

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: McGRAW-EDISON

Report Number: P145311

Luminaire Tested: **VPL-E02-LED-E1-GL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145311
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-E02-LED-E1-GL3-7050
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ GLARE CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6092.4 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

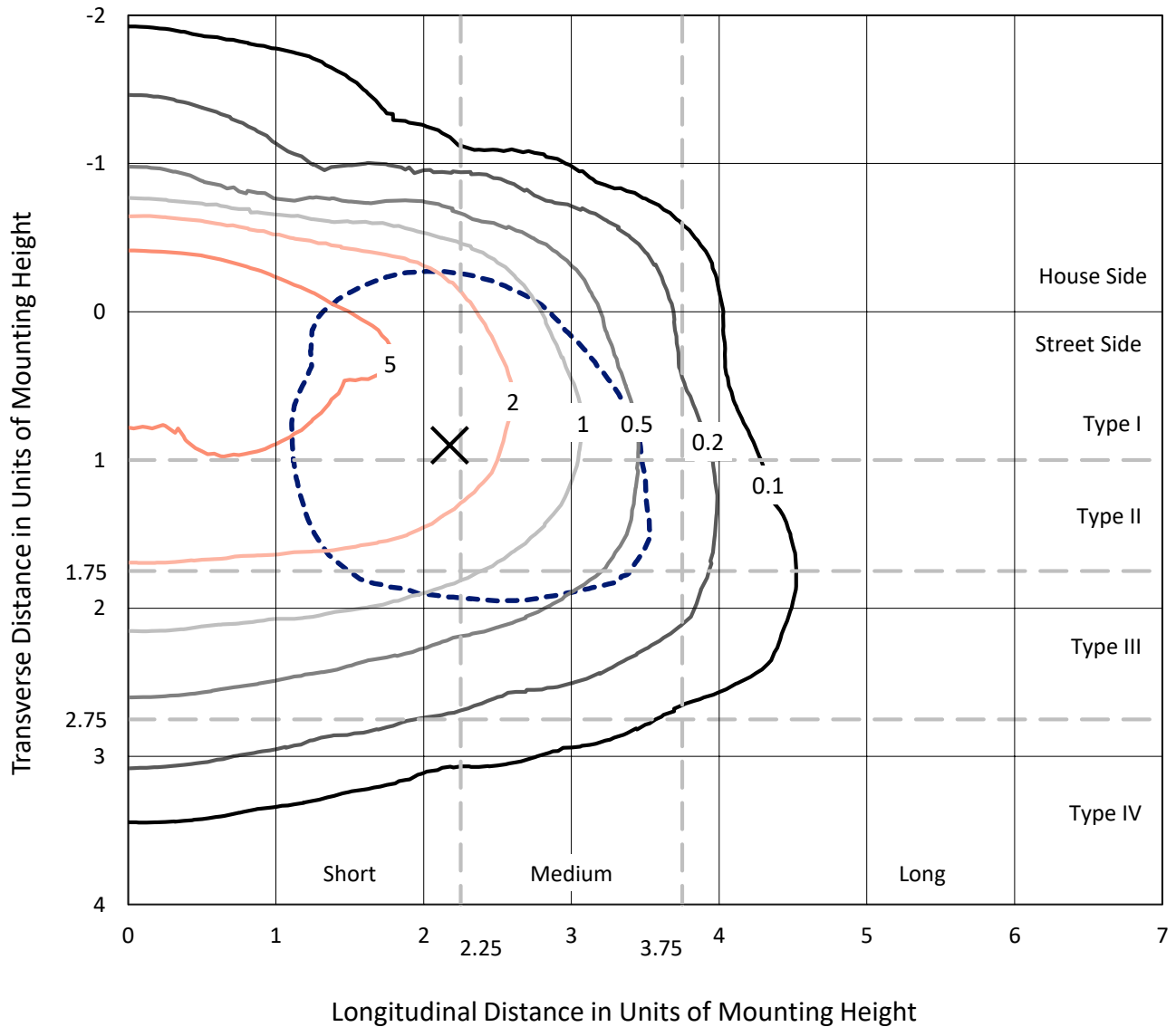
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P145311
 CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

Iso-Footcandle Lines of Horizontal Illumination

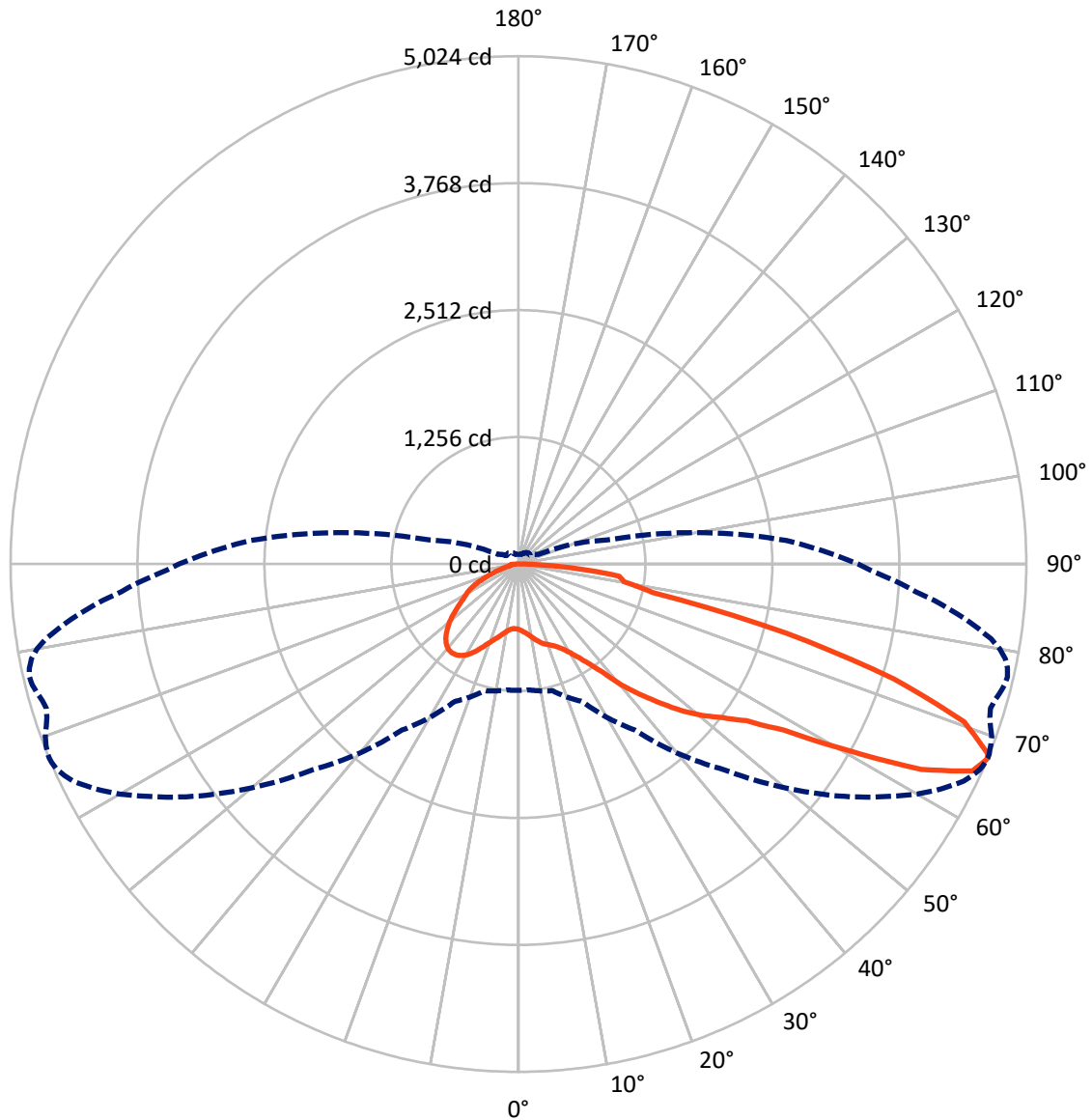
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P145311
CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P145311

CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1442.7 | 0.0 | 1442.7 |
| | % Fixture | 23.7 | 0.0 | 23.7 |
| Street Side | Lumens | 4649.7 | 0.0 | 4649.7 |
| | % Fixture | 76.3 | 0.0 | 76.3 |
| Total | Lumens | 6092.4 | 0.0 | 6092.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.7 | 1.1 |
| 10°-20° | 221.5 | 3.6 |
| 20°-30° | 394.3 | 6.5 |
| 30°-40° | 574.4 | 9.4 |
| 40°-50° | 885.0 | 14.5 |
| 50°-60° | 1296.1 | 21.3 |
| 60°-70° | 1721.1 | 28.2 |
| 70°-80° | 811.3 | 13.3 |
| 80°-90° | 124.0 | 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° | 6092.4 | 100.0 |
| 0°-180° | 6092.4 | 100.0 |



REPORT NUMBER: P145311

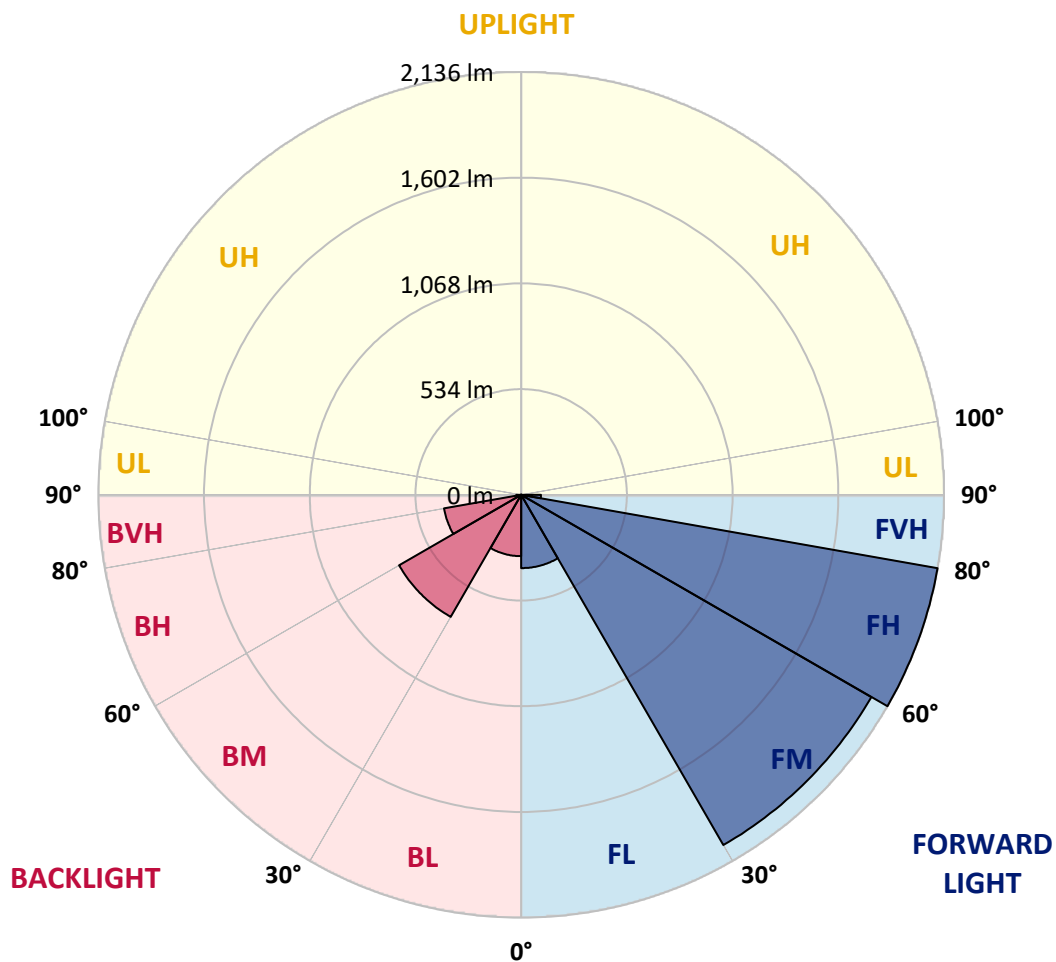
CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 370.4 | 6.1 | | | |
| FM | (30°-60°) | 2043.1 | 33.5 | | | |
| FH | (60°-80°) | 2136.3 | 35.1 | | | G2/5000 |
| FVH | (80°-90°) | 99.9 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 310.1 | 5.1 | B1/500 | | |
| BM | (30°-60°) | 712.4 | 11.7 | B1/1000 | | |
| BH | (60°-80°) | 396.1 | 6.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 24.1 | 0.4 | | | 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 III Short





REPORT NUMBER: P145311

CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 |
| 2.5° | 680.5 | 677.6 | 678.1 | 679.3 | 675.2 | 673.1 | 668.6 | 665.7 | 665.3 | 664.9 | 663.3 |
| 5° | 720.3 | 717.5 | 718.7 | 715.4 | 707.6 | 702.3 | 692.8 | 687.9 | 687.1 | 686.3 | 684.2 |
| 7.5° | 761.8 | 758.1 | 754.0 | 750.3 | 741.7 | 733.0 | 720.7 | 713.3 | 712.5 | 711.3 | 710.1 |
| 10° | 811.0 | 805.7 | 802.4 | 790.9 | 776.1 | 764.2 | 751.9 | 744.1 | 743.7 | 742.5 | 740.0 |
| 12.5° | 866.4 | 860.7 | 854.5 | 839.4 | 816.4 | 798.7 | 784.4 | 779.8 | 776.1 | 776.6 | 774.1 |
| 15° | 921.4 | 915.3 | 907.1 | 887.8 | 857.4 | 831.1 | 812.7 | 806.1 | 806.5 | 804.5 | 805.7 |
| 17.5° | 967.8 | 962.5 | 950.6 | 926.0 | 890.7 | 854.5 | 831.1 | 828.3 | 829.1 | 828.7 | 829.9 |
| 20° | 998.2 | 994.9 | 976.9 | 947.3 | 907.5 | 867.7 | 843.9 | 843.9 | 844.3 | 845.9 | 848.8 |
| 22.5° | 1016.7 | 1011.7 | 987.9 | 946.5 | 907.1 | 873.8 | 855.4 | 859.5 | 861.9 | 863.2 | 867.7 |
| 25° | 1026.9 | 1020.8 | 988.3 | 933.3 | 893.1 | 878.3 | 872.6 | 882.9 | 887.0 | 889.0 | 896.4 |
| 27.5° | 1026.9 | 1019.5 | 983.0 | 916.9 | 877.1 | 891.9 | 905.4 | 923.1 | 926.0 | 932.1 | 940.7 |
| 30° | 1015.4 | 1009.7 | 974.8 | 904.6 | 873.0 | 917.3 | 958.4 | 978.5 | 985.5 | 992.4 | 1003.5 |
| 32.5° | 1003.1 | 998.2 | 970.7 | 911.2 | 896.0 | 970.7 | 1039.2 | 1066.7 | 1070.8 | 1076.6 | 1088.1 |
| 35° | 1002.3 | 1000.7 | 988.8 | 953.0 | 965.4 | 1068.4 | 1161.1 | 1180.0 | 1191.5 | 1194.4 | 1199.3 |
| 37.5° | 1010.9 | 1014.2 | 1024.5 | 1020.8 | 1065.1 | 1213.7 | 1320.8 | 1358.6 | 1367.6 | 1362.7 | 1367.2 |
| 40° | 1031.0 | 1039.2 | 1077.4 | 1124.6 | 1217.4 | 1389.3 | 1538.3 | 1581.8 | 1591.7 | 1588.8 | 1587.6 |
| 42.5° | 1094.6 | 1105.7 | 1162.0 | 1262.9 | 1375.8 | 1571.2 | 1740.3 | 1787.1 | 1790.3 | 1792.0 | 1781.3 |
| 45° | 1194.4 | 1200.5 | 1275.2 | 1404.1 | 1547.4 | 1767.0 | 1941.8 | 1993.9 | 1991.9 | 1983.7 | 1975.9 |
| 47.5° | 1307.7 | 1320.4 | 1409.9 | 1565.8 | 1724.7 | 1948.0 | 2145.8 | 2196.7 | 2201.2 | 2193.8 | 2179.4 |
| 50° | 1410.7 | 1420.5 | 1521.5 | 1706.6 | 1881.1 | 2098.6 | 2317.8 | 2369.1 | 2368.3 | 2372.4 | 2376.5 |
| 52.5° | 1492.0 | 1501.0 | 1597.0 | 1800.6 | 1996.0 | 2225.0 | 2447.5 | 2510.7 | 2520.5 | 2527.1 | 2535.3 |
| 55° | 1533.8 | 1543.3 | 1631.9 | 1839.6 | 2065.8 | 2348.6 | 2597.3 | 2688.0 | 2704.8 | 2719.6 | 2733.1 |
| 57.5° | 1534.6 | 1547.0 | 1628.2 | 1836.7 | 2101.9 | 2459.0 | 2795.5 | 2958.5 | 2982.3 | 3020.0 | 3066.4 |
| 60° | 1509.6 | 1526.8 | 1599.9 | 1810.0 | 2143.3 | 2598.9 | 3122.2 | 3434.2 | 3481.0 | 3547.0 | 3606.6 |
| 62.5° | 1444.3 | 1461.6 | 1526.8 | 1742.3 | 2191.8 | 2778.3 | 3594.2 | 4051.5 | 4151.2 | 4224.3 | 4342.1 |
| 65° | 1341.3 | 1357.7 | 1412.7 | 1630.3 | 2153.2 | 2919.9 | 3946.0 | 4494.3 | 4596.1 | 4687.7 | 4826.0 |
| 67° | 1249.4 | 1251.0 | 1297.4 | 1501.8 | 2003.0 | 2876.0 | 4016.6 | 4553.4 | 4647.4 | 4740.2 | 4900.7 |
| 67.5° | 1217.0 | 1226.0 | 1262.1 | 1459.1 | 1945.9 | 2843.5 | 3988.7 | 4521.4 | 4612.5 | 4711.5 | 4875.2 |
| 70° | 983.8 | 986.3 | 1021.2 | 1164.0 | 1544.1 | 2357.6 | 3582.7 | 4113.0 | 4175.4 | 4320.3 | 4481.2 |
| 72.5° | 600.1 | 596.0 | 607.0 | 712.9 | 1016.3 | 1632.7 | 2868.6 | 3386.1 | 3471.5 | 3595.1 | 3703.8 |
| 75° | 330.4 | 350.1 | 363.7 | 437.1 | 570.9 | 960.0 | 1953.3 | 2449.9 | 2575.1 | 2648.6 | 2670.3 |
| 77.5° | 201.9 | 200.3 | 206.5 | 282.0 | 468.3 | 656.7 | 1079.1 | 1437.4 | 1507.1 | 1528.1 | 1447.2 |
| 80° | 96.0 | 99.7 | 98.5 | 116.2 | 227.0 | 554.1 | 754.4 | 923.1 | 958.4 | 978.5 | 1004.8 |
| 82.5° | 52.5 | 54.6 | 62.0 | 69.4 | 89.5 | 238.5 | 651.0 | 851.3 | 875.1 | 909.5 | 948.1 |
| 85° | 32.8 | 34.5 | 47.6 | 50.1 | 55.0 | 73.5 | 271.3 | 497.5 | 517.6 | 586.1 | 607.9 |
| 87.5° | 13.5 | 14.8 | 25.9 | 23.4 | 27.9 | 25.9 | 82.1 | 126.4 | 134.2 | 142.8 | 158.4 |
| 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: P145311

CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 67.5° | 68° | 69° | 70° | 71° | 72° | 73° | 74° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 |
| 2.5° | 663.7 | 663.3 | 661.6 | 661.2 | 662.0 | 662.0 | 661.2 | 660.0 | 659.6 | 659.2 | 658.3 |
| 5° | 683.4 | 682.6 | 681.3 | 680.5 | 680.1 | 680.1 | 678.9 | 677.6 | 676.4 | 674.8 | 674.4 |
| 7.5° | 706.8 | 706.8 | 706.4 | 705.1 | 703.9 | 702.3 | 701.0 | 699.8 | 698.6 | 697.8 | 696.5 |
| 10° | 737.6 | 739.2 | 736.3 | 735.5 | 735.1 | 732.6 | 732.2 | 731.0 | 730.2 | 728.1 | 728.1 |
| 12.5° | 774.1 | 772.5 | 772.0 | 770.4 | 770.4 | 769.2 | 768.8 | 768.3 | 767.5 | 765.9 | 765.5 |
| 15° | 804.5 | 804.5 | 804.1 | 803.2 | 804.1 | 803.2 | 802.0 | 802.8 | 801.6 | 802.0 | 800.8 |
| 17.5° | 829.1 | 830.7 | 830.3 | 830.7 | 830.3 | 830.3 | 831.1 | 831.1 | 832.0 | 830.3 | 830.7 |
| 20° | 849.6 | 852.1 | 853.3 | 852.5 | 853.3 | 853.7 | 855.8 | 856.6 | 857.8 | 858.6 | 858.6 |
| 22.5° | 871.0 | 874.2 | 876.7 | 876.7 | 878.3 | 880.0 | 883.7 | 884.5 | 887.4 | 887.0 | 889.0 |
| 25° | 900.9 | 906.3 | 907.9 | 910.4 | 912.4 | 915.3 | 919.8 | 921.9 | 923.1 | 926.0 | 929.2 |
| 27.5° | 946.9 | 953.5 | 954.7 | 957.6 | 962.9 | 964.5 | 969.5 | 971.5 | 976.0 | 982.2 | 983.4 |
| 30° | 1009.7 | 1017.9 | 1018.3 | 1021.6 | 1027.7 | 1029.8 | 1033.9 | 1039.2 | 1042.9 | 1049.1 | 1049.5 |
| 32.5° | 1095.1 | 1103.3 | 1102.0 | 1108.2 | 1107.8 | 1113.9 | 1112.7 | 1120.9 | 1124.2 | 1127.5 | 1136.5 |
| 35° | 1208.8 | 1207.9 | 1214.1 | 1216.1 | 1214.9 | 1219.8 | 1219.0 | 1222.7 | 1226.0 | 1226.0 | 1235.8 |
| 37.5° | 1372.5 | 1371.3 | 1370.5 | 1361.8 | 1359.8 | 1360.2 | 1358.6 | 1361.8 | 1356.5 | 1356.5 | 1367.2 |
| 40° | 1592.1 | 1584.7 | 1579.0 | 1573.2 | 1567.5 | 1559.7 | 1553.1 | 1551.5 | 1542.4 | 1542.0 | 1537.9 |
| 42.5° | 1783.0 | 1776.0 | 1771.9 | 1760.8 | 1755.1 | 1753.8 | 1737.8 | 1733.3 | 1730.8 | 1732.5 | 1728.4 |
| 45° | 1983.3 | 1975.9 | 1960.3 | 1955.3 | 1953.7 | 1945.1 | 1942.6 | 1931.5 | 1928.3 | 1934.0 | 1932.0 |
| 47.5° | 2189.7 | 2179.0 | 2170.4 | 2164.7 | 2162.6 | 2155.2 | 2144.6 | 2153.6 | 2149.1 | 2145.8 | 2139.6 |
| 50° | 2375.2 | 2363.3 | 2363.3 | 2353.1 | 2354.7 | 2349.8 | 2338.7 | 2341.2 | 2328.4 | 2333.4 | 2330.1 |
| 52.5° | 2530.8 | 2531.6 | 2535.7 | 2524.2 | 2526.3 | 2526.3 | 2522.6 | 2510.7 | 2514.0 | 2512.3 | 2520.1 |
| 55° | 2728.6 | 2742.2 | 2734.8 | 2736.8 | 2739.3 | 2750.8 | 2759.0 | 2752.0 | 2740.5 | 2749.6 | 2774.6 |
| 57.5° | 3074.6 | 3086.9 | 3094.3 | 3100.1 | 3109.5 | 3114.8 | 3159.2 | 3165.3 | 3152.2 | 3179.3 | 3235.1 |
| 60° | 3676.3 | 3691.1 | 3713.3 | 3742.4 | 3748.6 | 3785.9 | 3808.9 | 3836.0 | 3845.8 | 3869.2 | 3929.2 |
| 62.5° | 4399.9 | 4433.2 | 4437.3 | 4474.2 | 4503.0 | 4468.1 | 4477.1 | 4510.3 | 4472.6 | 4524.3 | 4526.8 |
| 65° | 4873.6 | 4922.0 | 4923.7 | 4937.2 | 4947.9 | 4915.0 | 4900.3 | 4885.5 | 4849.8 | 4847.7 | 4883.4 |
| 67° | 4954.9 | 4999.2 | 5017.7 | 5024.2 | 5022.6 | 5005.8 | 4981.5 | 4938.9 | 4904.4 | 4884.7 | 4899.4 |
| 67.5° | 4931.9 | 4975.4 | 5001.2 | 5007.4 | 5007.8 | 4991.4 | 4969.2 | 4922.8 | 4890.4 | 4868.3 | 4883.9 |
| 70° | 4554.3 | 4656.1 | 4700.4 | 4677.4 | 4690.5 | 4690.5 | 4689.7 | 4647.0 | 4631.0 | 4609.7 | 4601.5 |
| 72.5° | 3786.7 | 3857.3 | 3913.6 | 3883.6 | 3887.3 | 3915.2 | 3908.6 | 3913.2 | 3867.2 | 3862.3 | 3786.3 |
| 75° | 2712.6 | 2735.2 | 2716.3 | 2737.6 | 2622.7 | 2581.7 | 2511.9 | 2410.1 | 2383.4 | 2341.2 | 2214.7 |
| 77.5° | 1441.1 | 1415.6 | 1365.1 | 1361.0 | 1313.8 | 1277.3 | 1232.1 | 1202.6 | 1127.9 | 1086.4 | 991.6 |
| 80° | 1017.9 | 1030.2 | 1049.5 | 1061.0 | 1071.7 | 1079.9 | 1063.0 | 1015.8 | 953.5 | 883.7 | 817.6 |
| 82.5° | 972.3 | 989.2 | 1000.7 | 1006.4 | 1002.3 | 989.2 | 950.6 | 905.4 | 822.1 | 761.8 | 690.4 |
| 85° | 613.2 | 626.7 | 603.4 | 598.4 | 608.7 | 525.8 | 480.2 | 443.3 | 359.1 | 334.1 | 295.1 |
| 87.5° | 164.6 | 173.6 | 174.0 | 168.7 | 165.4 | 145.7 | 128.9 | 114.1 | 94.4 | 88.7 | 71.8 |
| 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: P145311

CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

CANDELA DISTRIBUTION (continued):

| | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 |
| 2.5° | 658.3 | 657.9 | 657.9 | 656.7 | 655.9 | 655.5 | 655.1 | 653.8 | 653.0 | 653.0 | 652.6 |
| 5° | 673.9 | 673.1 | 671.9 | 671.5 | 669.8 | 669.0 | 667.4 | 666.6 | 665.3 | 664.5 | 664.1 |
| 7.5° | 696.1 | 694.1 | 691.6 | 692.0 | 689.5 | 688.3 | 687.5 | 685.8 | 684.6 | 683.4 | 683.0 |
| 10° | 725.7 | 725.3 | 722.8 | 723.6 | 719.1 | 721.1 | 717.0 | 717.5 | 715.0 | 712.5 | 712.1 |
| 12.5° | 763.4 | 763.0 | 760.5 | 757.7 | 756.9 | 757.3 | 754.8 | 755.2 | 752.3 | 751.5 | 750.7 |
| 15° | 799.5 | 798.7 | 797.5 | 795.4 | 794.2 | 793.8 | 793.0 | 792.2 | 789.7 | 789.7 | 786.8 |
| 17.5° | 830.7 | 831.1 | 829.5 | 827.9 | 827.0 | 825.8 | 825.4 | 825.4 | 823.3 | 821.3 | 821.7 |
| 20° | 858.2 | 859.1 | 859.1 | 857.8 | 858.2 | 857.4 | 857.0 | 857.8 | 855.8 | 855.0 | 853.7 |
| 22.5° | 889.0 | 889.0 | 889.4 | 890.2 | 891.5 | 891.9 | 891.9 | 891.1 | 889.8 | 889.4 | 887.0 |
| 25° | 931.7 | 930.1 | 932.1 | 932.9 | 932.9 | 935.0 | 934.2 | 934.6 | 935.0 | 933.8 | 932.5 |
| 27.5° | 985.5 | 983.8 | 987.9 | 990.8 | 990.4 | 991.6 | 994.1 | 991.2 | 992.9 | 994.1 | 991.2 |
| 30° | 1051.6 | 1055.7 | 1058.5 | 1060.6 | 1059.8 | 1063.5 | 1064.7 | 1064.3 | 1063.0 | 1065.1 | 1065.1 |
| 32.5° | 1135.7 | 1133.6 | 1141.0 | 1145.5 | 1146.0 | 1145.1 | 1147.2 | 1149.6 | 1147.6 | 1150.9 | 1149.2 |
| 35° | 1235.8 | 1237.1 | 1238.7 | 1243.6 | 1245.7 | 1242.4 | 1245.7 | 1248.6 | 1247.7 | 1248.2 | 1249.8 |
| 37.5° | 1365.1 | 1367.2 | 1365.5 | 1366.0 | 1365.1 | 1380.7 | 1383.2 | 1385.7 | 1382.8 | 1380.3 | 1387.7 |
| 40° | 1544.5 | 1544.5 | 1544.1 | 1549.4 | 1540.4 | 1550.2 | 1547.4 | 1554.3 | 1561.7 | 1557.6 | 1568.7 |
| 42.5° | 1721.0 | 1730.8 | 1731.7 | 1723.9 | 1730.4 | 1741.1 | 1741.1 | 1745.6 | 1752.2 | 1745.6 | 1756.3 |
| 45° | 1923.3 | 1935.6 | 1933.6 | 1946.7 | 1936.9 | 1949.2 | 1951.2 | 1945.5 | 1959.9 | 1961.5 | 1957.4 |
| 47.5° | 2144.1 | 2146.6 | 2147.0 | 2151.5 | 2153.6 | 2163.4 | 2163.0 | 2173.7 | 2170.4 | 2154.0 | 2159.7 |
| 50° | 2333.4 | 2339.5 | 2342.8 | 2345.7 | 2355.9 | 2362.9 | 2372.4 | 2374.0 | 2371.5 | 2366.6 | 2362.1 |
| 52.5° | 2522.6 | 2537.4 | 2546.8 | 2572.2 | 2588.2 | 2601.0 | 2616.6 | 2622.3 | 2619.4 | 2618.2 | 2600.2 |
| 55° | 2775.8 | 2811.1 | 2865.7 | 2901.0 | 2939.6 | 2962.2 | 2980.2 | 2989.3 | 2982.7 | 2986.0 | 2948.6 |
| 57.5° | 3252.8 | 3335.7 | 3383.3 | 3443.6 | 3511.7 | 3540.1 | 3547.9 | 3579.9 | 3544.6 | 3509.3 | 3481.0 |
| 60° | 3961.6 | 4037.9 | 4124.5 | 4186.5 | 4209.5 | 4287.9 | 4250.9 | 4209.5 | 4171.7 | 4098.7 | 4016.2 |
| 62.5° | 4601.5 | 4700.0 | 4744.3 | 4802.2 | 4786.6 | 4780.0 | 4755.4 | 4689.3 | 4608.4 | 4499.7 | 4389.7 |
| 65° | 4917.1 | 4972.5 | 5000.0 | 5018.9 | 5001.2 | 4955.7 | 4874.4 | 4776.7 | 4661.0 | 4520.2 | 4375.7 |
| 67° | 4929.8 | 4955.3 | 4964.3 | 4946.2 | 4906.8 | 4835.8 | 4733.2 | 4594.9 | 4452.5 | 4291.2 | 4128.6 |
| 67.5° | 4908.9 | 4925.7 | 4930.2 | 4901.9 | 4855.1 | 4778.4 | 4668.8 | 4521.0 | 4369.6 | 4202.1 | 4038.8 |
| 70° | 4623.2 | 4610.9 | 4571.1 | 4532.1 | 4386.0 | 4283.0 | 4092.1 | 3934.5 | 3724.4 | 3570.4 | 3396.0 |
| 72.5° | 3756.0 | 3699.7 | 3661.1 | 3488.8 | 3312.3 | 3210.1 | 3004.8 | 2816.5 | 2624.8 | 2478.2 | 2371.1 |
| 75° | 2108.4 | 2067.4 | 1960.3 | 1869.2 | 1723.4 | 1590.1 | 1494.4 | 1374.6 | 1259.6 | 1191.5 | 1141.4 |
| 77.5° | 952.6 | 835.2 | 754.4 | 652.2 | 527.0 | 423.6 | 314.4 | 290.6 | 247.9 | 237.2 | 213.8 |
| 80° | 743.3 | 659.2 | 553.3 | 436.3 | 307.8 | 206.9 | 151.9 | 128.9 | 121.1 | 116.2 | 113.7 |
| 82.5° | 620.2 | 511.0 | 430.1 | 305.4 | 195.4 | 131.3 | 98.9 | 89.5 | 83.7 | 79.6 | 75.9 |
| 85° | 265.1 | 209.7 | 172.8 | 123.5 | 87.8 | 69.4 | 60.7 | 55.4 | 50.1 | 45.6 | 42.7 |
| 87.5° | 62.0 | 47.6 | 43.5 | 36.9 | 34.9 | 34.5 | 34.1 | 32.4 | 30.4 | 27.9 | 25.0 |
| 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: P145311

CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

CANDELA DISTRIBUTION (continued):

| | 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 | 648.1 |
| 2.5° | 652.2 | 651.8 | 651.0 | 649.7 | 649.7 | 648.1 | 642.8 | 639.1 | 635.0 | 632.5 | 630.0 |
| 5° | 663.3 | 662.9 | 660.8 | 659.6 | 658.8 | 655.5 | 646.4 | 639.5 | 632.1 | 626.7 | 622.6 |
| 7.5° | 681.7 | 680.5 | 678.9 | 678.1 | 675.6 | 671.5 | 658.3 | 648.5 | 637.8 | 629.2 | 622.2 |
| 10° | 711.7 | 709.7 | 707.2 | 704.7 | 705.6 | 699.0 | 683.8 | 669.4 | 653.8 | 640.3 | 630.8 |
| 12.5° | 748.2 | 748.2 | 747.0 | 745.4 | 742.5 | 735.1 | 714.6 | 697.8 | 678.9 | 662.0 | 655.1 |
| 15° | 786.8 | 784.8 | 782.7 | 780.3 | 779.8 | 770.0 | 751.5 | 732.2 | 712.5 | 698.2 | 690.0 |
| 17.5° | 818.4 | 819.2 | 816.4 | 815.5 | 814.7 | 804.9 | 785.2 | 767.9 | 753.6 | 738.4 | 725.3 |
| 20° | 852.1 | 850.4 | 849.6 | 848.4 | 848.0 | 839.8 | 824.2 | 813.5 | 800.8 | 777.8 | 743.3 |
| 22.5° | 888.2 | 886.1 | 887.0 | 884.5 | 884.1 | 878.3 | 866.9 | 863.6 | 844.7 | 796.3 | 736.3 |
| 25° | 935.0 | 931.3 | 932.5 | 932.5 | 932.9 | 927.6 | 926.4 | 920.6 | 873.0 | 791.7 | 708.4 |
| 27.5° | 990.8 | 992.4 | 992.4 | 992.0 | 989.2 | 990.8 | 996.6 | 976.9 | 882.9 | 767.9 | 666.6 |
| 30° | 1063.5 | 1064.3 | 1065.1 | 1068.0 | 1061.8 | 1072.5 | 1079.5 | 1016.7 | 875.5 | 735.1 | 614.0 |
| 32.5° | 1151.7 | 1148.4 | 1150.1 | 1151.7 | 1153.8 | 1164.8 | 1160.7 | 1036.8 | 853.7 | 690.4 | 548.8 |
| 35° | 1249.0 | 1255.1 | 1256.8 | 1260.5 | 1264.6 | 1281.4 | 1234.2 | 1040.9 | 820.5 | 630.4 | 465.4 |
| 37.5° | 1393.9 | 1403.7 | 1403.7 | 1416.8 | 1409.0 | 1429.6 | 1299.9 | 1031.0 | 770.0 | 547.1 | 371.5 |
| 40° | 1576.5 | 1581.0 | 1585.5 | 1587.2 | 1583.1 | 1580.6 | 1343.0 | 1006.8 | 699.0 | 442.5 | 271.7 |
| 42.5° | 1762.8 | 1761.2 | 1761.6 | 1764.5 | 1753.4 | 1707.0 | 1369.6 | 964.5 | 610.7 | 330.4 | 195.0 |
| 45° | 1963.6 | 1956.6 | 1954.5 | 1948.8 | 1938.9 | 1841.2 | 1384.8 | 905.0 | 494.6 | 232.3 | 153.1 |
| 47.5° | 2158.9 | 2150.3 | 2137.2 | 2121.2 | 2102.3 | 1949.2 | 1383.2 | 827.9 | 379.2 | 166.2 | 135.0 |
| 50° | 2359.2 | 2344.0 | 2315.7 | 2300.1 | 2268.1 | 2056.3 | 1373.7 | 742.1 | 272.9 | 137.5 | 126.4 |
| 52.5° | 2588.2 | 2561.2 | 2534.9 | 2503.7 | 2450.8 | 2188.1 | 1359.4 | 645.6 | 199.1 | 126.0 | 120.7 |
| 55° | 2929.7 | 2885.4 | 2842.3 | 2777.5 | 2726.2 | 2364.6 | 1335.2 | 541.8 | 157.2 | 121.5 | 117.4 |
| 57.5° | 3400.5 | 3325.0 | 3270.4 | 3183.0 | 3100.9 | 2608.8 | 1309.3 | 447.4 | 140.4 | 120.3 | 115.7 |
| 60° | 3930.4 | 3816.7 | 3714.9 | 3607.4 | 3513.8 | 2913.7 | 1295.8 | 373.5 | 136.7 | 121.5 | 116.2 |
| 62.5° | 4262.9 | 4128.6 | 4001.4 | 3870.1 | 3735.4 | 3059.4 | 1237.1 | 322.6 | 138.3 | 126.8 | 119.4 |
| 65° | 4221.0 | 4072.8 | 3934.5 | 3774.4 | 3647.6 | 2921.9 | 1087.7 | 272.9 | 141.2 | 136.3 | 128.5 |
| 67° | 3938.6 | 3794.9 | 3637.3 | 3480.5 | 3357.4 | 2660.5 | 918.2 | 229.8 | 144.5 | 146.9 | 138.3 |
| 67.5° | 3863.1 | 3701.4 | 3542.5 | 3398.5 | 3265.1 | 2579.6 | 873.8 | 219.2 | 145.3 | 149.8 | 141.6 |
| 70° | 3221.6 | 3093.5 | 2907.6 | 2800.9 | 2704.4 | 2091.2 | 651.8 | 170.3 | 147.8 | 162.5 | 157.2 |
| 72.5° | 2254.1 | 2130.2 | 2032.9 | 1974.6 | 1918.4 | 1519.5 | 458.5 | 135.9 | 144.1 | 169.5 | 164.2 |
| 75° | 1138.6 | 1110.2 | 1076.2 | 1057.3 | 1058.1 | 883.3 | 276.2 | 115.7 | 135.4 | 162.5 | 149.0 |
| 77.5° | 224.9 | 219.2 | 221.6 | 242.6 | 238.9 | 272.1 | 137.1 | 98.1 | 115.3 | 125.2 | 107.1 |
| 80° | 108.8 | 105.1 | 101.8 | 101.0 | 98.9 | 94.8 | 86.2 | 81.7 | 93.6 | 82.5 | 71.0 |
| 82.5° | 70.6 | 66.5 | 64.8 | 61.6 | 62.0 | 67.3 | 75.1 | 78.4 | 75.9 | 57.1 | 48.0 |
| 85° | 39.8 | 39.4 | 38.6 | 39.4 | 41.0 | 53.8 | 80.4 | 73.5 | 61.2 | 40.2 | 36.1 |
| 87.5° | 23.8 | 22.6 | 23.0 | 23.4 | 24.2 | 39.8 | 63.6 | 52.9 | 39.0 | 20.9 | 21.3 |
| 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: P145311

CATALOG NUMBER: VPL-E02-LED-E1-GL3-7050

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 648.1 | 648.1 | 648.1 | 648.1 |
| 2.5° | 629.6 | 628.0 | 628.0 | 627.6 |
| 5° | 619.4 | 616.9 | 616.5 | 616.5 |
| 7.5° | 617.7 | 614.4 | 614.0 | 612.8 |
| 10° | 625.1 | 623.9 | 624.3 | 623.1 |
| 12.5° | 648.5 | 650.1 | 651.8 | 651.8 |
| 15° | 684.2 | 683.0 | 685.0 | 683.0 |
| 17.5° | 710.5 | 699.8 | 697.3 | 696.1 |
| 20° | 711.3 | 689.1 | 681.7 | 680.5 |
| 22.5° | 685.8 | 653.0 | 640.7 | 638.6 |
| 25° | 642.8 | 601.3 | 585.7 | 584.1 |
| 27.5° | 588.6 | 542.2 | 519.2 | 518.4 |
| 30° | 523.3 | 468.3 | 439.2 | 434.7 |
| 32.5° | 443.7 | 378.4 | 347.6 | 337.8 |
| 35° | 351.7 | 284.8 | 256.1 | 255.3 |
| 37.5° | 262.7 | 210.6 | 192.1 | 191.3 |
| 40° | 192.5 | 165.4 | 158.4 | 157.2 |
| 42.5° | 157.2 | 146.1 | 143.2 | 142.0 |
| 45° | 140.8 | 136.3 | 134.6 | 133.4 |
| 47.5° | 130.9 | 128.1 | 126.8 | 126.8 |
| 50° | 123.1 | 122.3 | 121.5 | 121.5 |
| 52.5° | 117.8 | 117.4 | 116.6 | 116.2 |
| 55° | 113.3 | 111.6 | 112.1 | 111.6 |
| 57.5° | 110.4 | 107.9 | 107.9 | 107.9 |
| 60° | 108.8 | 104.3 | 104.3 | 104.7 |
| 62.5° | 109.2 | 102.2 | 101.8 | 101.8 |
| 65° | 112.5 | 101.0 | 98.5 | 98.9 |
| 67° | 116.6 | 99.7 | 94.8 | 94.4 |
| 67.5° | 117.8 | 98.9 | 93.6 | 93.2 |
| 70° | 122.7 | 96.5 | 87.4 | 86.6 |
| 72.5° | 123.5 | 92.8 | 81.3 | 80.4 |
| 75° | 114.9 | 87.8 | 76.3 | 74.3 |
| 77.5° | 89.5 | 75.5 | 69.0 | 69.0 |
| 80° | 62.8 | 57.9 | 49.3 | 48.8 |
| 82.5° | 46.0 | 43.5 | 36.1 | 35.3 |
| 85° | 33.7 | 31.6 | 26.7 | 26.7 |
| 87.5° | 20.9 | 20.1 | 17.2 | 16.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)