

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: P165505

Luminaire Tested: **VST-E07-LED-E-U-SL4-HSS-8030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P165505  
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: VST-E07-LED-E-U-SL4-HSS-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (147) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 11877.9 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 172.5  
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: 28.75 FT

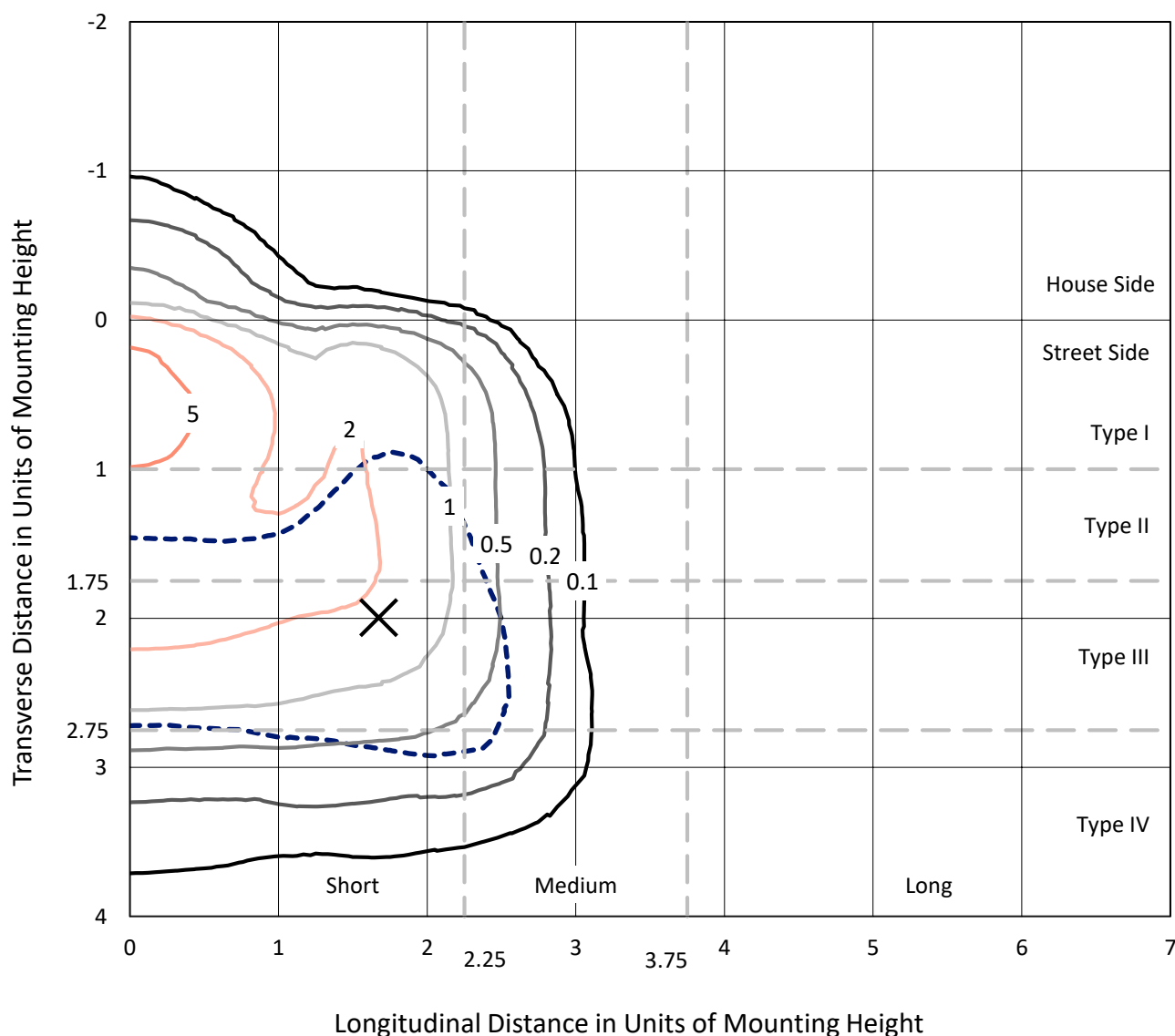


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

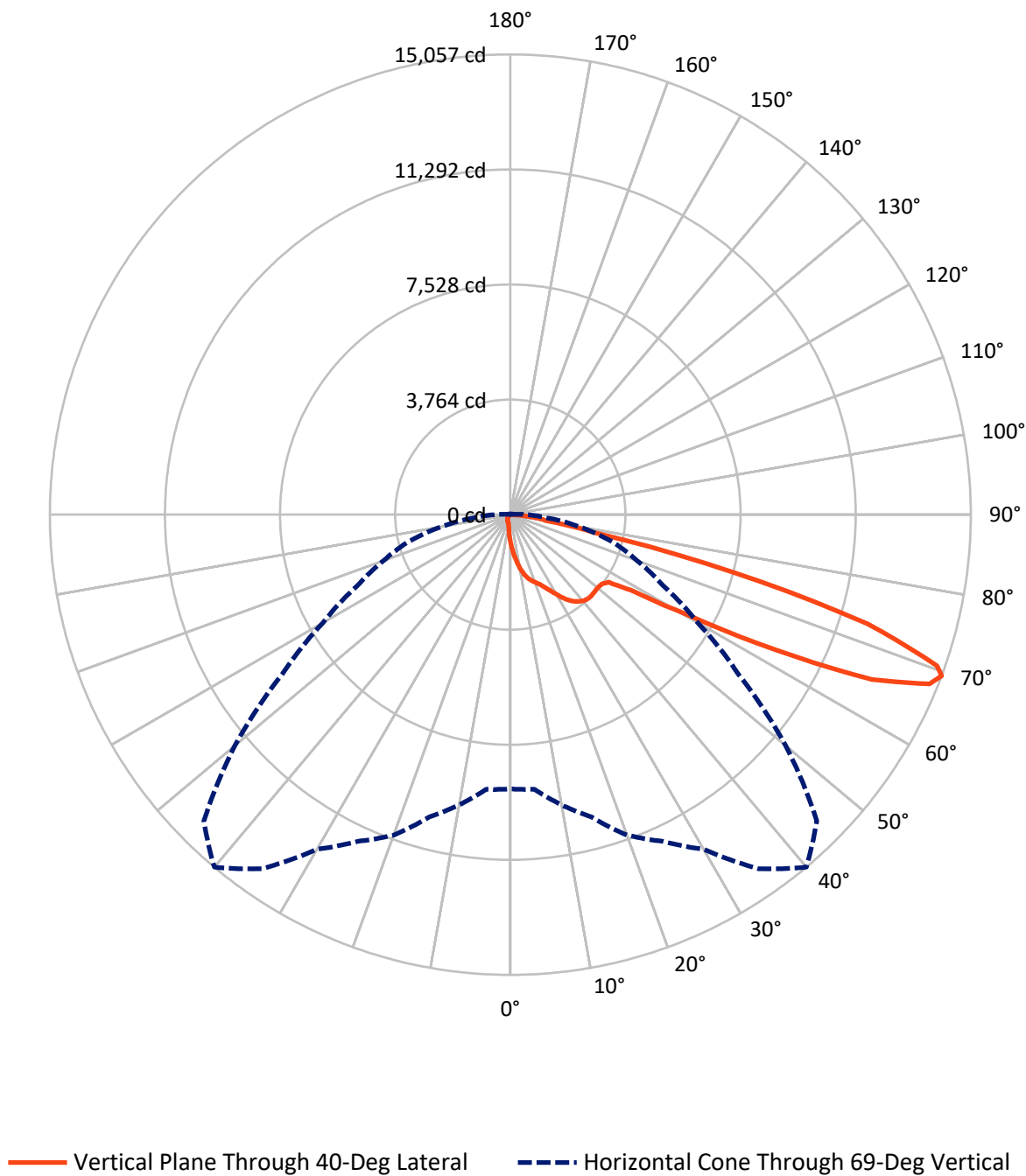


Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 353.7    | 0.0    | 353.7   |
|                    | % Fixture | 3.0      | 0.0    | 3.0     |
| <b>Street Side</b> | Lumens    | 11524.1  | 0.0    | 11524.1 |
|                    | % Fixture | 97.0     | 0.0    | 97.0    |
| <b>Total</b>       | Lumens    | 11877.9  | 0.0    | 11877.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 92.2    | 0.8       |
| 10°-20°   | 317.9   | 2.7       |
| 20°-30°   | 608.4   | 5.1       |
| 30°-40°   | 1011.8  | 8.5       |
| 40°-50°   | 1369.1  | 11.5      |
| 50°-60°   | 2141.1  | 18.0      |
| 60°-70°   | 4402.1  | 37.1      |
| 70°-80°   | 1771.4  | 14.9      |
| 80°-90°   | 163.9   | 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°    | 11877.9 | 100.0     |
| 0°-180°   | 11877.9 | 100.0     |

**Coefficient of Utilization**



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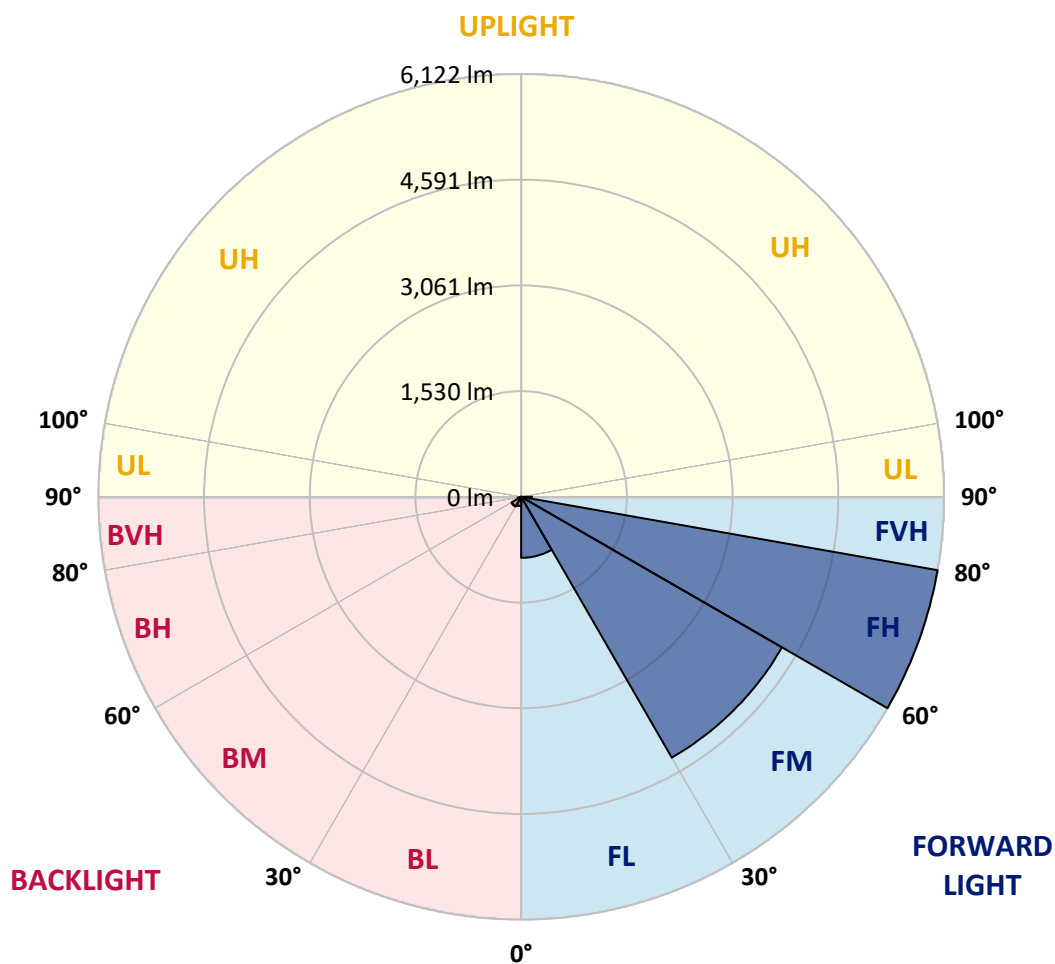
CATALOG NUMBER: VST-E07-LED-E-U-SL4-HSS-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 883.9  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 4360.5 | 36.7      |                         |      |         |
| FH   | (60°-80°)   | 6121.9 | 51.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 157.8  | 1.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 134.5  | 1.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 161.5  | 1.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 51.6   | 0.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 6.1    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 897.1   | 897.1   | 897.1   | 897.1   | 897.1   | 897.1   | 897.1   | 897.1   | 897.1   | 897.1   | 897.1   |
| 2.5°  | 1196.7  | 1183.0  | 1167.4  | 1167.4  | 1148.0  | 1148.0  | 1136.3  | 1105.3  | 1101.4  | 1083.8  | 1066.3  |
| 5°    | 1527.4  | 1515.7  | 1496.4  | 1478.8  | 1463.3  | 1436.0  | 1416.5  | 1379.5  | 1338.7  | 1299.7  | 1264.8  |
| 7.5°  | 1850.5  | 1844.6  | 1809.6  | 1803.7  | 1778.4  | 1733.7  | 1694.8  | 1640.3  | 1570.2  | 1515.7  | 1451.6  |
| 10°   | 2150.1  | 2136.4  | 2128.6  | 2095.5  | 2058.7  | 2010.0  | 1949.6  | 1883.6  | 1801.8  | 1716.1  | 1624.7  |
| 12.5° | 2387.5  | 2379.7  | 2344.6  | 2331.0  | 2292.2  | 2243.5  | 2167.6  | 2082.0  | 2000.3  | 1889.4  | 1782.3  |
| 15°   | 2564.5  | 2550.9  | 2527.5  | 2506.1  | 2459.5  | 2416.7  | 2346.6  | 2253.2  | 2154.0  | 2033.4  | 1905.0  |
| 17.5° | 2712.5  | 2687.2  | 2681.3  | 2648.2  | 2599.6  | 2548.9  | 2471.2  | 2385.5  | 2268.8  | 2148.1  | 2008.0  |
| 20°   | 2910.8  | 2875.9  | 2864.2  | 2815.5  | 2759.1  | 2689.1  | 2599.6  | 2492.6  | 2369.9  | 2237.7  | 2093.7  |
| 22.5° | 3144.3  | 3119.0  | 3093.8  | 3051.0  | 2979.0  | 2879.8  | 2749.4  | 2632.7  | 2477.0  | 2331.0  | 2175.4  |
| 25°   | 3475.2  | 3453.8  | 3412.9  | 3354.5  | 3265.0  | 3146.3  | 2988.7  | 2817.5  | 2634.6  | 2447.8  | 2264.9  |
| 27.5° | 3796.2  | 3776.7  | 3747.5  | 3702.9  | 3601.6  | 3471.3  | 3276.7  | 3058.8  | 2827.2  | 2601.5  | 2399.1  |
| 30°   | 4097.9  | 4080.3  | 4051.1  | 4006.4  | 3916.8  | 3788.4  | 3568.5  | 3335.0  | 3047.1  | 2784.4  | 2541.2  |
| 32.5° | 4422.8  | 4416.9  | 4383.8  | 4319.6  | 4241.8  | 4068.7  | 3829.3  | 3578.3  | 3286.5  | 2982.9  | 2698.7  |
| 35°   | 4790.5  | 4745.7  | 4714.7  | 4650.4  | 4518.2  | 4333.2  | 4053.1  | 3778.7  | 3471.3  | 3159.9  | 2842.8  |
| 37.5° | 5101.9  | 5059.1  | 5020.1  | 4938.4  | 4776.9  | 4541.4  | 4224.3  | 3922.6  | 3605.5  | 3288.4  | 2965.3  |
| 40°   | 5329.4  | 5308.0  | 5261.4  | 5154.3  | 4973.4  | 4693.3  | 4350.7  | 4021.9  | 3702.9  | 3383.7  | 3064.6  |
| 42.5° | 5498.8  | 5465.7  | 5413.2  | 5302.3  | 5088.3  | 4769.1  | 4401.3  | 4062.8  | 3747.5  | 3442.1  | 3128.8  |
| 45°   | 5561.0  | 5533.8  | 5485.2  | 5364.5  | 5132.9  | 4790.5  | 4399.4  | 4051.1  | 3749.5  | 3459.6  | 3171.6  |
| 47.5° | 5524.0  | 5496.9  | 5454.0  | 5341.1  | 5113.6  | 4765.2  | 4364.4  | 4018.0  | 3730.0  | 3465.5  | 3210.5  |
| 50°   | 5401.5  | 5385.9  | 5352.8  | 5257.5  | 5053.2  | 4716.5  | 4333.2  | 4000.5  | 3726.1  | 3494.7  | 3265.0  |
| 52.5° | 5389.8  | 5380.1  | 5339.2  | 5243.9  | 5035.7  | 4700.9  | 4329.3  | 4010.3  | 3759.2  | 3531.6  | 3304.0  |
| 55°   | 6586.4  | 6448.3  | 6138.9  | 5876.3  | 5444.3  | 4930.6  | 4525.8  | 4167.8  | 3899.4  | 3677.6  | 3517.9  |
| 57.5° | 9361.1  | 9154.9  | 8748.2  | 8248.2  | 7255.8  | 6281.0  | 5500.8  | 4936.4  | 4658.2  | 4557.0  | 4617.3  |
| 60°   | 10660.9 | 10624.0 | 10559.7 | 10322.3 | 9814.5  | 8975.9  | 8041.9  | 7032.1  | 6627.3  | 6592.3  | 6714.8  |
| 62.5° | 11277.8 | 11254.4 | 11273.9 | 11244.7 | 11087.1 | 10841.9 | 10573.3 | 10137.5 | 9736.6  | 9477.9  | 8929.1  |
| 65°   | 11561.8 | 11577.4 | 11688.3 | 11775.8 | 11795.3 | 11859.5 | 12056.1 | 12598.9 | 12995.8 | 12328.4 | 10804.9 |
| 67.5° | 10839.9 | 10931.3 | 11186.3 | 11505.4 | 11879.0 | 12240.9 | 12824.6 | 13968.7 | 14784.0 | 13999.9 | 11836.2 |
| 69°   | 8973.9  | 9018.7  | 9641.3  | 10242.6 | 11155.1 | 11793.4 | 12639.8 | 14139.9 | 15056.5 | 14171.1 | 11754.4 |
| 70°   | 7065.1  | 7105.9  | 7773.4  | 8590.6  | 10133.6 | 10954.7 | 12061.9 | 13850.1 | 14801.5 | 13943.4 | 11334.1 |
| 72.5° | 3187.2  | 3128.8  | 3364.2  | 3802.0  | 5479.3  | 6783.0  | 8719.1  | 11221.3 | 12211.7 | 11170.7 | 8479.7  |
| 75°   | 2226.0  | 2200.7  | 2226.0  | 2227.9  | 2488.7  | 3210.5  | 4051.1  | 6082.5  | 7522.3  | 6491.2  | 4051.1  |
| 77.5° | 1723.9  | 1706.4  | 1689.0  | 1669.5  | 1700.7  | 1905.0  | 1986.6  | 2157.8  | 2801.9  | 2650.2  | 1544.9  |
| 80°   | 1364.0  | 1348.4  | 1391.2  | 1377.6  | 1377.6  | 1401.0  | 1385.4  | 1321.1  | 1200.5  | 1112.9  | 996.2   |
| 82.5° | 634.3   | 638.2   | 638.2   | 692.6   | 834.8   | 974.8   | 1019.6  | 955.4   | 848.4   | 721.8   | 581.8   |
| 85°   | 60.3    | 68.1    | 114.9   | 177.1   | 352.2   | 396.9   | 398.9   | 330.7   | 330.7   | 260.8   | 210.1   |
| 87.5° | 0.0     | 1.9     | 1.9     | 1.9     | 17.5    | 48.7    | 40.9    | 11.7    | 5.8     | 5.8     | 9.7     |
| 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°    | 897.1  | 897.1  | 897.1  | 897.1  | 897.1  | 897.1  | 897.1  | 897.1  | 897.1 | 897.1 | 897.1 |
| 2.5°  | 1035.2 | 1029.3 | 1006.0 | 982.6  | 961.2  | 937.8  | 916.4  | 895.1  | 871.7 | 854.2 | 832.8 |
| 5°    | 1210.3 | 1167.4 | 1118.8 | 1072.2 | 1025.4 | 976.8  | 926.2  | 881.5  | 834.8 | 791.9 | 751.0 |
| 7.5°  | 1387.3 | 1303.6 | 1237.5 | 1153.8 | 1078.0 | 1002.1 | 932.0  | 860.1  | 793.9 | 731.6 | 673.3 |
| 10°   | 1537.1 | 1436.0 | 1332.8 | 1225.9 | 1116.8 | 1015.7 | 918.4  | 832.8  | 745.2 | 669.4 | 597.4 |
| 12.5° | 1659.8 | 1531.3 | 1404.9 | 1270.6 | 1148.0 | 1019.6 | 899.0  | 795.8  | 692.6 | 607.1 | 533.1 |
| 15°   | 1770.6 | 1622.8 | 1471.0 | 1315.3 | 1159.7 | 1013.8 | 879.5  | 751.0  | 646.0 | 548.7 | 465.1 |
| 17.5° | 1860.2 | 1690.9 | 1519.6 | 1344.5 | 1177.2 | 1006.0 | 854.2  | 719.9  | 597.4 | 496.1 | 414.5 |
| 20°   | 1938.0 | 1760.9 | 1576.1 | 1379.5 | 1188.9 | 1004.0 | 832.8  | 681.1  | 554.5 | 447.6 | 367.7 |
| 22.5° | 2010.0 | 1832.9 | 1634.5 | 1424.3 | 1206.4 | 1002.1 | 813.3  | 651.9  | 517.5 | 410.6 | 330.7 |
| 25°   | 2091.8 | 1905.0 | 1696.8 | 1471.0 | 1237.5 | 1009.9 | 801.7  | 628.5  | 484.5 | 375.5 | 301.5 |
| 27.5° | 2183.2 | 1986.6 | 1770.6 | 1529.3 | 1278.4 | 1025.4 | 797.8  | 603.2  | 455.3 | 342.4 | 278.3 |
| 30°   | 2311.5 | 2084.0 | 1844.6 | 1587.7 | 1315.3 | 1043.0 | 793.9  | 587.6  | 426.1 | 317.1 | 254.9 |
| 32.5° | 2424.5 | 2179.3 | 1926.3 | 1648.1 | 1356.2 | 1060.5 | 791.9  | 566.2  | 398.9 | 291.9 | 237.4 |
| 35°   | 2543.1 | 2266.9 | 1996.4 | 1706.4 | 1391.2 | 1079.9 | 790.0  | 550.6  | 373.6 | 266.6 | 219.9 |
| 37.5° | 2646.3 | 2340.7 | 2050.9 | 1757.0 | 1430.2 | 1097.5 | 791.9  | 537.0  | 350.2 | 245.2 | 204.3 |
| 40°   | 2733.8 | 2416.7 | 2111.1 | 1803.7 | 1471.0 | 1124.6 | 793.9  | 523.4  | 326.9 | 225.7 | 190.7 |
| 42.5° | 2811.7 | 2488.7 | 2175.4 | 1856.3 | 1517.7 | 1155.8 | 805.6  | 511.7  | 307.4 | 208.2 | 177.1 |
| 45°   | 2872.0 | 2554.8 | 2245.4 | 1930.2 | 1593.6 | 1206.4 | 827.0  | 503.9  | 288.0 | 192.6 | 165.4 |
| 47.5° | 2934.2 | 2652.1 | 2364.1 | 2047.0 | 1704.6 | 1286.2 | 864.0  | 502.1  | 272.4 | 180.9 | 155.6 |
| 50°   | 3019.9 | 2749.4 | 2469.2 | 2165.6 | 1805.7 | 1367.9 | 908.6  | 503.9  | 253.0 | 169.3 | 145.9 |
| 52.5° | 3082.2 | 2848.6 | 2605.4 | 2371.9 | 2047.0 | 1616.9 | 1081.9 | 538.9  | 243.2 | 159.5 | 134.2 |
| 55°   | 3449.9 | 3409.0 | 3414.8 | 3453.8 | 3202.8 | 2751.3 | 1809.6 | 778.3  | 286.1 | 180.9 | 132.3 |
| 57.5° | 4864.5 | 5008.4 | 5092.1 | 5090.2 | 4675.7 | 3878.0 | 2430.3 | 1000.1 | 319.1 | 210.1 | 157.6 |
| 60°   | 6724.6 | 6615.7 | 6462.0 | 6082.5 | 5531.8 | 4426.7 | 2718.2 | 1076.1 | 276.3 | 167.3 | 144.0 |
| 62.5° | 8368.8 | 7730.5 | 7164.3 | 6549.5 | 5827.6 | 4617.3 | 2776.6 | 1070.2 | 241.3 | 126.4 | 101.1 |
| 65°   | 9394.2 | 8246.2 | 7331.7 | 6561.1 | 5710.8 | 4457.8 | 2626.8 | 982.6  | 204.3 | 103.2 | 83.7  |
| 67.5° | 9639.4 | 7967.9 | 6674.1 | 5691.4 | 4771.0 | 3469.4 | 1928.2 | 739.4  | 159.5 | 85.7  | 74.0  |
| 69°   | 9104.2 | 7082.7 | 5529.9 | 4415.0 | 3471.3 | 2301.9 | 1192.8 | 467.0  | 122.5 | 77.9  | 68.1  |
| 70°   | 8374.6 | 6160.3 | 4504.4 | 3543.2 | 2570.4 | 1616.9 | 834.8  | 328.8  | 99.3  | 72.0  | 62.3  |
| 72.5° | 5387.9 | 3235.8 | 2214.3 | 1541.0 | 1060.5 | 644.1  | 326.9  | 147.9  | 75.9  | 60.3  | 50.6  |
| 75°   | 2089.8 | 1196.7 | 867.9  | 659.6  | 515.6  | 358.0  | 198.5  | 95.4   | 64.2  | 50.6  | 38.9  |
| 77.5° | 1029.3 | 788.0  | 644.1  | 441.7  | 256.9  | 159.5  | 107.1  | 74.0   | 52.6  | 37.0  | 25.3  |
| 80°   | 813.3  | 540.9  | 323.0  | 200.4  | 151.7  | 114.9  | 81.8   | 60.3   | 38.9  | 23.4  | 17.5  |
| 82.5° | 416.4  | 227.7  | 167.3  | 136.2  | 112.8  | 89.6   | 66.2   | 42.8   | 25.3  | 15.6  | 13.6  |
| 85°   | 130.3  | 95.4   | 85.7   | 83.7   | 77.9   | 64.2   | 46.7   | 27.3   | 15.6  | 9.7   | 9.7   |
| 87.5° | 9.7    | 13.6   | 17.5   | 13.6   | 15.6   | 13.6   | 17.5   | 11.7   | 7.8   | 7.8   | 5.8   |
| 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):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 | 897.1 |
| 2.5°  | 817.2 | 793.9 | 772.5 | 758.8 | 733.5 | 723.8 | 714.2 | 710.3 | 692.6 | 696.5 | 681.1 |
| 5°    | 714.2 | 673.3 | 642.1 | 611.0 | 581.8 | 560.4 | 542.8 | 521.4 | 503.9 | 496.1 | 480.6 |
| 7.5°  | 620.7 | 568.2 | 527.3 | 494.3 | 459.2 | 432.0 | 408.6 | 393.0 | 377.5 | 361.9 | 354.1 |
| 10°   | 538.9 | 482.6 | 435.9 | 402.8 | 369.7 | 346.3 | 328.8 | 317.1 | 307.4 | 301.5 | 299.7 |
| 12.5° | 463.1 | 408.6 | 365.8 | 336.6 | 311.3 | 299.7 | 291.9 | 286.1 | 284.1 | 282.2 | 282.2 |
| 15°   | 404.7 | 350.2 | 317.1 | 295.8 | 284.1 | 278.3 | 276.3 | 272.4 | 268.6 | 266.6 | 266.6 |
| 17.5° | 350.2 | 309.3 | 286.1 | 274.4 | 268.6 | 264.7 | 260.8 | 256.9 | 253.0 | 251.0 | 251.0 |
| 20°   | 313.2 | 280.2 | 268.6 | 260.8 | 254.9 | 251.0 | 245.2 | 241.3 | 239.4 | 237.4 | 235.5 |
| 22.5° | 284.1 | 262.7 | 254.9 | 249.1 | 241.3 | 235.5 | 231.6 | 227.7 | 223.8 | 221.8 | 219.9 |
| 25°   | 262.7 | 249.1 | 243.2 | 235.5 | 227.7 | 221.8 | 216.0 | 210.1 | 206.3 | 204.3 | 200.4 |
| 27.5° | 247.1 | 237.4 | 229.6 | 219.9 | 212.1 | 206.3 | 200.4 | 194.6 | 190.7 | 186.8 | 184.8 |
| 30°   | 233.5 | 223.8 | 214.0 | 206.3 | 196.5 | 190.7 | 182.9 | 177.1 | 175.1 | 171.2 | 167.3 |
| 32.5° | 219.9 | 210.1 | 200.4 | 190.7 | 180.9 | 173.2 | 169.3 | 161.5 | 157.6 | 155.6 | 151.7 |
| 35°   | 204.3 | 194.6 | 182.9 | 175.1 | 165.4 | 157.6 | 151.7 | 145.9 | 142.0 | 138.1 | 136.2 |
| 37.5° | 190.7 | 179.0 | 167.3 | 157.6 | 149.8 | 142.0 | 136.2 | 130.3 | 126.4 | 122.5 | 120.6 |
| 40°   | 175.1 | 163.4 | 151.7 | 142.0 | 134.2 | 128.4 | 122.5 | 116.7 | 112.8 | 111.0 | 111.0 |
| 42.5° | 161.5 | 147.9 | 136.2 | 128.4 | 122.5 | 114.9 | 108.9 | 103.2 | 101.1 | 99.3  | 101.1 |
| 45°   | 147.9 | 134.2 | 124.5 | 116.7 | 111.0 | 103.2 | 97.2  | 93.3  | 91.5  | 93.3  | 95.4  |
| 47.5° | 136.2 | 122.5 | 112.8 | 107.1 | 101.1 | 95.4  | 89.6  | 85.7  | 85.7  | 89.6  | 93.3  |
| 50°   | 124.5 | 111.0 | 103.2 | 99.3  | 93.3  | 87.6  | 79.8  | 77.9  | 79.8  | 83.7  | 87.6  |
| 52.5° | 112.8 | 97.2  | 91.5  | 89.6  | 83.7  | 77.9  | 72.0  | 70.1  | 72.0  | 75.9  | 74.0  |
| 55°   | 101.1 | 85.7  | 83.7  | 81.8  | 75.9  | 68.1  | 62.3  | 62.3  | 62.3  | 60.3  | 56.5  |
| 57.5° | 97.2  | 75.9  | 74.0  | 72.0  | 66.2  | 58.4  | 54.5  | 50.6  | 48.7  | 42.8  | 40.9  |
| 60°   | 101.1 | 68.1  | 68.1  | 64.2  | 58.4  | 50.6  | 44.8  | 38.9  | 35.0  | 31.1  | 31.1  |
| 62.5° | 81.8  | 62.3  | 60.3  | 56.5  | 48.7  | 40.9  | 35.0  | 29.2  | 27.3  | 25.3  | 25.3  |
| 65°   | 66.2  | 56.5  | 52.6  | 46.7  | 40.9  | 33.1  | 27.3  | 23.4  | 21.4  | 21.4  | 23.4  |
| 67.5° | 60.3  | 50.6  | 44.8  | 38.9  | 33.1  | 25.3  | 21.4  | 19.5  | 19.5  | 21.4  | 21.4  |
| 69°   | 56.5  | 46.7  | 40.9  | 35.0  | 29.2  | 23.4  | 19.5  | 19.5  | 19.5  | 19.5  | 21.4  |
| 70°   | 52.6  | 44.8  | 38.9  | 33.1  | 25.3  | 19.5  | 17.5  | 17.5  | 19.5  | 19.5  | 21.4  |
| 72.5° | 40.9  | 35.0  | 33.1  | 27.3  | 19.5  | 17.5  | 15.6  | 17.5  | 17.5  | 19.5  | 19.5  |
| 75°   | 31.1  | 25.3  | 25.3  | 21.4  | 15.6  | 13.6  | 13.6  | 15.6  | 15.6  | 17.5  | 17.5  |
| 77.5° | 21.4  | 17.5  | 17.5  | 15.6  | 13.6  | 11.7  | 11.7  | 13.6  | 15.6  | 15.6  | 17.5  |
| 80°   | 15.6  | 13.6  | 11.7  | 13.6  | 11.7  | 9.7   | 11.7  | 13.6  | 13.6  | 15.6  | 15.6  |
| 82.5° | 11.7  | 11.7  | 11.7  | 11.7  | 9.7   | 9.7   | 11.7  | 11.7  | 13.6  | 15.6  | 15.6  |
| 85°   | 9.7   | 9.7   | 9.7   | 9.7   | 9.7   | 9.7   | 9.7   | 11.7  | 11.7  | 13.6  | 13.6  |
| 87.5° | 5.8   | 5.8   | 5.8   | 7.8   | 7.8   | 9.7   | 9.7   | 9.7   | 9.7   | 11.7  | 11.7  |
| 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: P165505

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**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 897.1 | 897.1 | 897.1 | 897.1 |
| 2.5°  | 677.2 | 675.2 | 667.4 | 669.4 |
| 5°    | 474.8 | 463.1 | 470.9 | 469.0 |
| 7.5°  | 348.3 | 346.3 | 344.4 | 348.3 |
| 10°   | 297.8 | 297.8 | 295.8 | 297.8 |
| 12.5° | 280.2 | 280.2 | 280.2 | 280.2 |
| 15°   | 266.6 | 266.6 | 264.7 | 264.7 |
| 17.5° | 251.0 | 251.0 | 251.0 | 249.1 |
| 20°   | 235.5 | 233.5 | 233.5 | 233.5 |
| 22.5° | 217.9 | 216.0 | 216.0 | 216.0 |
| 25°   | 200.4 | 198.5 | 198.5 | 198.5 |
| 27.5° | 182.9 | 180.9 | 179.0 | 179.0 |
| 30°   | 165.4 | 163.4 | 161.5 | 161.5 |
| 32.5° | 147.9 | 145.9 | 144.0 | 144.0 |
| 35°   | 132.3 | 132.3 | 130.3 | 128.4 |
| 37.5° | 118.7 | 118.7 | 118.7 | 118.7 |
| 40°   | 108.9 | 111.0 | 111.0 | 111.0 |
| 42.5° | 103.2 | 105.0 | 107.1 | 108.9 |
| 45°   | 99.3  | 103.2 | 105.0 | 105.0 |
| 47.5° | 97.2  | 99.3  | 101.1 | 101.1 |
| 50°   | 89.6  | 87.6  | 87.6  | 87.6  |
| 52.5° | 72.0  | 68.1  | 66.2  | 64.2  |
| 55°   | 52.6  | 50.6  | 46.7  | 46.7  |
| 57.5° | 37.0  | 37.0  | 35.0  | 35.0  |
| 60°   | 29.2  | 29.2  | 27.3  | 29.2  |
| 62.5° | 25.3  | 25.3  | 25.3  | 25.3  |
| 65°   | 23.4  | 23.4  | 23.4  | 23.4  |
| 67.5° | 23.4  | 23.4  | 23.4  | 23.4  |
| 69°   | 21.4  | 21.4  | 21.4  | 21.4  |
| 70°   | 21.4  | 21.4  | 21.4  | 21.4  |
| 72.5° | 19.5  | 19.5  | 19.5  | 19.5  |
| 75°   | 17.5  | 19.5  | 19.5  | 19.5  |
| 77.5° | 17.5  | 17.5  | 17.5  | 17.5  |
| 80°   | 15.6  | 15.6  | 17.5  | 17.5  |
| 82.5° | 15.6  | 15.6  | 15.6  | 15.6  |
| 85°   | 13.6  | 13.6  | 15.6  | 15.6  |
| 87.5° | 11.7  | 11.7  | 13.6  | 13.6  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)