

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: P637643

Luminaire Tested: **IFLD-S-SA3C-740-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637643  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-740-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19897.1 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 160.8  
Input Voltage (V): 120  
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



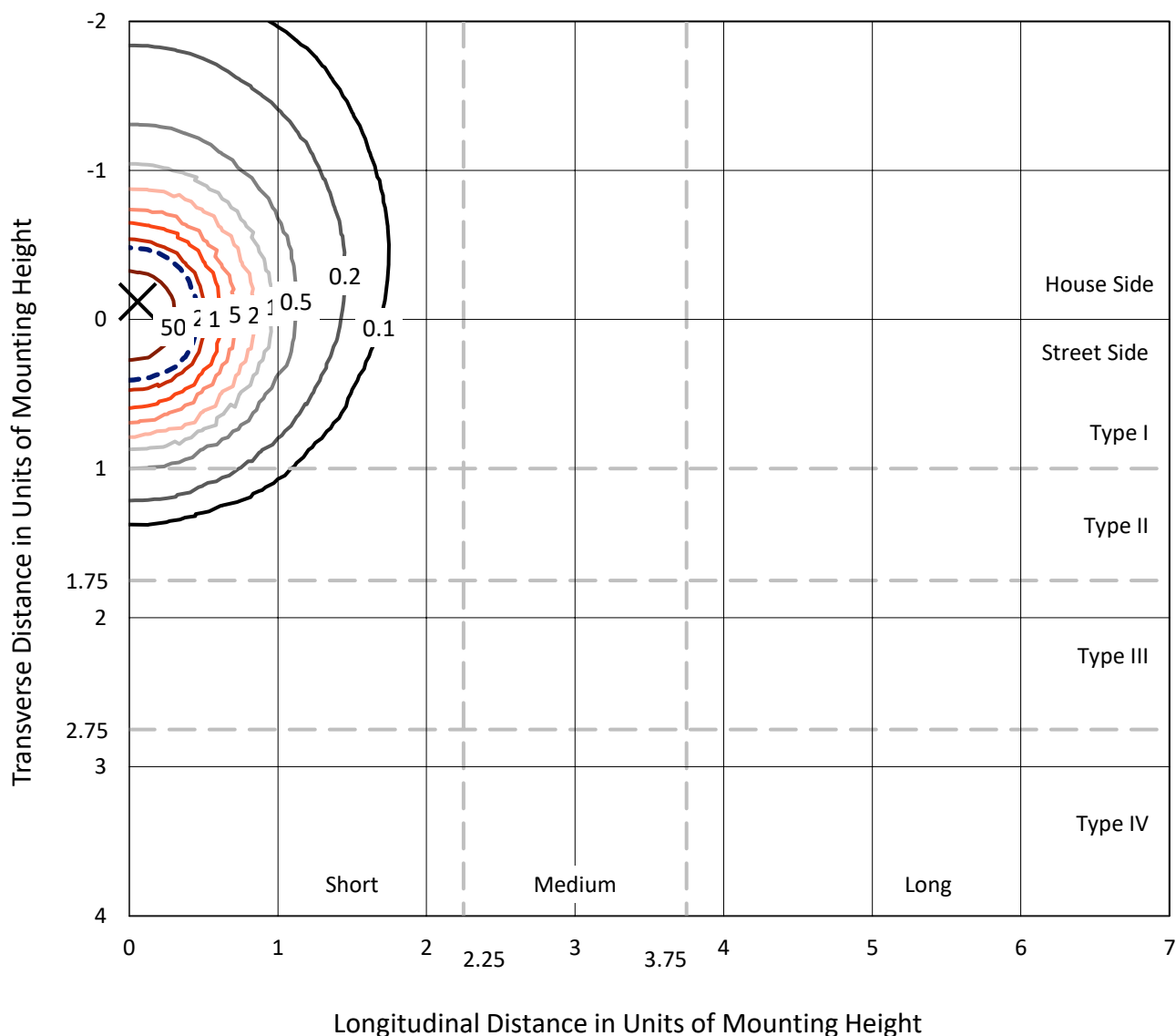
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

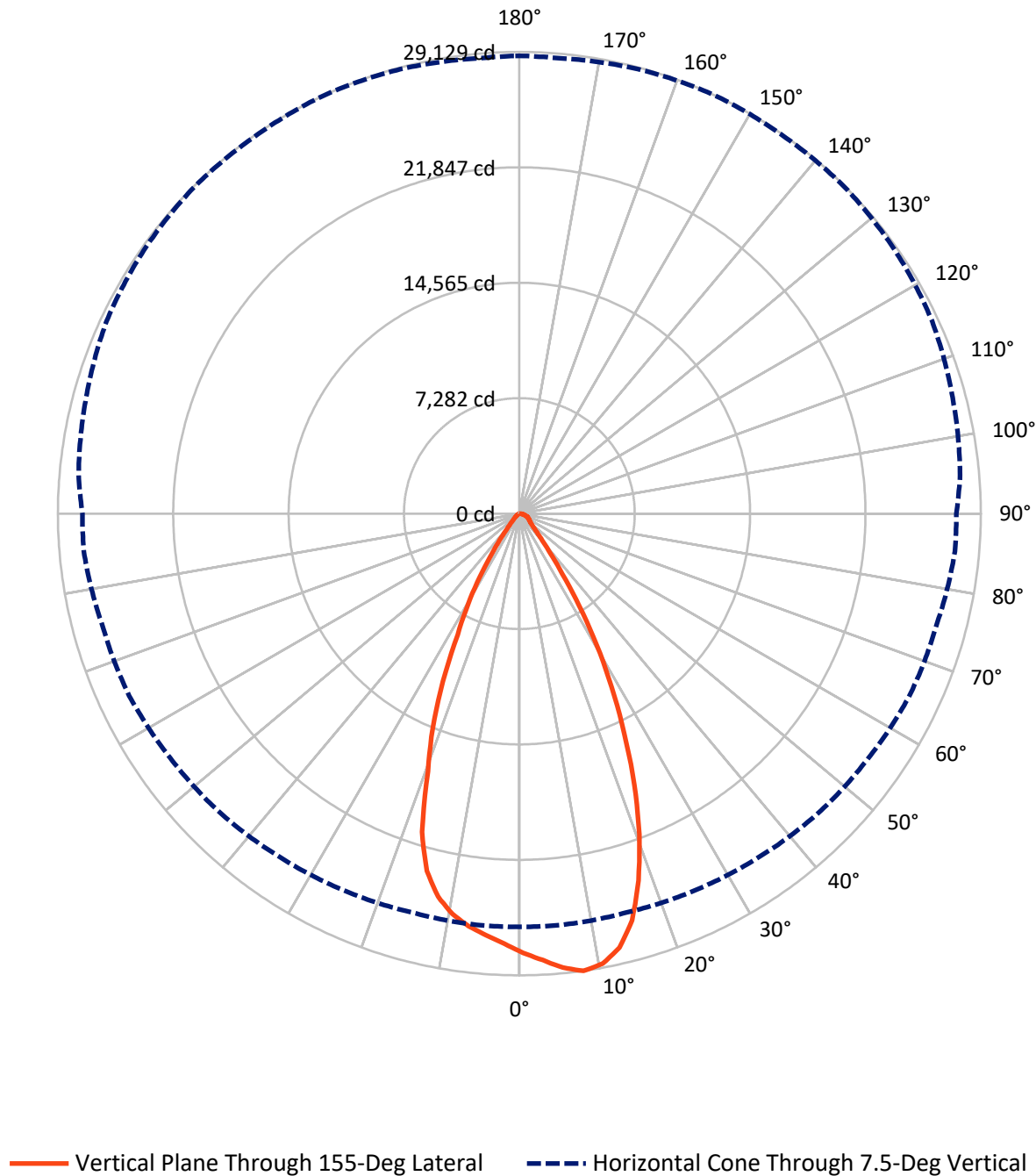


Based on 20 foot mounting height. Maximum calculated value = 70.4 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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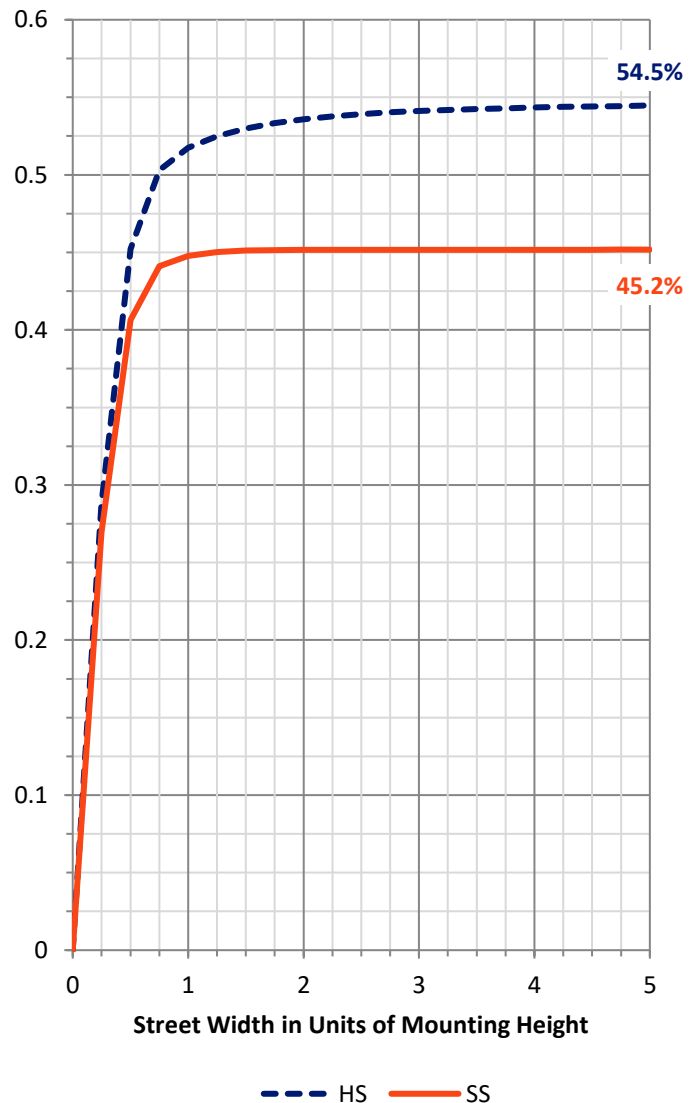
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10983.9  | 0.0    | 10983.9 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 8913.2   | 0.0    | 8913.2  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 19897.1  | 0.0    | 19897.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2643.1  | 13.3      |
| 10°-20°   | 6853.6  | 34.4      |
| 20°-30°   | 6279.8  | 31.6      |
| 30°-40°   | 2537.0  | 12.8      |
| 40°-50°   | 744.3   | 3.7       |
| 50°-60°   | 416.1   | 2.1       |
| 60°-70°   | 252.7   | 1.3       |
| 70°-80°   | 128.4   | 0.6       |
| 80°-90°   | 42.0    | 0.2       |
| 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°    | 19897.1 | 100.0     |
| 0°-180°   | 19897.1 | 100.0     |

**Coefficient of Utilization**



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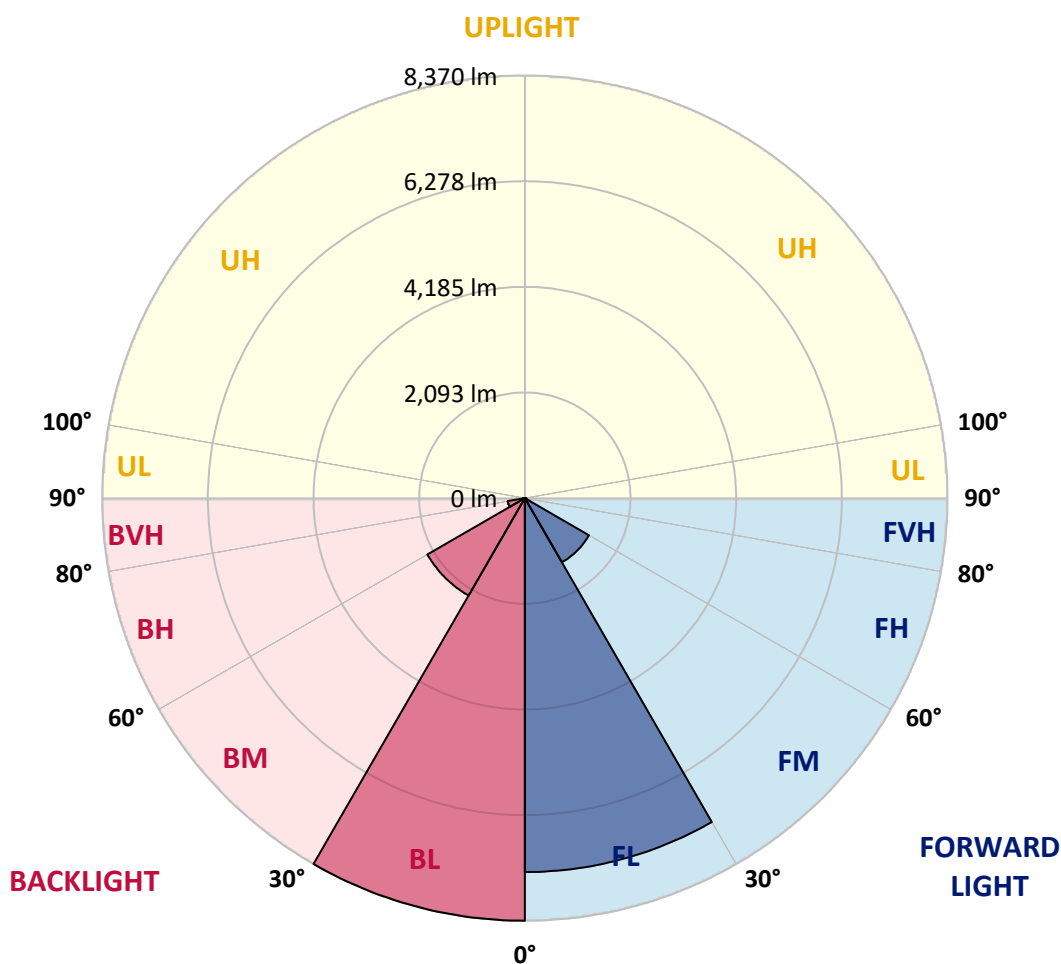
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 7406.2 | 37.2      |                         |      |        |
| FM   | (30°-60°)   | 1467.8 | 7.4       |                         |      |        |
| FH   | (60°-80°)   | 35.6   | 0.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.6    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 8370.3 | 42.1      | B5                      |      |        |
| BM   | (30°-60°)   | 2229.6 | 11.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 345.6  | 1.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 38.4   | 0.2       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 |
| 2.5°  | 27117.1 | 27208.9 | 27025.3 | 27146.9 | 27241.0 | 27465.8 | 27484.2 | 27562.2 | 27589.7 | 27793.9 |
| 5°    | 26603.2 | 26674.3 | 26525.1 | 26688.0 | 26821.1 | 27020.7 | 27174.5 | 27390.1 | 27509.4 | 27750.3 |
| 7.5°  | 26068.6 | 26084.6 | 26054.8 | 26226.9 | 26426.5 | 26701.8 | 26892.2 | 27174.5 | 27247.9 | 27592.0 |
| 10°   | 25421.6 | 25304.5 | 25361.9 | 25614.3 | 25912.6 | 26334.7 | 26465.5 | 26747.7 | 26878.5 | 27229.5 |
| 12.5° | 24389.1 | 24448.7 | 24377.6 | 24698.8 | 24946.6 | 25426.1 | 25563.8 | 25848.3 | 26098.4 | 26408.1 |
| 15°   | 22934.5 | 22900.1 | 23044.6 | 23294.7 | 23563.1 | 23944.0 | 24166.5 | 24476.3 | 24666.7 | 24987.9 |
| 17.5° | 19665.0 | 19782.0 | 20378.5 | 21004.9 | 21555.6 | 22000.7 | 22266.8 | 22523.8 | 22661.4 | 23010.2 |
| 20°   | 16982.9 | 16836.0 | 16916.4 | 17269.7 | 18836.7 | 19518.2 | 19798.1 | 19860.0 | 19917.4 | 20192.7 |
| 22.5° | 13984.2 | 13936.0 | 14204.4 | 14601.3 | 14973.0 | 16544.7 | 16925.5 | 16781.0 | 16900.3 | 17159.6 |
| 25°   | 10384.3 | 10627.5 | 10866.1 | 11627.8 | 12109.7 | 12880.6 | 13603.3 | 13667.5 | 13711.1 | 13874.0 |
| 27.5° | 8452.4  | 8367.5  | 8363.0  | 8576.3  | 9287.6  | 9930.0  | 10544.9 | 10687.2 | 10661.9 | 10817.9 |
| 30°   | 6644.5  | 6616.9  | 6520.6  | 6571.1  | 6499.9  | 7071.2  | 7360.3  | 7945.4  | 7913.3  | 7917.9  |
| 32.5° | 4792.9  | 4689.7  | 4650.7  | 4726.4  | 4653.0  | 4600.2  | 4852.6  | 5513.4  | 5501.9  | 5547.8  |
| 35°   | 2900.1  | 2886.3  | 2918.4  | 2985.0  | 2838.1  | 2833.5  | 2886.3  | 3508.1  | 3583.8  | 3657.2  |
| 37.5° | 1601.5  | 1587.7  | 1612.9  | 1858.4  | 1810.3  | 1766.7  | 1780.4  | 2108.5  | 2326.5  | 2381.6  |
| 40°   | 1055.4  | 1053.1  | 1071.5  | 1115.1  | 1197.7  | 1181.6  | 1188.5  | 1335.3  | 1541.8  | 1590.0  |
| 42.5° | 706.7   | 709.0   | 720.4   | 770.9   | 782.4   | 865.0   | 851.2   | 885.6   | 1078.4  | 1119.6  |
| 45°   | 564.4   | 562.1   | 569.0   | 546.1   | 559.8   | 644.7   | 653.9   | 656.2   | 821.4   | 846.6   |
| 47.5° | 445.1   | 445.1   | 452.0   | 422.2   | 415.3   | 468.1   | 516.2   | 523.1   | 656.2   | 690.6   |
| 50°   | 312.0   | 312.0   | 346.4   | 332.7   | 348.7   | 364.8   | 417.6   | 424.5   | 536.9   | 573.6   |
| 52.5° | 229.4   | 234.0   | 238.6   | 240.9   | 293.7   | 291.4   | 337.3   | 369.4   | 406.1   | 470.3   |
| 55°   | 174.4   | 179.0   | 167.5   | 179.0   | 218.0   | 243.2   | 252.4   | 298.3   | 323.5   | 394.6   |
| 57.5° | 114.7   | 126.2   | 117.0   | 137.7   | 146.8   | 188.1   | 201.9   | 245.5   | 261.6   | 323.5   |
| 60°   | 16.1    | 18.4    | 29.8    | 96.4    | 103.2   | 123.9   | 156.0   | 195.0   | 211.1   | 263.9   |
| 62.5° | 2.3     | 2.3     | 6.9     | 16.1    | 68.8    | 82.6    | 117.0   | 135.4   | 156.0   | 197.3   |
| 65°   | 0.0     | 0.0     | 2.3     | 4.6     | 13.8    | 48.2    | 59.7    | 73.4    | 107.8   | 142.3   |
| 67.5° | 0.0     | 0.0     | 2.3     | 4.6     | 6.9     | 16.1    | 25.2    | 48.2    | 61.9    | 98.7    |
| 70°   | 0.0     | 0.0     | 2.3     | 4.6     | 6.9     | 9.2     | 13.8    | 18.4    | 36.7    | 57.4    |
| 72.5° | 0.0     | 0.0     | 2.3     | 4.6     | 6.9     | 9.2     | 11.5    | 13.8    | 16.1    | 36.7    |
| 75°   | 0.0     | 0.0     | 2.3     | 4.6     | 6.9     | 11.5    | 13.8    | 13.8    | 13.8    | 16.1    |
| 77.5° | 0.0     | 0.0     | 2.3     | 4.6     | 9.2     | 13.8    | 16.1    | 13.8    | 11.5    | 11.5    |
| 80°   | 0.0     | 0.0     | 2.3     | 6.9     | 11.5    | 16.1    | 18.4    | 13.8    | 9.2     | 6.9     |
| 82.5° | 0.0     | 0.0     | 2.3     | 6.9     | 11.5    | 16.1    | 18.4    | 16.1    | 9.2     | 6.9     |
| 85°   | 0.0     | 0.0     | 2.3     | 6.9     | 9.2     | 11.5    | 18.4    | 16.1    | 9.2     | 4.6     |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.3     | 2.3     | 4.6     | 9.2     | 6.9     | 4.6     | 2.3     |
| 90°   | 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 27718.2 | 0°    | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 | 27718.2 |
| 27789.3 | 2.5°  | 27995.8 | 28099.1 | 28280.3 | 28330.8 | 28486.8 | 28307.9 | 28209.2 | 28218.4 | 28005.0 |
| 27720.5 | 5°    | 27995.8 | 28232.2 | 28548.8 | 28700.2 | 28814.9 | 28805.7 | 28780.5 | 28716.3 | 28560.3 |
| 27582.9 | 7.5°  | 27922.4 | 28307.9 | 28743.8 | 28945.7 | 29083.4 | 29071.9 | 29129.3 | 29026.0 | 28835.6 |
| 27337.4 | 10°   | 27686.1 | 28021.1 | 28558.0 | 28723.2 | 28945.7 | 28950.3 | 28879.2 | 28899.8 | 28560.3 |
| 26440.3 | 12.5° | 26942.7 | 27204.3 | 27674.6 | 27862.8 | 28133.5 | 28177.1 | 28099.1 | 28069.3 | 27748.0 |
| 24969.6 | 15°   | 25504.2 | 25655.6 | 26128.2 | 26316.4 | 26584.8 | 26548.1 | 26626.1 | 26594.0 | 26311.8 |
| 22982.7 | 17.5° | 23400.2 | 23448.4 | 23944.0 | 24102.3 | 24354.7 | 24453.3 | 24336.3 | 24485.5 | 24242.3 |
| 20240.9 | 20°   | 20383.1 | 20642.4 | 21199.9 | 21443.1 | 21590.0 | 21766.6 | 21612.9 | 21780.4 | 21495.9 |
| 16914.1 | 22.5° | 17322.5 | 17476.2 | 17980.9 | 18332.0 | 18605.0 | 18639.4 | 18582.1 | 18699.1 | 18315.9 |
| 13981.9 | 25°   | 13979.6 | 14234.2 | 14633.5 | 15092.3 | 15360.8 | 15526.0 | 15376.8 | 15452.5 | 15390.6 |
| 10843.2 | 27.5° | 11026.7 | 11253.9 | 11554.4 | 11896.3 | 12300.1 | 12515.8 | 12396.5 | 12524.9 | 12222.1 |
| 8085.3  | 30°   | 8092.2  | 8206.9  | 8546.5  | 8909.0  | 9351.8  | 9613.4  | 9624.9  | 9755.6  | 9576.7  |
| 5664.8  | 32.5° | 5706.1  | 5807.0  | 6015.8  | 6256.7  | 6678.9  | 6970.3  | 6924.4  | 6942.7  | 6832.6  |
| 3691.6  | 35°   | 3710.0  | 3845.4  | 3994.5  | 4109.2  | 4363.9  | 4685.1  | 4659.9  | 4636.9  | 4561.2  |
| 2427.4  | 37.5° | 2480.2  | 2533.0  | 2615.6  | 2718.8  | 2884.0  | 3085.9  | 3152.5  | 3069.9  | 3037.7  |
| 1638.2  | 40°   | 1677.2  | 1769.0  | 1824.0  | 1902.0  | 1980.0  | 2149.8  | 2195.7  | 2179.6  | 2147.5  |
| 1147.2  | 42.5° | 1190.8  | 1261.9  | 1330.7  | 1406.4  | 1447.7  | 1553.3  | 1642.8  | 1617.5  | 1603.8  |
| 871.9   | 45°   | 904.0   | 968.2   | 1048.5  | 1105.9  | 1147.2  | 1209.1  | 1294.0  | 1303.2  | 1282.5  |
| 699.8   | 47.5° | 725.0   | 782.4   | 846.6   | 917.7   | 965.9   | 1004.9  | 1078.4  | 1105.9  | 1092.1  |
| 589.7   | 50°   | 614.9   | 658.5   | 720.4   | 791.6   | 844.3   | 878.7   | 943.0   | 972.8   | 963.6   |
| 493.3   | 52.5° | 523.1   | 575.9   | 633.2   | 692.9   | 757.1   | 791.6   | 851.2   | 894.8   | 887.9   |
| 408.4   | 55°   | 433.6   | 502.5   | 562.1   | 621.8   | 695.2   | 729.6   | 782.4   | 839.7   | 828.3   |
| 346.4   | 57.5° | 378.6   | 435.9   | 497.9   | 555.2   | 633.2   | 679.1   | 727.3   | 787.0   | 784.7   |
| 284.5   | 60°   | 316.6   | 374.0   | 442.8   | 491.0   | 573.6   | 637.8   | 681.4   | 743.4   | 748.0   |
| 215.7   | 62.5° | 252.4   | 323.5   | 376.3   | 442.8   | 518.5   | 594.2   | 635.5   | 697.5   | 720.4   |
| 165.2   | 65°   | 188.1   | 266.1   | 325.8   | 392.3   | 463.5   | 548.4   | 585.1   | 647.0   | 670.0   |
| 119.3   | 67.5° | 140.0   | 199.6   | 275.3   | 332.7   | 413.0   | 486.4   | 530.0   | 587.4   | 603.4   |
| 71.1    | 70°   | 105.5   | 153.7   | 229.4   | 279.9   | 362.5   | 422.2   | 465.8   | 509.3   | 530.0   |
| 48.2    | 72.5° | 61.9    | 114.7   | 181.3   | 240.9   | 312.0   | 362.5   | 394.6   | 429.0   | 442.8   |
| 22.9    | 75°   | 43.6    | 87.2    | 142.3   | 199.6   | 252.4   | 293.7   | 323.5   | 353.3   | 367.1   |
| 11.5    | 77.5° | 22.9    | 64.2    | 112.4   | 160.6   | 197.3   | 231.7   | 261.6   | 284.5   | 293.7   |
| 9.2     | 80°   | 13.8    | 45.9    | 91.8    | 126.2   | 151.4   | 181.3   | 211.1   | 227.1   | 224.8   |
| 6.9     | 82.5° | 9.2     | 36.7    | 66.5    | 91.8    | 110.1   | 133.1   | 153.7   | 165.2   | 165.2   |
| 4.6     | 85°   | 6.9     | 25.2    | 45.9    | 71.1    | 73.4    | 91.8    | 96.4    | 107.8   | 110.1   |
| 4.6     | 87.5° | 4.6     | 16.1    | 25.2    | 41.3    | 39.0    | 48.2    | 50.5    | 57.4    | 61.9    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



| 180°    |
|---------|
| 27718.2 |
| 27832.9 |
| 28610.7 |
| 28879.2 |
| 28461.6 |
| 27674.6 |
| 26401.3 |
| 24182.6 |
| 21473.0 |
| 18263.1 |
| 15351.6 |
| 12300.1 |
| 9608.8  |
| 6894.6  |
| 4494.7  |
| 3030.9  |
| 2152.1  |
| 1592.3  |
| 1280.3  |
| 1085.2  |
| 961.3   |
| 883.3   |
| 828.3   |
| 782.4   |
| 748.0   |
| 718.1   |
| 667.7   |
| 603.4   |
| 525.4   |
| 438.2   |
| 362.5   |
| 291.4   |
| 222.6   |
| 162.9   |
| 107.8   |
| 59.7    |
| 0.0     |

(END OF REPORT)