

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: P144416

Luminaire Tested: **VPL-F02-LED-E1-WQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144416  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VPL-F02-LED-E1-WQ-7050  
Description: VALET LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE 5 SQUARE  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5238.5 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

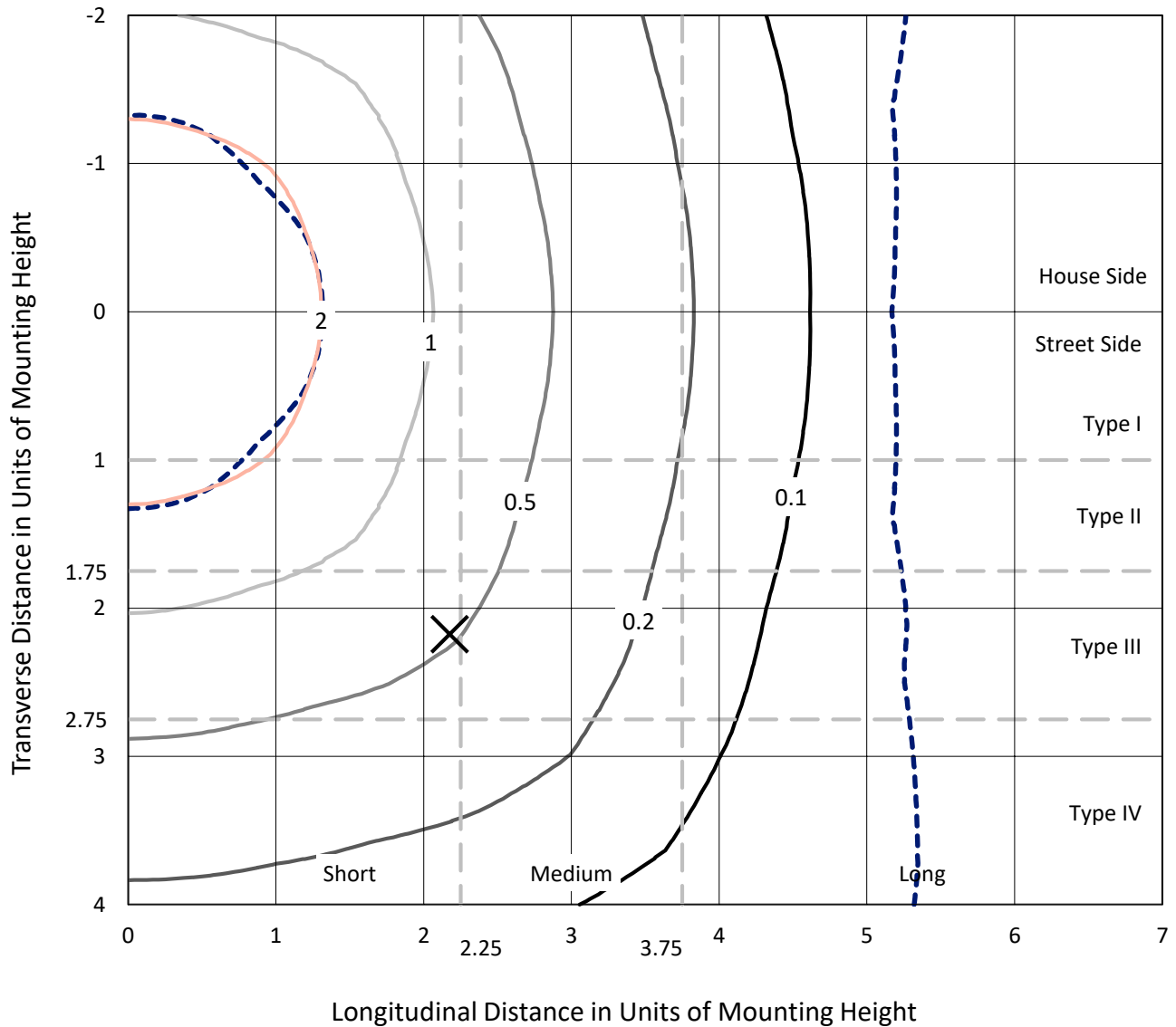
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

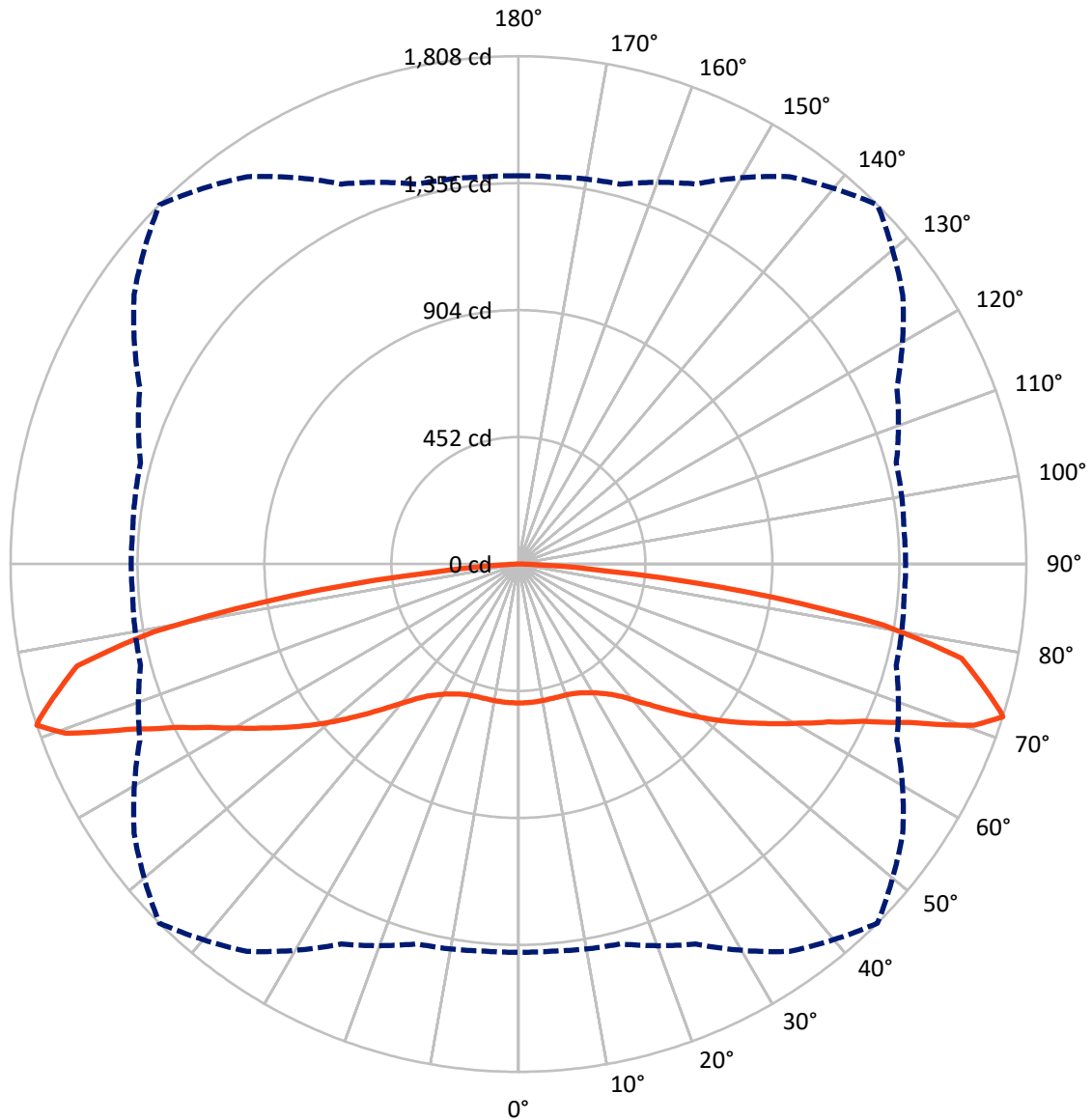
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2619.2   | 0.0    | 2619.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2619.2   | 0.0    | 2619.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5238.5   | 0.0    | 5238.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.2   | 0.9       |
| 10°-20°   | 140.3  | 2.7       |
| 20°-30°   | 235.6  | 4.5       |
| 30°-40°   | 358.6  | 6.8       |
| 40°-50°   | 566.9  | 10.8      |
| 50°-60°   | 865.8  | 16.5      |
| 60°-70°   | 1268.4 | 24.2      |
| 70°-80°   | 1441.0 | 27.5      |
| 80°-90°   | 314.8  | 6.0       |
| 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°    | 5238.5 | 100.0     |
| 0°-180°   | 5238.5 | 100.0     |



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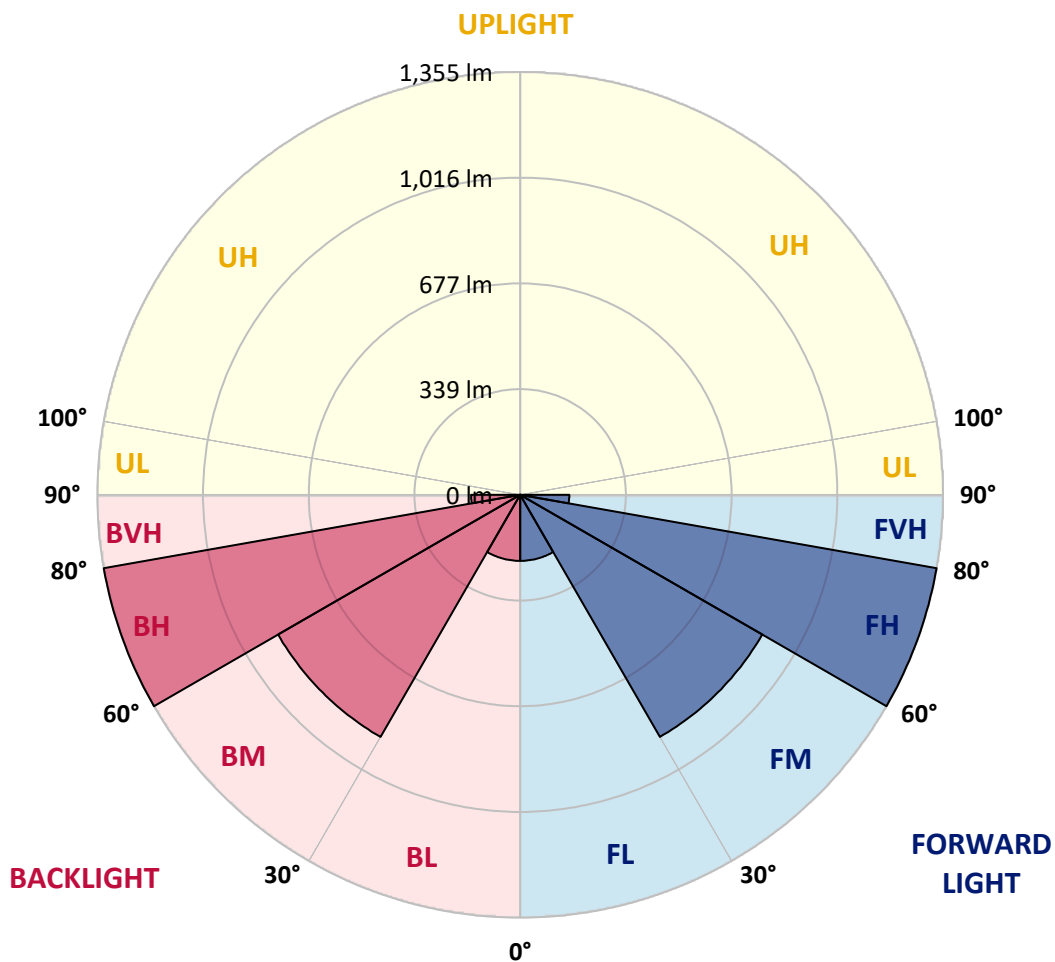
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 211.5  | 4.0       |                         |      |         |
| FM (30°-60°)   | 895.6  | 17.1      |                         |      |         |
| FH (60°-80°)   | 1354.7 | 25.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 157.4  | 3.0       |                         |      | G2/225  |
| BL (0°-30°)    | 211.5  | 4.0       | B1/500                  |      |         |
| BM (30°-60°)   | 895.6  | 17.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 1354.7 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 157.4  | 3.0       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  |
| 2.5°  | 495.8  | 495.6  | 495.2  | 494.8  | 494.7  | 494.5  | 494.5  | 494.5  | 494.4  | 494.4  | 494.4  |
| 5°    | 495.7  | 495.5  | 495.3  | 495.0  | 494.8  | 494.5  | 494.5  | 494.6  | 494.4  | 494.4  | 494.5  |
| 7.5°  | 495.0  | 495.2  | 495.0  | 494.7  | 494.6  | 494.5  | 494.4  | 494.4  | 494.2  | 494.0  | 494.1  |
| 10°   | 495.2  | 495.8  | 495.4  | 494.9  | 494.7  | 494.5  | 494.2  | 493.8  | 493.8  | 493.6  | 493.5  |
| 12.5° | 495.6  | 496.2  | 495.6  | 495.0  | 494.8  | 494.6  | 494.2  | 493.8  | 493.6  | 493.4  | 493.1  |
| 15°   | 496.6  | 497.0  | 496.6  | 496.0  | 495.6  | 495.0  | 494.7  | 494.4  | 493.8  | 493.4  | 493.1  |
| 17.5° | 497.2  | 498.1  | 497.5  | 496.9  | 496.3  | 495.7  | 495.4  | 495.0  | 494.7  | 494.4  | 494.0  |
| 20°   | 498.4  | 499.3  | 498.8  | 498.2  | 497.9  | 497.6  | 497.4  | 497.1  | 496.8  | 496.6  | 496.0  |
| 22.5° | 500.6  | 501.3  | 501.2  | 501.0  | 501.1  | 501.2  | 501.2  | 501.3  | 501.1  | 501.0  | 500.4  |
| 25°   | 505.2  | 505.2  | 505.5  | 505.8  | 506.4  | 506.9  | 507.3  | 507.7  | 508.0  | 508.2  | 507.5  |
| 27.5° | 513.2  | 513.8  | 514.1  | 514.4  | 515.2  | 516.0  | 517.0  | 517.9  | 518.4  | 518.9  | 518.2  |
| 30°   | 523.5  | 523.5  | 524.1  | 524.7  | 526.1  | 527.6  | 528.7  | 529.9  | 530.8  | 531.8  | 531.2  |
| 32.5° | 536.7  | 537.6  | 538.4  | 539.2  | 541.0  | 542.8  | 544.8  | 546.8  | 548.0  | 549.2  | 548.3  |
| 35°   | 556.9  | 557.9  | 558.8  | 559.6  | 561.4  | 563.3  | 565.6  | 567.8  | 568.9  | 569.9  | 569.3  |
| 37.5° | 585.3  | 585.3  | 586.5  | 587.7  | 588.9  | 590.1  | 593.1  | 596.2  | 597.4  | 598.7  | 597.7  |
| 40°   | 623.8  | 624.0  | 624.2  | 624.4  | 625.6  | 626.6  | 630.4  | 634.2  | 636.3  | 638.5  | 636.4  |
| 42.5° | 668.0  | 669.8  | 669.8  | 669.7  | 670.5  | 671.2  | 674.8  | 678.4  | 681.5  | 684.6  | 683.4  |
| 45°   | 720.2  | 719.8  | 719.2  | 718.5  | 720.8  | 723.0  | 728.1  | 733.2  | 736.0  | 738.8  | 736.2  |
| 47.5° | 772.8  | 772.3  | 771.4  | 770.5  | 772.8  | 775.0  | 782.7  | 790.4  | 794.3  | 798.3  | 794.0  |
| 50°   | 825.4  | 827.4  | 826.2  | 825.0  | 828.4  | 831.8  | 841.5  | 851.2  | 857.0  | 862.8  | 857.9  |
| 52.5° | 883.5  | 885.0  | 883.6  | 882.3  | 887.0  | 891.6  | 903.1  | 914.5  | 922.3  | 930.1  | 923.5  |
| 55°   | 943.6  | 941.8  | 942.5  | 943.3  | 947.7  | 952.1  | 966.2  | 980.2  | 989.6  | 998.8  | 991.4  |
| 57.5° | 999.9  | 1000.6 | 999.8  | 999.0  | 1006.0 | 1013.0 | 1030.6 | 1048.3 | 1060.0 | 1071.8 | 1062.4 |
| 60°   | 1057.4 | 1057.6 | 1056.0 | 1054.2 | 1061.8 | 1069.4 | 1094.8 | 1120.2 | 1135.3 | 1150.5 | 1137.7 |
| 62.5° | 1121.8 | 1121.7 | 1118.7 | 1115.8 | 1124.6 | 1133.6 | 1165.0 | 1196.6 | 1217.4 | 1238.2 | 1222.6 |
| 65°   | 1200.8 | 1198.8 | 1197.1 | 1195.4 | 1205.6 | 1215.9 | 1255.1 | 1294.2 | 1322.3 | 1350.4 | 1330.4 |
| 67.5° | 1317.2 | 1315.6 | 1312.1 | 1308.6 | 1320.0 | 1331.4 | 1381.6 | 1431.8 | 1468.1 | 1504.4 | 1477.9 |
| 70°   | 1445.2 | 1442.4 | 1444.8 | 1447.3 | 1473.8 | 1500.2 | 1567.4 | 1634.7 | 1677.7 | 1720.8 | 1676.2 |
| 72°   | 1382.1 | 1383.3 | 1391.5 | 1399.7 | 1446.0 | 1492.4 | 1587.9 | 1683.5 | 1745.8 | 1808.0 | 1739.1 |
| 72.5° | 1360.0 | 1361.0 | 1370.4 | 1379.8 | 1424.0 | 1468.2 | 1566.6 | 1665.2 | 1729.6 | 1794.1 | 1723.3 |
| 75°   | 1266.6 | 1269.2 | 1280.0 | 1290.8 | 1335.6 | 1380.4 | 1479.8 | 1579.1 | 1640.8 | 1702.6 | 1631.7 |
| 77.5° | 1113.9 | 1122.4 | 1133.3 | 1144.2 | 1197.6 | 1251.0 | 1363.3 | 1475.6 | 1543.8 | 1612.0 | 1531.5 |
| 80°   | 850.2  | 847.0  | 865.9  | 884.7  | 935.7  | 986.6  | 1073.6 | 1160.5 | 1239.0 | 1317.5 | 1227.1 |
| 82.5° | 330.4  | 337.6  | 376.6  | 415.6  | 469.0  | 522.4  | 600.3  | 678.2  | 748.9  | 819.6  | 744.3  |
| 85°   | 34.0   | 38.8   | 52.8   | 66.8   | 95.9   | 125.0  | 172.5  | 219.9  | 266.4  | 312.9  | 262.4  |
| 87.5° | 13.7   | 15.0   | 19.4   | 23.7   | 24.8   | 25.9   | 31.3   | 36.8   | 36.5   | 36.2   | 35.8   |
| 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°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  | 494.7  |
| 2.5°  | 494.5  | 494.7  | 494.8  | 494.8  | 494.8  | 495.1  | 495.4  | 495.0  |
| 5°    | 494.7  | 494.8  | 494.8  | 494.8  | 494.8  | 495.1  | 495.4  | 495.0  |
| 7.5°  | 494.2  | 494.2  | 494.2  | 494.4  | 494.7  | 494.8  | 494.8  | 494.7  |
| 10°   | 493.4  | 493.4  | 493.5  | 493.8  | 494.0  | 494.3  | 494.6  | 494.7  |
| 12.5° | 492.8  | 492.9  | 493.0  | 493.2  | 493.5  | 493.8  | 494.0  | 494.4  |
| 15°   | 492.8  | 492.9  | 493.0  | 493.1  | 493.3  | 493.7  | 494.0  | 494.4  |
| 17.5° | 493.6  | 493.4  | 493.2  | 493.3  | 493.5  | 493.9  | 494.4  | 494.7  |
| 20°   | 495.4  | 495.1  | 494.9  | 494.9  | 494.9  | 495.3  | 495.7  | 495.7  |
| 22.5° | 499.8  | 498.9  | 498.0  | 497.9  | 497.8  | 497.8  | 497.9  | 498.1  |
| 25°   | 506.8  | 505.4  | 504.0  | 503.6  | 503.2  | 503.0  | 502.8  | 503.2  |
| 27.5° | 517.4  | 515.9  | 514.3  | 513.4  | 512.5  | 512.0  | 511.5  | 511.6  |
| 30°   | 530.6  | 528.8  | 527.0  | 525.5  | 524.0  | 523.3  | 522.6  | 522.8  |
| 32.5° | 547.4  | 545.3  | 543.2  | 541.1  | 539.0  | 538.1  | 537.2  | 537.4  |
| 35°   | 568.8  | 566.3  | 563.8  | 562.1  | 560.4  | 559.0  | 557.6  | 558.7  |
| 37.5° | 596.6  | 594.4  | 592.1  | 591.0  | 589.9  | 588.6  | 587.4  | 587.5  |
| 40°   | 634.2  | 631.9  | 629.6  | 628.6  | 627.7  | 626.1  | 624.4  | 624.8  |
| 42.5° | 682.1  | 678.5  | 675.0  | 673.2  | 671.6  | 670.8  | 670.0  | 670.5  |
| 45°   | 733.6  | 730.0  | 726.4  | 725.0  | 723.6  | 721.5  | 719.5  | 721.4  |
| 47.5° | 789.8  | 785.3  | 780.8  | 778.3  | 775.8  | 776.4  | 777.1  | 775.6  |
| 50°   | 853.0  | 845.5  | 838.0  | 835.0  | 832.0  | 832.0  | 832.0  | 831.8  |
| 52.5° | 916.8  | 906.4  | 896.0  | 893.5  | 891.0  | 890.4  | 889.8  | 889.1  |
| 55°   | 984.0  | 971.2  | 958.4  | 953.6  | 948.9  | 949.6  | 950.2  | 952.1  |
| 57.5° | 1053.0 | 1036.2 | 1019.4 | 1014.0 | 1008.6 | 1009.0 | 1009.4 | 1012.4 |
| 60°   | 1125.0 | 1103.2 | 1081.4 | 1075.4 | 1069.4 | 1071.0 | 1072.6 | 1074.4 |
| 62.5° | 1207.0 | 1180.7 | 1154.4 | 1146.4 | 1138.3 | 1140.3 | 1142.4 | 1147.3 |
| 65°   | 1310.3 | 1277.4 | 1244.5 | 1236.1 | 1227.8 | 1228.7 | 1229.6 | 1238.1 |
| 67.5° | 1451.4 | 1407.6 | 1363.8 | 1356.1 | 1348.4 | 1349.7 | 1351.1 | 1364.8 |
| 70°   | 1631.6 | 1566.8 | 1501.8 | 1469.9 | 1438.0 | 1433.0 | 1428.0 | 1435.3 |
| 72°   | 1670.2 | 1578.6 | 1487.0 | 1439.8 | 1392.8 | 1385.4 | 1378.0 | 1378.7 |
| 72.5° | 1652.5 | 1559.8 | 1467.2 | 1421.4 | 1375.6 | 1369.6 | 1363.6 | 1362.4 |
| 75°   | 1560.8 | 1470.2 | 1379.6 | 1332.3 | 1285.0 | 1273.6 | 1262.2 | 1262.1 |
| 77.5° | 1451.0 | 1336.8 | 1222.5 | 1171.5 | 1120.5 | 1108.6 | 1096.6 | 1087.3 |
| 80°   | 1136.6 | 1034.2 | 931.8  | 880.0  | 828.3  | 809.2  | 790.0  | 778.6  |
| 82.5° | 669.0  | 574.8  | 480.6  | 414.9  | 349.2  | 329.4  | 309.6  | 282.2  |
| 85°   | 212.0  | 163.1  | 114.2  | 89.1   | 64.0   | 51.7   | 39.4   | 34.6   |
| 87.5° | 35.2   | 28.6   | 22.0   | 21.2   | 20.5   | 16.1   | 11.7   | 9.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)