

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: P165269

Luminaire Tested: **VST-E05-LED-E-U-SL3-HSS-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165269  
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: STREETWORKS  
Catalog Number: VST-E05-LED-E-U-SL3-HSS-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 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: 8789.1 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type III - 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



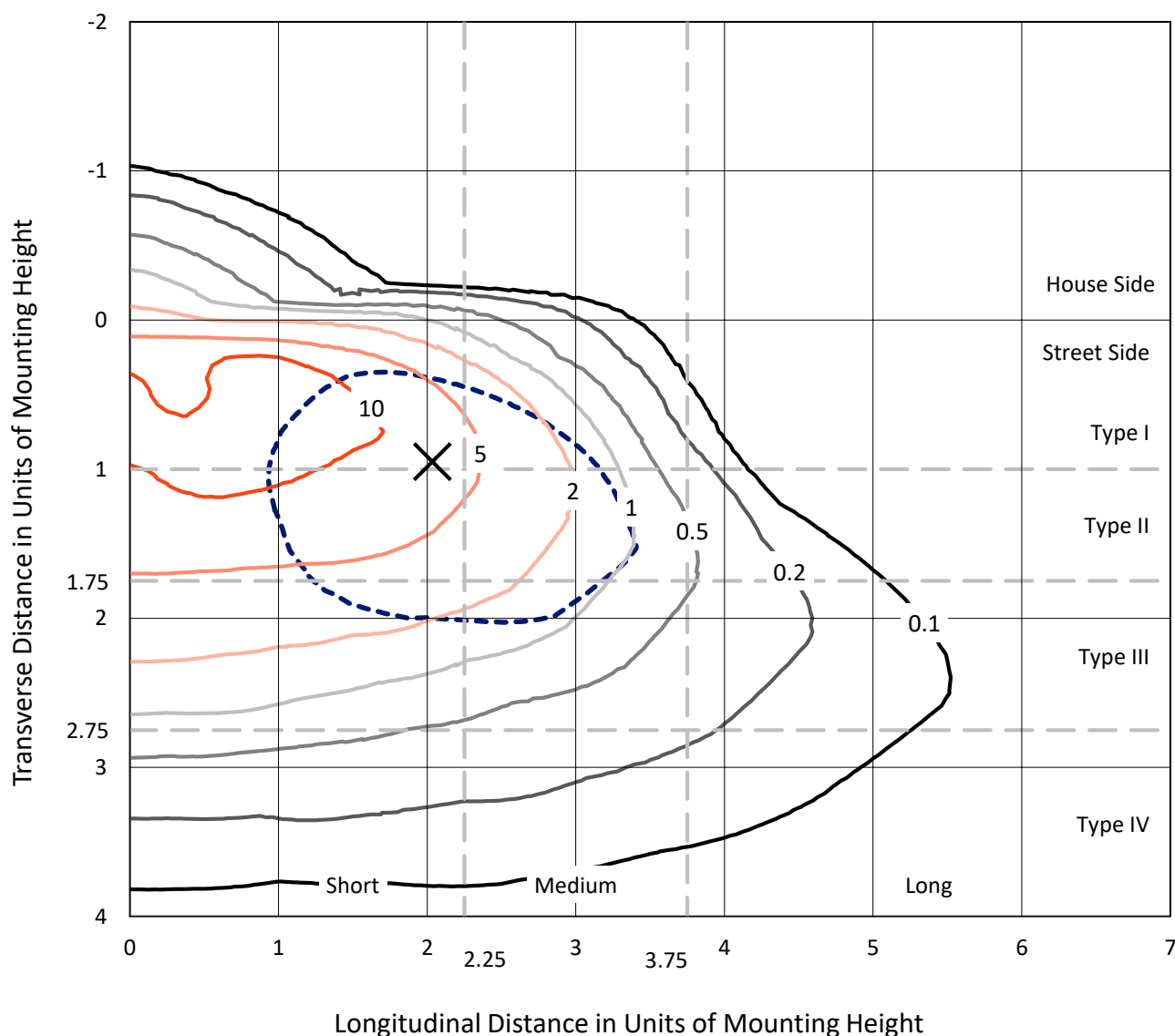
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

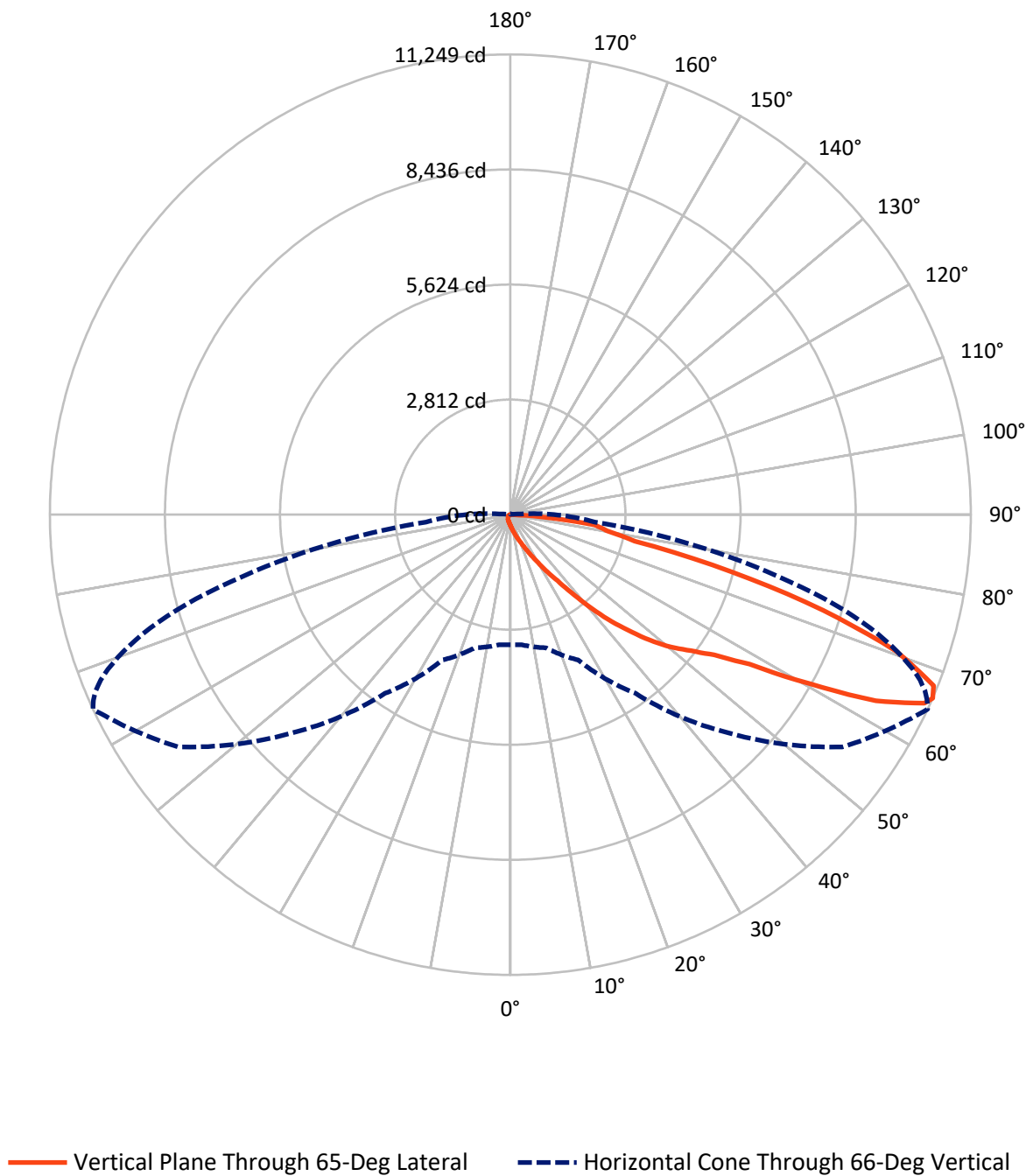


Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
Type III - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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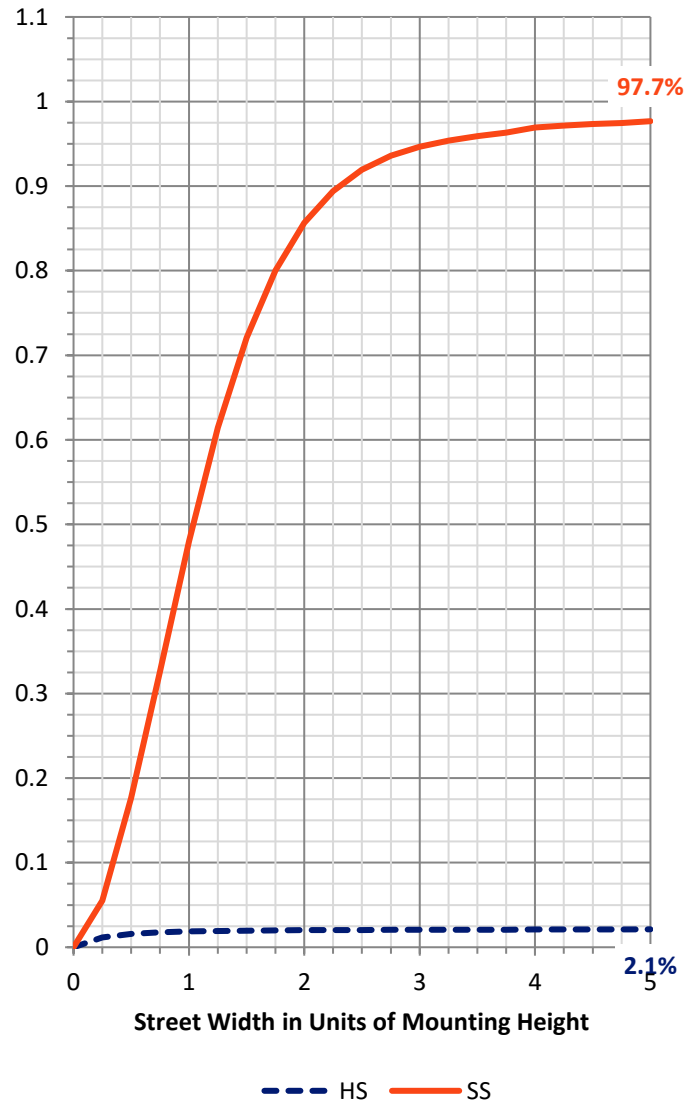
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 190.5    | 0.0    | 190.5  |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 8598.6   | 0.0    | 8598.6 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 8789.1   | 0.0    | 8789.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.7   | 0.3       |
| 10°-20°   | 125.9  | 1.4       |
| 20°-30°   | 271.6  | 3.1       |
| 30°-40°   | 580.0  | 6.6       |
| 40°-50°   | 1282.7 | 14.6      |
| 50°-60°   | 2173.7 | 24.7      |
| 60°-70°   | 2900.6 | 33.0      |
| 70°-80°   | 1277.7 | 14.5      |
| 80°-90°   | 147.2  | 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°    | 8789.1 | 100.0     |
| 0°-180°   | 8789.1 | 100.0     |

**Coefficient of Utilization**



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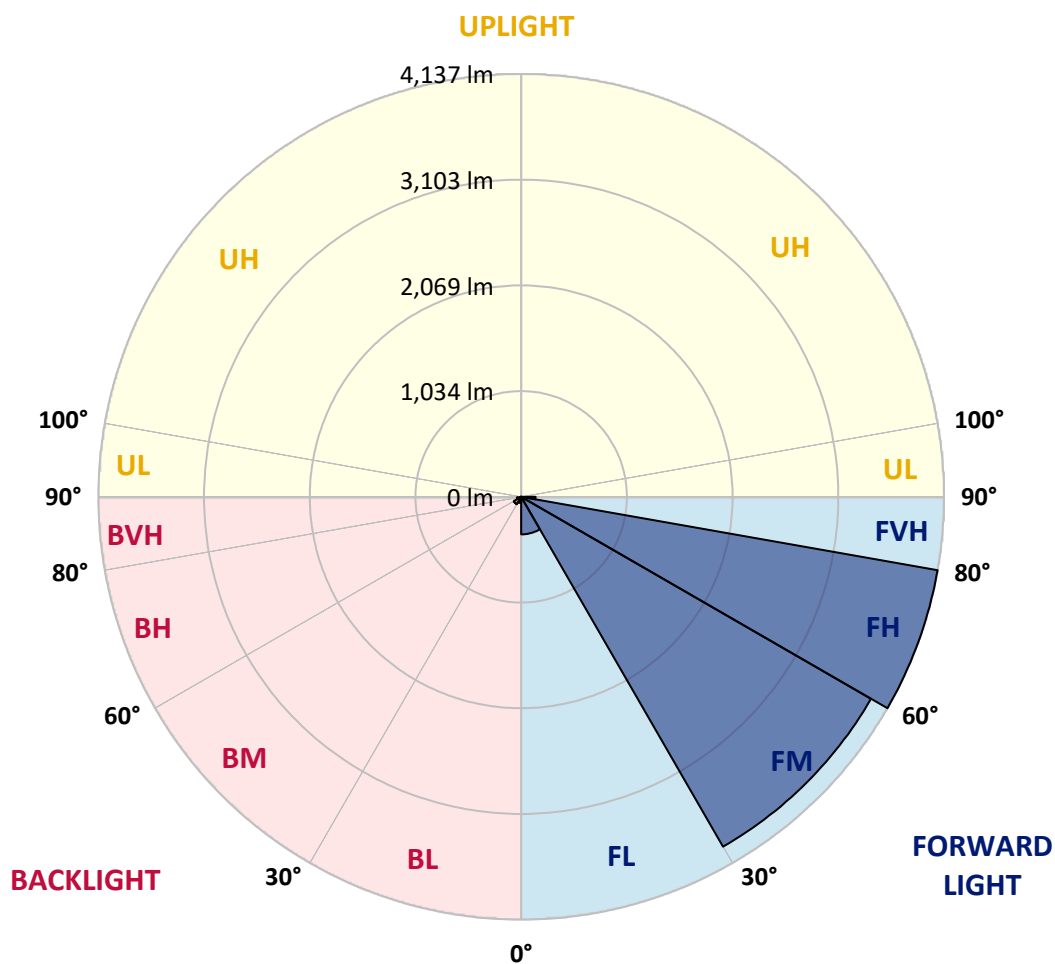
CATALOG NUMBER: VST-E05-LED-E-U-SL3-HSS-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 367.1  | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 3952.7 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 4137.5 | 47.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 141.3  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 60.1   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 83.6   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 40.9   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 5.9    | 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°    | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2   | 265.2   | 265.2   | 265.2   |
| 2.5°  | 334.6  | 332.9  | 326.1  | 326.1  | 315.9  | 309.3  | 300.8  | 292.3   | 292.3   | 290.6   | 289.0   |
| 5°    | 442.7  | 432.6  | 430.9  | 412.3  | 397.1  | 375.1  | 354.8  | 327.8   | 324.5   | 321.1   | 319.3   |
| 7.5°  | 562.7  | 561.0  | 545.8  | 523.8  | 493.5  | 452.8  | 412.3  | 368.4   | 361.6   | 358.2   | 351.4   |
| 10°   | 718.2  | 709.7  | 689.4  | 652.2  | 606.6  | 552.6  | 486.7  | 417.3   | 408.9   | 402.1   | 398.7   |
| 12.5° | 866.9  | 851.7  | 839.8  | 792.5  | 735.0  | 655.6  | 576.2  | 476.5   | 469.8   | 461.3   | 447.8   |
| 15°   | 1005.4 | 991.8  | 971.6  | 931.1  | 866.9  | 767.1  | 674.3  | 552.6   | 535.6   | 523.8   | 513.7   |
| 17.5° | 1113.5 | 1105.1 | 1081.4 | 1035.9 | 966.5  | 878.7  | 767.1  | 630.2   | 616.8   | 601.5   | 582.9   |
| 20°   | 1216.7 | 1204.8 | 1167.6 | 1105.1 | 1030.7 | 963.1  | 877.0  | 731.6   | 713.0   | 694.5   | 674.3   |
| 22.5° | 1314.6 | 1302.7 | 1242.0 | 1138.9 | 1059.5 | 1030.7 | 1000.4 | 846.5   | 817.8   | 802.6   | 782.3   |
| 25°   | 1451.5 | 1426.2 | 1331.5 | 1167.6 | 1061.2 | 1083.2 | 1135.5 | 995.2   | 968.2   | 946.3   | 914.2   |
| 27.5° | 1635.7 | 1601.9 | 1453.2 | 1209.9 | 1067.9 | 1140.6 | 1290.9 | 1176.0  | 1147.3  | 1121.9  | 1086.5  |
| 30°   | 1843.5 | 1821.5 | 1644.1 | 1311.3 | 1116.9 | 1225.1 | 1465.0 | 1405.9  | 1372.1  | 1341.6  | 1299.5  |
| 32.5° | 2053.0 | 2022.7 | 1846.9 | 1503.9 | 1248.7 | 1388.9 | 1683.0 | 1672.9  | 1628.9  | 1600.2  | 1554.5  |
| 35°   | 2237.2 | 2222.0 | 2091.9 | 1819.8 | 1549.5 | 1676.2 | 1973.6 | 1985.4  | 1946.6  | 1916.1  | 1865.5  |
| 37.5° | 2362.3 | 2362.3 | 2337.0 | 2159.4 | 2027.7 | 2122.3 | 2401.1 | 2402.8  | 2363.9  | 2294.7  | 2269.3  |
| 40°   | 2426.4 | 2445.0 | 2536.3 | 2570.1 | 2563.3 | 2685.0 | 2962.2 | 2931.7  | 2899.6  | 2864.1  | 2779.6  |
| 42.5° | 2558.3 | 2575.1 | 2769.5 | 3002.7 | 3154.8 | 3315.2 | 3506.2 | 3496.0  | 3457.3  | 3393.0  | 3315.2  |
| 45°   | 2781.4 | 2803.3 | 3034.8 | 3404.8 | 3717.4 | 3945.6 | 4067.2 | 4019.9  | 3981.0  | 3920.2  | 3879.6  |
| 47.5° | 3065.2 | 3107.5 | 3369.3 | 3827.3 | 4204.1 | 4580.8 | 4707.6 | 4582.6  | 4548.8  | 4501.4  | 4435.5  |
| 50°   | 3367.7 | 3408.2 | 3687.0 | 4210.8 | 4636.7 | 5086.1 | 5297.4 | 5086.1  | 5037.2  | 5021.9  | 4947.6  |
| 52.5° | 3629.5 | 3663.4 | 3932.0 | 4506.6 | 4967.8 | 5495.0 | 5802.5 | 5523.7  | 5488.2  | 5437.5  | 5383.5  |
| 55°   | 3785.0 | 3812.1 | 4063.8 | 4648.5 | 5192.6 | 5863.4 | 6290.9 | 6045.9  | 5993.5  | 5973.3  | 5895.5  |
| 57.5° | 3837.4 | 3864.4 | 4090.9 | 4667.0 | 5314.2 | 6199.6 | 6884.0 | 6892.5  | 6830.0  | 6757.3  | 6733.6  |
| 60°   | 3837.4 | 3867.8 | 4058.8 | 4621.5 | 5432.5 | 6557.8 | 7674.8 | 8379.4  | 8244.2  | 8230.7  | 8144.5  |
| 62.5° | 3678.6 | 3707.3 | 3899.9 | 4481.2 | 5591.4 | 7041.1 | 8776.5 | 10020.1 | 9981.3  | 9893.4  | 9751.5  |
| 65°   | 3333.8 | 3350.7 | 3540.0 | 4123.0 | 5530.5 | 7485.5 | 9731.2 | 11111.7 | 11049.2 | 10876.8 | 10694.4 |
| 66°   | 3178.4 | 3191.9 | 3369.3 | 3918.5 | 5331.1 | 7546.4 | 9900.2 | 11248.6 | 11145.6 | 11000.2 | 10794.0 |
| 67.5° | 2953.6 | 2977.3 | 3102.3 | 3538.3 | 4853.0 | 7335.1 | 9793.8 | 11152.3 | 11062.8 | 10887.0 | 10680.8 |
| 70°   | 1972.0 | 1955.0 | 2396.1 | 2715.4 | 3697.2 | 5976.7 | 8786.6 | 10013.4 | 10015.1 | 9932.3  | 9849.5  |
| 72.5° | 936.1  | 946.3  | 1074.6 | 1671.1 | 2419.7 | 3992.9 | 6993.8 | 7992.4  | 8107.4  | 7958.7  | 7855.6  |
| 75°   | 672.5  | 687.7  | 765.5  | 1022.3 | 1443.0 | 2396.1 | 4533.5 | 5589.6  | 5593.0  | 5329.4  | 5094.6  |
| 77.5° | 196.0  | 204.5  | 287.2  | 630.2  | 1081.4 | 1617.0 | 2603.8 | 3107.5  | 3034.8  | 2845.5  | 2668.1  |
| 80°   | 81.1   | 81.1   | 84.4   | 201.1  | 434.2  | 1098.3 | 1821.5 | 2392.7  | 2384.3  | 2311.6  | 2206.8  |
| 82.5° | 30.4   | 32.1   | 40.5   | 82.8   | 103.1  | 270.4  | 1214.9 | 2076.7  | 2071.6  | 1968.6  | 1894.2  |
| 85°   | 3.4    | 3.4    | 10.2   | 35.5   | 38.9   | 50.7   | 243.3  | 915.8   | 910.8   | 915.8   | 802.6   |
| 87.5° | 0.0    | 0.0    | 1.6    | 3.4    | 5.0    | 6.8    | 10.2   | 35.5    | 38.9    | 37.1    | 33.8    |
| 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):**

|       | 69°     | 70°     | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 265.2   | 265.2   | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  |
| 2.5°  | 289.0   | 285.6   | 285.6  | 283.9  | 283.9  | 283.9  | 282.2  | 280.5  | 280.5  | 278.8  | 277.2  |
| 5°    | 315.9   | 312.6   | 310.9  | 307.5  | 305.9  | 304.1  | 300.8  | 299.1  | 295.7  | 294.0  | 292.3  |
| 7.5°  | 348.1   | 341.3   | 339.6  | 334.6  | 329.5  | 326.1  | 322.7  | 317.7  | 314.3  | 307.5  | 305.9  |
| 10°   | 388.7   | 380.2   | 373.4  | 366.6  | 361.6  | 353.2  | 348.1  | 341.3  | 334.6  | 329.5  | 324.5  |
| 12.5° | 441.0   | 429.2   | 419.1  | 412.3  | 400.5  | 390.3  | 380.2  | 375.1  | 361.6  | 354.8  | 346.4  |
| 15°   | 498.5   | 484.9   | 473.1  | 459.6  | 451.2  | 434.2  | 420.7  | 405.5  | 398.7  | 386.9  | 373.4  |
| 17.5° | 572.8   | 550.8   | 532.2  | 518.8  | 501.9  | 484.9  | 469.8  | 454.6  | 434.2  | 420.7  | 403.9  |
| 20°   | 652.2   | 633.6   | 608.3  | 584.7  | 564.4  | 544.1  | 522.1  | 501.9  | 483.3  | 461.3  | 441.0  |
| 22.5° | 753.7   | 726.6   | 696.2  | 672.5  | 645.5  | 623.6  | 593.1  | 566.1  | 535.6  | 506.9  | 483.3  |
| 25°   | 882.0   | 846.5   | 817.8  | 784.0  | 751.9  | 718.2  | 680.9  | 647.2  | 608.3  | 581.3  | 540.8  |
| 27.5° | 1040.9  | 1007.1  | 968.2  | 924.3  | 892.2  | 841.5  | 792.5  | 750.3  | 704.6  | 662.4  | 616.8  |
| 30°   | 1243.6  | 1194.7  | 1154.1 | 1111.9 | 1047.7 | 998.6  | 941.1  | 883.8  | 821.2  | 779.0  | 709.7  |
| 32.5° | 1486.9  | 1434.6  | 1373.7 | 1312.9 | 1253.8 | 1184.5 | 1113.5 | 1042.5 | 973.3  | 895.6  | 824.6  |
| 35°   | 1784.4  | 1721.8  | 1652.5 | 1586.7 | 1495.4 | 1421.1 | 1331.5 | 1233.5 | 1155.8 | 1066.2 | 976.6  |
| 37.5° | 2178.1  | 2075.0  | 2014.1 | 1944.9 | 1821.5 | 1720.2 | 1620.4 | 1522.4 | 1385.6 | 1290.9 | 1164.2 |
| 40°   | 2671.5  | 2610.6  | 2511.0 | 2399.4 | 2287.9 | 2154.4 | 2019.3 | 1889.2 | 1730.3 | 1598.5 | 1451.5 |
| 42.5° | 3251.0  | 3161.5  | 3060.2 | 2899.6 | 2786.4 | 2629.2 | 2475.5 | 2303.1 | 2108.7 | 1939.9 | 1767.5 |
| 45°   | 3795.2  | 3688.7  | 3611.0 | 3450.5 | 3332.2 | 3146.2 | 2960.4 | 2778.0 | 2553.2 | 2335.2 | 2135.8 |
| 47.5° | 4383.2  | 4295.3  | 4166.9 | 4036.8 | 3916.8 | 3707.3 | 3506.2 | 3284.9 | 3048.3 | 2789.8 | 2531.2 |
| 50°   | 4900.3  | 4831.0  | 4743.1 | 4586.0 | 4452.5 | 4276.7 | 4040.2 | 3798.5 | 3499.4 | 3242.6 | 2948.6 |
| 52.5° | 5339.5  | 5285.5  | 5162.1 | 5050.6 | 4930.6 | 4765.0 | 4553.9 | 4322.4 | 3999.7 | 3717.4 | 3382.9 |
| 55°   | 5858.3  | 5819.5  | 5711.3 | 5642.0 | 5535.6 | 5376.8 | 5179.1 | 4964.5 | 4623.1 | 4315.6 | 3937.1 |
| 57.5° | 6708.3  | 6677.9  | 6583.2 | 6554.5 | 6449.7 | 6311.2 | 6067.9 | 5838.0 | 5439.3 | 5057.4 | 4624.9 |
| 60°   | 8115.8  | 8055.0  | 7916.4 | 7845.5 | 7624.1 | 7438.2 | 7122.3 | 6806.3 | 6324.7 | 5838.0 | 5317.6 |
| 62.5° | 9623.0  | 9452.4  | 9188.8 | 8962.4 | 8648.1 | 8325.3 | 7902.9 | 7419.7 | 6855.3 | 6277.4 | 5679.2 |
| 65°   | 10435.8 | 10145.2 | 9812.3 | 9452.4 | 9045.2 | 8570.3 | 8038.1 | 7458.6 | 6851.9 | 6241.9 | 5609.9 |
| 66°   | 10528.8 | 10200.9 | 9847.8 | 9447.4 | 8994.5 | 8489.3 | 7948.5 | 7340.2 | 6709.9 | 6115.2 | 5483.2 |
| 67.5° | 10412.2 | 10069.2 | 9695.8 | 9251.4 | 8761.3 | 8237.5 | 7669.7 | 7037.7 | 6431.1 | 5827.9 | 5212.8 |
| 70°   | 9596.0  | 9254.7  | 8921.8 | 8453.8 | 7931.6 | 7404.5 | 6867.1 | 6160.8 | 5586.3 | 5032.0 | 4484.6 |
| 72.5° | 7663.0  | 7431.5  | 7102.0 | 6701.5 | 6192.9 | 5574.4 | 5126.6 | 4494.8 | 3996.3 | 3458.9 | 3034.8 |
| 75°   | 4788.7  | 4462.6  | 4055.4 | 3545.1 | 3156.4 | 2654.5 | 2392.7 | 1912.8 | 1628.9 | 1380.5 | 1140.6 |
| 77.5° | 2448.4  | 2203.5  | 1917.9 | 1630.6 | 1355.2 | 1081.4 | 836.4  | 591.4  | 398.7  | 277.2  | 206.1  |
| 80°   | 2022.7  | 1806.4  | 1569.7 | 1307.9 | 1064.6 | 826.3  | 594.8  | 405.5  | 258.6  | 169.0  | 131.8  |
| 82.5° | 1671.1  | 1488.7  | 1277.4 | 1034.1 | 822.9  | 648.9  | 451.2  | 294.0  | 182.4  | 118.3  | 93.0   |
| 85°   | 711.4   | 645.5   | 498.5  | 395.4  | 297.4  | 219.7  | 153.8  | 103.1  | 72.6   | 59.1   | 54.1   |
| 87.5° | 30.4    | 33.8    | 32.1   | 25.3   | 18.6   | 18.6   | 16.9   | 13.5   | 13.5   | 13.5   | 13.5   |
| 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°    | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2  | 265.2 | 265.2 | 265.2 | 265.2 | 265.2 |
| 2.5°  | 277.2  | 275.4  | 273.8  | 273.8  | 272.0  | 270.4  | 260.2 | 251.8 | 241.6 | 234.9 | 228.1 |
| 5°    | 289.0  | 287.2  | 283.9  | 282.2  | 278.8  | 277.2  | 255.2 | 236.5 | 221.3 | 209.5 | 201.1 |
| 7.5°  | 300.8  | 299.1  | 294.0  | 289.0  | 287.2  | 283.9  | 248.4 | 224.7 | 204.5 | 191.0 | 182.4 |
| 10°   | 315.9  | 310.9  | 305.9  | 299.1  | 294.0  | 289.0  | 241.6 | 211.2 | 189.2 | 177.4 | 169.0 |
| 12.5° | 337.9  | 329.5  | 321.1  | 312.6  | 305.9  | 297.4  | 238.3 | 199.4 | 177.4 | 163.9 | 155.5 |
| 15°   | 363.3  | 351.4  | 341.3  | 331.2  | 319.3  | 310.9  | 231.5 | 189.2 | 167.3 | 153.8 | 143.7 |
| 17.5° | 386.9  | 373.4  | 358.2  | 343.0  | 331.2  | 319.3  | 224.7 | 179.2 | 157.1 | 143.7 | 133.5 |
| 20°   | 420.7  | 400.5  | 381.9  | 363.3  | 346.4  | 331.2  | 214.6 | 169.0 | 148.7 | 133.5 | 123.3 |
| 22.5° | 458.0  | 434.2  | 410.6  | 385.3  | 363.3  | 343.0  | 206.1 | 160.5 | 140.3 | 125.1 | 113.2 |
| 25°   | 505.3  | 476.5  | 444.4  | 412.3  | 386.9  | 360.0  | 197.7 | 152.1 | 131.8 | 116.6 | 104.8 |
| 27.5° | 571.1  | 530.6  | 495.1  | 454.6  | 415.7  | 385.3  | 191.0 | 145.3 | 123.3 | 108.2 | 96.4  |
| 30°   | 660.7  | 601.5  | 545.8  | 501.9  | 456.2  | 412.3  | 184.2 | 136.9 | 116.6 | 99.7  | 86.2  |
| 32.5° | 760.3  | 691.1  | 626.8  | 561.0  | 503.5  | 452.8  | 177.4 | 130.1 | 108.2 | 91.2  | 79.4  |
| 35°   | 883.8  | 795.8  | 709.7  | 633.6  | 564.4  | 496.7  | 170.6 | 123.3 | 101.4 | 82.8  | 71.0  |
| 37.5° | 1061.2 | 951.3  | 838.1  | 740.1  | 650.6  | 561.0  | 165.6 | 116.6 | 93.0  | 74.4  | 62.5  |
| 40°   | 1304.5 | 1162.6 | 1024.0 | 890.5  | 773.9  | 662.4  | 158.8 | 109.8 | 86.2  | 67.6  | 55.7  |
| 42.5° | 1568.1 | 1395.7 | 1213.3 | 1062.8 | 902.4  | 762.1  | 152.1 | 103.1 | 79.4  | 60.8  | 49.0  |
| 45°   | 1895.9 | 1681.3 | 1459.9 | 1255.4 | 1059.5 | 878.7  | 145.3 | 96.4  | 71.0  | 54.1  | 42.3  |
| 47.5° | 2254.1 | 1980.4 | 1730.3 | 1473.5 | 1240.3 | 1024.0 | 136.9 | 91.2  | 64.2  | 47.3  | 37.1  |
| 50°   | 2622.5 | 2333.6 | 2017.5 | 1725.2 | 1448.1 | 1169.3 | 128.5 | 82.8  | 57.5  | 42.3  | 30.4  |
| 52.5° | 3019.5 | 2678.2 | 2355.5 | 1992.2 | 1669.5 | 1360.2 | 120.0 | 76.0  | 52.3  | 37.1  | 25.3  |
| 55°   | 3524.8 | 3143.0 | 2764.4 | 2357.2 | 1968.6 | 1581.6 | 111.5 | 67.6  | 45.7  | 32.1  | 20.3  |
| 57.5° | 4160.1 | 3707.3 | 3242.6 | 2783.0 | 2311.6 | 1872.2 | 104.8 | 59.1  | 38.9  | 27.0  | 16.9  |
| 60°   | 4760.0 | 4231.1 | 3668.4 | 3139.6 | 2607.2 | 2095.3 | 94.6  | 52.3  | 33.8  | 22.0  | 16.9  |
| 62.5° | 5070.9 | 4467.7 | 3861.0 | 3278.1 | 2710.4 | 2174.7 | 84.4  | 43.9  | 28.7  | 18.6  | 15.2  |
| 65°   | 4994.9 | 4379.8 | 3791.8 | 3203.7 | 2647.9 | 2124.0 | 74.4  | 38.9  | 25.3  | 16.9  | 15.2  |
| 66°   | 4885.1 | 4276.7 | 3685.4 | 3126.0 | 2595.4 | 2070.0 | 69.3  | 37.1  | 23.7  | 16.9  | 13.5  |
| 67.5° | 4645.1 | 4057.0 | 3492.7 | 2972.2 | 2451.8 | 1966.8 | 62.5  | 33.8  | 22.0  | 15.2  | 13.5  |
| 70°   | 3967.5 | 3433.6 | 2982.4 | 2519.4 | 2095.3 | 1657.7 | 50.7  | 28.7  | 18.6  | 13.5  | 13.5  |
| 72.5° | 2625.8 | 2262.6 | 1961.8 | 1688.0 | 1410.9 | 1095.0 | 42.3  | 23.7  | 15.2  | 13.5  | 11.8  |
| 75°   | 990.2  | 895.6  | 768.9  | 691.1  | 603.2  | 528.9  | 33.8  | 15.2  | 11.8  | 11.8  | 11.8  |
| 77.5° | 175.8  | 162.2  | 143.7  | 131.8  | 121.7  | 111.5  | 27.0  | 10.2  | 10.2  | 11.8  | 11.8  |
| 80°   | 118.3  | 109.8  | 99.7   | 91.2   | 84.4   | 76.0   | 18.6  | 8.4   | 10.2  | 10.2  | 11.8  |
| 82.5° | 84.4   | 79.4   | 74.4   | 67.6   | 62.5   | 55.7   | 11.8  | 8.4   | 10.2  | 10.2  | 10.2  |
| 85°   | 50.7   | 47.3   | 43.9   | 40.5   | 35.5   | 33.8   | 8.4   | 8.4   | 8.4   | 10.2  | 10.2  |
| 87.5° | 13.5   | 11.8   | 13.5   | 13.5   | 10.2   | 11.8   | 6.8   | 6.8   | 6.8   | 8.4   | 8.4   |
| 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°    | 265.2 | 265.2 | 265.2 | 265.2 | 265.2 |
| 2.5°  | 224.7 | 224.7 | 221.3 | 226.5 | 226.5 |
| 5°    | 194.3 | 194.3 | 192.6 | 194.3 | 194.3 |
| 7.5°  | 177.4 | 175.8 | 175.8 | 175.8 | 177.4 |
| 10°   | 162.2 | 160.5 | 160.5 | 160.5 | 160.5 |
| 12.5° | 148.7 | 147.0 | 145.3 | 147.0 | 147.0 |
| 15°   | 136.9 | 133.5 | 133.5 | 133.5 | 133.5 |
| 17.5° | 126.7 | 123.3 | 121.7 | 121.7 | 121.7 |
| 20°   | 116.6 | 111.5 | 111.5 | 111.5 | 111.5 |
| 22.5° | 106.4 | 101.4 | 101.4 | 101.4 | 101.4 |
| 25°   | 96.4  | 91.2  | 91.2  | 91.2  | 91.2  |
| 27.5° | 87.8  | 82.8  | 82.8  | 82.8  | 82.8  |
| 30°   | 77.8  | 74.4  | 74.4  | 76.0  | 74.4  |
| 32.5° | 71.0  | 65.9  | 65.9  | 67.6  | 67.6  |
| 35°   | 62.5  | 59.1  | 59.1  | 59.1  | 59.1  |
| 37.5° | 54.1  | 50.7  | 50.7  | 50.7  | 50.7  |
| 40°   | 47.3  | 43.9  | 42.3  | 43.9  | 43.9  |
| 42.5° | 40.5  | 37.1  | 35.5  | 35.5  | 35.5  |
| 45°   | 35.5  | 30.4  | 28.7  | 30.4  | 30.4  |
| 47.5° | 28.7  | 25.3  | 25.3  | 27.0  | 27.0  |
| 50°   | 22.0  | 22.0  | 23.7  | 27.0  | 27.0  |
| 52.5° | 20.3  | 20.3  | 23.7  | 27.0  | 27.0  |
| 55°   | 18.6  | 20.3  | 23.7  | 25.3  | 27.0  |
| 57.5° | 16.9  | 20.3  | 23.7  | 25.3  | 25.3  |
| 60°   | 16.9  | 18.6  | 22.0  | 25.3  | 25.3  |
| 62.5° | 15.2  | 16.9  | 20.3  | 23.7  | 23.7  |
| 65°   | 15.2  | 16.9  | 20.3  | 23.7  | 23.7  |
| 66°   | 15.2  | 16.9  | 20.3  | 23.7  | 23.7  |
| 67.5° | 15.2  | 16.9  | 20.3  | 23.7  | 23.7  |
| 70°   | 15.2  | 16.9  | 20.3  | 22.0  | 22.0  |
| 72.5° | 13.5  | 15.2  | 18.6  | 22.0  | 22.0  |
| 75°   | 13.5  | 15.2  | 18.6  | 22.0  | 22.0  |
| 77.5° | 13.5  | 15.2  | 18.6  | 22.0  | 22.0  |
| 80°   | 13.5  | 15.2  | 18.6  | 20.3  | 22.0  |
| 82.5° | 11.8  | 15.2  | 16.9  | 20.3  | 20.3  |
| 85°   | 11.8  | 13.5  | 16.9  | 18.6  | 20.3  |
| 87.5° | 10.2  | 11.8  | 13.5  | 16.9  | 16.9  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)