

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: P637746

Luminaire Tested: **IFLD-L-SA7D-827-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637746  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 33682.4 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 422.6  
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



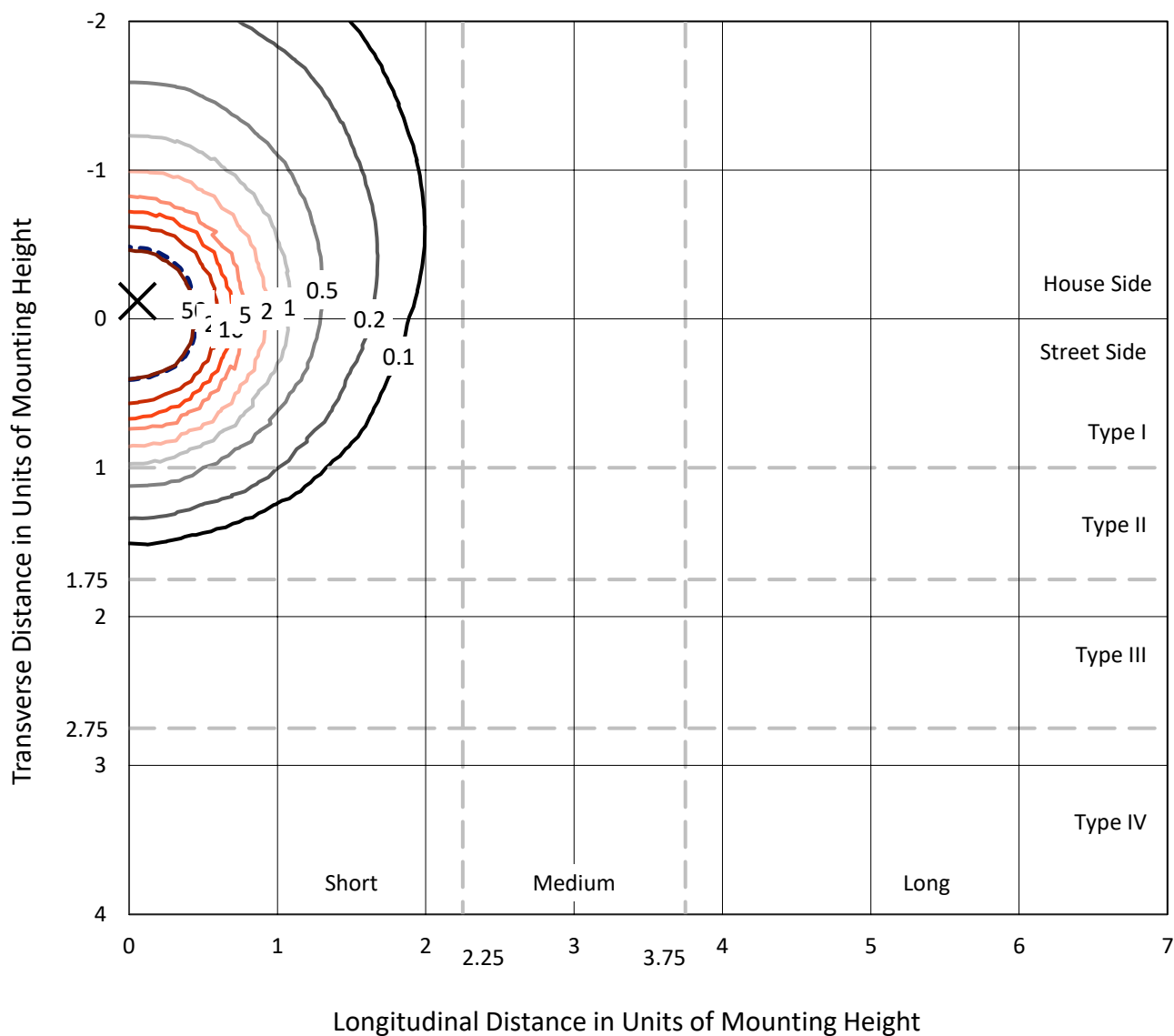
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

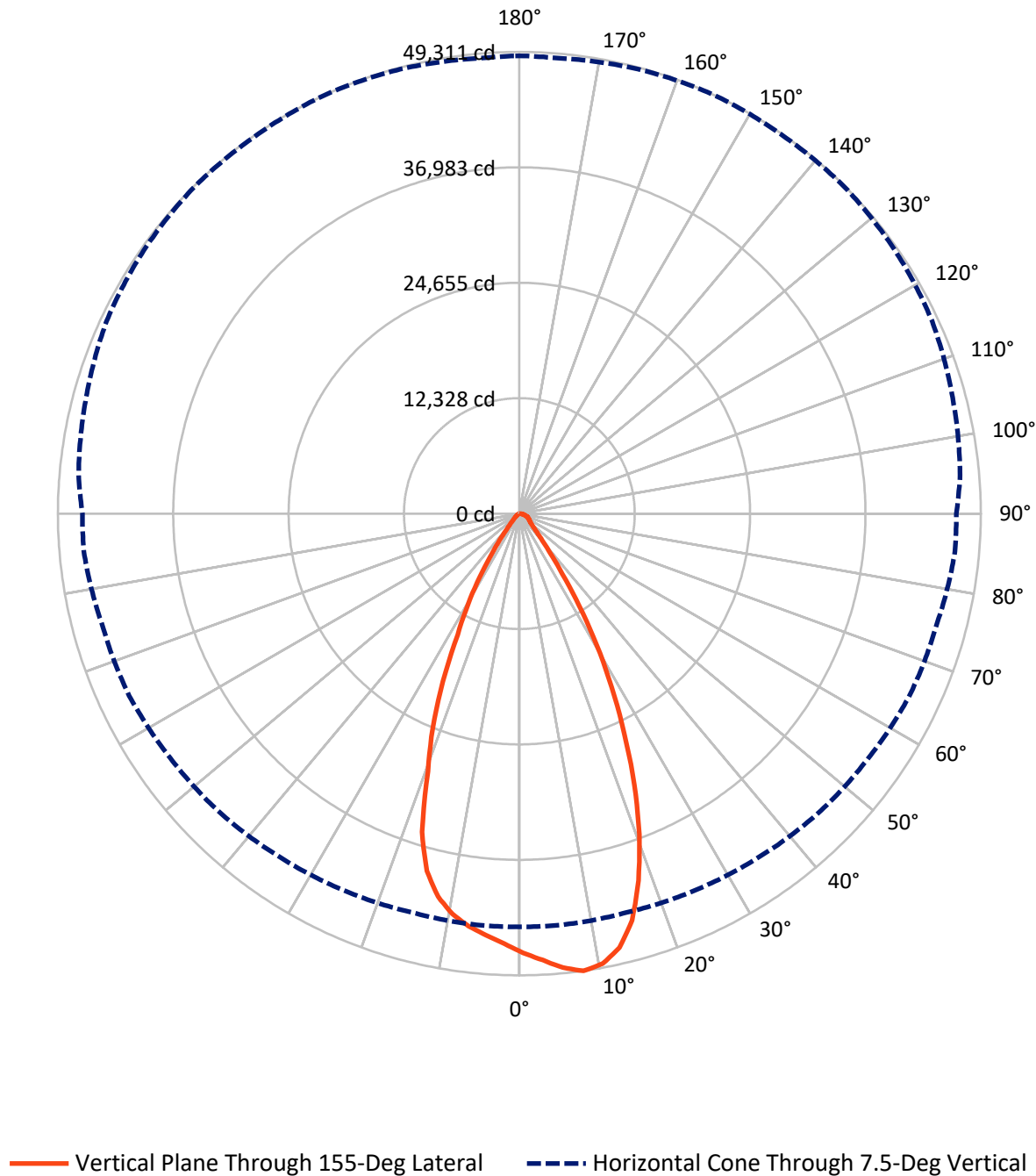


Based on 20 foot mounting height. Maximum calculated value = 119.2 fc

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    | 18593.9  | 0.0    | 18593.9 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 15088.5  | 0.0    | 15088.5 |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 33682.4  | 0.0    | 33682.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 4474.3  | 13.3      |
| 10°-20°   | 11602.0 | 34.4      |
| 20°-30°   | 10630.7 | 31.6      |
| 30°-40°   | 4294.8  | 12.8      |
| 40°-50°   | 1259.9  | 3.7       |
| 50°-60°   | 704.4   | 2.1       |
| 60°-70°   | 427.9   | 1.3       |
| 70°-80°   | 217.4   | 0.6       |
| 80°-90°   | 71.1    | 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°    | 33682.4 | 100.0     |
| 0°-180°   | 33682.4 | 100.0     |

**Coefficient of Utilization**



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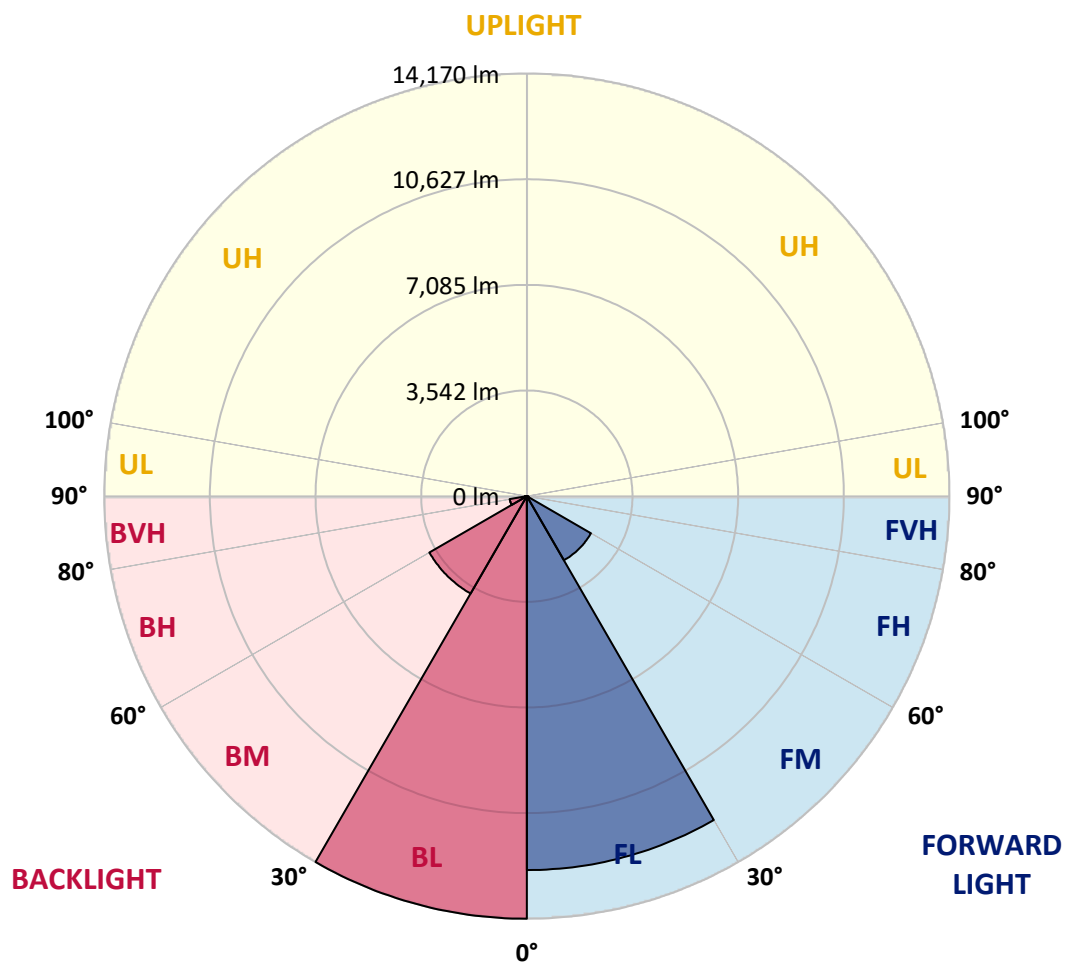
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 12537.5 | 37.2      |                         |      |         |
| FM   | (30°-60°)   | 2484.7  | 7.4       |                         |      |         |
| FH   | (60°-80°)   | 60.2    | 0.2       |                         |      | G0/660  |
| FVH  | (80°-90°)   | 6.2     | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 14169.5 | 42.1      | B5                      |      |         |
| BM   | (30°-60°)   | 3774.4  | 11.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 585.1   | 1.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 64.9    | 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-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 |
| 2.5°  | 45904.6 | 46060.0 | 45749.3 | 45955.1 | 46114.4 | 46495.0 | 46526.1 | 46658.1 | 46704.7 | 47050.4 |
| 5°    | 45034.6 | 45155.0 | 44902.6 | 45178.3 | 45403.6 | 45741.5 | 46001.7 | 46366.8 | 46568.8 | 46976.6 |
| 7.5°  | 44129.7 | 44156.9 | 44106.4 | 44397.7 | 44735.6 | 45201.6 | 45524.0 | 46001.7 | 46126.0 | 46708.6 |
| 10°   | 43034.4 | 42836.3 | 42933.4 | 43360.6 | 43865.6 | 44580.2 | 44801.6 | 45279.3 | 45500.7 | 46095.0 |
| 12.5° | 41286.6 | 41387.6 | 41267.2 | 41810.9 | 42230.4 | 43042.2 | 43275.2 | 43756.8 | 44180.2 | 44704.5 |
| 15°   | 38824.2 | 38765.9 | 39010.6 | 39433.9 | 39888.4 | 40533.1 | 40909.9 | 41434.2 | 41756.6 | 42300.3 |
| 17.5° | 33289.5 | 33487.6 | 34497.4 | 35557.7 | 36489.9 | 37243.4 | 37693.9 | 38128.9 | 38362.0 | 38952.3 |
| 20°   | 28749.1 | 28500.6 | 28636.5 | 29234.6 | 31887.4 | 33040.9 | 33514.8 | 33619.6 | 33716.7 | 34182.8 |
| 22.5° | 23672.8 | 23591.2 | 24045.7 | 24717.6 | 25346.8 | 28007.3 | 28652.0 | 28407.4 | 28609.3 | 29048.2 |
| 25°   | 17578.8 | 17990.5 | 18394.5 | 19684.0 | 20499.6 | 21804.6 | 23028.1 | 23136.8 | 23210.6 | 23486.4 |
| 27.5° | 14308.5 | 14164.8 | 14157.1 | 14518.3 | 15722.3 | 16809.8 | 17850.7 | 18091.5 | 18048.8 | 18312.9 |
| 30°   | 11248.0 | 11201.4 | 11038.2 | 11123.7 | 11003.3 | 11970.4 | 12459.8 | 13450.2 | 13395.8 | 13403.6 |
| 32.5° | 8113.6  | 7938.8  | 7872.8  | 8001.0  | 7876.7  | 7787.4  | 8214.6  | 9333.2  | 9313.8  | 9391.4  |
| 35°   | 4909.3  | 4886.0  | 4940.4  | 5053.0  | 4804.5  | 4796.7  | 4886.0  | 5938.6  | 6066.8  | 6191.0  |
| 37.5° | 2711.0  | 2687.7  | 2730.4  | 3146.0  | 3064.5  | 2990.7  | 3014.0  | 3569.4  | 3938.3  | 4031.6  |
| 40°   | 1786.6  | 1782.7  | 1813.8  | 1887.6  | 2027.4  | 2000.2  | 2011.9  | 2260.5  | 2610.0  | 2691.6  |
| 42.5° | 1196.3  | 1200.1  | 1219.6  | 1305.0  | 1324.4  | 1464.3  | 1441.0  | 1499.2  | 1825.5  | 1895.4  |
| 45°   | 955.5   | 951.6   | 963.2   | 924.4   | 947.7   | 1091.4  | 1106.9  | 1110.8  | 1390.5  | 1433.2  |
| 47.5° | 753.5   | 753.5   | 765.1   | 714.7   | 703.0   | 792.3   | 873.9   | 885.5   | 1110.8  | 1169.1  |
| 50°   | 528.2   | 528.2   | 586.5   | 563.2   | 590.4   | 617.6   | 706.9   | 718.5   | 908.8   | 971.0   |
| 52.5° | 388.4   | 396.2   | 403.9   | 407.8   | 497.1   | 493.3   | 570.9   | 625.3   | 687.5   | 796.2   |
| 55°   | 295.2   | 302.9   | 283.5   | 302.9   | 369.0   | 411.7   | 427.2   | 504.9   | 547.6   | 668.0   |
| 57.5° | 194.2   | 213.6   | 198.1   | 233.0   | 248.6   | 318.5   | 341.8   | 415.6   | 442.8   | 547.6   |
| 60°   | 27.2    | 31.1    | 50.5    | 163.1   | 174.8   | 209.7   | 264.1   | 330.1   | 357.3   | 446.7   |
| 62.5° | 3.9     | 3.9     | 11.7    | 27.2    | 116.5   | 139.8   | 198.1   | 229.2   | 264.1   | 334.0   |
| 65°   | 0.0     | 0.0     | 3.9     | 7.8     | 23.3    | 81.6    | 101.0   | 124.3   | 182.5   | 240.8   |
| 67.5° | 0.0     | 0.0     | 3.9     | 7.8     | 11.7    | 27.2    | 42.7    | 81.6    | 104.9   | 167.0   |
| 70°   | 0.0     | 0.0     | 3.9     | 7.8     | 11.7    | 15.5    | 23.3    | 31.1    | 62.1    | 97.1    |
| 72.5° | 0.0     | 0.0     | 3.9     | 7.8     | 11.7    | 15.5    | 19.4    | 23.3    | 27.2    | 62.1    |
| 75°   | 0.0     | 0.0     | 3.9     | 7.8     | 11.7    | 19.4    | 23.3    | 23.3    | 23.3    | 27.2    |
| 77.5° | 0.0     | 0.0     | 3.9     | 7.8     | 15.5    | 23.3    | 27.2    | 23.3    | 19.4    | 19.4    |
| 80°   | 0.0     | 0.0     | 3.9     | 11.7    | 19.4    | 27.2    | 31.1    | 23.3    | 15.5    | 11.7    |
| 82.5° | 0.0     | 0.0     | 3.9     | 11.7    | 19.4    | 27.2    | 31.1    | 27.2    | 15.5    | 11.7    |
| 85°   | 0.0     | 0.0     | 3.9     | 11.7    | 15.5    | 19.4    | 31.1    | 27.2    | 15.5    | 7.8     |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.9     | 3.9     | 7.8     | 15.5    | 11.7    | 7.8     | 3.9     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 46922.2 | 0°    | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 | 46922.2 |
| 47042.6 | 2.5°  | 47392.2 | 47567.0 | 47873.8 | 47959.3 | 48223.4 | 47920.4 | 47753.4 | 47768.9 | 47407.7 |
| 46926.1 | 5°    | 47392.2 | 47792.2 | 48328.2 | 48584.6 | 48778.8 | 48763.2 | 48720.5 | 48611.8 | 48347.7 |
| 46693.1 | 7.5°  | 47267.9 | 47920.4 | 48658.4 | 49000.2 | 49233.2 | 49213.8 | 49310.9 | 49136.1 | 48813.7 |
| 46277.5 | 10°   | 46867.9 | 47434.9 | 48343.8 | 48623.4 | 49000.2 | 49007.9 | 48887.5 | 48922.5 | 48347.7 |
| 44758.9 | 12.5° | 45609.5 | 46052.2 | 46848.4 | 47166.9 | 47625.2 | 47699.0 | 47567.0 | 47516.5 | 46972.7 |
| 42269.2 | 15°   | 43174.2 | 43430.6 | 44230.6 | 44549.1 | 45003.6 | 44941.4 | 45073.5 | 45019.1 | 44541.4 |
| 38905.7 | 17.5° | 39612.6 | 39694.2 | 40533.1 | 40801.1 | 41228.3 | 41395.4 | 41197.3 | 41449.7 | 41038.0 |
| 34264.4 | 20°   | 34505.2 | 34944.1 | 35887.9 | 36299.6 | 36548.2 | 36847.2 | 36587.0 | 36870.5 | 36388.9 |
| 28632.6 | 22.5° | 29324.0 | 29584.2 | 30438.7 | 31032.9 | 31495.1 | 31553.4 | 31456.3 | 31654.4 | 31005.7 |
| 23668.9 | 25°   | 23665.0 | 24096.1 | 24772.0 | 25548.8 | 26003.2 | 26282.8 | 26030.4 | 26158.5 | 26053.7 |
| 18355.6 | 27.5° | 18666.4 | 19050.9 | 19559.7 | 20138.4 | 20822.0 | 21187.1 | 20985.1 | 21202.6 | 20689.9 |
| 13687.1 | 30°   | 13698.8 | 13893.0 | 14467.8 | 15081.5 | 15831.1 | 16273.8 | 16293.3 | 16514.6 | 16211.7 |
| 9589.5  | 32.5° | 9659.4  | 9830.3  | 10183.8 | 10591.6 | 11306.2 | 11799.5 | 11721.8 | 11752.9 | 11566.5 |
| 6249.3  | 35°   | 6280.4  | 6509.5  | 6762.0  | 6956.2  | 7387.3  | 7931.1  | 7888.3  | 7849.5  | 7721.3  |
| 4109.2  | 37.5° | 4198.6  | 4287.9  | 4427.7  | 4602.5  | 4882.2  | 5223.9  | 5336.6  | 5196.8  | 5142.4  |
| 2773.2  | 40°   | 2839.2  | 2994.5  | 3087.8  | 3219.8  | 3351.9  | 3639.3  | 3717.0  | 3689.8  | 3635.4  |
| 1942.0  | 42.5° | 2015.8  | 2136.2  | 2252.7  | 2380.9  | 2450.8  | 2629.4  | 2780.9  | 2738.2  | 2714.9  |
| 1475.9  | 45°   | 1530.3  | 1639.0  | 1775.0  | 1872.1  | 1942.0  | 2046.9  | 2190.6  | 2206.1  | 2171.1  |
| 1184.6  | 47.5° | 1227.3  | 1324.4  | 1433.2  | 1553.6  | 1635.2  | 1701.2  | 1825.5  | 1872.1  | 1848.8  |
| 998.2   | 50°   | 1040.9  | 1114.7  | 1219.6  | 1340.0  | 1429.3  | 1487.6  | 1596.3  | 1646.8  | 1631.3  |
| 835.1   | 52.5° | 885.5   | 974.9   | 1072.0  | 1173.0  | 1281.7  | 1340.0  | 1441.0  | 1514.7  | 1503.1  |
| 691.3   | 55°   | 734.1   | 850.6   | 951.6   | 1052.6  | 1176.8  | 1235.1  | 1324.4  | 1421.5  | 1402.1  |
| 586.5   | 57.5° | 640.9   | 738.0   | 842.8   | 939.9   | 1072.0  | 1149.7  | 1231.2  | 1332.2  | 1328.3  |
| 481.6   | 60°   | 536.0   | 633.1   | 749.6   | 831.2   | 971.0   | 1079.7  | 1153.5  | 1258.4  | 1266.2  |
| 365.1   | 62.5° | 427.2   | 547.6   | 637.0   | 749.6   | 877.8   | 1005.9  | 1075.9  | 1180.7  | 1219.6  |
| 279.6   | 65°   | 318.5   | 450.5   | 551.5   | 664.2   | 784.6   | 928.3   | 990.4   | 1095.3  | 1134.1  |
| 202.0   | 67.5° | 236.9   | 337.9   | 466.1   | 563.2   | 699.1   | 823.4   | 897.2   | 994.3   | 1021.5  |
| 120.4   | 70°   | 178.7   | 260.2   | 388.4   | 473.8   | 613.7   | 714.7   | 788.4   | 862.2   | 897.2   |
| 81.6    | 72.5° | 104.9   | 194.2   | 306.8   | 407.8   | 528.2   | 613.7   | 668.0   | 726.3   | 749.6   |
| 38.8    | 75°   | 73.8    | 147.6   | 240.8   | 337.9   | 427.2   | 497.1   | 547.6   | 598.1   | 621.4   |
| 19.4    | 77.5° | 38.8    | 108.8   | 190.3   | 271.9   | 334.0   | 392.3   | 442.8   | 481.6   | 497.1   |
| 15.5    | 80°   | 23.3    | 77.7    | 155.4   | 213.6   | 256.3   | 306.8   | 357.3   | 384.5   | 380.6   |
| 11.7    | 82.5° | 15.5    | 62.1    | 112.6   | 155.4   | 186.4   | 225.3   | 260.2   | 279.6   | 279.6   |
| 7.8     | 85°   | 11.7    | 42.7    | 77.7    | 120.4   | 124.3   | 155.4   | 163.1   | 182.5   | 186.4   |
| 7.8     | 87.5° | 7.8     | 27.2    | 42.7    | 69.9    | 66.0    | 81.6    | 85.4    | 97.1    | 104.9   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 46922.2 |
| 47116.4 |
| 48433.1 |
| 48887.5 |
| 48180.6 |
| 46848.4 |
| 44692.8 |
| 40937.0 |
| 36350.1 |
| 30916.4 |
| 25987.6 |
| 20822.0 |
| 16266.1 |
| 11671.3 |
| 7608.7  |
| 5130.7  |
| 3643.2  |
| 2695.5  |
| 2167.3  |
| 1837.1  |
| 1627.4  |
| 1495.3  |
| 1402.1  |
| 1324.4  |
| 1266.2  |
| 1215.7  |
| 1130.2  |
| 1021.5  |
| 889.4   |
| 741.8   |
| 613.7   |
| 493.3   |
| 376.7   |
| 275.8   |
| 182.5   |
| 101.0   |
| 0.0     |

(END OF REPORT)