

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: P165181

Luminaire Tested: **VTS-F07-LED-E1-SL3-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165181  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F07-LED-E1-SL3-HSS-7030  
Description: VENTUS LED SITE LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (49) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

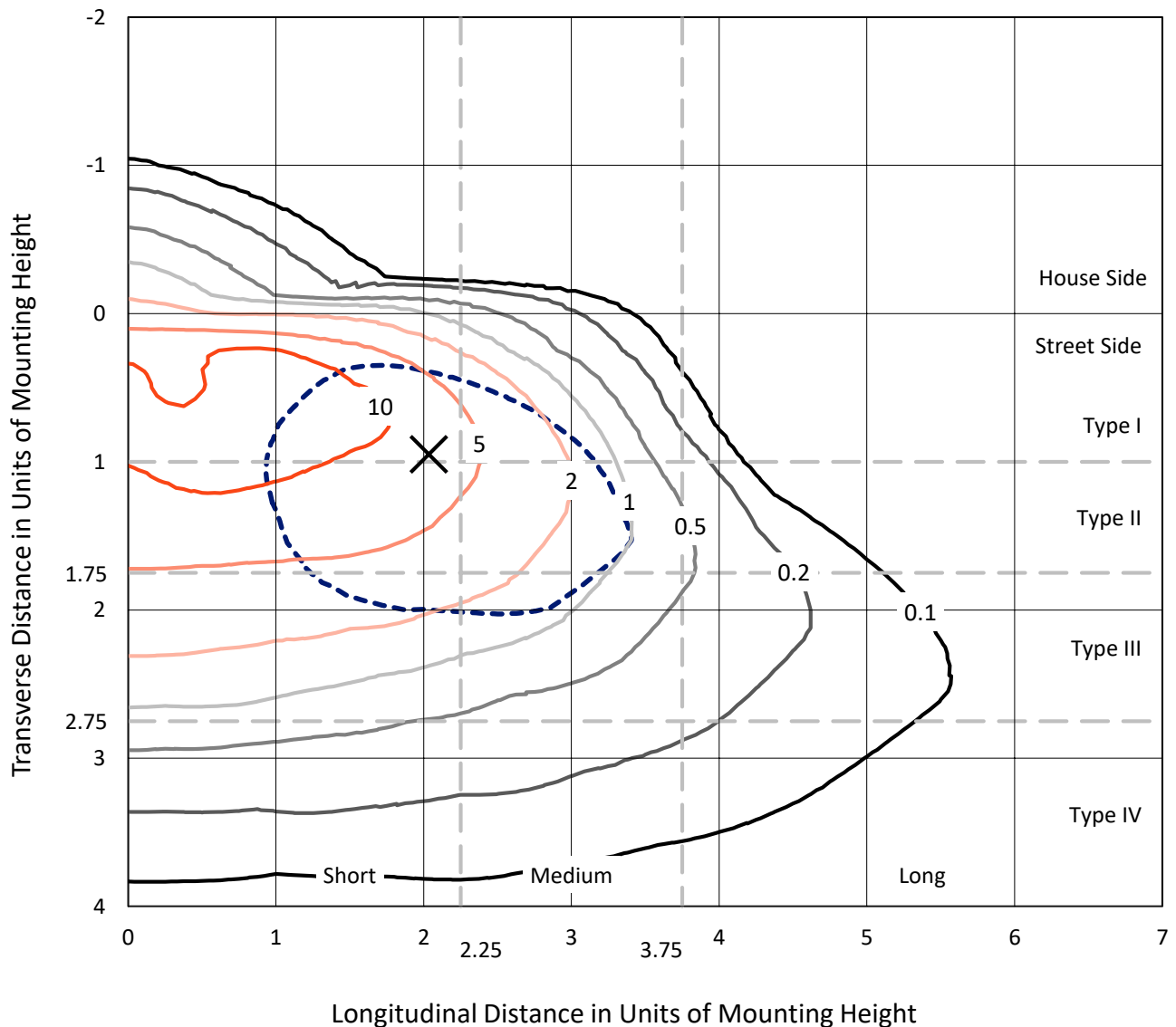
Lumens per Lamp: N/A  
Luminaire Lumens: 9041.7 lumens  
Efficiency: N/A  
Efficacy: 50.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 180.5  
Input Voltage (V): NR  
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

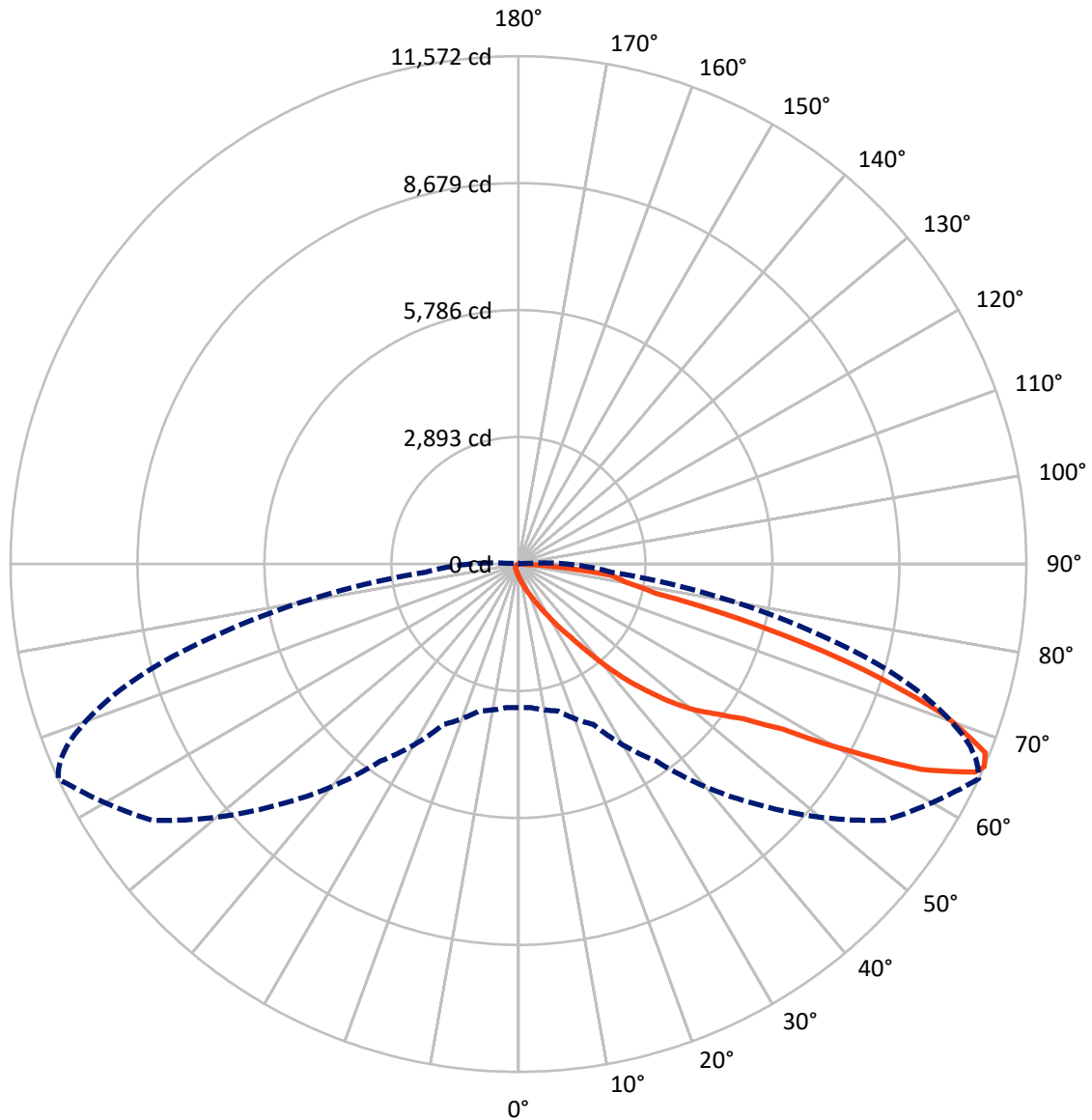


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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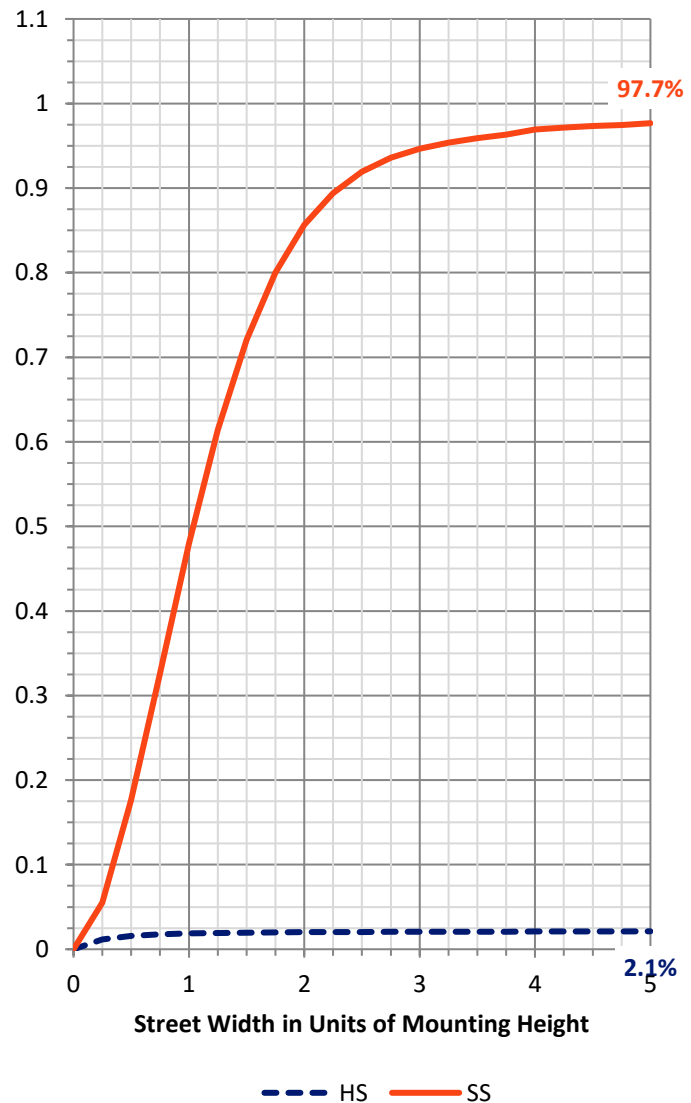
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 195.9    | 0.0    | 195.9  |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 8845.7   | 0.0    | 8845.7 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 9041.7   | 0.0    | 9041.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.6   | 0.3       |
| 10°-20°   | 129.5  | 1.4       |
| 20°-30°   | 279.4  | 3.1       |
| 30°-40°   | 596.7  | 6.6       |
| 40°-50°   | 1319.5 | 14.6      |
| 50°-60°   | 2236.2 | 24.7      |
| 60°-70°   | 2984.0 | 33.0      |
| 70°-80°   | 1314.4 | 14.5      |
| 80°-90°   | 151.4  | 1.7       |
| 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°    | 9041.7 | 100.0     |
| 0°-180°   | 9041.7 | 100.0     |



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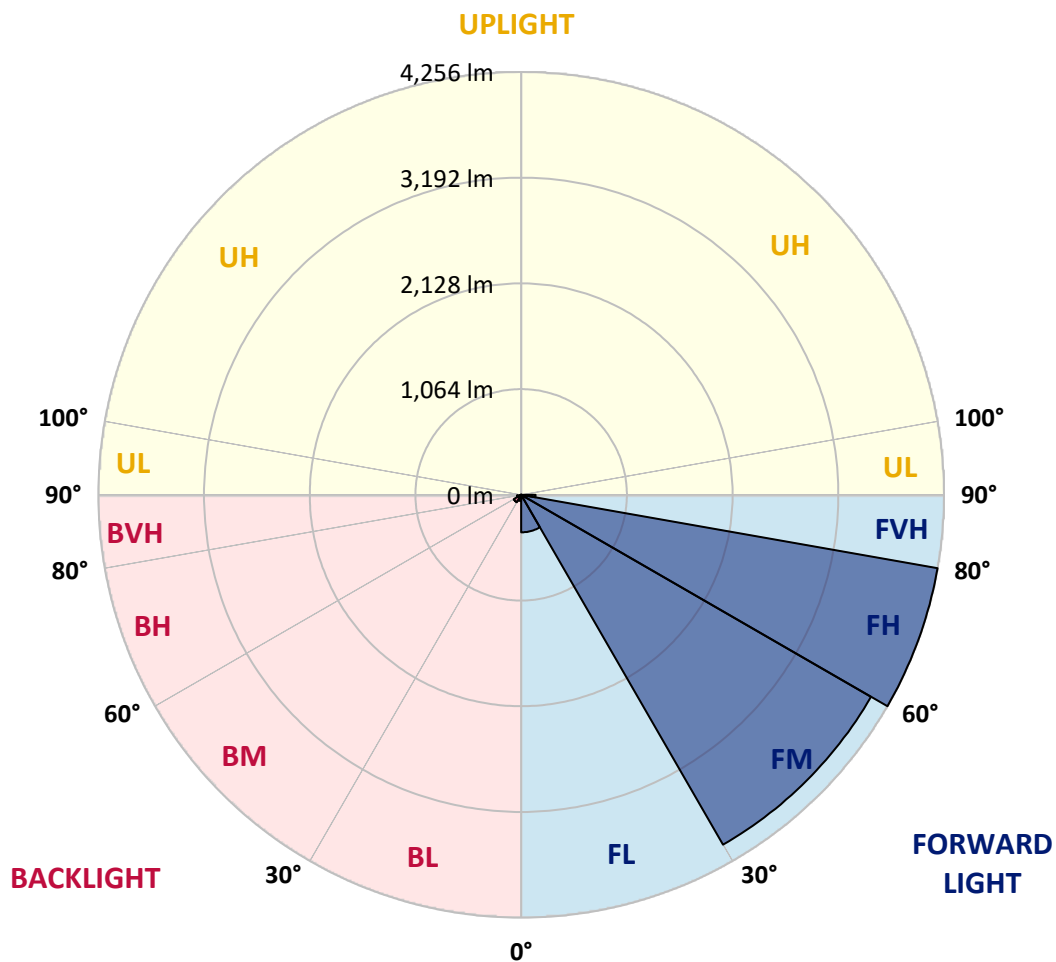
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 377.7  | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 4066.3 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 4256.4 | 47.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 145.4  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 61.8   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 86.0   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 42.0   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 6.0    | 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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 66°     | 67°     | 68°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  | 272.9   | 272.9   | 272.9   | 272.9   | 272.9   |
| 2.5°  | 344.2  | 342.4  | 335.5  | 335.5  | 325.0  | 318.2  | 309.4   | 300.7   | 300.7   | 298.9   | 297.3   |
| 5°    | 455.4  | 445.0  | 443.2  | 424.1  | 408.5  | 385.9  | 365.0   | 337.3   | 333.8   | 330.3   | 328.5   |
| 7.5°  | 578.9  | 577.1  | 561.5  | 538.9  | 507.6  | 465.8  | 424.1   | 379.0   | 372.0   | 368.5   | 361.5   |
| 10°   | 738.8  | 730.0  | 709.3  | 670.9  | 624.1  | 568.4  | 500.7   | 429.3   | 420.7   | 413.7   | 410.2   |
| 12.5° | 891.8  | 876.1  | 863.9  | 815.2  | 756.1  | 674.4  | 592.7   | 490.2   | 483.2   | 474.6   | 460.7   |
| 15°   | 1034.3 | 1020.3 | 999.5  | 957.8  | 891.8  | 789.2  | 693.6   | 568.4   | 551.0   | 538.9   | 528.4   |
| 17.5° | 1145.5 | 1136.9 | 1112.5 | 1065.6 | 994.3  | 903.9  | 789.2   | 648.3   | 634.5   | 618.8   | 599.7   |
| 20°   | 1251.6 | 1239.4 | 1201.2 | 1136.9 | 1060.3 | 990.8  | 902.2   | 752.6   | 733.5   | 714.4   | 693.6   |
| 22.5° | 1352.4 | 1340.2 | 1277.7 | 1171.6 | 1089.9 | 1060.3 | 1029.1  | 870.9   | 841.3   | 825.7   | 804.8   |
| 25°   | 1493.2 | 1467.2 | 1369.7 | 1201.2 | 1091.7 | 1114.3 | 1168.1  | 1023.8  | 996.1   | 973.5   | 940.4   |
| 27.5° | 1682.7 | 1647.9 | 1494.9 | 1244.6 | 1098.6 | 1173.4 | 1328.0  | 1209.8  | 1180.3  | 1154.2  | 1117.8  |
| 30°   | 1896.5 | 1873.9 | 1691.4 | 1348.9 | 1149.0 | 1260.3 | 1507.1  | 1446.3  | 1411.5  | 1380.2  | 1336.8  |
| 32.5° | 2112.0 | 2080.8 | 1900.0 | 1547.1 | 1284.5 | 1428.8 | 1731.4  | 1720.9  | 1675.8  | 1646.2  | 1599.2  |
| 35°   | 2301.5 | 2285.9 | 2152.0 | 1872.1 | 1594.0 | 1724.4 | 2030.3  | 2042.5  | 2002.6  | 1971.2  | 1919.1  |
| 37.5° | 2430.2 | 2430.2 | 2404.1 | 2221.5 | 2086.0 | 2183.3 | 2470.1  | 2471.9  | 2431.9  | 2360.6  | 2334.5  |
| 40°   | 2496.2 | 2515.3 | 2609.2 | 2643.9 | 2637.0 | 2762.2 | 3047.3  | 3015.9  | 2982.9  | 2946.4  | 2859.5  |
| 42.5° | 2631.8 | 2649.1 | 2849.0 | 3089.0 | 3245.4 | 3410.5 | 3607.0  | 3596.5  | 3556.6  | 3490.5  | 3410.5  |
| 45°   | 2861.3 | 2883.9 | 3122.0 | 3502.7 | 3824.2 | 4059.0 | 4184.0  | 4135.4  | 4095.4  | 4032.9  | 3991.1  |
| 47.5° | 3153.3 | 3196.8 | 3466.1 | 3937.2 | 4324.9 | 4712.5 | 4842.8  | 4714.3  | 4679.5  | 4630.8  | 4563.0  |
| 50°   | 3464.4 | 3506.1 | 3792.9 | 4331.8 | 4769.9 | 5232.2 | 5449.6  | 5232.2  | 5181.9  | 5166.2  | 5089.7  |
| 52.5° | 3733.8 | 3768.7 | 4045.0 | 4636.0 | 5110.5 | 5652.9 | 5969.3  | 5682.5  | 5645.9  | 5593.8  | 5538.2  |
| 55°   | 3893.8 | 3921.6 | 4180.6 | 4782.0 | 5341.8 | 6031.9 | 6471.7  | 6219.6  | 6165.7  | 6144.9  | 6064.9  |
| 57.5° | 3947.7 | 3975.5 | 4208.4 | 4801.1 | 5466.9 | 6377.8 | 7081.9  | 7090.5  | 7026.2  | 6951.5  | 6927.1  |
| 60°   | 3947.7 | 3978.9 | 4175.4 | 4754.3 | 5588.6 | 6746.3 | 7895.3  | 8620.2  | 8481.1  | 8467.2  | 8378.5  |
| 62.5° | 3784.3 | 3813.8 | 4012.0 | 4610.0 | 5752.0 | 7243.5 | 9028.7  | 10308.1 | 10268.2 | 10177.7 | 10031.7 |
| 65°   | 3429.6 | 3447.0 | 3641.7 | 4241.5 | 5689.4 | 7700.6 | 10010.8 | 11431.0 | 11366.7 | 11189.4 | 11001.7 |
| 66°   | 3269.7 | 3283.6 | 3466.1 | 4031.1 | 5484.3 | 7763.2 | 10184.7 | 11571.8 | 11465.8 | 11316.3 | 11104.2 |
| 67.5° | 3038.5 | 3062.9 | 3191.5 | 3640.0 | 4992.4 | 7545.9 | 10075.2 | 11472.8 | 11380.6 | 11199.8 | 10987.8 |
| 70°   | 2028.6 | 2011.2 | 2464.9 | 2793.4 | 3803.4 | 6148.4 | 9039.1  | 10301.1 | 10302.9 | 10217.7 | 10132.5 |
| 72.5° | 963.0  | 973.5  | 1105.5 | 1719.1 | 2489.2 | 4107.6 | 7194.8  | 8222.1  | 8340.3  | 8187.4  | 8081.3  |
| 75°   | 691.8  | 707.5  | 787.5  | 1051.7 | 1484.5 | 2464.9 | 4663.8  | 5750.2  | 5753.7  | 5482.5  | 5241.0  |
| 77.5° | 201.6  | 210.4  | 295.5  | 648.3  | 1112.5 | 1663.5 | 2678.7  | 3196.8  | 3122.0  | 2927.3  | 2744.7  |
| 80°   | 83.4   | 83.4   | 86.9   | 206.9  | 446.7  | 1129.9 | 1873.9  | 2461.4  | 2452.8  | 2378.0  | 2270.3  |
| 82.5° | 31.2   | 33.0   | 41.7   | 85.2   | 106.1  | 278.1  | 1249.8  | 2136.4  | 2131.1  | 2025.2  | 1948.6  |
| 85°   | 3.5    | 3.5    | 10.5   | 36.5   | 40.0   | 52.1   | 250.3   | 942.1   | 936.9   | 942.1   | 825.7   |
| 87.5° | 0.0    | 0.0    | 1.7    | 3.5    | 5.2    | 7.0    | 10.5    | 36.5    | 40.0    | 38.2    | 34.7    |
| 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):**

|       | 69°     | 70°     | 71°     | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 272.9   | 272.9   | 272.9   | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  |
| 2.5°  | 297.3   | 293.8   | 293.8   | 292.1  | 292.1  | 292.1  | 290.3  | 288.6  | 288.6  | 286.8  | 285.1  |
| 5°    | 325.0   | 321.5   | 319.8   | 316.4  | 314.7  | 312.9  | 309.4  | 307.7  | 304.2  | 302.4  | 300.7  |
| 7.5°  | 358.1   | 351.1   | 349.4   | 344.2  | 339.0  | 335.5  | 332.0  | 326.8  | 323.3  | 316.4  | 314.7  |
| 10°   | 399.9   | 391.1   | 384.1   | 377.2  | 372.0  | 363.3  | 358.1  | 351.1  | 344.2  | 339.0  | 333.8  |
| 12.5° | 453.7   | 441.6   | 431.1   | 424.1  | 412.0  | 401.5  | 391.1  | 385.9  | 372.0  | 365.0  | 356.4  |
| 15°   | 512.8   | 498.9   | 486.7   | 472.8  | 464.1  | 446.7  | 432.8  | 417.2  | 410.2  | 398.1  | 384.1  |
| 17.5° | 589.2   | 566.6   | 547.5   | 533.7  | 516.3  | 498.9  | 483.2  | 467.6  | 446.7  | 432.8  | 415.5  |
| 20°   | 670.9   | 651.8   | 625.8   | 601.5  | 580.6  | 559.8  | 537.1  | 516.3  | 497.2  | 474.6  | 453.7  |
| 22.5° | 775.3   | 747.5   | 716.2   | 691.8  | 664.1  | 641.5  | 610.1  | 582.4  | 551.0  | 521.5  | 497.2  |
| 25°   | 907.4   | 870.9   | 841.3   | 806.6  | 773.5  | 738.8  | 700.5  | 665.8  | 625.8  | 598.0  | 556.3  |
| 27.5° | 1070.8  | 1036.1  | 996.1   | 950.9  | 917.8  | 865.7  | 815.2  | 771.8  | 724.9  | 681.4  | 634.5  |
| 30°   | 1279.4  | 1229.0  | 1187.2  | 1143.8 | 1077.8 | 1027.3 | 968.2  | 909.2  | 844.8  | 801.4  | 730.0  |
| 32.5° | 1529.7  | 1475.8  | 1413.2  | 1350.6 | 1289.8 | 1218.6 | 1145.5 | 1072.5 | 1001.2 | 921.3  | 848.3  |
| 35°   | 1835.7  | 1771.3  | 1700.0  | 1632.3 | 1538.4 | 1461.9 | 1369.7 | 1268.9 | 1189.0 | 1096.9 | 1004.7 |
| 37.5° | 2240.7  | 2134.6  | 2072.0  | 2000.8 | 1873.9 | 1769.6 | 1667.0 | 1566.2 | 1425.4 | 1328.0 | 1197.7 |
| 40°   | 2748.2  | 2685.6  | 2583.1  | 2468.4 | 2353.7 | 2216.3 | 2077.3 | 1943.4 | 1780.0 | 1644.4 | 1493.2 |
| 42.5° | 3344.4  | 3252.4  | 3148.1  | 2982.9 | 2866.5 | 2704.7 | 2546.6 | 2369.3 | 2169.3 | 1995.6 | 1818.3 |
| 45°   | 3904.2  | 3794.7  | 3714.7  | 3549.6 | 3427.9 | 3236.7 | 3045.5 | 2857.8 | 2626.5 | 2402.3 | 2197.2 |
| 47.5° | 4509.2  | 4418.7  | 4286.6  | 4152.8 | 4029.4 | 3813.8 | 3607.0 | 3379.3 | 3135.8 | 2869.9 | 2603.9 |
| 50°   | 5041.1  | 4969.8  | 4879.4  | 4717.8 | 4580.4 | 4399.6 | 4156.3 | 3907.7 | 3600.0 | 3335.8 | 3033.3 |
| 52.5° | 5493.0  | 5437.3  | 5310.5  | 5195.7 | 5072.3 | 4902.0 | 4684.7 | 4446.6 | 4114.6 | 3824.2 | 3480.1 |
| 55°   | 6026.7  | 5986.7  | 5875.4  | 5804.2 | 5694.7 | 5531.3 | 5327.9 | 5107.2 | 4756.0 | 4439.6 | 4050.2 |
| 57.5° | 6901.0  | 6869.8  | 6772.4  | 6742.8 | 6635.0 | 6492.5 | 6242.2 | 6005.8 | 5595.6 | 5202.7 | 4757.8 |
| 60°   | 8349.0  | 8286.5  | 8143.9  | 8070.9 | 7843.1 | 7652.0 | 7327.0 | 7001.8 | 6506.5 | 6005.8 | 5470.4 |
| 62.5° | 9899.5  | 9724.0  | 9452.8  | 9220.0 | 8896.6 | 8564.5 | 8129.9 | 7632.9 | 7052.3 | 6457.8 | 5842.4 |
| 65°   | 10735.7 | 10436.7 | 10094.3 | 9724.0 | 9305.1 | 8816.6 | 8269.1 | 7672.9 | 7048.8 | 6421.3 | 5771.1 |
| 66°   | 10831.3 | 10494.1 | 10130.8 | 9718.8 | 9253.0 | 8733.2 | 8176.9 | 7551.2 | 6902.7 | 6290.9 | 5640.8 |
| 67.5° | 10711.4 | 10358.5 | 9974.4  | 9517.2 | 9013.1 | 8474.2 | 7890.1 | 7240.0 | 6615.9 | 5995.3 | 5362.6 |
| 70°   | 9871.8  | 9520.6  | 9178.2  | 8696.7 | 8159.5 | 7617.2 | 7064.4 | 6337.9 | 5746.8 | 5176.6 | 4613.5 |
| 72.5° | 7883.2  | 7645.0  | 7306.1  | 6894.1 | 6370.8 | 5734.6 | 5273.9 | 4623.9 | 4111.1 | 3558.3 | 3122.0 |
| 75°   | 4926.3  | 4590.9  | 4171.9  | 3647.0 | 3247.1 | 2730.8 | 2461.4 | 1967.7 | 1675.8 | 1420.2 | 1173.4 |
| 77.5° | 2518.7  | 2266.8  | 1973.0  | 1677.4 | 1394.1 | 1112.5 | 860.4  | 608.4  | 410.2  | 285.1  | 212.1  |
| 80°   | 2080.8  | 1858.3  | 1614.8  | 1345.5 | 1095.2 | 850.1  | 611.9  | 417.2  | 266.0  | 173.9  | 135.5  |
| 82.5° | 1719.1  | 1531.5  | 1314.1  | 1063.8 | 846.6  | 667.6  | 464.1  | 302.4  | 187.7  | 121.7  | 95.6   |
| 85°   | 731.8   | 664.1   | 512.8   | 406.7  | 305.9  | 226.0  | 158.2  | 106.1  | 74.7   | 60.8   | 55.6   |
| 87.5° | 31.2    | 34.7    | 33.0    | 26.1   | 19.1   | 19.1   | 17.4   | 13.9   | 13.9   | 13.9   | 13.9   |
| 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):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 95°   | 105°  | 115°  | 125°  | 135°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  | 272.9  | 272.9 | 272.9 | 272.9 | 272.9 | 272.9 |
| 2.5°  | 285.1  | 283.3  | 281.6  | 281.6  | 279.8  | 278.1  | 267.7 | 259.0 | 248.6 | 241.6 | 234.7 |
| 5°    | 297.3  | 295.5  | 292.1  | 290.3  | 286.8  | 285.1  | 262.5 | 243.3 | 227.7 | 215.6 | 206.9 |
| 7.5°  | 309.4  | 307.7  | 302.4  | 297.3  | 295.5  | 292.1  | 255.6 | 231.2 | 210.4 | 196.4 | 187.7 |
| 10°   | 325.0  | 319.8  | 314.7  | 307.7  | 302.4  | 297.3  | 248.6 | 217.2 | 194.7 | 182.5 | 173.9 |
| 12.5° | 347.6  | 339.0  | 330.3  | 321.5  | 314.7  | 305.9  | 245.1 | 205.1 | 182.5 | 168.6 | 159.9 |
| 15°   | 373.8  | 361.5  | 351.1  | 340.7  | 328.5  | 319.8  | 238.1 | 194.7 | 172.1 | 158.2 | 147.8 |
| 17.5° | 398.1  | 384.1  | 368.5  | 352.9  | 340.7  | 328.5  | 231.2 | 184.3 | 161.6 | 147.8 | 137.3 |
| 20°   | 432.8  | 412.0  | 392.9  | 373.8  | 356.4  | 340.7  | 220.7 | 173.9 | 153.0 | 137.3 | 126.9 |
| 22.5° | 471.1  | 446.7  | 422.4  | 396.4  | 373.8  | 352.9  | 212.1 | 165.1 | 144.3 | 128.7 | 116.4 |
| 25°   | 519.8  | 490.2  | 457.2  | 424.1  | 398.1  | 370.3  | 203.4 | 156.4 | 135.5 | 119.9 | 107.8 |
| 27.5° | 587.5  | 545.8  | 509.3  | 467.6  | 427.6  | 396.4  | 196.4 | 149.5 | 126.9 | 111.3 | 99.1  |
| 30°   | 679.7  | 618.8  | 561.5  | 516.3  | 469.3  | 424.1  | 189.5 | 140.8 | 119.9 | 102.6 | 88.7  |
| 32.5° | 782.2  | 710.9  | 644.9  | 577.1  | 518.0  | 465.8  | 182.5 | 133.8 | 111.3 | 93.8  | 81.7  |
| 35°   | 909.2  | 818.7  | 730.0  | 651.8  | 580.6  | 511.0  | 175.5 | 126.9 | 104.3 | 85.2  | 73.0  |
| 37.5° | 1091.7 | 978.6  | 862.2  | 761.4  | 669.2  | 577.1  | 170.4 | 119.9 | 95.6  | 76.5  | 64.3  |
| 40°   | 1342.0 | 1196.0 | 1053.4 | 916.0  | 796.1  | 681.4  | 163.4 | 112.9 | 88.7  | 69.6  | 57.3  |
| 42.5° | 1613.2 | 1435.8 | 1248.1 | 1093.4 | 928.3  | 784.0  | 156.4 | 106.1 | 81.7  | 62.6  | 50.5  |
| 45°   | 1950.4 | 1729.6 | 1501.9 | 1291.5 | 1089.9 | 903.9  | 149.5 | 99.1  | 73.0  | 55.6  | 43.5  |
| 47.5° | 2318.9 | 2037.3 | 1780.0 | 1515.8 | 1275.9 | 1053.4 | 140.8 | 93.8  | 66.1  | 48.7  | 38.2  |
| 50°   | 2697.9 | 2400.6 | 2075.5 | 1774.8 | 1489.8 | 1203.0 | 132.2 | 85.2  | 59.1  | 43.5  | 31.2  |
| 52.5° | 3106.3 | 2755.2 | 2423.2 | 2049.4 | 1717.4 | 1399.3 | 123.4 | 78.2  | 53.8  | 38.2  | 26.1  |
| 55°   | 3626.1 | 3233.3 | 2843.9 | 2424.9 | 2025.2 | 1627.1 | 114.7 | 69.6  | 47.0  | 33.0  | 20.9  |
| 57.5° | 4279.7 | 3813.8 | 3335.8 | 2863.0 | 2378.0 | 1926.0 | 107.8 | 60.8  | 40.0  | 27.8  | 17.4  |
| 60°   | 4896.8 | 4352.7 | 3773.8 | 3229.8 | 2682.2 | 2155.5 | 97.3  | 53.8  | 34.7  | 22.6  | 17.4  |
| 62.5° | 5216.6 | 4596.0 | 3972.0 | 3372.3 | 2788.2 | 2237.2 | 86.9  | 45.2  | 29.6  | 19.1  | 15.6  |
| 65°   | 5138.4 | 4505.7 | 3900.7 | 3295.8 | 2724.0 | 2185.1 | 76.5  | 40.0  | 26.1  | 17.4  | 15.6  |
| 66°   | 5025.5 | 4399.6 | 3791.3 | 3215.9 | 2670.0 | 2129.4 | 71.3  | 38.2  | 24.4  | 17.4  | 13.9  |
| 67.5° | 4778.6 | 4173.6 | 3593.0 | 3057.6 | 2522.2 | 2023.4 | 64.3  | 34.7  | 22.6  | 15.6  | 13.9  |
| 70°   | 4081.5 | 3532.2 | 3068.1 | 2591.8 | 2155.5 | 1705.3 | 52.1  | 29.6  | 19.1  | 13.9  | 13.9  |
| 72.5° | 2701.3 | 2327.6 | 2018.2 | 1736.6 | 1451.4 | 1126.4 | 43.5  | 24.4  | 15.6  | 13.9  | 12.1  |
| 75°   | 1018.6 | 921.3  | 791.0  | 710.9  | 620.6  | 544.1  | 34.7  | 15.6  | 12.1  | 12.1  | 12.1  |
| 77.5° | 180.8  | 166.9  | 147.8  | 135.5  | 125.2  | 114.7  | 27.8  | 10.5  | 10.5  | 12.1  | 12.1  |
| 80°   | 121.7  | 112.9  | 102.6  | 93.8   | 86.9   | 78.2   | 19.1  | 8.7   | 10.5  | 10.5  | 12.1  |
| 82.5° | 86.9   | 81.7   | 76.5   | 69.6   | 64.3   | 57.3   | 12.1  | 8.7   | 10.5  | 10.5  | 10.5  |
| 85°   | 52.1   | 48.7   | 45.2   | 41.7   | 36.5   | 34.7   | 8.7   | 8.7   | 8.7   | 10.5  | 10.5  |
| 87.5° | 13.9   | 12.1   | 13.9   | 13.9   | 10.5   | 12.1   | 7.0   | 7.0   | 7.0   | 8.7   | 8.7   |
| 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):**

|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 272.9 | 272.9 | 272.9 | 272.9 | 272.9 |
| 2.5°  | 231.2 | 231.2 | 227.7 | 233.0 | 233.0 |
| 5°    | 199.9 | 199.9 | 198.1 | 199.9 | 199.9 |
| 7.5°  | 182.5 | 180.8 | 180.8 | 180.8 | 182.5 |
| 10°   | 166.9 | 165.1 | 165.1 | 165.1 | 165.1 |
| 12.5° | 153.0 | 151.3 | 149.5 | 151.3 | 151.3 |
| 15°   | 140.8 | 137.3 | 137.3 | 137.3 | 137.3 |
| 17.5° | 130.4 | 126.9 | 125.2 | 125.2 | 125.2 |
| 20°   | 119.9 | 114.7 | 114.7 | 114.7 | 114.7 |
| 22.5° | 109.5 | 104.3 | 104.3 | 104.3 | 104.3 |
| 25°   | 99.1  | 93.8  | 93.8  | 93.8  | 93.8  |
| 27.5° | 90.4  | 85.2  | 85.2  | 85.2  | 85.2  |
| 30°   | 80.0  | 76.5  | 76.5  | 78.2  | 76.5  |
| 32.5° | 73.0  | 67.8  | 67.8  | 69.6  | 69.6  |
| 35°   | 64.3  | 60.8  | 60.8  | 60.8  | 60.8  |
| 37.5° | 55.6  | 52.1  | 52.1  | 52.1  | 52.1  |
| 40°   | 48.7  | 45.2  | 43.5  | 45.2  | 45.2  |
| 42.5° | 41.7  | 38.2  | 36.5  | 36.5  | 36.5  |
| 45°   | 36.5  | 31.2  | 29.6  | 31.2  | 31.2  |
| 47.5° | 29.6  | 26.1  | 26.1  | 27.8  | 27.8  |
| 50°   | 22.6  | 22.6  | 24.4  | 27.8  | 27.8  |
| 52.5° | 20.9  | 20.9  | 24.4  | 27.8  | 27.8  |
| 55°   | 19.1  | 20.9  | 24.4  | 26.1  | 27.8  |
| 57.5° | 17.4  | 20.9  | 24.4  | 26.1  | 26.1  |
| 60°   | 17.4  | 19.1  | 22.6  | 26.1  | 26.1  |
| 62.5° | 15.6  | 17.4  | 20.9  | 24.4  | 24.4  |
| 65°   | 15.6  | 17.4  | 20.9  | 24.4  | 24.4  |
| 66°   | 15.6  | 17.4  | 20.9  | 24.4  | 24.4  |
| 67.5° | 15.6  | 17.4  | 20.9  | 24.4  | 24.4  |
| 70°   | 15.6  | 17.4  | 20.9  | 22.6  | 22.6  |
| 72.5° | 13.9  | 15.6  | 19.1  | 22.6  | 22.6  |
| 75°   | 13.9  | 15.6  | 19.1  | 22.6  | 22.6  |
| 77.5° | 13.9  | 15.6  | 19.1  | 22.6  | 22.6  |
| 80°   | 13.9  | 15.6  | 19.1  | 20.9  | 22.6  |
| 82.5° | 12.1  | 15.6  | 17.4  | 20.9  | 20.9  |
| 85°   | 12.1  | 13.9  | 17.4  | 19.1  | 20.9  |
| 87.5° | 10.5  | 12.1  | 13.9  | 17.4  | 17.4  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)