

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: P165049

Luminaire Tested: **VST-E05-LED-E-U-SL2-HSS-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165049  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E05-LED-E-U-SL2-HSS-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (105) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9294.8 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 127.3  
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



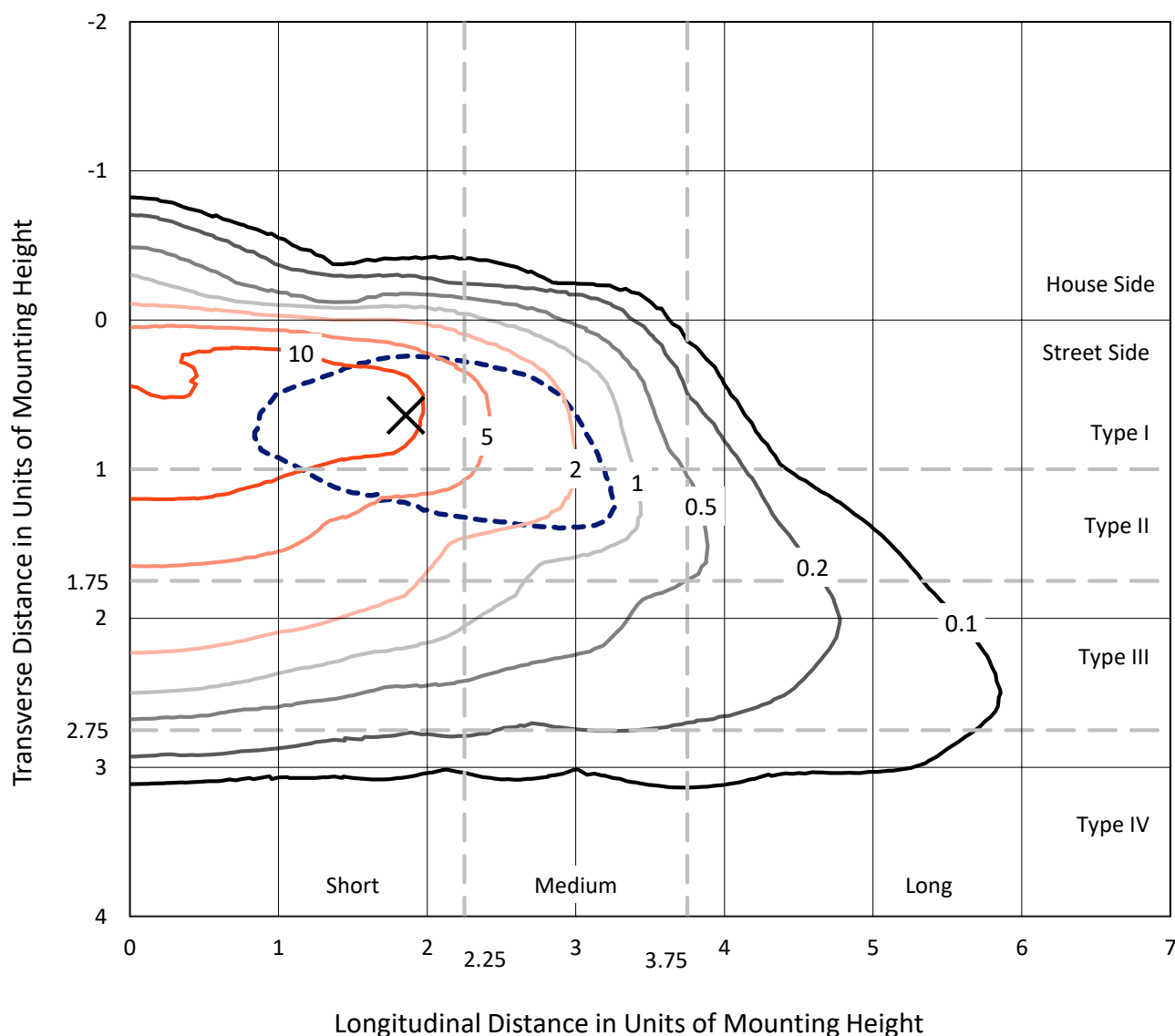
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

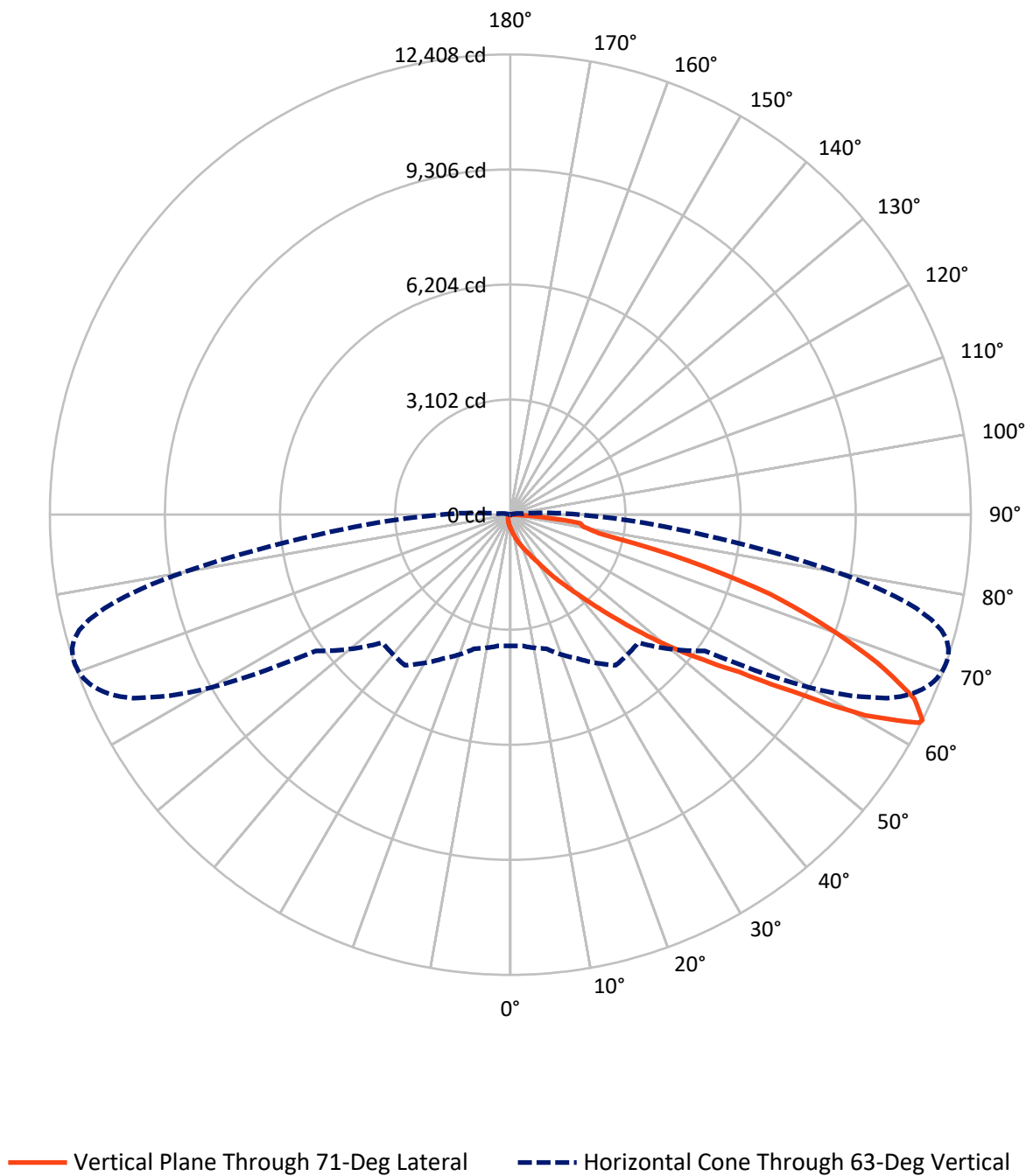


Based on 10 foot mounting height. Maximum calculated value = 19.6 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 197.3    | 0.0    | 197.3  |
|                    | % Fixture | 2.1      | 0.0    | 2.1    |
| <b>Street Side</b> | Lumens    | 9097.4   | 0.0    | 9097.4 |
|                    | % Fixture | 97.9     | 0.0    | 97.9   |
| <b>Total</b>       | Lumens    | 9294.8   | 0.0    | 9294.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.4   | 0.4       |
| 10°-20°   | 152.8  | 1.6       |
| 20°-30°   | 310.4  | 3.3       |
| 30°-40°   | 758.4  | 8.2       |
| 40°-50°   | 1696.1 | 18.2      |
| 50°-60°   | 2384.9 | 25.7      |
| 60°-70°   | 2804.5 | 30.2      |
| 70°-80°   | 1012.7 | 10.9      |
| 80°-90°   | 135.4  | 1.5       |
| 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°    | 9294.8 | 100.0     |
| 0°-180°   | 9294.8 | 100.0     |

**Coefficient of Utilization**



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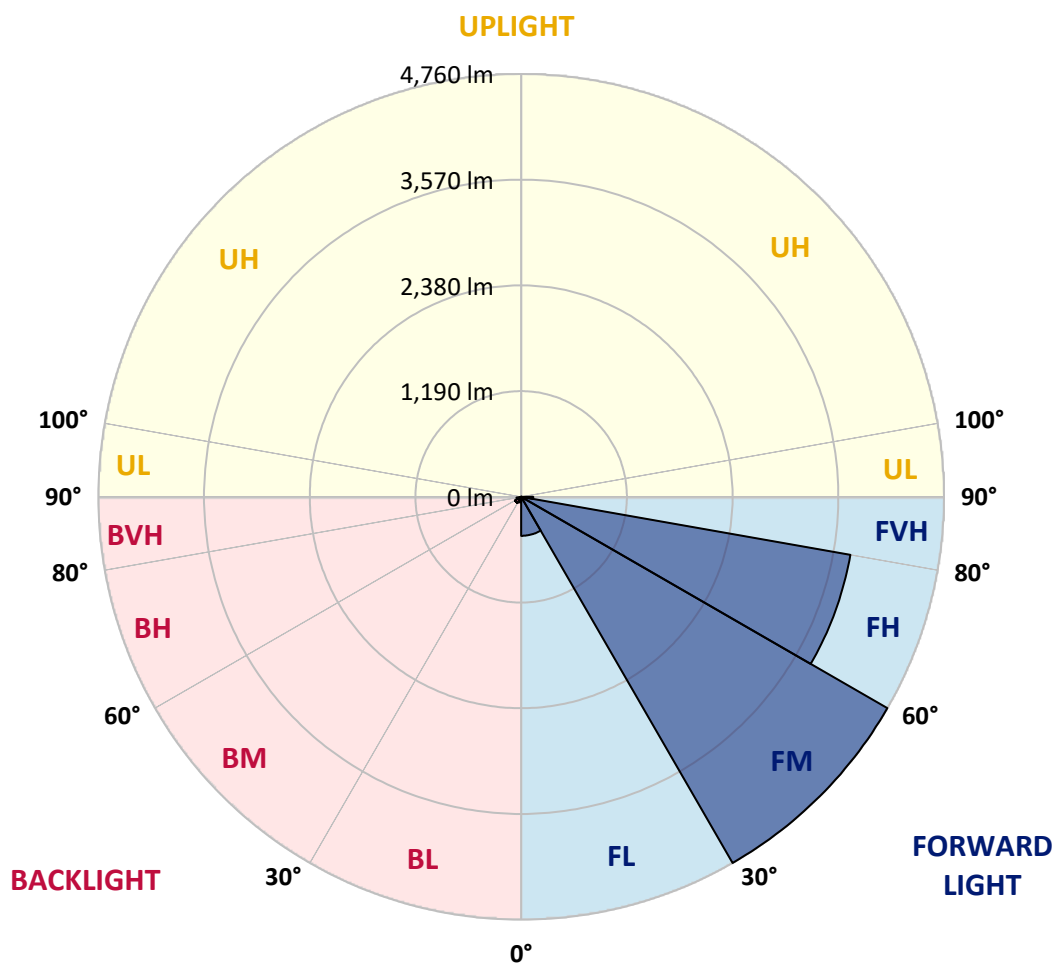
CATALOG NUMBER: VST-E05-LED-E-U-SL2-HSS-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 439.2  | 4.7       |                         |      |         |
| FM   | (30°-60°)   | 4760.0 | 51.2      |                         |      |         |
| FH   | (60°-80°)   | 3763.1 | 40.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 135.1  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 63.4   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 79.5   | 0.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 54.1   | 0.6       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  |
| 2.5°  | 466.4  | 471.4  | 468.0  | 459.6  | 449.4  | 436.0  | 424.1  | 424.1  | 422.4  | 417.3  | 419.1  |
| 5°    | 611.7  | 613.4  | 606.6  | 586.3  | 567.7  | 539.0  | 506.9  | 503.5  | 500.1  | 495.1  | 493.5  |
| 7.5°  | 753.7  | 760.3  | 753.7  | 731.6  | 694.5  | 650.6  | 599.9  | 594.8  | 584.7  | 584.7  | 577.9  |
| 10°   | 899.0  | 899.0  | 892.2  | 866.9  | 833.0  | 770.5  | 706.3  | 697.9  | 686.1  | 682.7  | 672.5  |
| 12.5° | 1002.0 | 1002.0 | 998.6  | 985.2  | 958.1  | 902.4  | 824.6  | 816.2  | 801.0  | 795.8  | 784.0  |
| 15°   | 1042.5 | 1042.5 | 1044.3 | 1056.1 | 1057.8 | 1032.5 | 951.3  | 944.5  | 929.3  | 915.8  | 910.8  |
| 17.5° | 1067.9 | 1066.2 | 1066.2 | 1083.2 | 1113.5 | 1130.5 | 1078.0 | 1071.3 | 1054.4 | 1047.7 | 1030.7 |
| 20°   | 1123.7 | 1120.3 | 1110.1 | 1110.1 | 1138.9 | 1198.0 | 1198.0 | 1196.3 | 1177.8 | 1172.6 | 1164.2 |
| 22.5° | 1206.5 | 1203.1 | 1172.6 | 1147.3 | 1160.8 | 1235.2 | 1304.5 | 1301.1 | 1294.3 | 1287.6 | 1282.5 |
| 25°   | 1341.6 | 1329.8 | 1277.4 | 1203.1 | 1191.3 | 1270.7 | 1385.6 | 1394.1 | 1399.1 | 1399.1 | 1402.5 |
| 27.5° | 1546.1 | 1530.9 | 1438.0 | 1299.5 | 1247.0 | 1328.1 | 1475.1 | 1492.1 | 1507.2 | 1510.6 | 1525.8 |
| 30°   | 1830.0 | 1803.0 | 1669.5 | 1466.7 | 1346.8 | 1412.6 | 1607.0 | 1625.6 | 1647.5 | 1654.3 | 1677.9 |
| 32.5° | 2296.3 | 2281.1 | 2152.8 | 1848.5 | 1591.7 | 1578.3 | 1791.2 | 1814.8 | 1843.5 | 1855.3 | 1884.0 |
| 35°   | 3006.1 | 3009.5 | 2904.7 | 2630.9 | 2276.1 | 2090.2 | 2120.7 | 2140.9 | 2151.0 | 2186.5 | 2201.7 |
| 37.5° | 3487.6 | 3496.0 | 3519.7 | 3411.6 | 3158.1 | 2968.8 | 2730.6 | 2752.6 | 2700.2 | 2705.2 | 2707.0 |
| 40°   | 3751.2 | 3778.2 | 3916.8 | 4021.6 | 4001.3 | 3891.5 | 3700.5 | 3712.3 | 3614.4 | 3592.4 | 3485.9 |
| 42.5° | 3926.9 | 3962.4 | 4183.8 | 4508.2 | 4673.8 | 4773.5 | 4729.6 | 4724.5 | 4648.5 | 4619.7 | 4530.2 |
| 45°   | 4036.8 | 4068.9 | 4347.7 | 4825.9 | 5207.8 | 5498.4 | 5618.3 | 5631.9 | 5567.6 | 5538.9 | 5464.6 |
| 47.5° | 4031.7 | 4068.9 | 4367.9 | 4944.2 | 5506.9 | 5971.5 | 6309.5 | 6326.4 | 6365.2 | 6339.9 | 6344.9 |
| 50°   | 3808.7 | 3844.2 | 4145.0 | 4743.1 | 5419.0 | 6187.8 | 6806.3 | 6860.3 | 6922.8 | 6965.1 | 6985.4 |
| 52.5° | 3538.3 | 3563.7 | 3830.7 | 4398.4 | 5043.8 | 6098.2 | 7100.2 | 7193.2 | 7286.2 | 7365.6 | 7421.3 |
| 55°   | 3438.6 | 3467.3 | 3676.8 | 4148.3 | 4743.1 | 5723.1 | 7237.1 | 7374.0 | 7505.9 | 7636.0 | 7742.4 |
| 57.5° | 3491.0 | 3518.0 | 3668.4 | 4030.0 | 4564.0 | 5327.7 | 7276.0 | 7488.9 | 7705.2 | 7916.4 | 8125.9 |
| 60°   | 3683.6 | 3712.3 | 3840.8 | 4139.8 | 4516.7 | 5099.6 | 7123.9 | 7477.1 | 7837.0 | 8205.4 | 8551.8 |
| 62.5° | 3607.6 | 3619.4 | 3808.7 | 4332.5 | 4854.6 | 4905.3 | 6571.4 | 7064.8 | 7614.0 | 8181.8 | 8741.0 |
| 63°   | 3534.9 | 3548.5 | 3741.1 | 4280.1 | 4957.7 | 4876.6 | 6400.7 | 6921.2 | 7500.7 | 8112.4 | 8720.8 |
| 65°   | 3205.5 | 3207.1 | 3354.1 | 3780.0 | 4842.8 | 4927.3 | 5640.4 | 6137.1 | 6802.9 | 7536.2 | 8305.1 |
| 67.5° | 2392.7 | 2380.9 | 2522.8 | 2847.2 | 3801.9 | 4929.0 | 4841.1 | 5120.0 | 5582.9 | 6233.5 | 6922.8 |
| 70°   | 848.3  | 829.7  | 1059.5 | 1508.9 | 2369.0 | 4031.7 | 4160.1 | 4178.7 | 4307.2 | 4658.6 | 5091.2 |
| 72.5° | 275.4  | 280.5  | 337.9  | 552.6  | 1091.6 | 2713.7 | 3766.4 | 3709.0 | 3675.2 | 3673.5 | 3730.9 |
| 75°   | 109.8  | 111.5  | 135.1  | 245.0  | 490.1  | 1307.9 | 3298.4 | 3330.4 | 3342.3 | 3359.2 | 3377.8 |
| 77.5° | 52.3   | 57.5   | 76.0   | 136.9  | 243.3  | 647.2  | 2360.6 | 2632.6 | 2788.0 | 2908.1 | 2980.7 |
| 80°   | 18.6   | 22.0   | 42.3   | 84.4   | 113.2  | 297.4  | 1243.6 | 1500.5 | 1728.6 | 2022.7 | 2276.1 |
| 82.5° | 0.0    | 0.0    | 8.4    | 59.1   | 62.5   | 120.0  | 510.3  | 598.1  | 684.3  | 887.1  | 1138.9 |
| 85°   | 0.0    | 0.0    | 0.0    | 16.9   | 18.6   | 20.3   | 172.4  | 207.9  | 233.2  | 272.0  | 314.3  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 5.0    | 10.2   | 25.3   | 38.9   |
| 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):**

|       | 60°    | 61°    | 62°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     | 71°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 356.6  | 356.6  | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   |
| 2.5°  | 415.7  | 414.0  | 414.0   | 410.6   | 408.9   | 405.5   | 403.9   | 398.7   | 397.1   | 397.1   | 397.1   |
| 5°    | 491.7  | 484.9  | 481.6   | 473.1   | 468.0   | 466.4   | 458.0   | 454.6   | 449.4   | 451.2   | 442.7   |
| 7.5°  | 576.2  | 564.4  | 559.3   | 547.4   | 544.1   | 532.2   | 528.9   | 520.4   | 515.4   | 505.3   | 501.9   |
| 10°   | 669.1  | 653.9  | 645.5   | 626.8   | 621.8   | 613.4   | 603.2   | 593.1   | 584.7   | 574.5   | 569.5   |
| 12.5° | 775.6  | 762.1  | 755.3   | 730.0   | 718.2   | 706.3   | 692.8   | 679.3   | 665.7   | 657.3   | 645.5   |
| 15°   | 900.6  | 878.7  | 871.9   | 848.3   | 828.0   | 812.8   | 794.2   | 777.3   | 767.1   | 750.3   | 738.4   |
| 17.5° | 1024.0 | 1002.0 | 997.0   | 961.5   | 939.5   | 929.3   | 909.1   | 887.1   | 868.5   | 851.7   | 833.0   |
| 20°   | 1147.3 | 1132.1 | 1118.6  | 1084.8  | 1061.2  | 1044.3  | 1017.2  | 995.2   | 980.0   | 956.4   | 932.7   |
| 22.5° | 1270.7 | 1255.4 | 1245.4  | 1209.9  | 1187.9  | 1164.2  | 1140.6  | 1116.9  | 1095.0  | 1066.2  | 1039.2  |
| 25°   | 1397.5 | 1387.3 | 1382.2  | 1350.1  | 1329.8  | 1307.9  | 1284.2  | 1257.2  | 1230.1  | 1198.0  | 1169.3  |
| 27.5° | 1529.2 | 1532.6 | 1522.4  | 1515.7  | 1493.7  | 1478.5  | 1441.4  | 1422.8  | 1402.5  | 1363.6  | 1328.1  |
| 30°   | 1696.5 | 1706.6 | 1703.2  | 1708.4  | 1694.8  | 1684.7  | 1655.9  | 1632.3  | 1608.6  | 1571.5  | 1530.9  |
| 32.5° | 1907.7 | 1921.3 | 1927.9  | 1946.6  | 1939.9  | 1936.5  | 1927.9  | 1894.2  | 1877.3  | 1813.1  | 1796.2  |
| 35°   | 2233.8 | 2227.1 | 2255.8  | 2271.0  | 2264.2  | 2260.9  | 2250.8  | 2232.2  | 2211.9  | 2166.2  | 2124.0  |
| 37.5° | 2657.9 | 2664.7 | 2674.9  | 2644.5  | 2624.2  | 2622.5  | 2592.0  | 2573.5  | 2544.7  | 2494.1  | 2443.4  |
| 40°   | 3435.2 | 3393.0 | 3345.7  | 3217.3  | 3161.5  | 3129.4  | 3039.8  | 3014.5  | 2965.4  | 2896.2  | 2843.9  |
| 42.5° | 4445.7 | 4403.4 | 4261.5  | 4047.0  | 3932.0  | 3773.2  | 3700.5  | 3611.0  | 3541.7  | 3428.5  | 3367.7  |
| 45°   | 5449.4 | 5327.7 | 5310.8  | 5060.8  | 4918.8  | 4709.3  | 4579.2  | 4428.8  | 4271.7  | 4123.0  | 4014.8  |
| 47.5° | 6296.0 | 6268.9 | 6186.2  | 6034.0  | 5902.3  | 5726.5  | 5559.2  | 5327.7  | 5165.5  | 4954.3  | 4760.0  |
| 50°   | 6973.5 | 6971.9 | 6941.4  | 6853.6  | 6743.8  | 6601.9  | 6454.8  | 6258.8  | 6074.6  | 5816.1  | 5608.3  |
| 52.5° | 7480.5 | 7507.5 | 7517.7  | 7490.6  | 7448.4  | 7323.3  | 7249.0  | 7085.1  | 6929.6  | 6709.9  | 6485.2  |
| 55°   | 7852.2 | 7951.9 | 8002.6  | 8060.1  | 8048.3  | 8004.3  | 8001.0  | 7894.4  | 7823.5  | 7649.4  | 7490.6  |
| 57.5° | 8311.9 | 8475.7 | 8632.8  | 8911.7  | 8921.8  | 9019.9  | 9070.6  | 9121.3  | 9134.7  | 9065.4  | 9013.1  |
| 60°   | 8896.4 | 9231.0 | 9528.4  | 10111.4 | 10263.5 | 10503.4 | 10658.9 | 10827.9 | 10971.4 | 10983.3 | 10979.9 |
| 62.5° | 9308.7 | 9824.1 | 10304.0 | 11169.2 | 11464.9 | 11742.0 | 11949.8 | 12113.8 | 12213.4 | 12314.8 | 12362.1 |
| 63°   | 9320.6 | 9885.0 | 10395.3 | 11287.5 | 11598.4 | 11862.0 | 12059.7 | 12211.8 | 12316.5 | 12377.3 | 12407.8 |
| 65°   | 9035.1 | 9719.4 | 10327.6 | 11216.5 | 11508.8 | 11774.1 | 11877.2 | 11976.9 | 12027.6 | 12051.2 | 11961.6 |
| 67.5° | 7657.9 | 8327.1 | 9036.7  | 10030.3 | 10280.3 | 10598.0 | 10682.6 | 10733.3 | 10756.9 | 10751.8 | 10675.8 |
| 70°   | 5726.5 | 6287.6 | 7076.6  | 8212.1  | 8543.4  | 8854.3  | 9046.9  | 9129.7  | 9156.7  | 9148.2  | 9035.1  |
| 72.5° | 3997.9 | 4327.4 | 4977.9  | 6241.9  | 6693.1  | 7091.8  | 7330.1  | 7453.4  | 7478.8  | 7428.1  | 7323.3  |
| 75°   | 3357.5 | 3374.5 | 3521.4  | 4212.5  | 4634.9  | 5060.8  | 5329.4  | 5407.2  | 5356.5  | 5202.7  | 4935.8  |
| 77.5° | 2997.6 | 3034.8 | 3034.8  | 3137.8  | 3220.6  | 3338.9  | 3364.3  | 3175.0  | 2955.4  | 2671.5  | 2441.7  |
| 80°   | 2514.4 | 2644.5 | 2735.7  | 2811.7  | 2820.1  | 2796.5  | 2734.0  | 2627.5  | 2458.5  | 2242.2  | 2002.3  |
| 82.5° | 1527.6 | 1784.4 | 1889.2  | 2281.1  | 2473.7  | 2603.8  | 2593.8  | 2451.8  | 2323.4  | 2098.7  | 1894.2  |
| 85°   | 385.3  | 415.7  | 451.2   | 586.3   | 657.3   | 802.6   | 893.8   | 936.1   | 951.3   | 873.6   | 790.8   |
| 87.5° | 37.1   | 25.3   | 42.3    | 32.1    | 45.7    | 33.8    | 45.7    | 42.3    | 52.3    | 55.7    | 60.8    |
| 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):**

|       | 72°     | 73°     | 74°     | 75°     | 76°     | 77°     | 78°     | 79°    | 80°    | 81°    | 82°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   | 356.6   | 356.6  | 356.6  | 356.6  | 356.6  |
| 2.5°  | 393.7   | 392.0   | 390.3   | 388.7   | 386.9   | 385.3   | 381.9   | 381.9  | 378.5  | 376.8  | 375.1  |
| 5°    | 437.6   | 434.2   | 432.6   | 429.2   | 424.1   | 420.7   | 415.7   | 408.9  | 403.9  | 402.1  | 398.7  |
| 7.5°  | 493.5   | 484.9   | 481.6   | 476.5   | 469.8   | 459.6   | 452.8   | 447.8  | 439.4  | 434.2  | 424.1  |
| 10°   | 555.9   | 547.4   | 537.4   | 527.2   | 517.1   | 505.3   | 496.7   | 490.1  | 476.5  | 469.8  | 458.0  |
| 12.5° | 635.4   | 620.2   | 608.3   | 594.8   | 581.3   | 567.7   | 557.6   | 537.4  | 525.5  | 510.3  | 500.1  |
| 15°   | 716.4   | 702.9   | 689.4   | 672.5   | 652.2   | 630.2   | 620.2   | 601.5  | 586.3  | 562.7  | 549.2  |
| 17.5° | 814.4   | 789.1   | 768.9   | 748.5   | 730.0   | 709.7   | 689.4   | 660.7  | 638.8  | 618.4  | 591.4  |
| 20°   | 910.8   | 880.4   | 858.3   | 831.4   | 804.4   | 772.2   | 748.5   | 728.2  | 697.9  | 670.9  | 642.1  |
| 22.5° | 1013.8  | 983.4   | 947.9   | 920.9   | 883.8   | 858.3   | 826.3   | 792.5  | 762.1  | 726.6  | 691.1  |
| 25°   | 1138.9  | 1106.8  | 1066.2  | 1030.7  | 988.4   | 953.0   | 914.2   | 875.3  | 838.1  | 797.6  | 751.9  |
| 27.5° | 1292.7  | 1258.8  | 1214.9  | 1172.6  | 1116.9  | 1073.0  | 1035.9  | 983.4  | 936.1  | 885.4  | 833.0  |
| 30°   | 1486.9  | 1449.8  | 1395.7  | 1334.9  | 1279.1  | 1230.1  | 1177.8  | 1108.5 | 1056.1 | 995.2  | 927.7  |
| 32.5° | 1740.5  | 1696.5  | 1623.8  | 1566.3  | 1497.1  | 1432.9  | 1360.2  | 1290.9 | 1216.7 | 1137.2 | 1059.5 |
| 35°   | 2059.8  | 2019.3  | 1934.7  | 1850.3  | 1774.2  | 1698.2  | 1607.0  | 1527.6 | 1422.8 | 1326.4 | 1226.7 |
| 37.5° | 2391.0  | 2318.3  | 2240.6  | 2149.4  | 2054.7  | 1963.5  | 1851.9  | 1742.1 | 1622.2 | 1517.4 | 1392.3 |
| 40°   | 2769.5  | 2681.6  | 2617.4  | 2519.4  | 2385.9  | 2255.8  | 2152.8  | 2015.9 | 1865.5 | 1725.2 | 1578.3 |
| 42.5° | 3288.3  | 3190.3  | 3075.3  | 2926.7  | 2830.3  | 2678.2  | 2544.7  | 2382.5 | 2184.8 | 2027.7 | 1850.3 |
| 45°   | 3888.1  | 3754.6  | 3643.1  | 3499.4  | 3382.9  | 3193.7  | 3038.2  | 2821.9 | 2624.2 | 2418.0 | 2201.7 |
| 47.5° | 4572.4  | 4406.8  | 4244.6  | 4102.7  | 3916.8  | 3730.9  | 3533.3  | 3303.4 | 3050.0 | 2823.5 | 2566.7 |
| 50°   | 5358.1  | 5123.2  | 4898.5  | 4716.1  | 4460.9  | 4246.3  | 4031.7  | 3773.2 | 3492.7 | 3232.4 | 2940.1 |
| 52.5° | 6231.7  | 5959.7  | 5662.4  | 5381.8  | 5086.1  | 4810.7  | 4552.1  | 4254.7 | 3942.2 | 3624.5 | 3298.4 |
| 55°   | 7286.2  | 7081.7  | 6732.0  | 6375.4  | 5979.9  | 5611.7  | 5278.7  | 4910.4 | 4530.2 | 4112.8 | 3769.8 |
| 57.5° | 8937.1  | 8837.3  | 8545.0  | 8188.5  | 7673.1  | 7225.3  | 6661.0  | 6209.8 | 5659.0 | 5084.5 | 4641.7 |
| 60°   | 11174.3 | 11050.8 | 10887.0 | 10598.0 | 10189.1 | 9580.8  | 8959.0  | 8257.8 | 7419.7 | 6623.8 | 5868.5 |
| 62.5° | 12367.2 | 12323.2 | 12189.8 | 11990.3 | 11608.5 | 11128.6 | 10501.8 | 9731.2 | 8785.0 | 7818.4 | 6855.3 |
| 63°   | 12402.6 | 12346.9 | 12232.0 | 12029.2 | 11693.0 | 11228.4 | 10613.2 | 9864.7 | 8938.7 | 7953.7 | 6970.1 |
| 65°   | 11922.8 | 11900.9 | 11784.2 | 11562.9 | 11333.1 | 10978.2 | 10501.8 | 9857.9 | 9080.6 | 8149.6 | 7171.2 |
| 67.5° | 10574.4 | 10508.4 | 10329.4 | 10261.8 | 10101.3 | 9854.5  | 9491.3  | 9048.5 | 8492.7 | 7760.9 | 6916.1 |
| 70°   | 8943.7  | 8845.7  | 8621.0  | 8501.1  | 8305.1  | 8149.6  | 7928.3  | 7612.3 | 7269.2 | 6759.0 | 6128.7 |
| 72.5° | 7215.2  | 7012.4  | 6806.3  | 6493.7  | 6219.9  | 5942.8  | 5697.8  | 5474.8 | 5097.9 | 4891.8 | 4413.6 |
| 75°   | 4685.6  | 4317.2  | 3964.2  | 3491.0  | 3065.2  | 2688.4  | 2321.7  | 2135.8 | 1748.9 | 1591.7 | 1367.0 |
| 77.5° | 2223.7  | 2017.5  | 1740.5  | 1525.8  | 1252.1  | 1022.3  | 834.7   | 626.8  | 491.7  | 385.3  | 294.0  |
| 80°   | 1794.5  | 1620.4  | 1453.2  | 1258.8  | 1052.7  | 839.8   | 643.8   | 481.6  | 341.3  | 236.5  | 167.3  |
| 82.5° | 1600.2  | 1410.9  | 1204.8  | 1071.3  | 931.1   | 762.1   | 625.2   | 510.3  | 376.8  | 275.4  | 187.6  |
| 85°   | 621.8   | 523.8   | 403.9   | 329.5   | 256.8   | 211.2   | 191.0   | 131.8  | 103.1  | 81.1   | 62.5   |
| 87.5° | 54.1    | 43.9    | 35.5    | 23.7    | 25.3    | 13.5    | 15.2    | 10.2   | 8.4    | 8.4    | 6.8    |
| 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):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°   | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6  | 356.6 | 356.6 | 356.6 |
| 2.5°  | 373.4  | 371.8  | 370.0  | 366.6  | 366.6  | 363.3  | 361.6  | 360.0  | 351.4 | 332.9 | 317.7 |
| 5°    | 392.0  | 388.7  | 385.3  | 380.2  | 376.8  | 371.8  | 368.4  | 363.3  | 344.7 | 309.3 | 278.8 |
| 7.5°  | 419.1  | 412.3  | 407.3  | 397.1  | 392.0  | 385.3  | 380.2  | 371.8  | 341.3 | 287.2 | 245.0 |
| 10°   | 451.2  | 439.4  | 430.9  | 419.1  | 408.9  | 400.5  | 392.0  | 380.2  | 337.9 | 263.6 | 214.6 |
| 12.5° | 490.1  | 476.5  | 459.6  | 446.0  | 432.6  | 420.7  | 408.9  | 393.7  | 332.9 | 243.3 | 191.0 |
| 15°   | 528.9  | 508.6  | 496.7  | 478.2  | 459.6  | 442.7  | 425.8  | 412.3  | 334.6 | 221.3 | 170.6 |
| 17.5° | 572.8  | 552.6  | 527.2  | 506.9  | 486.7  | 464.7  | 444.4  | 417.3  | 326.1 | 204.5 | 155.5 |
| 20°   | 615.0  | 586.3  | 562.7  | 537.4  | 508.6  | 481.6  | 456.2  | 432.6  | 319.3 | 187.6 | 141.9 |
| 22.5° | 660.7  | 626.8  | 596.5  | 564.4  | 528.9  | 498.5  | 468.0  | 437.6  | 307.5 | 172.4 | 130.1 |
| 25°   | 716.4  | 677.5  | 633.6  | 594.8  | 557.6  | 520.4  | 481.6  | 444.4  | 295.7 | 158.8 | 121.7 |
| 27.5° | 784.0  | 733.4  | 689.4  | 640.4  | 588.1  | 540.8  | 498.5  | 458.0  | 283.9 | 148.7 | 113.2 |
| 30°   | 870.2  | 811.0  | 748.5  | 686.1  | 630.2  | 576.2  | 517.1  | 466.4  | 272.0 | 138.5 | 104.8 |
| 32.5° | 985.2  | 910.8  | 834.7  | 762.1  | 687.7  | 618.4  | 555.9  | 490.1  | 265.2 | 130.1 | 96.4  |
| 35°   | 1137.2 | 1040.9 | 947.9  | 856.7  | 767.1  | 682.7  | 601.5  | 527.2  | 265.2 | 120.0 | 86.2  |
| 37.5° | 1280.8 | 1169.3 | 1051.0 | 937.8  | 831.4  | 733.4  | 637.0  | 547.4  | 251.8 | 111.5 | 77.8  |
| 40°   | 1436.2 | 1302.7 | 1164.2 | 1030.7 | 902.4  | 780.7  | 670.9  | 567.7  | 239.9 | 101.4 | 69.3  |
| 42.5° | 1674.5 | 1505.6 | 1324.8 | 1169.3 | 1015.5 | 865.1  | 728.2  | 606.6  | 224.7 | 91.2  | 60.8  |
| 45°   | 1987.2 | 1772.5 | 1559.7 | 1370.4 | 1174.4 | 990.2  | 828.0  | 677.5  | 221.3 | 82.8  | 52.3  |
| 47.5° | 2321.7 | 2068.2 | 1818.2 | 1576.5 | 1346.8 | 1132.1 | 937.8  | 757.0  | 221.3 | 74.4  | 45.7  |
| 50°   | 2654.5 | 2337.0 | 2070.0 | 1789.4 | 1530.9 | 1277.4 | 1045.9 | 839.8  | 223.1 | 67.6  | 37.1  |
| 52.5° | 2955.4 | 2615.7 | 2316.6 | 1992.2 | 1706.6 | 1412.6 | 1160.8 | 920.9  | 219.7 | 59.1  | 30.4  |
| 55°   | 3372.7 | 2974.0 | 2627.5 | 2269.3 | 1934.7 | 1603.6 | 1318.0 | 1042.5 | 221.3 | 52.3  | 25.3  |
| 57.5° | 4141.6 | 3673.5 | 3256.1 | 2786.4 | 2401.1 | 1973.6 | 1627.2 | 1292.7 | 241.6 | 43.9  | 18.6  |
| 60°   | 5244.9 | 4636.7 | 4050.3 | 3477.5 | 2987.5 | 2478.9 | 2029.3 | 1635.7 | 283.9 | 35.5  | 13.5  |
| 62.5° | 5986.7 | 5190.9 | 4491.4 | 3859.4 | 3289.9 | 2757.7 | 2267.6 | 1819.8 | 312.6 | 28.7  | 8.4   |
| 63°   | 6062.7 | 5239.9 | 4536.9 | 3884.7 | 3303.4 | 2771.2 | 2277.7 | 1833.3 | 314.3 | 27.0  | 8.4   |
| 65°   | 6206.4 | 5324.4 | 4562.3 | 3889.8 | 3289.9 | 2752.6 | 2271.0 | 1831.7 | 317.7 | 22.0  | 6.8   |
| 67.5° | 6042.5 | 5194.2 | 4415.3 | 3744.5 | 3171.6 | 2642.7 | 2186.5 | 1764.1 | 315.9 | 15.2  | 5.0   |
| 70°   | 5403.8 | 4700.9 | 4016.5 | 3391.3 | 2870.8 | 2392.7 | 1990.5 | 1608.6 | 290.6 | 10.2  | 3.4   |
| 72.5° | 3967.5 | 3489.3 | 2958.8 | 2507.6 | 2162.8 | 1796.2 | 1532.6 | 1208.1 | 224.7 | 6.8   | 1.6   |
| 75°   | 1176.0 | 1071.3 | 900.6  | 794.2  | 701.2  | 579.5  | 515.4  | 402.1  | 114.9 | 3.4   | 0.0   |
| 77.5° | 234.9  | 212.9  | 191.0  | 174.0  | 163.9  | 140.3  | 133.5  | 109.8  | 47.3  | 1.6   | 0.0   |
| 80°   | 123.3  | 101.4  | 86.2   | 76.0   | 65.9   | 54.1   | 45.7   | 37.1   | 8.4   | 0.0   | 0.0   |
| 82.5° | 118.3  | 79.4   | 57.5   | 47.3   | 40.5   | 32.1   | 25.3   | 18.6   | 5.0   | 0.0   | 0.0   |
| 85°   | 43.9   | 33.8   | 25.3   | 20.3   | 16.9   | 15.2   | 11.8   | 10.2   | 0.0   | 0.0   | 0.0   |
| 87.5° | 6.8    | 5.0    | 5.0    | 3.4    | 3.4    | 1.6    | 1.6    | 1.6    | 0.0   | 0.0   | 0.0   |
| 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: P165049

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**CANDELA DISTRIBUTION (continued):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 |
| 2.5°  | 302.5 | 289.0 | 282.2 | 273.8 | 273.8 | 272.0 | 275.4 |
| 5°    | 251.8 | 233.2 | 219.7 | 209.5 | 211.2 | 206.1 | 207.9 |
| 7.5°  | 212.9 | 194.3 | 182.4 | 175.8 | 174.0 | 172.4 | 172.4 |
| 10°   | 184.2 | 167.3 | 157.1 | 152.1 | 150.4 | 150.4 | 150.4 |
| 12.5° | 163.9 | 147.0 | 138.5 | 135.1 | 135.1 | 133.5 | 133.5 |
| 15°   | 147.0 | 133.5 | 125.1 | 121.7 | 121.7 | 120.0 | 121.7 |
| 17.5° | 133.5 | 120.0 | 113.2 | 109.8 | 109.8 | 108.2 | 108.2 |
| 20°   | 121.7 | 109.8 | 103.1 | 98.0  | 98.0  | 96.4  | 98.0  |
| 22.5° | 111.5 | 99.7  | 91.2  | 87.8  | 86.2  | 84.4  | 86.2  |
| 25°   | 101.4 | 89.6  | 81.1  | 76.0  | 74.4  | 74.4  | 72.6  |
| 27.5° | 93.0  | 81.1  | 71.0  | 65.9  | 64.2  | 64.2  | 62.5  |
| 30°   | 84.4  | 71.0  | 60.8  | 55.7  | 54.1  | 54.1  | 54.1  |
| 32.5° | 76.0  | 60.8  | 52.3  | 47.3  | 45.7  | 45.7  | 45.7  |
| 35°   | 67.6  | 52.3  | 43.9  | 38.9  | 37.1  | 37.1  | 37.1  |
| 37.5° | 57.5  | 43.9  | 33.8  | 30.4  | 28.7  | 27.0  | 27.0  |
| 40°   | 49.0  | 33.8  | 25.3  | 22.0  | 18.6  | 18.6  | 18.6  |
| 42.5° | 40.5  | 27.0  | 18.6  | 13.5  | 11.8  | 10.2  | 11.8  |
| 45°   | 33.8  | 20.3  | 11.8  | 6.8   | 5.0   | 5.0   | 5.0   |
| 47.5° | 27.0  | 13.5  | 5.0   | 1.6   | 1.6   | 1.6   | 1.6   |
| 50°   | 20.3  | 8.4   | 1.6   | 0.0   | 0.0   | 1.6   | 1.6   |
| 52.5° | 15.2  | 5.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 8.4   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 5.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 3.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)