

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: P459540

Luminaire Tested: **GLAN-SA9D-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459540  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46917 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

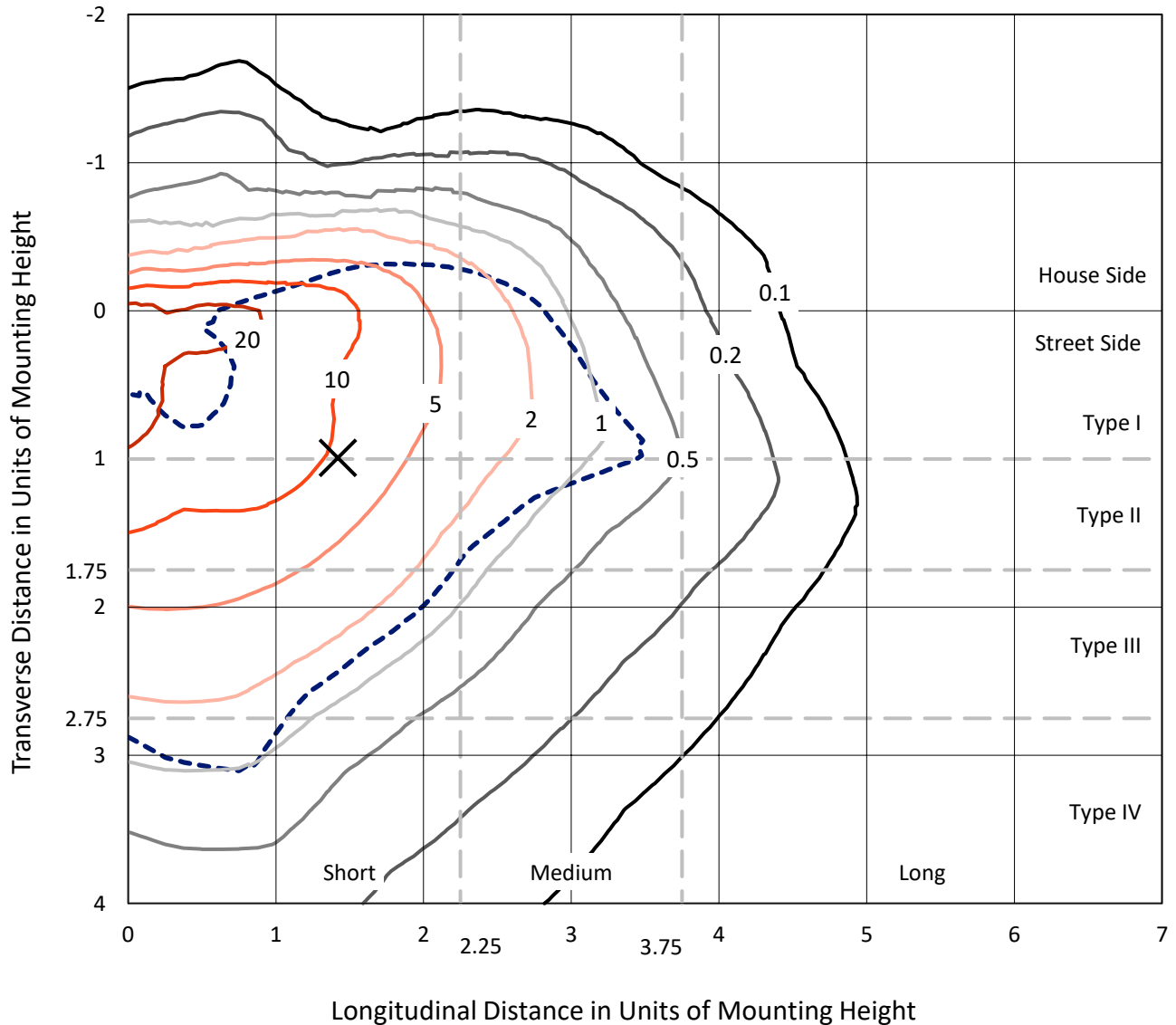
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

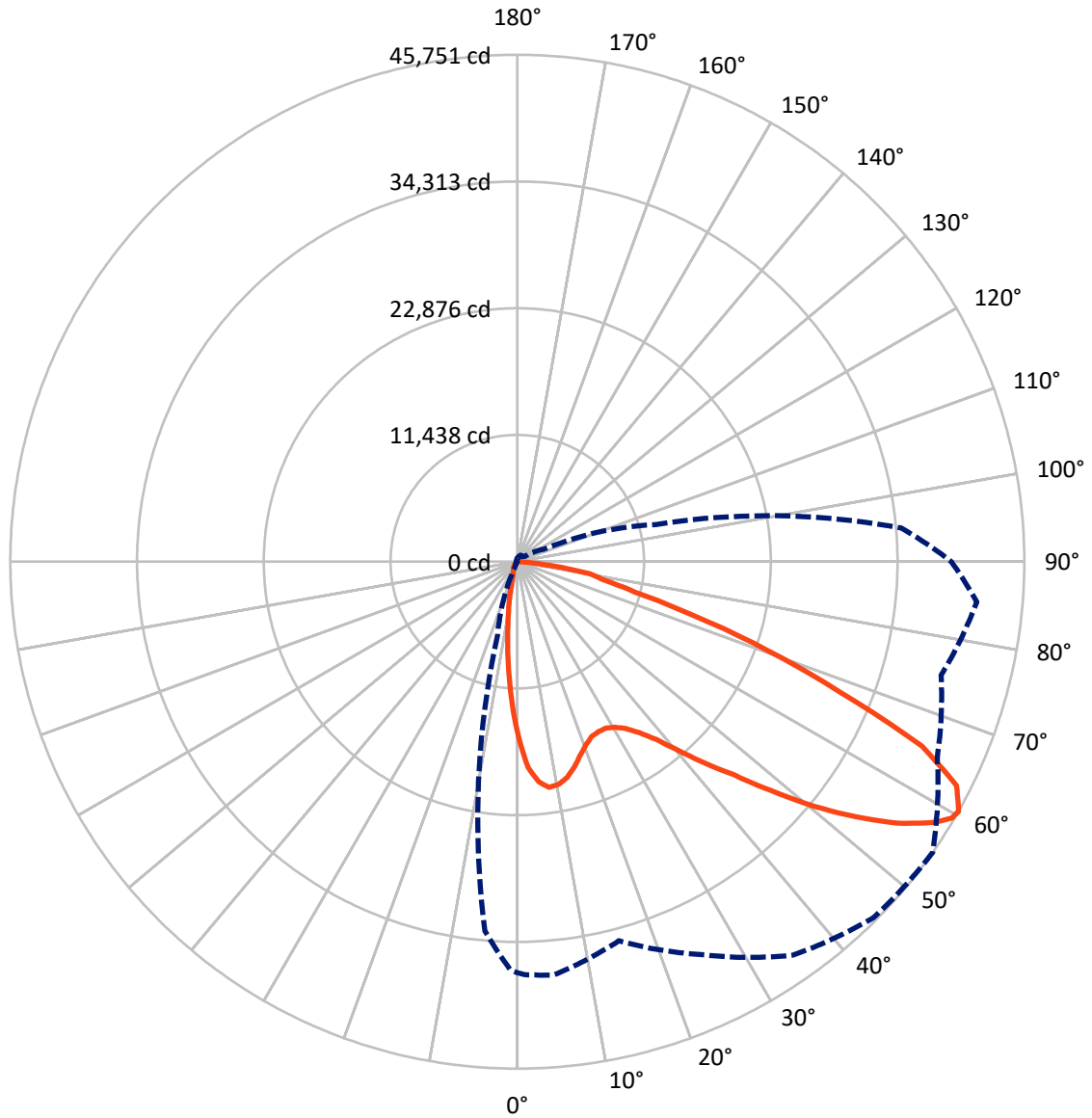
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6962.9   | 0.0    | 6962.9  |
|                    | % Fixture | 14.8     | 0.0    | 14.8    |
| <b>Street Side</b> | Lumens    | 39954.1  | 0.0    | 39954.1 |
|                    | % Fixture | 85.2     | 0.0    | 85.2    |
| <b>Total</b>       | Lumens    | 46917.0  | 0.0    | 46917.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1176.4  | 2.5       |
| 10°-20°   | 2316.6  | 4.9       |
| 20°-30°   | 3428.9  | 7.3       |
| 30°-40°   | 5111.2  | 10.9      |
| 40°-50°   | 7485.4  | 16.0      |
| 50°-60°   | 10806.5 | 23.0      |
| 60°-70°   | 11367.9 | 24.2      |
| 70°-80°   | 4676.4  | 10.0      |
| 80°-90°   | 547.7   | 1.2       |
| 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°    | 46917.0 | 100.0     |
| 0°-180°   | 46917.0 | 100.0     |

**Coefficient of Utilization**



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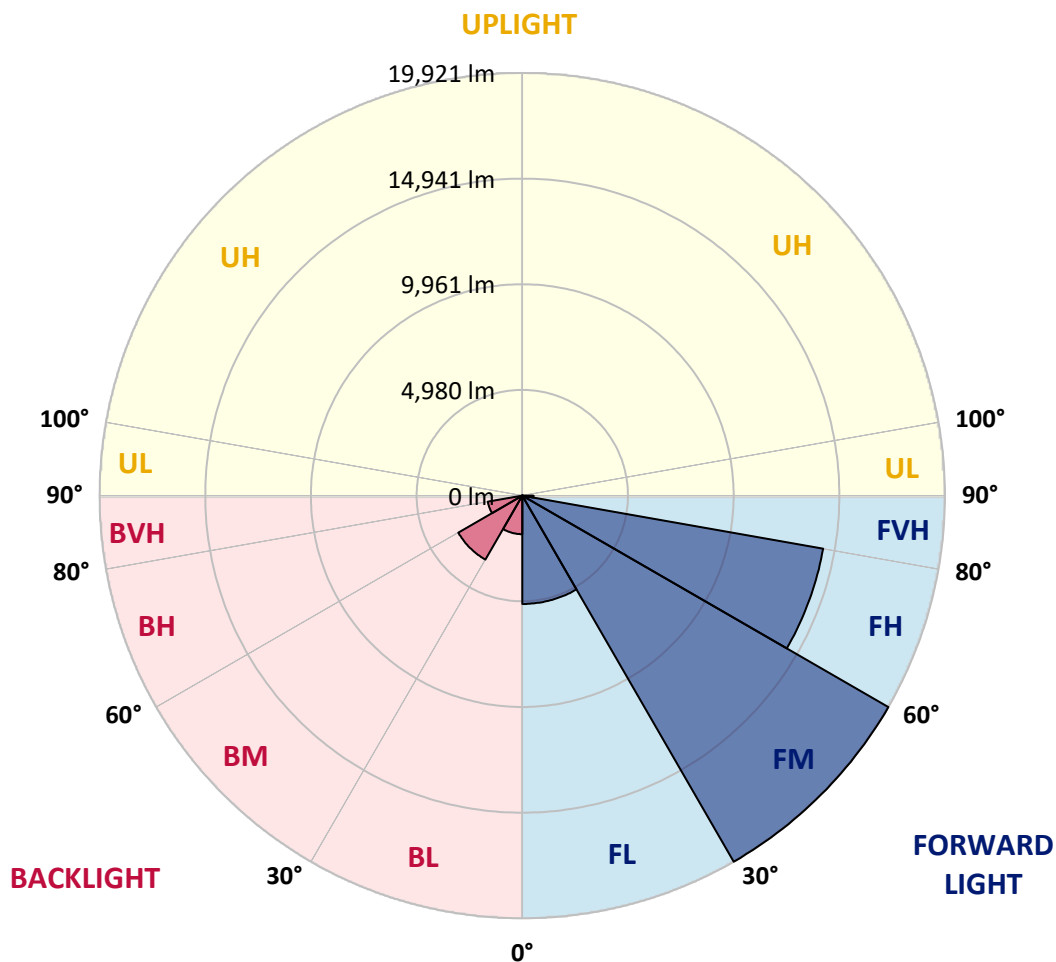
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5105.2  | 10.9      |                         |      |         |
| FM   | (30°-60°)   | 19921.0 | 42.5      |                         |      |         |
| FH   | (60°-80°)   | 14396.3 | 30.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 531.6   | 1.1       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1816.6  | 3.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3482.1  | 7.4       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1648.1  | 3.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 16.1    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 |
| 2.5°  | 17355.8 | 17326.9 | 17583.3 | 18002.2 | 18424.7 | 18645.0 | 18601.6 | 18583.6 | 18233.3 | 17976.9 | 17438.8 |
| 5°    | 17319.6 | 17467.7 | 17926.3 | 19060.3 | 19919.8 | 20335.0 | 20457.8 | 19941.4 | 19258.9 | 18269.4 | 17048.8 |
| 7.5°  | 16283.2 | 16467.4 | 17214.9 | 18988.0 | 20515.6 | 21418.4 | 21385.9 | 20558.9 | 19150.6 | 17619.4 | 15878.7 |
| 10°   | 14997.6 | 15214.3 | 16091.8 | 18244.1 | 20226.7 | 21418.4 | 21483.4 | 20436.2 | 18684.7 | 16720.2 | 14889.3 |
| 12.5° | 14091.2 | 14347.6 | 15319.0 | 17550.8 | 19482.8 | 20656.5 | 20732.3 | 19973.9 | 18334.4 | 16373.5 | 14351.2 |
| 15°   | 13784.2 | 14026.2 | 15012.0 | 17200.5 | 18691.9 | 19323.9 | 19305.8 | 19226.4 | 18197.2 | 16456.5 | 14380.1 |
| 17.5° | 14311.5 | 14510.1 | 15622.3 | 17359.4 | 17951.6 | 17886.6 | 17980.5 | 18363.3 | 18226.1 | 17153.5 | 15290.1 |
| 20°   | 15672.9 | 15875.1 | 17070.5 | 17846.9 | 17384.6 | 16973.0 | 17016.3 | 17655.5 | 18493.3 | 18464.4 | 16712.9 |
| 22.5° | 17547.1 | 17890.2 | 18973.6 | 18793.0 | 17308.8 | 16406.0 | 16315.7 | 17146.3 | 18948.3 | 19973.9 | 18634.1 |
| 25°   | 19919.8 | 20266.4 | 21111.5 | 20302.5 | 17680.8 | 16272.4 | 16189.3 | 16991.0 | 19500.8 | 21447.3 | 20797.3 |
| 27.5° | 21913.2 | 22176.8 | 23018.2 | 21772.3 | 18229.7 | 16330.2 | 16192.9 | 17012.7 | 19948.6 | 22700.4 | 22621.0 |
| 30°   | 23509.4 | 23704.4 | 24199.1 | 22458.5 | 18702.8 | 16582.9 | 16424.0 | 17330.5 | 20147.3 | 23310.7 | 24098.0 |
| 32.5° | 24795.0 | 25123.6 | 25278.9 | 23191.6 | 19381.7 | 17059.6 | 16788.8 | 17940.8 | 20631.2 | 24065.5 | 25647.2 |
| 35°   | 26264.7 | 26643.9 | 26445.3 | 23892.1 | 20277.3 | 17803.5 | 17471.3 | 18930.3 | 21364.3 | 24762.5 | 27445.6 |
| 37.5° | 28128.2 | 28565.1 | 27788.7 | 24628.8 | 21223.4 | 18923.0 | 18767.8 | 20320.6 | 22476.5 | 25759.2 | 29374.1 |
| 40°   | 30056.6 | 30309.4 | 29092.4 | 25524.4 | 22386.2 | 20551.7 | 20699.8 | 22386.2 | 23931.9 | 26954.5 | 31425.3 |
| 42.5° | 31562.5 | 31800.8 | 30432.2 | 26275.6 | 23574.4 | 22483.8 | 23101.3 | 24878.0 | 25600.3 | 28178.7 | 32956.4 |
| 45°   | 32714.5 | 32916.7 | 31360.2 | 27095.3 | 25177.8 | 25282.5 | 26448.9 | 27445.6 | 27272.3 | 28926.3 | 34137.3 |
| 47.5° | 33610.1 | 33783.4 | 32075.3 | 27976.5 | 27579.3 | 28706.0 | 30489.9 | 30912.5 | 29005.7 | 29735.2 | 35206.2 |
| 50°   | 33978.4 | 34029.0 | 32299.2 | 29099.6 | 30305.8 | 33068.4 | 34928.2 | 34671.8 | 30991.9 | 30634.4 | 36343.8 |
| 52.5° | 34458.7 | 34447.9 | 32938.4 | 30168.5 | 32869.8 | 36968.5 | 38824.7 | 38243.3 | 33238.1 | 31981.4 | 37622.2 |
| 55°   | 35719.0 | 35733.5 | 34307.0 | 31685.3 | 35054.6 | 40117.6 | 42103.8 | 41681.3 | 35607.1 | 34256.5 | 39113.6 |
| 57.5° | 37250.2 | 37304.4 | 36253.5 | 33458.4 | 37141.9 | 42399.9 | 44552.2 | 44389.7 | 38810.3 | 36788.0 | 40522.0 |
| 59°   | 37448.8 | 37557.2 | 37174.4 | 34707.9 | 38380.6 | 43100.5 | 45390.0 | 45548.9 | 40525.6 | 38456.4 | 41284.0 |
| 60°   | 37087.7 | 37268.3 | 37441.6 | 35415.7 | 39106.4 | 43353.3 | 45440.6 | 45751.1 | 41814.9 | 39590.3 | 41630.7 |
| 62.5° | 35513.2 | 35798.5 | 36668.8 | 37593.3 | 40012.8 | 42566.0 | 43826.3 | 44476.4 | 43411.0 | 42569.6 | 41663.2 |
| 65°   | 33451.2 | 33599.2 | 34856.0 | 37979.7 | 38254.2 | 38889.7 | 39279.8 | 40114.0 | 41493.5 | 43718.0 | 40171.7 |
| 67.5° | 30071.0 | 30508.0 | 32046.4 | 35737.1 | 33064.8 | 32313.6 | 32216.1 | 31385.5 | 34967.9 | 40980.7 | 36495.5 |
| 70°   | 24841.9 | 25036.9 | 26932.8 | 29298.2 | 24953.9 | 23798.3 | 24260.5 | 23949.9 | 27106.2 | 35278.5 | 29374.1 |
| 72.5° | 18785.8 | 19226.4 | 21079.0 | 23354.1 | 16980.2 | 15481.5 | 16756.3 | 16640.7 | 20360.3 | 28352.1 | 20179.8 |
| 75°   | 13365.3 | 13650.6 | 16012.4 | 18276.6 | 11891.9 | 10075.4 | 10534.1 | 10963.8 | 14213.9 | 22386.2 | 11924.4 |
| 77.5° | 9183.5  | 9429.0  | 11202.2 | 12086.9 | 8674.3  | 8309.5  | 7601.7  | 8017.0  | 9313.5  | 13282.2 | 6489.4  |
| 80°   | 5539.7  | 5528.9  | 6695.3  | 6912.0  | 6041.7  | 7016.7  | 5886.4  | 6608.6  | 5630.0  | 5684.1  | 2513.4  |
| 82.5° | 3596.8  | 3560.7  | 4095.2  | 4463.5  | 3362.1  | 3535.4  | 2372.6  | 3419.9  | 3669.0  | 1585.3  | 794.5   |
| 85°   | 1610.6  | 1679.2  | 1968.1  | 2596.5  | 1473.4  | 783.6   | 483.9   | 1050.9  | 1563.7  | 798.1   | 0.0     |
| 87.5° | 166.1   | 130.0   | 346.7   | 632.0   | 202.2   | 21.7    | 72.2    | 36.1    | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 |
| 2.5°  | 17189.6 | 16980.2 | 16355.4 | 15770.4 | 15268.4 | 14654.5 | 14257.3 | 13632.5 | 13253.4 | 13137.8 | 13155.8 |
| 5°    | 16499.9 | 15896.8 | 14708.7 | 13758.9 | 12700.8 | 12097.7 | 11180.5 | 10299.3 | 9822.6  | 9645.7  | 9566.2  |
| 7.5°  | 15055.4 | 14409.0 | 12975.3 | 11483.8 | 10349.9 | 9291.8  | 8609.3  | 7832.8  | 7302.0  | 6865.0  | 6789.2  |
| 10°   | 13982.8 | 13134.2 | 11357.4 | 9754.0  | 8858.4  | 8064.0  | 7381.4  | 6605.0  | 5980.3  | 5481.9  | 5344.7  |
| 12.5° | 13340.0 | 12390.3 | 10407.7 | 9064.3  | 8215.6  | 7399.5  | 6511.1  | 5611.9  | 4972.7  | 4434.6  | 4185.5  |
| 15°   | 13224.5 | 12123.0 | 10140.4 | 8569.5  | 7522.3  | 6536.4  | 5355.5  | 4384.1  | 3726.8  | 3217.6  | 3062.4  |
| 17.5° | 13921.4 | 12603.3 | 10100.7 | 8053.1  | 6615.8  | 5218.3  | 3990.5  | 3185.1  | 2444.8  | 2159.5  | 2047.6  |
| 20°   | 15163.7 | 13452.0 | 10097.1 | 7453.7  | 5684.1  | 4019.3  | 2802.3  | 2076.5  | 1776.7  | 1639.5  | 1574.5  |
| 22.5° | 16857.4 | 14607.6 | 10288.5 | 6937.2  | 4716.3  | 2964.9  | 2000.6  | 1654.0  | 1480.6  | 1368.7  | 1343.4  |
| 25°   | 18926.7 | 16319.3 | 10758.0 | 6587.0  | 3976.0  | 2325.7  | 1650.3  | 1415.6  | 1271.2  | 1220.6  | 1198.9  |
| 27.5° | 20764.8 | 17958.8 | 11274.4 | 6225.8  | 3445.1  | 2058.4  | 1531.2  | 1296.4  | 1180.9  | 1141.2  | 1108.7  |
| 30°   | 22350.1 | 19446.7 | 11523.6 | 5749.1  | 3019.0  | 1885.1  | 1552.8  | 1386.7  | 1235.1  | 1115.9  | 1061.7  |
| 32.5° | 23671.9 | 20587.8 | 11686.1 | 5315.8  | 2657.9  | 1542.0  | 1227.8  | 1072.5  | 1003.9  | 960.6   | 924.5   |
| 35°   | 25325.8 | 21822.9 | 11588.6 | 5070.2  | 2473.7  | 1404.8  | 1119.5  | 924.5   | 808.9   | 722.3   | 686.1   |
| 37.5° | 27059.2 | 23057.9 | 11418.8 | 4868.0  | 2390.7  | 1303.7  | 1065.3  | 877.5   | 751.1   | 660.9   | 613.9   |
| 40°   | 28854.0 | 24202.7 | 11220.2 | 4680.2  | 2314.8  | 1238.7  | 1032.8  | 837.8   | 711.4   | 613.9   | 563.4   |
| 42.5° | 30497.2 | 25318.6 | 11140.8 | 4557.4  | 2192.0  | 1249.5  | 1007.5  | 819.8   | 671.7   | 570.6   | 527.2   |
| 45°   | 31826.1 | 26376.7 | 11249.1 | 4492.4  | 2058.4  | 1231.4  | 1014.8  | 798.1   | 639.2   | 541.7   | 498.4   |
| 47.5° | 33245.3 | 27871.8 | 11599.4 | 4427.4  | 1928.4  | 1144.8  | 1068.9  | 794.5   | 624.7   | 523.6   | 476.7   |
| 50°   | 34895.7 | 29785.7 | 12401.1 | 4268.5  | 1769.5  | 1050.9  | 1137.5  | 790.9   | 606.7   | 502.0   | 455.0   |
| 52.5° | 37094.9 | 31959.7 | 13228.1 | 3990.5  | 1538.4  | 960.6   | 1087.0  | 780.0   | 570.6   | 476.7   | 429.7   |
| 55°   | 39070.3 | 34249.3 | 13928.7 | 3661.8  | 1245.9  | 830.6   | 978.7   | 733.1   | 509.2   | 433.4   | 390.0   |
| 57.5° | 39886.5 | 35542.1 | 13907.0 | 3206.8  | 996.7   | 729.5   | 805.3   | 671.7   | 444.2   | 382.8   | 346.7   |
| 59°   | 39586.7 | 35379.6 | 13441.1 | 2871.0  | 910.0   | 675.3   | 668.1   | 664.5   | 415.3   | 346.7   | 317.8   |
| 60°   | 39164.2 | 34787.3 | 12939.2 | 2704.8  | 855.9   | 639.2   | 613.9   | 657.3   | 390.0   | 325.0   | 296.1   |
| 62.5° | 37546.3 | 32331.7 | 11274.4 | 2423.2  | 783.6   | 541.7   | 491.1   | 556.1   | 346.7   | 281.7   | 256.4   |
| 65°   | 35202.6 | 28557.9 | 9544.6  | 2343.7  | 762.0   | 447.8   | 408.1   | 397.2   | 296.1   | 238.3   | 216.7   |
| 67.5° | 30630.8 | 24166.6 | 7731.7  | 2289.5  | 769.2   | 375.6   | 357.5   | 299.7   | 245.6   | 198.6   | 184.2   |
| 70°   | 24524.1 | 18843.6 | 6330.6  | 2228.2  | 776.4   | 307.0   | 299.7   | 238.3   | 198.6   | 166.1   | 151.7   |
| 72.5° | 14900.1 | 11169.7 | 4983.5  | 1935.6  | 754.8   | 245.6   | 267.2   | 180.6   | 144.5   | 119.2   | 111.9   |
| 75°   | 9212.3  | 7645.1  | 3091.2  | 1505.9  | 498.4   | 180.6   | 187.8   | 111.9   | 97.5    | 75.8    | 75.8    |
| 77.5° | 5337.5  | 4828.3  | 1105.0  | 541.7   | 220.3   | 108.3   | 83.1    | 57.8    | 54.2    | 32.5    | 32.5    |
| 80°   | 2213.7  | 1773.1  | 382.8   | 184.2   | 119.2   | 50.6    | 18.1    | 3.6     | 0.0     | 0.0     | 0.0     |
| 82.5° | 646.4   | 574.2   | 104.7   | 83.1    | 36.1    | 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     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 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     | 0.0     | 0.0     | 0.0     | 0.0     |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 | 15886.0 |
| 2.5°  | 12848.9 | 12729.7 | 12675.5 | 12859.7 | 12690.0 | 12906.7 | 12740.6 | 12812.8 | 13025.8 | 13119.7 | 13361.7 |
| 5°    | 9616.8  | 9494.0  | 9436.2  | 9714.3  | 9699.9  | 9837.1  | 9822.6  | 9949.0  | 10057.4 | 9815.4  | 10064.6 |
| 7.5°  | 6698.9  | 6615.8  | 6753.1  | 6969.7  | 7200.9  | 7125.0  | 7125.0  | 6955.3  | 7013.1  | 6977.0  | 6966.1  |
| 10°   | 5095.5  | 4810.2  | 4738.0  | 4730.8  | 4817.4  | 4835.5  | 4738.0  | 4503.3  | 4589.9  | 4615.2  | 4766.9  |
| 12.5° | 4008.5  | 3788.2  | 3452.4  | 3300.7  | 3261.0  | 3293.5  | 2972.1  | 2766.2  | 2863.7  | 2806.0  | 2954.0  |
| 15°   | 2874.6  | 2694.0  | 2495.4  | 2325.7  | 2278.7  | 2213.7  | 1863.4  | 1617.8  | 1589.0  | 1599.8  | 1625.1  |
| 17.5° | 2051.2  | 1928.4  | 1928.4  | 1747.9  | 1650.3  | 1455.3  | 1278.4  | 1170.1  | 1159.2  | 1170.1  | 1188.1  |
| 20°   | 1513.1  | 1448.1  | 1440.9  | 1393.9  | 1285.6  | 1155.6  | 1032.8  | 1011.2  | 1003.9  | 1022.0  | 1029.2  |
| 22.5° | 1303.7  | 1235.1  | 1177.3  | 1173.7  | 1072.5  | 964.2   | 906.4   | 877.5   | 881.1   | 888.4   | 906.4   |
| 25°   | 1166.4  | 1094.2  | 1032.8  | 996.7   | 924.5   | 848.6   | 794.5   | 780.0   | 780.0   | 790.9   | 794.5   |
| 27.5° | 1068.9  | 978.7   | 924.5   | 873.9   | 808.9   | 743.9   | 697.0   | 686.1   | 678.9   | 686.1   | 704.2   |
| 30°   | 1000.3  | 910.0   | 841.4   | 765.6   | 715.0   | 653.6   | 613.9   | 599.5   | 595.9   | 599.5   | 613.9   |
| 32.5° | 855.9   | 801.7   | 747.5   | 678.9   | 617.5   | 577.8   | 534.5   | 509.2   | 509.2   | 516.4   | 530.9   |
| 35°   | 646.4   | 617.5   | 613.9   | 595.9   | 545.3   | 502.0   | 451.4   | 426.1   | 426.1   | 440.6   | 447.8   |
| 37.5° | 570.6   | 516.4   | 509.2   | 502.0   | 480.3   | 422.5   | 375.6   | 353.9   | 350.3   | 361.1   | 375.6   |
| 40°   | 520.0   | 458.6   | 426.1   | 418.9   | 422.5   | 357.5   | 307.0   | 285.3   | 285.3   | 288.9   | 303.3   |
| 42.5° | 480.3   | 408.1   | 350.3   | 343.1   | 357.5   | 299.7   | 249.2   | 227.5   | 227.5   | 227.5   | 245.6   |
| 45°   | 447.8   | 364.7   | 296.1   | 260.0   | 281.7   | 245.6   | 202.2   | 180.6   | 173.3   | 180.6   | 187.8   |
| 47.5° | 426.1   | 332.2   | 260.0   | 209.5   | 209.5   | 195.0   | 162.5   | 137.2   | 130.0   | 133.6   | 144.5   |
| 50°   | 408.1   | 303.3   | 220.3   | 169.7   | 151.7   | 155.3   | 122.8   | 104.7   | 97.5    | 97.5    | 108.3   |
| 52.5° | 379.2   | 274.5   | 191.4   | 144.5   | 115.6   | 104.7   | 90.3    | 75.8    | 72.2    | 75.8    | 83.1    |
| 55°   | 343.1   | 249.2   | 166.1   | 119.2   | 90.3    | 72.2    | 65.0    | 54.2    | 50.6    | 54.2    | 65.0    |
| 57.5° | 303.3   | 209.5   | 133.6   | 93.9    | 61.4    | 46.9    | 43.3    | 36.1    | 28.9    | 32.5    | 39.7    |
| 59°   | 278.1   | 187.8   | 115.6   | 75.8    | 46.9    | 32.5    | 32.5    | 25.3    | 18.1    | 21.7    | 32.5    |
| 60°   | 267.2   | 173.3   | 97.5    | 65.0    | 39.7    | 25.3    | 25.3    | 18.1    | 10.8    | 14.4    | 25.3    |
| 62.5° | 227.5   | 144.5   | 75.8    | 39.7    | 18.1    | 3.6     | 10.8    | 3.6     | 0.0     | 3.6     | 10.8    |
| 65°   | 191.4   | 115.6   | 50.6    | 18.1    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.6     |
| 67.5° | 158.9   | 86.7    | 25.3    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70°   | 126.4   | 57.8    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 86.7    | 32.5    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 54.2    | 10.8    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 21.7    | 0.0     | 0.0     | 0.0     | 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     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 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     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 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     | 0.0     | 0.0     | 0.0     | 0.0     |



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| 25°   | 837.8   | 928.1   | 1058.1  | 1256.7  | 1975.4  | 5167.7  | 10721.9 | 17074.1 | 19280.6 | 19919.8 |
| 27.5° | 743.9   | 827.0   | 938.9   | 1108.7  | 1520.3  | 4116.8  | 11122.7 | 18973.6 | 21393.1 | 21913.2 |
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| 35°   | 487.5   | 556.1   | 642.8   | 740.3   | 899.2   | 1953.7  | 10479.9 | 23227.7 | 25975.8 | 26264.7 |
| 37.5° | 418.9   | 476.7   | 567.0   | 642.8   | 812.5   | 1563.7  | 9627.6  | 24462.7 | 27712.9 | 28128.2 |
| 40°   | 353.9   | 411.7   | 502.0   | 570.6   | 747.5   | 1231.4  | 8858.4  | 25835.0 | 29543.8 | 30056.6 |
| 42.5° | 288.9   | 357.5   | 437.0   | 548.9   | 642.8   | 938.9   | 7926.7  | 26947.3 | 30919.7 | 31562.5 |
| 45°   | 231.1   | 307.0   | 393.6   | 545.3   | 559.7   | 715.0   | 7027.5  | 27814.0 | 32136.7 | 32714.5 |
| 47.5° | 184.2   | 260.0   | 379.2   | 509.2   | 458.6   | 567.0   | 6514.7  | 28720.4 | 33147.8 | 33610.1 |
| 50°   | 148.1   | 216.7   | 397.2   | 447.8   | 382.8   | 480.3   | 6500.3  | 29731.6 | 33671.5 | 33978.4 |
| 52.5° | 119.2   | 177.0   | 335.8   | 343.1   | 325.0   | 422.5   | 6890.3  | 30869.1 | 34205.9 | 34458.7 |
| 55°   | 101.1   | 148.1   | 220.3   | 252.8   | 292.5   | 382.8   | 7182.8  | 32620.6 | 35480.7 | 35719.0 |
| 57.5° | 79.4    | 126.4   | 169.7   | 202.2   | 260.0   | 350.3   | 7222.5  | 33971.2 | 37094.9 | 37250.2 |
| 59°   | 68.6    | 108.3   | 151.7   | 180.6   | 238.3   | 328.6   | 7060.0  | 34054.3 | 37199.7 | 37448.8 |
| 60°   | 57.8    | 97.5    | 133.6   | 169.7   | 220.3   | 310.6   | 6883.1  | 33451.2 | 36809.7 | 37087.7 |
| 62.5° | 43.3    | 75.8    | 97.5    | 137.2   | 180.6   | 267.2   | 6045.3  | 31345.8 | 35318.2 | 35513.2 |
| 65°   | 28.9    | 54.2    | 72.2    | 101.1   | 140.8   | 231.1   | 4925.8  | 28615.7 | 33014.2 | 33451.2 |
| 67.5° | 18.1    | 39.7    | 57.8    | 75.8    | 115.6   | 195.0   | 3510.2  | 24538.6 | 29789.3 | 30071.0 |
| 70°   | 10.8    | 25.3    | 43.3    | 61.4    | 90.3    | 155.3   | 2083.7  | 19396.1 | 24784.1 | 24841.9 |
| 72.5° | 7.2     | 18.1    | 28.9    | 43.3    | 72.2    | 140.8   | 1011.2  | 12643.0 | 18096.1 | 18785.8 |
| 75°   | 3.6     | 10.8    | 18.1    | 32.5    | 57.8    | 115.6   | 483.9   | 8446.8  | 13166.7 | 13365.3 |
| 77.5° | 0.0     | 3.6     | 10.8    | 21.7    | 43.3    | 90.3    | 281.7   | 5546.9  | 8977.6  | 9183.5  |
| 80°   | 0.0     | 0.0     | 7.2     | 18.1    | 32.5    | 57.8    | 169.7   | 3271.8  | 5438.6  | 5539.7  |
| 82.5° | 0.0     | 0.0     | 3.6     | 14.4    | 21.7    | 43.3    | 86.7    | 1437.3  | 3560.7  | 3596.8  |
| 85°   | 0.0     | 0.0     | 3.6     | 14.4    | 18.1    | 28.9    | 32.5    | 195.0   | 1581.7  | 1610.6  |
| 87.5° | 0.0     | 0.0     | 3.6     | 18.1    | 18.1    | 18.1    | 18.1    | 10.8    | 133.6   | 166.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)