

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: P177526

Luminaire Tested: **VAL-E02-LED-E-U-GL4-HSS-8030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P177526  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VAL-E02-LED-E-U-GL4-HSS-8030  
Description: VALET TUNNEL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE IV W/ GLARE CONTROL AND HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3331.6 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1  
  
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: 28.75 FT

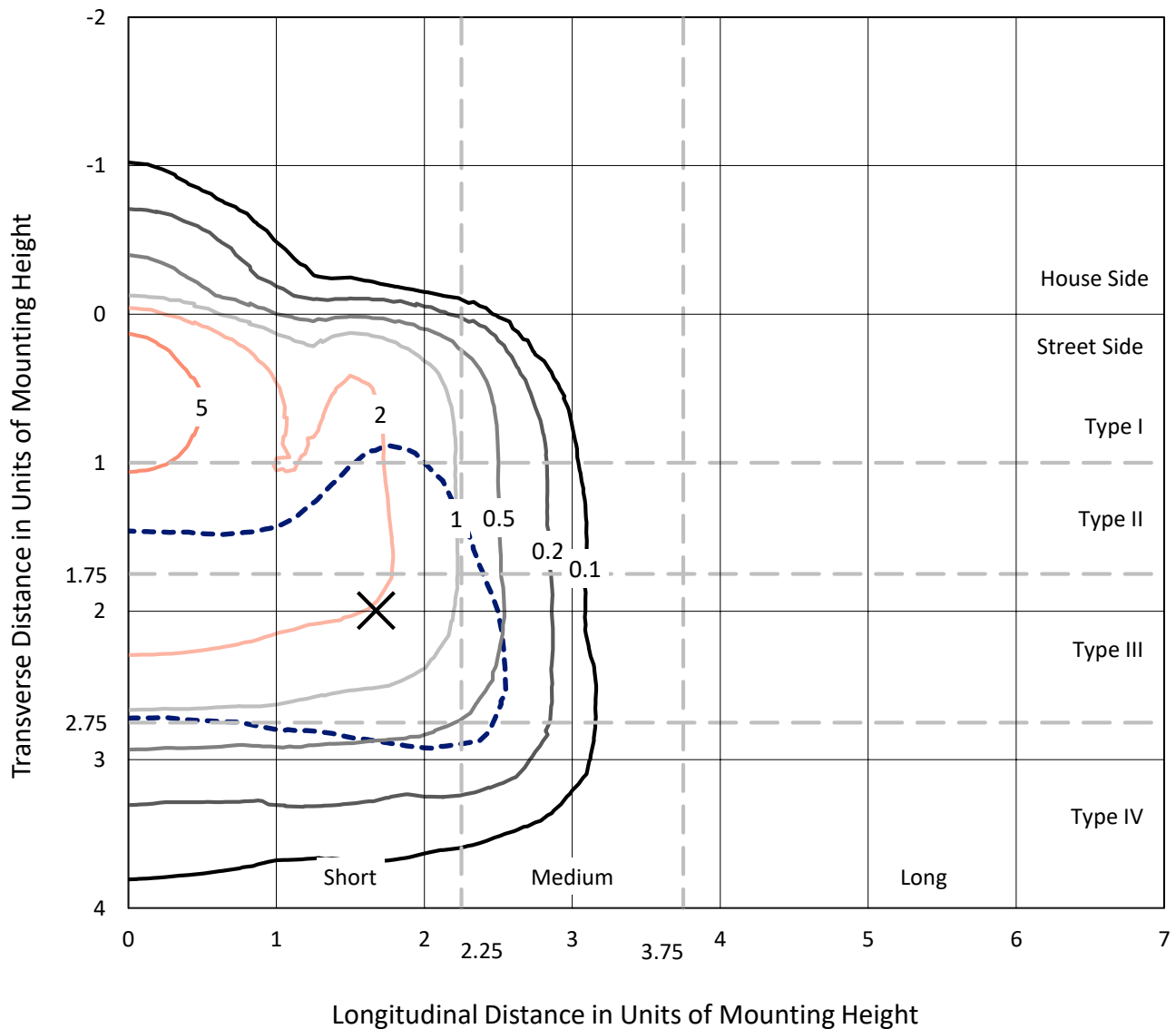


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

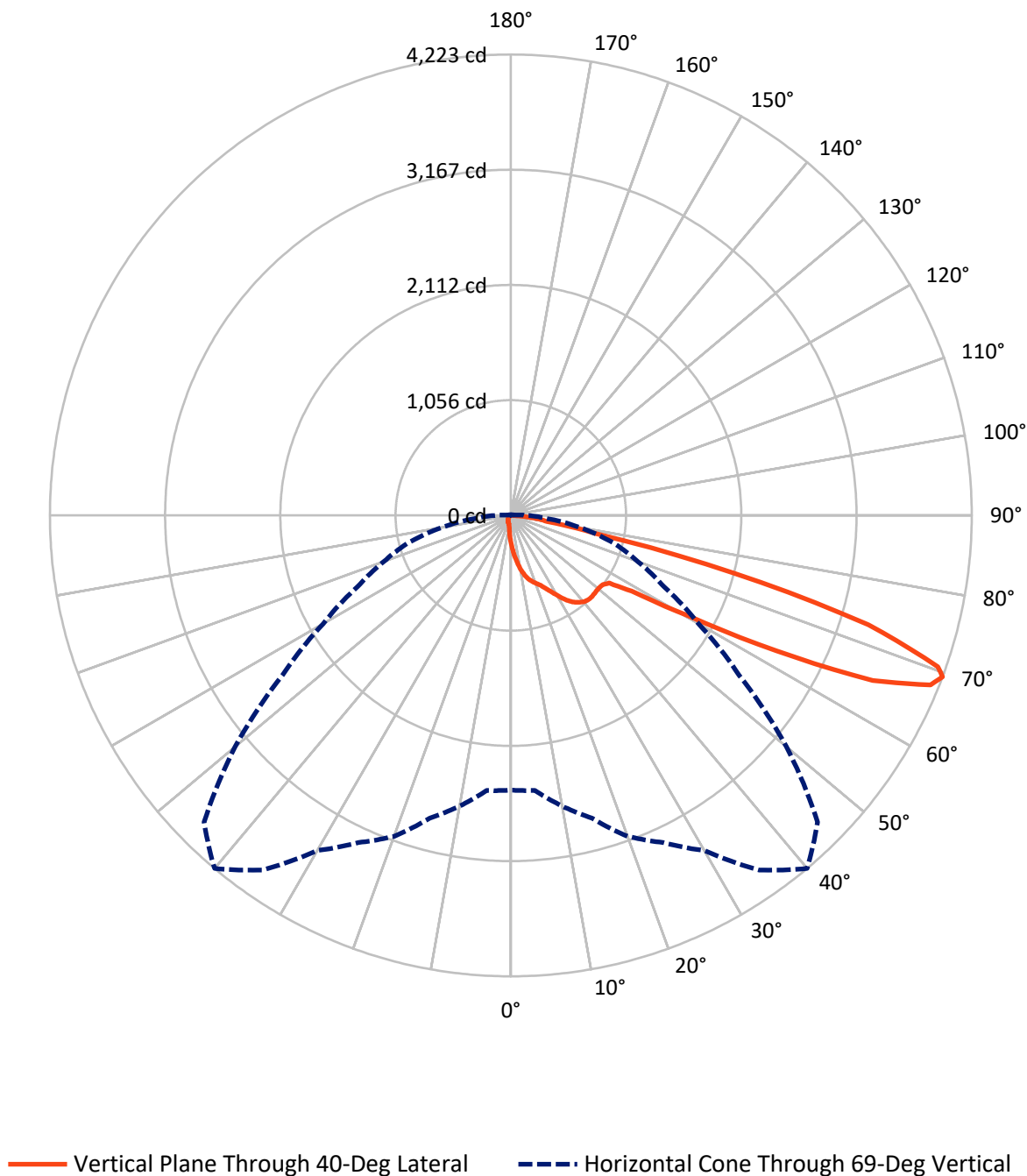


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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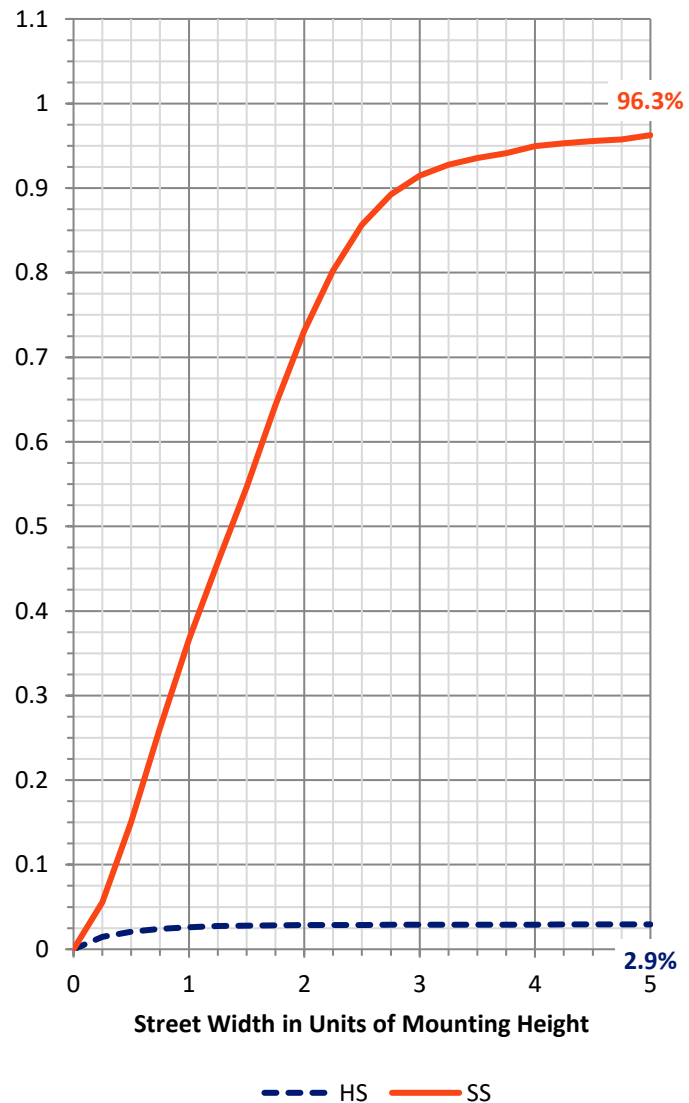
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 99.2     | 0.0    | 99.2   |
|                    | % Fixture | 3.0      | 0.0    | 3.0    |
| <b>Street Side</b> | Lumens    | 3232.4   | 0.0    | 3232.4 |
|                    | % Fixture | 97.0     | 0.0    | 97.0   |
| <b>Total</b>       | Lumens    | 3331.6   | 0.0    | 3331.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.9   | 0.8       |
| 10°-20°   | 89.2   | 2.7       |
| 20°-30°   | 170.7  | 5.1       |
| 30°-40°   | 283.8  | 8.5       |
| 40°-50°   | 384.0  | 11.5      |
| 50°-60°   | 600.6  | 18.0      |
| 60°-70°   | 1234.8 | 37.1      |
| 70°-80°   | 496.8  | 14.9      |
| 80°-90°   | 46.0   | 1.4       |
| 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°    | 3331.6 | 100.0     |
| 0°-180°   | 3331.6 | 100.0     |

**Coefficient of Utilization**



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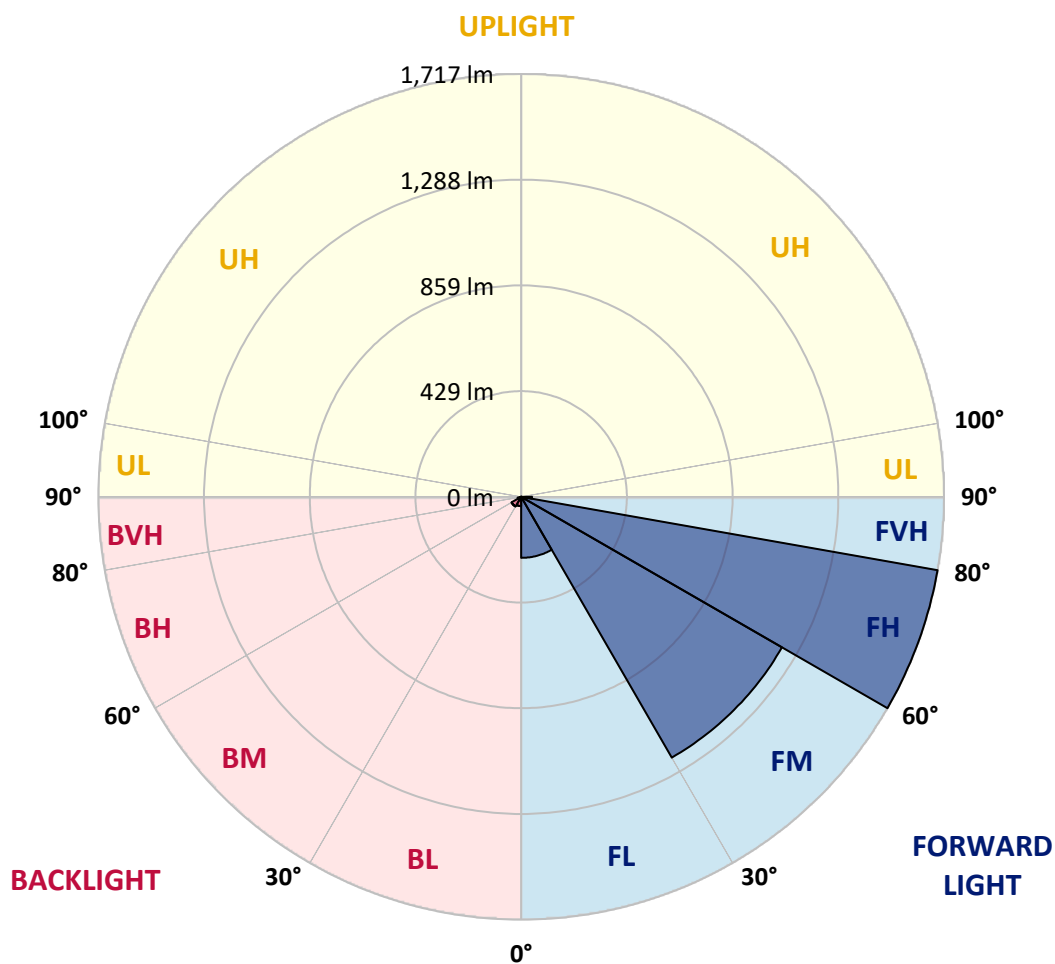
CATALOG NUMBER: VAL-E02-LED-E-U-GL4-HSS-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 247.9  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 1223.1 | 36.7      |                         |      |         |
| FH   | (60°-80°)   | 1717.1 | 51.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 44.2   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 37.7   | 1.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 45.3   | 1.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 14.5   | 0.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.7    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  |
| 2.5°  | 335.6  | 331.8  | 327.5  | 327.5  | 322.0  | 322.0  | 318.7  | 310.0  | 308.9  | 304.0  | 299.1  |
| 5°    | 428.4  | 425.2  | 419.7  | 414.8  | 410.4  | 402.8  | 397.3  | 387.0  | 375.5  | 364.6  | 354.7  |
| 7.5°  | 519.0  | 517.4  | 507.6  | 505.9  | 498.8  | 486.3  | 475.4  | 460.1  | 440.4  | 425.2  | 407.1  |
| 10°   | 603.1  | 599.3  | 597.1  | 587.8  | 577.4  | 563.8  | 546.9  | 528.3  | 505.4  | 481.4  | 455.7  |
| 12.5° | 669.7  | 667.5  | 657.7  | 653.8  | 642.9  | 629.3  | 608.0  | 584.0  | 561.1  | 530.0  | 499.9  |
| 15°   | 719.3  | 715.5  | 709.0  | 702.9  | 689.8  | 677.9  | 658.2  | 632.0  | 604.2  | 570.3  | 534.3  |
| 17.5° | 760.8  | 753.7  | 752.1  | 742.8  | 729.1  | 715.0  | 693.1  | 669.1  | 636.4  | 602.5  | 563.2  |
| 20°   | 816.5  | 806.7  | 803.4  | 789.7  | 773.9  | 754.3  | 729.1  | 699.1  | 664.8  | 627.6  | 587.2  |
| 22.5° | 882.0  | 874.9  | 867.8  | 855.8  | 835.6  | 807.7  | 771.2  | 738.4  | 694.8  | 653.8  | 610.2  |
| 25°   | 974.7  | 968.8  | 957.3  | 940.9  | 915.8  | 882.5  | 838.3  | 790.3  | 739.0  | 686.6  | 635.3  |
| 27.5° | 1064.8 | 1059.3 | 1051.2 | 1038.6 | 1010.2 | 973.7  | 919.1  | 858.0  | 793.0  | 729.7  | 672.9  |
| 30°   | 1149.4 | 1144.5 | 1136.3 | 1123.8 | 1098.6 | 1062.6 | 1000.9 | 935.4  | 854.7  | 781.0  | 712.8  |
| 32.5° | 1240.5 | 1238.9 | 1229.6 | 1211.6 | 1189.8 | 1141.2 | 1074.1 | 1003.7 | 921.8  | 836.7  | 757.0  |
| 35°   | 1343.7 | 1331.1 | 1322.4 | 1304.4 | 1267.3 | 1215.4 | 1136.9 | 1059.9 | 973.7  | 886.3  | 797.4  |
| 37.5° | 1431.0 | 1419.0 | 1408.1 | 1385.2 | 1339.9 | 1273.9 | 1184.9 | 1100.3 | 1011.3 | 922.3  | 831.8  |
| 40°   | 1494.9 | 1488.9 | 1475.8 | 1445.8 | 1395.0 | 1316.4 | 1220.3 | 1128.1 | 1038.6 | 949.1  | 859.6  |
| 42.5° | 1542.4 | 1533.1 | 1518.3 | 1487.2 | 1427.2 | 1337.7 | 1234.6 | 1139.6 | 1051.2 | 965.5  | 877.6  |
| 45°   | 1559.8 | 1552.2 | 1538.5 | 1504.7 | 1439.7 | 1343.7 | 1234.0 | 1136.3 | 1051.7 | 970.4  | 889.6  |
| 47.5° | 1549.5 | 1541.8 | 1529.8 | 1498.2 | 1434.3 | 1336.6 | 1224.2 | 1127.0 | 1046.2 | 972.0  | 900.5  |
| 50°   | 1515.1 | 1510.7 | 1501.4 | 1474.7 | 1417.4 | 1323.0 | 1215.4 | 1122.1 | 1045.2 | 980.2  | 915.8  |
| 52.5° | 1511.8 | 1509.1 | 1497.6 | 1470.9 | 1412.5 | 1318.6 | 1214.3 | 1124.8 | 1054.4 | 990.6  | 926.7  |
| 55°   | 1847.5 | 1808.7 | 1721.9 | 1648.2 | 1527.1 | 1383.0 | 1269.5 | 1169.1 | 1093.7 | 1031.5 | 986.8  |
| 57.5° | 2625.7 | 2567.9 | 2453.8 | 2313.5 | 2035.2 | 1761.7 | 1542.9 | 1384.6 | 1306.6 | 1278.2 | 1295.1 |
| 60°   | 2990.3 | 2979.9 | 2961.9 | 2895.3 | 2752.9 | 2517.7 | 2255.7 | 1972.4 | 1858.9 | 1849.1 | 1883.5 |
| 62.5° | 3163.3 | 3156.8 | 3162.2 | 3154.0 | 3109.8 | 3041.1 | 2965.8 | 2843.5 | 2731.1 | 2658.5 | 2504.6 |
| 65°   | 3243.0 | 3247.4 | 3278.5 | 3303.0 | 3308.5 | 3326.5 | 3381.6 | 3533.9 | 3645.2 | 3458.0 | 3030.7 |
| 67.5° | 3040.5 | 3066.2 | 3137.7 | 3227.2 | 3331.9 | 3433.5 | 3597.2 | 3918.1 | 4146.8 | 3926.9 | 3320.0 |
| 69°   | 2517.1 | 2529.7 | 2704.3 | 2872.9 | 3128.9 | 3307.9 | 3545.4 | 3966.1 | 4223.2 | 3974.9 | 3297.0 |
| 70°   | 1981.7 | 1993.2 | 2180.4 | 2409.6 | 2842.4 | 3072.7 | 3383.3 | 3884.8 | 4151.7 | 3911.0 | 3179.1 |
| 72.5° | 894.0  | 877.6  | 943.6  | 1066.4 | 1536.9 | 1902.6 | 2445.6 | 3147.5 | 3425.3 | 3133.3 | 2378.5 |
| 75°   | 624.4  | 617.3  | 624.4  | 624.9  | 698.0  | 900.5  | 1136.3 | 1706.1 | 2110.0 | 1820.7 | 1136.3 |
| 77.5° | 483.6  | 478.6  | 473.7  | 468.3  | 477.0  | 534.3  | 557.2  | 605.3  | 785.9  | 743.4  | 433.3  |
| 80°   | 382.6  | 378.2  | 390.2  | 386.4  | 386.4  | 393.0  | 388.6  | 370.6  | 336.8  | 312.2  | 279.4  |
| 82.5° | 177.9  | 179.0  | 179.0  | 194.3  | 234.1  | 273.4  | 286.0  | 268.0  | 238.0  | 202.5  | 163.2  |
| 85°   | 16.9   | 19.1   | 32.2   | 49.7   | 98.8   | 111.3  | 111.9  | 92.8   | 92.8   | 73.1   | 58.9   |
| 87.5° | 0.0    | 0.5    | 0.5    | 0.5    | 4.9    | 13.6   | 11.4   | 3.3    | 1.6    | 1.6    | 2.7    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6  | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 |
| 2.5°  | 290.4  | 288.7  | 282.2  | 275.6  | 269.6  | 263.1  | 257.0 | 251.1 | 244.5 | 239.6 | 233.6 |
| 5°    | 339.5  | 327.5  | 313.8  | 300.7  | 287.6  | 274.0  | 259.8 | 247.2 | 234.1 | 222.1 | 210.7 |
| 7.5°  | 389.1  | 365.7  | 347.1  | 323.7  | 302.4  | 281.1  | 261.4 | 241.2 | 222.7 | 205.2 | 188.9 |
| 10°   | 431.2  | 402.8  | 373.9  | 343.8  | 313.3  | 284.9  | 257.6 | 233.6 | 209.0 | 187.7 | 167.5 |
| 12.5° | 465.5  | 429.5  | 394.0  | 356.4  | 322.0  | 286.0  | 252.2 | 223.2 | 194.3 | 170.3 | 149.6 |
| 15°   | 496.7  | 455.2  | 412.6  | 369.0  | 325.3  | 284.4  | 246.7 | 210.7 | 181.2 | 153.9 | 130.4 |
| 17.5° | 521.8  | 474.3  | 426.2  | 377.1  | 330.2  | 282.2  | 239.6 | 202.0 | 167.5 | 139.2 | 116.2 |
| 20°   | 543.6  | 493.9  | 442.1  | 387.0  | 333.5  | 281.6  | 233.6 | 191.0 | 155.5 | 125.5 | 103.1 |
| 22.5° | 563.8  | 514.1  | 458.5  | 399.5  | 338.4  | 281.1  | 228.1 | 182.8 | 145.2 | 115.2 | 92.8  |
| 25°   | 586.7  | 534.3  | 475.9  | 412.6  | 347.1  | 283.2  | 224.9 | 176.3 | 135.9 | 105.3 | 84.6  |
| 27.5° | 612.4  | 557.2  | 496.7  | 429.0  | 358.6  | 287.6  | 223.8 | 169.2 | 127.7 | 96.0  | 78.1  |
| 30°   | 648.4  | 584.5  | 517.4  | 445.4  | 369.0  | 292.5  | 222.7 | 164.8 | 119.5 | 89.0  | 71.5  |
| 32.5° | 680.0  | 611.3  | 540.3  | 462.3  | 380.4  | 297.5  | 222.1 | 158.8 | 111.9 | 81.9  | 66.6  |
| 35°   | 713.3  | 635.8  | 560.0  | 478.6  | 390.2  | 302.9  | 221.6 | 154.5 | 104.8 | 74.8  | 61.7  |
| 37.5° | 742.2  | 656.6  | 575.2  | 492.8  | 401.1  | 307.8  | 222.1 | 150.6 | 98.2  | 68.8  | 57.3  |
| 40°   | 766.8  | 677.9  | 592.2  | 505.9  | 412.6  | 315.5  | 222.7 | 146.8 | 91.7  | 63.3  | 53.5  |
| 42.5° | 788.7  | 698.0  | 610.2  | 520.7  | 425.7  | 324.2  | 226.0 | 143.5 | 86.2  | 58.4  | 49.7  |
| 45°   | 805.6  | 716.6  | 629.8  | 541.4  | 447.0  | 338.4  | 232.0 | 141.4 | 80.8  | 54.0  | 46.4  |
| 47.5° | 823.0  | 743.9  | 663.1  | 574.2  | 478.1  | 360.8  | 242.3 | 140.8 | 76.4  | 50.7  | 43.7  |
| 50°   | 847.0  | 771.2  | 692.6  | 607.4  | 506.5  | 383.7  | 254.9 | 141.4 | 71.0  | 47.5  | 40.9  |
| 52.5° | 864.5  | 799.0  | 730.8  | 665.3  | 574.2  | 453.5  | 303.5 | 151.2 | 68.2  | 44.8  | 37.6  |
| 55°   | 967.7  | 956.2  | 957.8  | 968.8  | 898.3  | 771.7  | 507.6 | 218.3 | 80.2  | 50.7  | 37.1  |
| 57.5° | 1364.4 | 1404.8 | 1428.3 | 1427.8 | 1311.5 | 1087.7 | 681.7 | 280.5 | 89.5  | 58.9  | 44.2  |
| 60°   | 1886.2 | 1855.6 | 1812.5 | 1706.1 | 1551.6 | 1241.6 | 762.5 | 301.8 | 77.5  | 46.9  | 40.4  |
| 62.5° | 2347.4 | 2168.4 | 2009.5 | 1837.1 | 1634.6 | 1295.1 | 778.8 | 300.2 | 67.7  | 35.5  | 28.4  |
| 65°   | 2635.0 | 2313.0 | 2056.5 | 1840.3 | 1601.9 | 1250.4 | 736.8 | 275.6 | 57.3  | 28.9  | 23.5  |
| 67.5° | 2703.8 | 2235.0 | 1872.0 | 1596.4 | 1338.2 | 973.1  | 540.9 | 207.4 | 44.8  | 24.0  | 20.7  |
| 69°   | 2553.7 | 1986.6 | 1551.1 | 1238.4 | 973.7  | 645.7  | 334.6 | 131.0 | 34.4  | 21.8  | 19.1  |
| 70°   | 2349.0 | 1727.9 | 1263.5 | 993.8  | 721.0  | 453.5  | 234.1 | 92.2  | 27.8  | 20.2  | 17.5  |
| 72.5° | 1511.3 | 907.6  | 621.1  | 432.3  | 297.5  | 180.6  | 91.7  | 41.5  | 21.3  | 16.9  | 14.2  |
| 75°   | 586.2  | 335.6  | 243.4  | 185.0  | 144.6  | 100.4  | 55.7  | 26.7  | 18.0  | 14.2  | 10.9  |
| 77.5° | 288.7  | 221.0  | 180.6  | 123.9  | 72.0   | 44.8   | 30.0  | 20.7  | 14.7  | 10.4  | 7.1   |
| 80°   | 228.1  | 151.7  | 90.6   | 56.2   | 42.6   | 32.2   | 22.9  | 16.9  | 10.9  | 6.5   | 4.9   |
| 82.5° | 116.8  | 63.8   | 46.9   | 38.2   | 31.7   | 25.1   | 18.6  | 12.0  | 7.1   | 4.4   | 3.8   |
| 85°   | 36.6   | 26.7   | 24.0   | 23.5   | 21.8   | 18.0   | 13.1  | 7.6   | 4.4   | 2.7   | 2.7   |
| 87.5° | 2.7    | 3.8    | 4.9    | 3.8    | 4.4    | 3.8    | 4.9   | 3.3   | 2.2   | 2.2   | 1.6   |
| 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°    | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 | 251.6 |
| 2.5°  | 229.2 | 222.7 | 216.7 | 212.9 | 205.8 | 203.0 | 200.3 | 199.2 | 194.3 | 195.4 | 191.0 |
| 5°    | 200.3 | 188.9 | 180.1 | 171.4 | 163.2 | 157.2 | 152.3 | 146.3 | 141.4 | 139.2 | 134.8 |
| 7.5°  | 174.1 | 159.4 | 147.9 | 138.6 | 128.8 | 121.2 | 114.6 | 110.3 | 105.9 | 101.5 | 99.3  |
| 10°   | 151.2 | 135.3 | 122.2 | 113.0 | 103.7 | 97.2  | 92.2  | 89.0  | 86.2  | 84.6  | 84.1  |
| 12.5° | 129.9 | 114.6 | 102.6 | 94.4  | 87.3  | 84.1  | 81.9  | 80.2  | 79.7  | 79.1  | 79.1  |
| 15°   | 113.5 | 98.2  | 89.0  | 82.9  | 79.7  | 78.1  | 77.5  | 76.4  | 75.3  | 74.8  | 74.8  |
| 17.5° | 98.2  | 86.8  | 80.2  | 76.9  | 75.3  | 74.2  | 73.1  | 72.0  | 71.0  | 70.4  | 70.4  |
| 20°   | 87.9  | 78.6  | 75.3  | 73.1  | 71.5  | 70.4  | 68.8  | 67.7  | 67.1  | 66.6  | 66.0  |
| 22.5° | 79.7  | 73.7  | 71.5  | 69.8  | 67.7  | 66.0  | 65.0  | 63.8  | 62.8  | 62.2  | 61.7  |
| 25°   | 73.7  | 69.8  | 68.2  | 66.0  | 63.8  | 62.2  | 60.6  | 58.9  | 57.9  | 57.3  | 56.2  |
| 27.5° | 69.3  | 66.6  | 64.4  | 61.7  | 59.5  | 57.9  | 56.2  | 54.6  | 53.5  | 52.4  | 51.9  |
| 30°   | 65.5  | 62.8  | 60.0  | 57.9  | 55.1  | 53.5  | 51.3  | 49.7  | 49.1  | 48.0  | 46.9  |
| 32.5° | 61.7  | 58.9  | 56.2  | 53.5  | 50.7  | 48.6  | 47.5  | 45.3  | 44.2  | 43.7  | 42.6  |
| 35°   | 57.3  | 54.6  | 51.3  | 49.1  | 46.4  | 44.2  | 42.6  | 40.9  | 39.8  | 38.8  | 38.2  |
| 37.5° | 53.5  | 50.2  | 46.9  | 44.2  | 42.0  | 39.8  | 38.2  | 36.6  | 35.5  | 34.4  | 33.8  |
| 40°   | 49.1  | 45.8  | 42.6  | 39.8  | 37.6  | 36.0  | 34.4  | 32.7  | 31.7  | 31.1  | 31.1  |
| 42.5° | 45.3  | 41.5  | 38.2  | 36.0  | 34.4  | 32.2  | 30.6  | 28.9  | 28.4  | 27.8  | 28.4  |
| 45°   | 41.5  | 37.6  | 34.9  | 32.7  | 31.1  | 28.9  | 27.3  | 26.2  | 25.7  | 26.2  | 26.7  |
| 47.5° | 38.2  | 34.4  | 31.7  | 30.0  | 28.4  | 26.7  | 25.1  | 24.0  | 24.0  | 25.1  | 26.2  |
| 50°   | 34.9  | 31.1  | 28.9  | 27.8  | 26.2  | 24.5  | 22.4  | 21.8  | 22.4  | 23.5  | 24.5  |
| 52.5° | 31.7  | 27.3  | 25.7  | 25.1  | 23.5  | 21.8  | 20.2  | 19.6  | 20.2  | 21.3  | 20.7  |
| 55°   | 28.4  | 24.0  | 23.5  | 22.9  | 21.3  | 19.1  | 17.5  | 17.5  | 17.5  | 16.9  | 15.8  |
| 57.5° | 27.3  | 21.3  | 20.7  | 20.2  | 18.6  | 16.4  | 15.3  | 14.2  | 13.6  | 12.0  | 11.4  |
| 60°   | 28.4  | 19.1  | 19.1  | 18.0  | 16.4  | 14.2  | 12.6  | 10.9  | 9.8   | 8.7   | 8.7   |
| 62.5° | 22.9  | 17.5  | 16.9  | 15.8  | 13.6  | 11.4  | 9.8   | 8.2   | 7.6   | 7.1   | 7.1   |
| 65°   | 18.6  | 15.8  | 14.7  | 13.1  | 11.4  | 9.3   | 7.6   | 6.5   | 6.0   | 6.0   | 6.5   |
| 67.5° | 16.9  | 14.2  | 12.6  | 10.9  | 9.3   | 7.1   | 6.0   | 5.5   | 5.5   | 6.0   | 6.0   |
| 69°   | 15.8  | 13.1  | 11.4  | 9.8   | 8.2   | 6.5   | 5.5   | 5.5   | 5.5   | 5.5   | 6.0   |
| 70°   | 14.7  | 12.6  | 10.9  | 9.3   | 7.1   | 5.5   | 4.9   | 4.9   | 5.5   | 5.5   | 6.0   |
| 72.5° | 11.4  | 9.8   | 9.3   | 7.6   | 5.5   | 4.9   | 4.4   | 4.9   | 4.9   | 5.5   | 5.5   |
| 75°   | 8.7   | 7.1   | 7.1   | 6.0   | 4.4   | 3.8   | 3.8   | 4.4   | 4.4   | 4.9   | 4.9   |
| 77.5° | 6.0   | 4.9   | 4.9   | 4.4   | 3.8   | 3.3   | 3.3   | 3.8   | 4.4   | 4.4   | 4.9   |
| 80°   | 4.4   | 3.8   | 3.3   | 3.8   | 3.3   | 2.7   | 3.3   | 3.8   | 3.8   | 4.4   | 4.4   |
| 82.5° | 3.3   | 3.3   | 3.3   | 3.3   | 2.7   | 2.7   | 3.3   | 3.3   | 3.8   | 4.4   | 4.4   |
| 85°   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.3   | 3.3   | 3.8   | 3.8   |
| 87.5° | 1.6   | 1.6   | 1.6   | 2.2   | 2.2   | 2.7   | 2.7   | 2.7   | 2.7   | 3.3   | 3.3   |
| 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: P177526

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**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 251.6 | 251.6 | 251.6 | 251.6 |
| 2.5°  | 189.9 | 189.4 | 187.2 | 187.7 |
| 5°    | 133.2 | 129.9 | 132.1 | 131.5 |
| 7.5°  | 97.7  | 97.2  | 96.6  | 97.7  |
| 10°   | 83.5  | 83.5  | 82.9  | 83.5  |
| 12.5° | 78.6  | 78.6  | 78.6  | 78.6  |
| 15°   | 74.8  | 74.8  | 74.2  | 74.2  |
| 17.5° | 70.4  | 70.4  | 70.4  | 69.8  |
| 20°   | 66.0  | 65.5  | 65.5  | 65.5  |
| 22.5° | 61.1  | 60.6  | 60.6  | 60.6  |
| 25°   | 56.2  | 55.7  | 55.7  | 55.7  |
| 27.5° | 51.3  | 50.7  | 50.2  | 50.2  |
| 30°   | 46.4  | 45.8  | 45.3  | 45.3  |
| 32.5° | 41.5  | 40.9  | 40.4  | 40.4  |
| 35°   | 37.1  | 37.1  | 36.6  | 36.0  |
| 37.5° | 33.3  | 33.3  | 33.3  | 33.3  |
| 40°   | 30.6  | 31.1  | 31.1  | 31.1  |
| 42.5° | 28.9  | 29.5  | 30.0  | 30.6  |
| 45°   | 27.8  | 28.9  | 29.5  | 29.5  |
| 47.5° | 27.3  | 27.8  | 28.4  | 28.4  |
| 50°   | 25.1  | 24.5  | 24.5  | 24.5  |
| 52.5° | 20.2  | 19.1  | 18.6  | 18.0  |
| 55°   | 14.7  | 14.2  | 13.1  | 13.1  |
| 57.5° | 10.4  | 10.4  | 9.8   | 9.8   |
| 60°   | 8.2   | 8.2   | 7.6   | 8.2   |
| 62.5° | 7.1   | 7.1   | 7.1   | 7.1   |
| 65°   | 6.5   | 6.5   | 6.5   | 6.5   |
| 67.5° | 6.5   | 6.5   | 6.5   | 6.5   |
| 69°   | 6.0   | 6.0   | 6.0   | 6.0   |
| 70°   | 6.0   | 6.0   | 6.0   | 6.0   |
| 72.5° | 5.5   | 5.5   | 5.5   | 5.5   |
| 75°   | 4.9   | 5.5   | 5.5   | 5.5   |
| 77.5° | 4.9   | 4.9   | 4.9   | 4.9   |
| 80°   | 4.4   | 4.4   | 4.9   | 4.9   |
| 82.5° | 4.4   | 4.4   | 4.4   | 4.4   |
| 85°   | 3.8   | 3.8   | 4.4   | 4.4   |
| 87.5° | 3.3   | 3.3   | 3.8   | 3.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)