

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: P637704

Luminaire Tested: **IFLD-S-SA6A-760-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637704  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-760-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 25933.3 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 189.6  
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



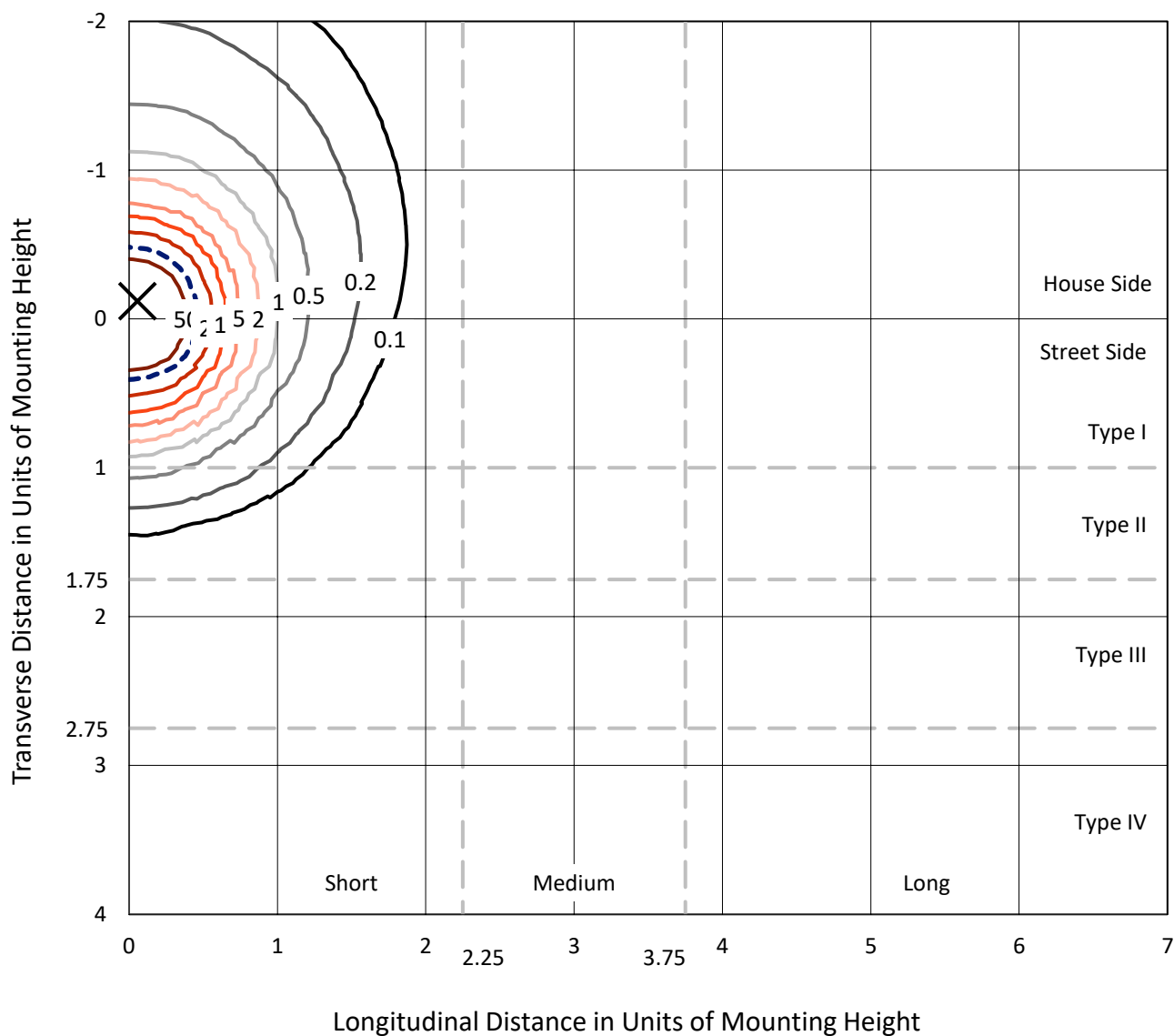
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

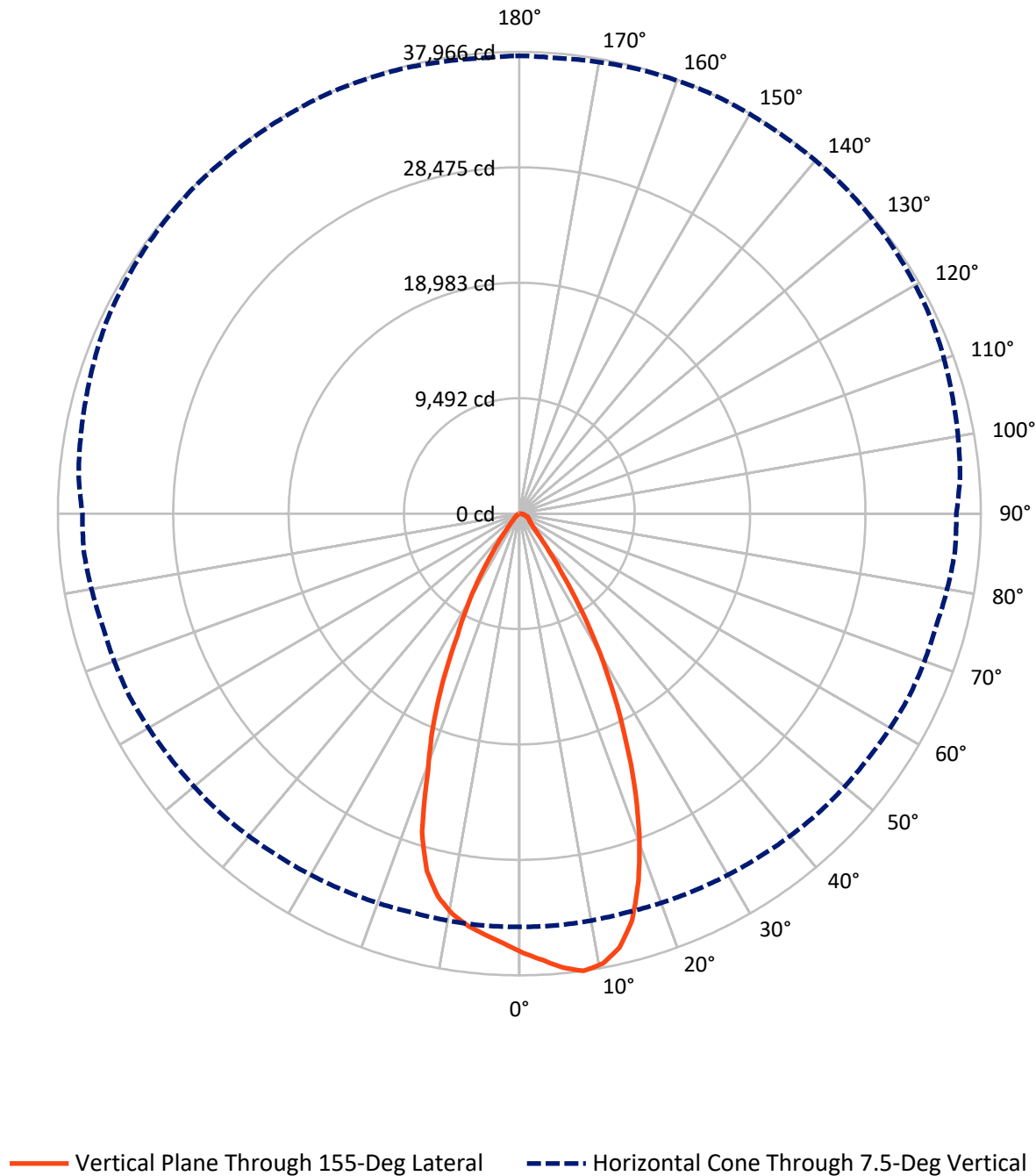


Based on 20 foot mounting height. Maximum calculated value = 91.8 fc

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    | 14316.1  | 0.0    | 14316.1 |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 11617.2  | 0.0    | 11617.2 |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 25933.3  | 0.0    | 25933.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 3445.0  | 13.3      |
| 10°-20°   | 8932.8  | 34.4      |
| 20°-30°   | 8184.9  | 31.6      |
| 30°-40°   | 3306.7  | 12.8      |
| 40°-50°   | 970.0   | 3.7       |
| 50°-60°   | 542.4   | 2.1       |
| 60°-70°   | 329.4   | 1.3       |
| 70°-80°   | 167.4   | 0.6       |
| 80°-90°   | 54.7    | 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°    | 25933.3 | 100.0     |
| 0°-180°   | 25933.3 | 100.0     |

**Coefficient of Utilization**



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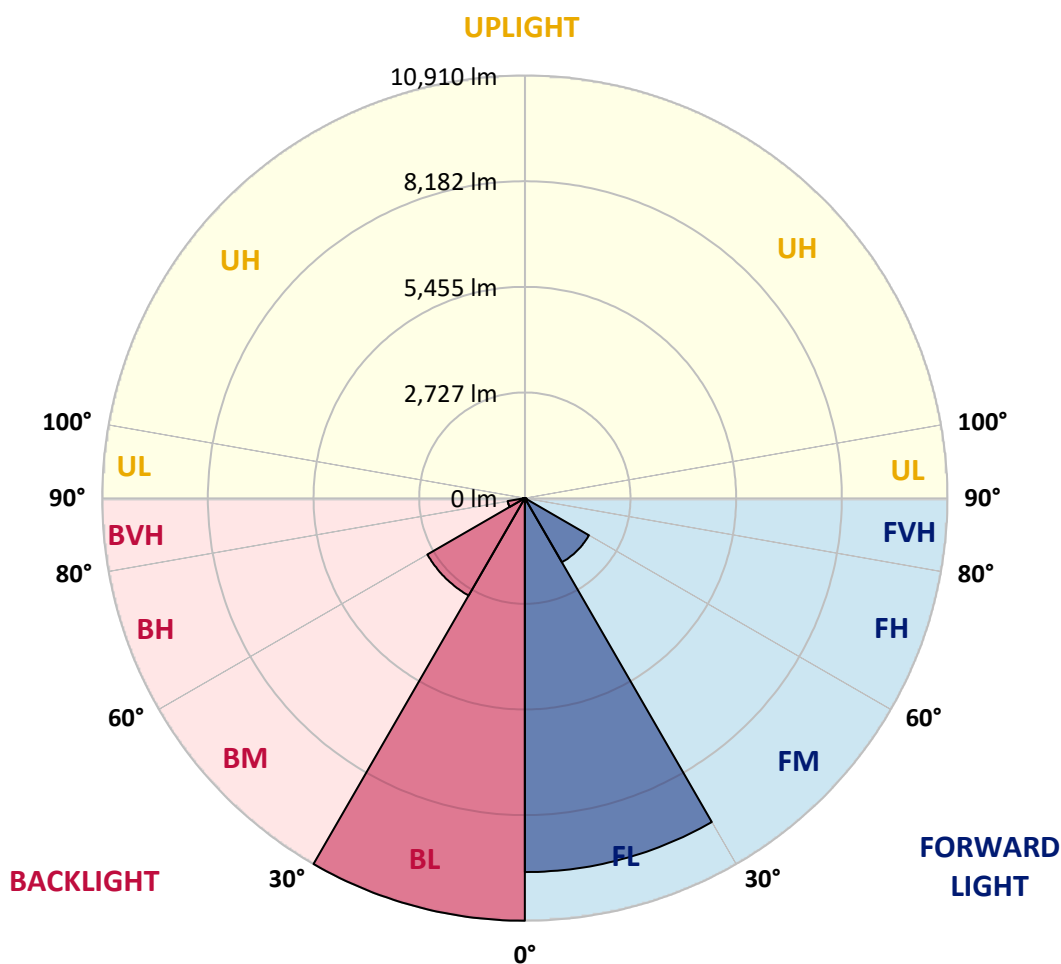
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 9653.0  | 37.2      |                         |      |        |
| FM   | (30°-60°)   | 1913.1  | 7.4       |                         |      |        |
| FH   | (60°-80°)   | 46.3    | 0.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 4.7     | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 10909.6 | 42.1      | B5                      |      |        |
| BM   | (30°-60°)   | 2906.1  | 11.2      | B3/5000                 |      |        |
| BH   | (60°-80°)   | 450.5   | 1.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 50.0    | 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°    | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 |
| 2.5°  | 35343.7 | 35463.3 | 35224.1 | 35382.6 | 35505.2 | 35798.2 | 35822.1 | 35923.8 | 35959.7 | 36225.9 |
| 5°    | 34673.8 | 34766.5 | 34572.2 | 34784.5 | 34957.9 | 35218.1 | 35418.4 | 35699.5 | 35855.0 | 36169.0 |
| 7.5°  | 33977.1 | 33998.0 | 33959.1 | 34183.4 | 34443.6 | 34802.4 | 35050.6 | 35418.4 | 35514.1 | 35962.7 |
| 10°   | 33133.8 | 32981.3 | 33056.0 | 33385.0 | 33773.7 | 34323.9 | 34494.4 | 34862.2 | 35032.7 | 35490.2 |
| 12.5° | 31788.1 | 31865.8 | 31773.1 | 32191.8 | 32514.7 | 33139.7 | 33319.2 | 33690.0 | 34015.9 | 34419.6 |
| 15°   | 29892.2 | 29847.3 | 30035.7 | 30361.7 | 30711.5 | 31207.9 | 31498.0 | 31901.7 | 32149.9 | 32568.6 |
| 17.5° | 25630.8 | 25783.3 | 26560.8 | 27377.2 | 28094.9 | 28675.1 | 29021.9 | 29356.9 | 29536.3 | 29990.8 |
| 20°   | 22135.0 | 21943.6 | 22048.3 | 22508.8 | 24551.3 | 25439.4 | 25804.3 | 25885.0 | 25959.8 | 26318.6 |
| 22.5° | 18226.6 | 18163.8 | 18513.6 | 19031.0 | 19515.4 | 21563.9 | 22060.3 | 21871.9 | 22027.4 | 22365.3 |
| 25°   | 13534.6 | 13851.6 | 14162.6 | 15155.4 | 15783.4 | 16788.2 | 17730.2 | 17813.9 | 17870.7 | 18083.0 |
| 27.5° | 11016.7 | 10906.0 | 10900.1 | 11178.2 | 12105.2 | 12942.5 | 13743.9 | 13929.3 | 13896.4 | 14099.8 |
| 30°   | 8660.2  | 8624.3  | 8498.8  | 8564.5  | 8471.8  | 9216.4  | 9593.2  | 10355.8 | 10313.9 | 10319.9 |
| 32.5° | 6247.0  | 6112.4  | 6061.6  | 6160.2  | 6064.6  | 5995.8  | 6324.7  | 7186.0  | 7171.0  | 7230.8  |
| 35°   | 3779.9  | 3761.9  | 3803.8  | 3890.5  | 3699.1  | 3693.2  | 3761.9  | 4572.3  | 4671.0  | 4766.7  |
| 37.5° | 2087.3  | 2069.4  | 2102.3  | 2422.2  | 2359.4  | 2302.6  | 2320.6  | 2748.2  | 3032.3  | 3104.0  |
| 40°   | 1375.6  | 1372.6  | 1396.5  | 1453.3  | 1561.0  | 1540.1  | 1549.0  | 1740.4  | 2009.6  | 2072.4  |
| 42.5° | 921.0   | 924.0   | 939.0   | 1004.8  | 1019.7  | 1127.4  | 1109.4  | 1154.3  | 1405.5  | 1459.3  |
| 45°   | 735.6   | 732.7   | 741.6   | 711.7   | 729.7   | 840.3   | 852.3   | 855.3   | 1070.6  | 1103.5  |
| 47.5° | 580.1   | 580.1   | 589.1   | 550.2   | 541.3   | 610.0   | 672.8   | 681.8   | 855.3   | 900.1   |
| 50°   | 406.7   | 406.7   | 451.6   | 433.6   | 454.5   | 475.5   | 544.3   | 553.2   | 699.8   | 747.6   |
| 52.5° | 299.0   | 305.0   | 311.0   | 314.0   | 382.8   | 379.8   | 439.6   | 481.5   | 529.3   | 613.0   |
| 55°   | 227.3   | 233.3   | 218.3   | 233.3   | 284.1   | 317.0   | 328.9   | 388.8   | 421.6   | 514.4   |
| 57.5° | 149.5   | 164.5   | 152.5   | 179.4   | 191.4   | 245.2   | 263.2   | 320.0   | 340.9   | 421.6   |
| 60°   | 20.9    | 23.9    | 38.9    | 125.6   | 134.6   | 161.5   | 203.3   | 254.2   | 275.1   | 343.9   |
| 62.5° | 3.0     | 3.0     | 9.0     | 20.9    | 89.7    | 107.7   | 152.5   | 176.4   | 203.3   | 257.2   |
| 65°   | 0.0     | 0.0     | 3.0     | 6.0     | 17.9    | 62.8    | 77.8    | 95.7    | 140.5   | 185.4   |
| 67.5° | 0.0     | 0.0     | 3.0     | 6.0     | 9.0     | 20.9    | 32.9    | 62.8    | 80.7    | 128.6   |
| 70°   | 0.0     | 0.0     | 3.0     | 6.0     | 9.0     | 12.0    | 17.9    | 23.9    | 47.8    | 74.8    |
| 72.5° | 0.0     | 0.0     | 3.0     | 6.0     | 9.0     | 12.0    | 15.0    | 17.9    | 20.9    | 47.8    |
| 75°   | 0.0     | 0.0     | 3.0     | 6.0     | 9.0     | 15.0    | 17.9    | 17.9    | 17.9    | 20.9    |
| 77.5° | 0.0     | 0.0     | 3.0     | 6.0     | 12.0    | 17.9    | 20.9    | 17.9    | 15.0    | 15.0    |
| 80°   | 0.0     | 0.0     | 3.0     | 9.0     | 15.0    | 20.9    | 23.9    | 17.9    | 12.0    | 9.0     |
| 82.5° | 0.0     | 0.0     | 3.0     | 9.0     | 15.0    | 20.9    | 23.9    | 20.9    | 12.0    | 9.0     |
| 85°   | 0.0     | 0.0     | 3.0     | 9.0     | 12.0    | 15.0    | 23.9    | 20.9    | 12.0    | 6.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.0     | 3.0     | 6.0     | 12.0    | 9.0     | 6.0     | 3.0     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 36127.2 | 0°    | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 | 36127.2 |
| 36219.9 | 2.5°  | 36489.0 | 36623.6 | 36859.8 | 36925.6 | 37129.0 | 36895.7 | 36767.1 | 36779.1 | 36501.0 |
| 36130.2 | 5°    | 36489.0 | 36797.0 | 37209.7 | 37407.1 | 37556.6 | 37544.6 | 37511.7 | 37428.0 | 37224.6 |
| 35950.7 | 7.5°  | 36393.3 | 36895.7 | 37463.9 | 37727.0 | 37906.5 | 37891.5 | 37966.3 | 37831.7 | 37583.5 |
| 35630.8 | 10°   | 36085.3 | 36521.9 | 37221.7 | 37437.0 | 37727.0 | 37733.0 | 37640.3 | 37667.2 | 37224.6 |
| 34461.5 | 12.5° | 35116.4 | 35457.3 | 36070.3 | 36315.6 | 36668.4 | 36725.2 | 36623.6 | 36584.7 | 36166.0 |
| 32544.7 | 15°   | 33241.4 | 33438.8 | 34054.8 | 34300.0 | 34649.9 | 34602.1 | 34703.7 | 34661.9 | 34294.0 |
| 29955.0 | 17.5° | 30499.2 | 30562.0 | 31207.9 | 31414.3 | 31743.2 | 31871.8 | 31719.3 | 31913.7 | 31596.7 |
| 26381.4 | 20°   | 26566.8 | 26904.7 | 27631.4 | 27948.4 | 28139.8 | 28370.0 | 28169.7 | 28388.0 | 28017.2 |
| 22045.3 | 22.5° | 22577.6 | 22778.0 | 23435.9 | 23893.4 | 24249.3 | 24294.1 | 24219.3 | 24371.9 | 23872.5 |
| 18223.6 | 25°   | 18220.6 | 18552.5 | 19072.8 | 19670.9 | 20020.8 | 20236.1 | 20041.7 | 20140.4 | 20059.7 |
| 14132.7 | 27.5° | 14371.9 | 14668.0 | 15059.7 | 15505.3 | 16031.6 | 16312.7 | 16157.2 | 16324.7 | 15929.9 |
| 10538.2 | 30°   | 10547.2 | 10696.7 | 11139.3 | 11611.8 | 12188.9 | 12529.8 | 12544.8 | 12715.2 | 12482.0 |
| 7383.3  | 32.5° | 7437.2  | 7568.7  | 7840.9  | 8154.9  | 8705.1  | 9084.9  | 9025.1  | 9049.0  | 8905.4  |
| 4811.6  | 35°   | 4835.5  | 5011.9  | 5206.3  | 5355.8  | 5687.8  | 6106.4  | 6073.5  | 6043.6  | 5944.9  |
| 3163.9  | 37.5° | 3232.6  | 3301.4  | 3409.1  | 3543.6  | 3758.9  | 4022.1  | 4108.8  | 4001.2  | 3959.3  |
| 2135.2  | 40°   | 2186.0  | 2305.6  | 2377.4  | 2479.1  | 2580.7  | 2802.0  | 2861.8  | 2840.9  | 2799.0  |
| 1495.2  | 42.5° | 1552.0  | 1644.7  | 1734.4  | 1833.1  | 1886.9  | 2024.5  | 2141.1  | 2108.2  | 2090.3  |
| 1136.4  | 45°   | 1178.2  | 1262.0  | 1366.6  | 1441.4  | 1495.2  | 1575.9  | 1686.6  | 1698.6  | 1671.6  |
| 912.1   | 47.5° | 945.0   | 1019.7  | 1103.5  | 1196.2  | 1259.0  | 1309.8  | 1405.5  | 1441.4  | 1423.4  |
| 768.5   | 50°   | 801.4   | 858.2   | 939.0   | 1031.7  | 1100.5  | 1145.3  | 1229.1  | 1267.9  | 1256.0  |
| 642.9   | 52.5° | 681.8   | 750.6   | 825.4   | 903.1   | 986.8   | 1031.7  | 1109.4  | 1166.3  | 1157.3  |
| 532.3   | 55°   | 565.2   | 654.9   | 732.7   | 810.4   | 906.1   | 951.0   | 1019.7  | 1094.5  | 1079.5  |
| 451.6   | 57.5° | 493.4   | 568.2   | 648.9   | 723.7   | 825.4   | 885.2   | 948.0   | 1025.7  | 1022.7  |
| 370.8   | 60°   | 412.7   | 487.4   | 577.1   | 639.9   | 747.6   | 831.3   | 888.2   | 968.9   | 974.9   |
| 281.1   | 62.5° | 328.9   | 421.6   | 490.4   | 577.1   | 675.8   | 774.5   | 828.3   | 909.1   | 939.0   |
| 215.3   | 65°   | 245.2   | 346.9   | 424.6   | 511.4   | 604.1   | 714.7   | 762.6   | 843.3   | 873.2   |
| 155.5   | 67.5° | 182.4   | 260.2   | 358.8   | 433.6   | 538.3   | 634.0   | 690.8   | 765.5   | 786.5   |
| 92.7    | 70°   | 137.6   | 200.4   | 299.0   | 364.8   | 472.5   | 550.2   | 607.1   | 663.9   | 690.8   |
| 62.8    | 72.5° | 80.7    | 149.5   | 236.2   | 314.0   | 406.7   | 472.5   | 514.4   | 559.2   | 577.1   |
| 29.9    | 75°   | 56.8    | 113.6   | 185.4   | 260.2   | 328.9   | 382.8   | 421.6   | 460.5   | 478.5   |
| 15.0    | 77.5° | 29.9    | 83.7    | 146.5   | 209.3   | 257.2   | 302.0   | 340.9   | 370.8   | 382.8   |
| 12.0    | 80°   | 17.9    | 59.8    | 119.6   | 164.5   | 197.4   | 236.2   | 275.1   | 296.1   | 293.1   |
| 9.0     | 82.5° | 12.0    | 47.8    | 86.7    | 119.6   | 143.5   | 173.4   | 200.4   | 215.3   | 215.3   |
| 6.0     | 85°   | 9.0     | 32.9    | 59.8    | 92.7    | 95.7    | 119.6   | 125.6   | 140.5   | 143.5   |
| 6.0     | 87.5° | 6.0     | 20.9    | 32.9    | 53.8    | 50.8    | 62.8    | 65.8    | 74.8    | 80.7    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 36127.2 |
| 36276.7 |
| 37290.4 |
| 37640.3 |
| 37096.1 |
| 36070.3 |
| 34410.7 |
| 31518.9 |
| 27987.3 |
| 23803.7 |
| 20008.8 |
| 16031.6 |
| 12523.8 |
| 8986.2  |
| 5858.2  |
| 3950.3  |
| 2805.0  |
| 2075.3  |
| 1668.6  |
| 1414.5  |
| 1253.0  |
| 1151.3  |
| 1079.5  |
| 1019.7  |
| 974.9   |
| 936.0   |
| 870.2   |
| 786.5   |
| 684.8   |
| 571.2   |
| 472.5   |
| 379.8   |
| 290.1   |
| 212.3   |
| 140.5   |
| 77.8    |
| 0.0     |

(END OF REPORT)