1160.0	1230.7	1510.7	1322.7	1077.3	829.3	786.7	676.0
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: P141490

CATALOG NUMBER: CEM-E04-LED-E-U-SLL

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1356.0	1358.7	1358.7	1360.0	1361.3	1362.7	1362.7	1362.7	1364.0	1365.3	1364.0
5°	1376.0	1380.0	1382.7	1382.7	1385.3	1388.0	1390.7	1389.3	1393.3	1396.0	1397.3
7.5°	1408.0	1416.0	1422.7	1428.0	1430.7	1430.7	1430.7	1426.7	1430.7	1432.0	1433.3
10°	1430.7	1440.0	1441.3	1446.7	1445.3	1444.0	1441.3	1438.7	1440.0	1442.7	1446.7
12.5°	1437.3	1446.7	1449.3	1453.3	1452.0	1450.7	1445.3	1445.3	1444.0	1448.0	1452.0
15°	1492.0	1500.0	1513.3	1501.3	1502.7	1492.0	1482.7	1477.3	1474.7	1477.3	1480.0
17.5°	1617.3	1630.7	1625.3	1606.7	1605.3	1582.7	1578.7	1552.0	1552.0	1552.0	1544.0
20°	1789.3	1788.0	1778.7	1760.0	1720.0	1712.0	1682.7	1661.3	1641.3	1637.3	1628.0
22.5°	1977.3	1957.3	1952.0	1913.3	1888.0	1840.0	1796.0	1780.0	1761.3	1757.3	1756.0
25°	2160.0	2168.0	2129.3	2110.7	2046.7	2004.0	1978.7	1938.7	1938.7	1933.3	1926.7
27.5°	2389.3	2416.0	2373.3	2346.7	2286.7	2226.7	2182.7	2158.7	2133.3	2116.0	2068.0
30°	2713.3	2730.7	2701.3	2646.7	2572.0	2465.3	2405.3	2378.7	2332.0	2273.3	2194.7
32.5°	3169.3	3145.3	3045.3	2949.3	2852.0	2750.7	2678.7	2630.7	2558.7	2441.3	2292.0
35°	3760.0	3553.3	3428.0	3296.0	3184.0	3070.7	3016.0	2929.3	2765.3	2574.7	2374.7
37.5°	4050.7	3958.7	3814.7	3716.0	3582.7	3469.3	3345.3	3197.3	2985.3	2712.0	2434.7
40°	4633.3	4460.0	4348.0	4236.0	4072.0	3917.3	3749.3	3510.7	3169.3	2829.3	2481.3
42.5°	5245.3	5117.3	4914.7	4765.3	4642.7	4386.7	4120.0	3786.7	3357.3	2936.0	2524.0
45°	6042.7	5749.3	5498.7	5372.0	5130.7	4818.7	4508.0	4032.0	3530.7	3048.0	2572.0
47.5°	6844.0	6466.7	6208.0	5972.0	5714.7	5296.0	4812.0	4245.3	3664.0	3141.3	2612.0
50°	7704.0	7206.7	6908.0	6625.3	6201.3	5694.7	5078.7	4421.3	3802.7	3229.3	2648.0
52.5°	8578.7	7950.7	7524.0	7194.7	6669.3	6042.7	5320.0	4604.0	3950.7	3314.7	2677.3
55°	9365.3	8776.0	8225.3	7717.3	7085.3	6357.3	5541.3	4768.0	4084.0	3404.0	2696.0
57.5°	10078.7	9565.3	8908.0	8226.7	7468.0	6649.3	5745.3	4945.3	4209.3	3469.3	2694.7
60°	10568.0	10268.0	9585.3	8754.7	7868.0	6917.3	5990.7	5142.7	4320.0	3516.0	2684.0
62.5°	10920.0	10860.0	10264.0	9262.7	8194.7	7158.7	6228.0	5306.7	4400.0	3521.3	2638.7
65°	11140.0	11213.3	10794.7	9585.3	8377.3	7342.7	6345.3	5321.3	4342.7	3433.3	2518.7
67.5°	11001.3	11190.7	10792.0	9445.3	8202.7	7170.7	6173.3	5076.0	4037.3	3160.0	2249.3
70°	10141.3	10425.3	10032.0	8517.3	7348.0	6506.7	5540.0	4360.0	3473.3	2602.7	1777.3
72.5°	7954.7	8329.3	7985.3	6946.7	6082.7	5378.7	4661.3	3424.0	2648.0	1912.0	1194.7
75°	5488.0	5632.0	5426.7	4709.3	4444.0	4169.3	3498.7	2301.3	1749.3	1180.0	702.7
77.5°	4257.3	3736.0	3342.7	3049.3	3044.0	2993.3	2289.3	1377.3	1046.7	649.3	390.7
80°	3201.3	2513.3	2074.7	1814.7	1886.7	2109.3	1334.7	706.7	541.3	358.7	240.0
82.5°	2106.7	1604.0	1280.0	1133.3	1145.3	1322.7	670.7	389.3	266.7	204.0	156.0
85°	1284.0	1246.7	1112.0	1009.3	930.7	909.3	521.3	298.7	148.0	105.3	80.0
87.5°	626.7	742.7	906.7	918.7	789.3	669.3	270.7	85.3	62.7	33.3	24.0
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: P141490

CATALOG NUMBER: CEM-E04-LED-E-U-SLL

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1365.3	1372.0	1369.3	1368.0	1368.0	1374.7	1374.7	1372.0	1372.0	1373.3	1373.3
5°	1397.3	1404.0	1401.3	1402.7	1405.3	1406.7	1410.7	1406.7	1404.0	1406.7	1405.3
7.5°	1434.7	1441.3	1440.0	1442.7	1445.3	1448.0	1450.7	1449.3	1446.7	1446.7	1445.3
10°	1450.7	1464.0	1469.3	1474.7	1481.3	1484.0	1488.0	1488.0	1482.7	1482.7	1476.0
12.5°	1461.3	1472.0	1485.3	1493.3	1505.3	1514.7	1518.7	1520.0	1516.0	1510.7	1504.0
15°	1484.0	1492.0	1505.3	1513.3	1528.0	1540.0	1548.0	1546.7	1541.3	1526.7	1506.7
17.5°	1540.0	1538.7	1544.0	1549.3	1553.3	1560.0	1557.3	1545.3	1520.0	1493.3	1465.3
20°	1624.0	1622.7	1614.7	1602.7	1588.0	1569.3	1540.0	1504.0	1461.3	1413.3	1370.7
22.5°	1742.7	1730.7	1720.0	1688.0	1637.3	1574.7	1498.7	1428.0	1377.3	1330.7	1284.0
25°	1900.0	1870.7	1818.7	1744.0	1664.0	1570.7	1460.0	1365.3	1301.3	1246.7	1200.0
27.5°	1998.7	1930.7	1844.0	1741.3	1634.7	1514.7	1392.0	1298.7	1226.7	1166.7	1113.3
30°	2082.7	1960.0	1838.7	1708.0	1573.3	1449.3	1320.0	1220.0	1136.0	1069.3	1005.3
32.5°	2129.3	1965.3	1813.3	1657.3	1510.7	1369.3	1229.3	1121.3	1041.3	958.7	870.7
35°	2158.7	1949.3	1765.3	1589.3	1428.0	1281.3	1134.7	1016.0	910.7	809.3	721.3
37.5°	2166.7	1922.7	1702.7	1513.3	1329.3	1169.3	1030.7	892.0	786.7	677.3	576.0
40°	2162.7	1872.0	1624.0	1394.7	1201.3	1046.7	912.0	785.3	669.3	572.0	474.7
42.5°	2146.7	1814.7	1530.7	1297.3	1102.7	954.7	830.7	702.7	598.7	494.7	412.0
45°	2141.3	1758.7	1460.0	1222.7	1036.0	890.7	769.3	645.3	536.0	437.3	354.7
47.5°	2129.3	1708.0	1394.7	1165.3	981.3	841.3	716.0	594.7	481.3	392.0	312.0
50°	2102.7	1653.3	1346.7	1121.3	936.0	792.0	664.0	533.3	422.7	334.7	273.3
52.5°	2074.7	1618.7	1316.0	1077.3	888.0	733.3	606.7	474.7	370.7	288.0	241.3
55°	2046.7	1592.0	1274.7	1025.3	825.3	673.3	545.3	424.0	326.7	256.0	222.7
57.5°	2016.0	1556.0	1224.0	958.7	754.7	606.7	478.7	364.0	284.0	230.7	208.0
60°	1990.7	1505.3	1136.0	865.3	660.0	513.3	397.3	304.0	241.3	208.0	198.7
62.5°	1924.0	1408.0	1009.3	728.0	536.0	401.3	302.7	237.3	202.7	186.7	188.0
65°	1762.7	1190.7	801.3	568.0	376.0	269.3	216.0	181.3	165.3	165.3	169.3
67.5°	1485.3	906.7	568.0	361.3	246.7	194.7	165.3	150.7	148.0	150.7	157.3
70°	1052.0	588.0	356.0	236.0	185.3	157.3	142.7	137.3	134.7	137.3	140.0
72.5°	648.0	346.7	226.7	184.0	158.7	141.3	132.0	128.0	126.7	126.7	125.3
75°	353.3	232.0	181.3	160.0	144.0	130.7	121.3	114.7	113.3	114.7	112.0
77.5°	225.3	181.3	161.3	148.0	133.3	116.0	108.0	102.7	102.7	101.3	98.7
80°	176.0	161.3	148.0	134.7	112.0	98.7	90.7	89.3	88.0	86.7	86.7
82.5°	132.0	128.0	121.3	109.3	89.3	78.7	74.7	74.7	73.3	69.3	69.3
85°	76.0	74.7	80.0	70.7	60.0	52.0	52.0	53.3	54.7	53.3	49.3
87.5°	25.3	21.3	22.7	22.7	18.7	14.7	20.0	24.0	22.7	20.0	24.0
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: P141490

CATALOG NUMBER: CEM-E04-LED-E-U-SLL

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1369.3	1372.0	1377.3	1372.0	1369.3	1369.3	1366.7	1368.0	1364.0	1360.0	1361.3
5°	1402.7	1400.0	1402.7	1398.7	1390.7	1389.3	1384.0	1384.0	1378.7	1373.3	1370.7
7.5°	1440.0	1436.0	1437.3	1429.3	1420.0	1413.3	1406.7	1404.0	1397.3	1389.3	1384.0
10°	1469.3	1465.3	1462.7	1453.3	1441.3	1434.7	1425.3	1420.0	1413.3	1402.7	1397.3
12.5°	1488.0	1478.7	1473.3	1457.3	1446.7	1440.0	1429.3	1426.7	1418.7	1409.3	1405.3
15°	1484.0	1462.7	1446.7	1428.0	1413.3	1404.0	1394.7	1392.0	1388.0	1384.0	1376.0
17.5°	1418.7	1392.0	1374.7	1336.0	1314.7	1305.3	1304.0	1302.7	1300.0	1300.0	1290.7
20°	1328.0	1297.3	1270.7	1233.3	1205.3	1196.0	1170.7	1164.0	1156.0	1164.0	1156.0
22.5°	1246.7	1208.0	1177.3	1146.7	1113.3	1086.7	1053.3	1037.3	1014.7	1009.3	1012.0
25°	1160.0	1112.0	1073.3	1037.3	1001.3	964.0	933.3	910.7	896.0	876.0	857.3
27.5°	1054.7	1014.7	962.7	933.3	890.7	849.3	817.3	793.3	766.7	750.7	724.0
30°	948.0	886.7	834.7	793.3	746.7	726.7	696.0	670.7	646.7	629.3	606.7
32.5°	809.3	745.3	690.7	642.7	610.7	582.7	564.0	542.7	530.7	516.0	501.3
35°	662.7	582.7	517.3	496.0	460.0	461.3	452.0	441.3	432.0	418.7	417.3
37.5°	500.0	437.3	394.7	368.0	362.7	354.7	356.0	354.7	352.0	348.0	348.0
40°	396.0	340.0	312.0	306.7	306.7	305.3	304.0	304.0	304.0	301.3	300.0
42.5°	338.7	298.7	289.3	286.7	284.0	282.7	280.0	276.0	276.0	273.3	269.3
45°	298.7	276.0	273.3	270.7	270.7	266.7	262.7	260.0	258.7	257.3	254.7
47.5°	273.3	261.3	258.7	256.0	254.7	252.0	248.0	244.0	242.7	241.3	241.3
50°	245.3	237.3	237.3	237.3	233.3	230.7	226.7	224.0	224.0	222.7	221.3
52.5°	225.3	221.3	220.0	218.7	216.0	212.0	209.3	208.0	206.7	208.0	206.7
55°	216.0	213.3	212.0	209.3	206.7	202.7	200.0	196.0	194.7	197.3	197.3
57.5°	205.3	204.0	202.7	200.0	197.3	192.0	188.0	185.3	185.3	189.3	188.0
60°	201.3	200.0	198.7	197.3	193.3	186.7	180.0	177.3	177.3	181.3	181.3
62.5°	192.0	190.7	189.3	188.0	182.7	177.3	170.7	168.0	169.3	172.0	176.0
65°	174.7	176.0	174.7	174.7	170.7	166.7	162.7	160.0	158.7	160.0	164.0
67.5°	158.7	160.0	160.0	160.0	158.7	154.7	152.0	148.0	145.3	146.7	148.0
70°	144.0	145.3	146.7	146.7	144.0	140.0	136.0	132.0	130.7	132.0	132.0
72.5°	128.0	128.0	128.0	129.3	128.0	126.7	121.3	116.0	116.0	114.7	116.0
75°	112.0	112.0	112.0	112.0	109.3	109.3	106.7	101.3	100.0	101.3	102.7
77.5°	98.7	96.0	94.7	94.7	94.7	92.0	90.7	90.7	89.3	89.3	89.3
80°	81.3	78.7	76.0	74.7	76.0	76.0	78.7	78.7	77.3	77.3	77.3
82.5°	64.0	58.7	57.3	57.3	54.7	57.3	62.7	69.3	66.7	68.0	68.0
85°	46.7	41.3	38.7	38.7	36.0	41.3	48.0	53.3	50.7	53.3	52.0
87.5°	21.3	20.0	16.0	13.3	16.0	24.0	28.0	29.3	25.3	30.7	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



REPORT NUMBER: P141490

CATALOG NUMBER: CEM-E04-LED-E-U-SLL

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1366.7	1361.3	1360.0	1361.3	1358.7	1362.7	1362.7	1361.3	1361.3	1360.0	1362.7
5°	1374.7	1368.0	1364.0	1364.0	1361.3	1365.3	1362.7	1361.3	1360.0	1360.0	1360.0
7.5°	1386.7	1377.3	1370.7	1366.7	1361.3	1361.3	1357.3	1353.3	1350.7	1349.3	1349.3
10°	1397.3	1384.0	1373.3	1364.0	1356.0	1349.3	1342.7	1333.3	1330.7	1328.0	1329.3
12.5°	1396.0	1381.3	1365.3	1350.7	1332.0	1324.0	1306.7	1296.0	1296.0	1289.3	1293.3
15°	1366.7	1341.3	1318.7	1294.7	1272.0	1256.0	1234.7	1222.7	1216.0	1214.7	1224.0
17.5°	1278.7	1254.7	1233.3	1206.7	1177.3	1166.7	1152.0	1146.7	1142.7	1149.3	1156.0
20°	1160.0	1129.3	1109.3	1093.3	1093.3	1090.7	1084.0	1074.7	1066.7	1065.3	1073.3
22.5°	992.0	980.0	984.0	973.3	973.3	968.0	978.7	961.3	970.7	962.7	966.7
25°	852.0	846.7	844.0	842.7	842.7	852.0	850.7	853.3	844.0	849.3	848.0
27.5°	725.3	718.7	709.3	714.7	720.0	726.7	729.3	730.7	738.7	724.0	729.3
30°	604.0	593.3	600.0	594.7	597.3	596.0	596.0	596.0	601.3	612.0	604.0
32.5°	494.7	489.3	496.0	486.7	488.0	488.0	485.3	481.3	484.0	472.0	481.3
35°	409.3	402.7	408.0	404.0	400.0	389.3	385.3	378.7	380.0	377.3	376.0
37.5°	342.7	341.3	337.3	337.3	334.7	333.3	326.7	328.0	329.3	332.0	332.0
40°	296.0	294.7	293.3	296.0	297.3	298.7	301.3	304.0	308.0	312.0	316.0
42.5°	269.3	269.3	269.3	274.7	278.7	285.3	289.3	294.7	300.0	306.7	312.0
45°	253.3	252.0	254.7	258.7	265.3	272.0	278.7	286.7	294.7	301.3	305.3
47.5°	240.0	238.7	241.3	245.3	252.0	262.7	272.0	281.3	290.7	297.3	300.0
50°	222.7	222.7	224.0	228.0	234.7	244.0	253.3	264.0	273.3	278.7	281.3
52.5°	209.3	210.7	210.7	214.7	221.3	229.3	238.7	248.0	254.7	258.7	264.0
55°	196.0	198.7	198.7	202.7	209.3	218.7	230.7	238.7	246.7	252.0	256.0
57.5°	186.7	188.0	188.0	193.3	201.3	209.3	221.3	232.0	241.3	248.0	253.3
60°	178.7	180.0	178.7	185.3	192.0	201.3	212.0	224.0	237.3	246.7	250.7
62.5°	172.0	172.0	170.7	176.0	180.0	185.3	194.7	208.0	220.0	228.0	232.0
65°	164.0	164.0	161.3	166.7	166.7	174.7	181.3	193.3	202.7	212.0	214.7
67.5°	148.0	150.7	149.3	153.3	158.7	164.0	172.0	181.3	190.7	197.3	201.3
70°	132.0	133.3	137.3	140.0	145.3	148.0	154.7	161.3	170.7	174.7	178.7
72.5°	117.3	118.7	121.3	124.0	129.3	132.0	137.3	142.7	150.7	154.7	158.7
75°	102.7	104.0	105.3	108.0	110.7	113.3	116.0	121.3	126.7	132.0	136.0
77.5°	88.0	89.3	93.3	92.0	94.7	96.0	100.0	102.7	105.3	110.7	116.0
80°	77.3	76.0	78.7	80.0	82.7	82.7	85.3	85.3	89.3	89.3	90.7
82.5°	65.3	64.0	66.7	70.7	72.0	72.0	74.7	69.3	68.0	69.3	73.3
85°	49.3	50.7	52.0	57.3	58.7	58.7	61.3	57.3	52.0	52.0	54.7
87.5°	28.0	21.3	30.7	36.0	36.0	37.3	40.0	38.7	37.3	29.3	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



REPORT NUMBER: P141490  
 CATALOG NUMBER: CEM-E04-LED-E-U-SLL

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	0°
2.5°	1361.3	1362.7	1364.0	1365.3	1366.7	1365.3	1368.0	1365.3	1366.7	1364.0	1362.7	2.5°
5°	1360.0	1361.3	1361.3	1364.0	1365.3	1361.3	1364.0	1360.0	1360.0	1357.3	1353.3	5°
7.5°	1350.7	1353.3	1353.3	1356.0	1356.0	1352.0	1352.0	1344.0	1341.3	1332.0	1325.3	7.5°
10°	1332.0	1336.0	1338.7	1344.0	1346.7	1340.0	1336.0	1326.7	1316.0	1305.3	1294.7	10°
12.5°	1300.0	1301.3	1310.7	1318.7	1322.7	1326.7	1324.0	1322.7	1312.0	1305.3	1301.3	12.5°
15°	1226.7	1237.3	1246.7	1265.3	1278.7	1293.3	1304.0	1316.0	1321.3	1328.0	1330.7	15°
17.5°	1162.7	1174.7	1181.3	1197.3	1210.7	1233.3	1261.3	1292.0	1313.3	1340.0	1365.3	17.5°
20°	1073.3	1093.3	1098.7	1124.0	1141.3	1170.7	1201.3	1240.0	1282.7	1324.0	1369.3	20°
22.5°	973.3	982.7	993.3	1020.0	1041.3	1078.7	1125.3	1178.7	1228.0	1285.3	1350.7	22.5°
25°	852.0	864.0	874.7	904.0	934.7	969.3	1025.3	1090.7	1153.3	1229.3	1314.7	25°
27.5°	732.0	741.3	760.0	781.3	816.0	853.3	922.7	994.7	1066.7	1158.7	1260.0	27.5°
30°	606.7	616.0	625.3	650.7	686.7	730.7	793.3	878.7	964.0	1062.7	1182.7	30°
32.5°	486.7	489.3	508.0	526.7	557.3	594.7	662.7	745.3	837.3	957.3	1076.0	32.5°
35°	380.0	396.0	404.0	429.3	448.0	486.7	544.0	620.0	716.0	837.3	965.3	35°
37.5°	337.3	342.7	353.3	372.0	397.3	432.0	472.0	530.7	613.3	716.0	836.0	37.5°
40°	321.3	326.7	334.7	349.3	373.3	405.3	438.7	485.3	549.3	630.7	738.7	40°
42.5°	316.0	317.3	320.0	333.3	357.3	393.3	433.3	477.3	526.7	592.0	677.3	42.5°
45°	309.3	309.3	310.7	320.0	341.3	378.7	429.3	485.3	541.3	600.0	672.0	45°
47.5°	304.0	305.3	304.0	308.0	324.0	360.0	416.0	484.0	558.7	634.7	713.3	47.5°
50°	282.7	282.7	284.0	285.3	297.3	332.0	386.7	461.3	553.3	656.0	764.0	50°
52.5°	265.3	268.0	268.0	270.7	278.7	306.7	361.3	440.0	540.0	660.0	805.3	52.5°
55°	260.0	262.7	264.0	264.0	269.3	293.3	345.3	420.0	525.3	656.0	821.3	55°
57.5°	256.0	258.7	260.0	258.7	262.7	282.7	330.7	404.0	509.3	646.7	828.0	57.5°
60°	252.0	253.3	250.7	248.0	249.3	266.7	309.3	381.3	490.7	633.3	825.3	60°
62.5°	233.3	234.7	232.0	229.3	226.7	240.0	278.7	349.3	452.0	602.7	804.0	62.5°
65°	217.3	217.3	217.3	214.7	212.0	220.0	248.0	308.0	397.3	548.0	754.7	65°
67.5°	204.0	202.7	202.7	201.3	198.7	201.3	218.7	260.0	329.3	461.3	665.3	67.5°
70°	182.7	181.3	182.7	181.3	178.7	178.7	186.7	209.3	256.0	338.7	517.3	70°
72.5°	161.3	162.7	165.3	165.3	165.3	166.7	166.7	173.3	198.7	242.7	352.0	72.5°
75°	138.7	140.0	144.0	149.3	146.7	148.0	148.0	152.0	165.3	192.0	246.7	75°
77.5°	117.3	121.3	126.7	128.0	124.0	124.0	126.7	133.3	145.3	161.3	188.0	77.5°
80°	96.0	101.3	102.7	105.3	106.7	106.7	109.3	114.7	126.7	146.7	168.0	80°
82.5°	76.0	80.0	84.0	88.0	90.7	94.7	96.0	98.7	110.7	130.7	154.7	82.5°
85°	57.3	61.3	66.7	70.7	73.3	77.3	76.0	77.3	84.0	100.0	117.3	85°
87.5°	34.7	34.7	38.7	40.0	41.3	41.3	44.0	38.7	41.3	53.3	64.0	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°



IUMBER: P141490

NUMBER: CEM-E04-LED-E-U-SLL

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
1364.0	1362.7	1361.3	1362.7	1365.3	1365.3	1361.3
1354.7	1350.7	1348.0	1348.0	1348.0	1346.7	1344.0
1322.7	1316.0	1312.0	1309.3	1308.0	1308.0	1302.7
1288.0	1284.0	1276.0	1273.3	1274.7	1278.7	1277.3
1296.0	1284.0	1280.0	1280.0	1278.7	1285.3	1284.0
1340.0	1340.0	1334.7	1333.3	1330.7	1338.7	1338.7
1386.7	1398.7	1404.0	1398.7	1400.0	1401.3	1412.0
1412.0	1446.7	1465.3	1480.0	1481.3	1489.3	1488.0
1416.0	1478.7	1528.0	1560.0	1589.3	1604.0	1601.3
1396.0	1482.7	1569.3	1650.7	1712.0	1745.3	1773.3
1369.3	1472.0	1584.0	1698.7	1798.7	1888.0	1944.0
1306.7	1437.3	1581.3	1728.0	1870.7	1998.7	2102.7
1218.7	1369.3	1541.3	1734.7	1934.7	2112.0	2264.0
1101.3	1262.7	1472.0	1709.3	1973.3	2237.3	2466.7
974.7	1152.0	1381.3	1666.7	1993.3	2337.3	2652.0
864.0	1038.7	1289.3	1612.0	1990.7	2402.7	2788.0
792.0	956.0	1209.3	1560.0	1977.3	2440.0	2894.7
768.0	916.0	1156.0	1518.7	1969.3	2466.7	2968.0
800.0	928.0	1144.0	1500.0	1966.7	2497.3	3032.0
874.7	994.7	1189.3	1530.7	1990.7	2528.0	3096.0
945.3	1088.0	1288.0	1618.7	2080.0	2617.3	3184.0
1002.7	1189.3	1394.7	1734.7	2208.0	2756.0	3316.0
1034.7	1268.0	1533.3	1896.0	2382.7	2960.0	3532.0
1048.0	1322.7	1652.0	2065.3	2602.7	3193.3	3805.3
1042.7	1348.0	1737.3	2220.0	2801.3	3449.3	4116.0
1009.3	1348.0	1790.7	2344.0	2968.0	3653.3	4389.3
929.3	1301.3	1796.0	2416.0	3096.0	3825.3	4613.3
782.7	1166.7	1706.7	2408.0	3136.0	3880.0	4730.7
548.0	870.7	1424.0	2176.0	2965.3	3750.7	4601.3
340.0	542.7	1020.0	1682.7	2468.0	3182.7	4094.7
238.7	329.3	584.0	1065.3	1698.7	2372.0	3057.3
198.7	242.7	333.3	586.7	1021.3	1461.3	1922.7
172.0	196.0	232.0	334.7	520.0	778.7	1070.7
128.0	142.7	160.0	220.0	328.0	481.3	732.0
52.0	58.7	65.3	88.0	201.3	277.3	297.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)