

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: P637669

Luminaire Tested: **IFLD-S-SA2E-750-U-55-VI**

Issue Date: 01/17/2023

### Test Information

Test Method: LM-79-08  
Report Number: P637669  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-750-U-55-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17390.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2  
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



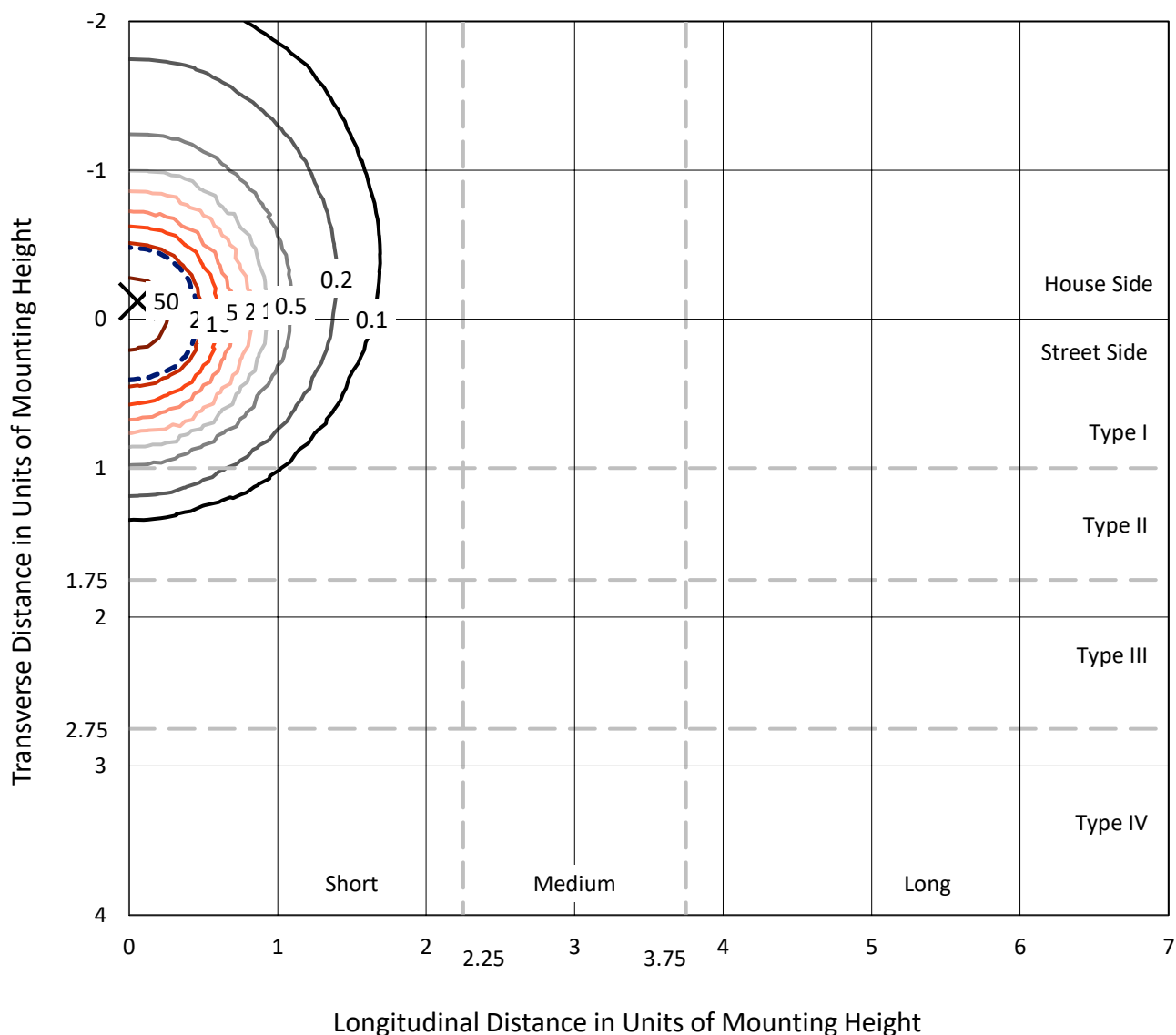
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



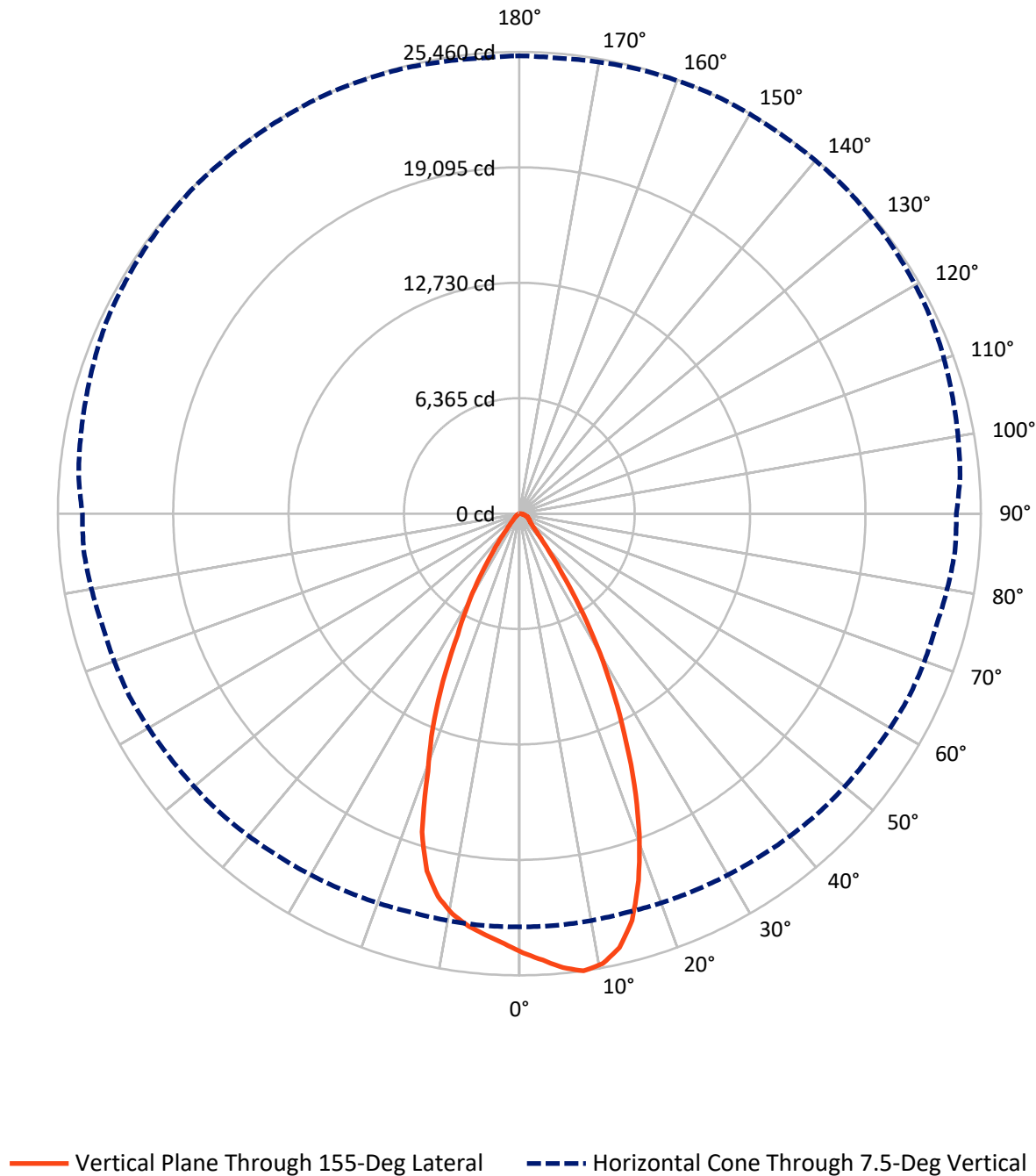
Based on 20 foot mounting height. Maximum calculated value = 61.6 fc

Type I - Short - N/A

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## Luminous Intensity Polar Plot



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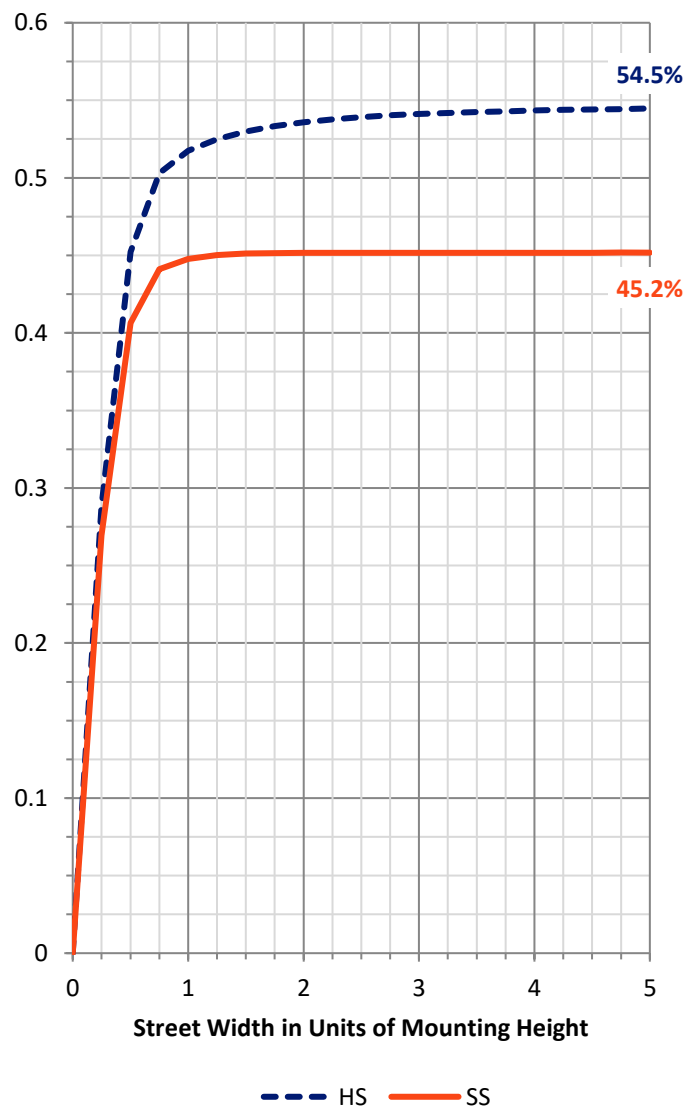
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9600.4   | 0.0    | 9600.4  |
|                    | % Fixture | 55.2     | 0.0    | 55.2    |
| <b>Street Side</b> | Lumens    | 7790.4   | 0.0    | 7790.4  |
|                    | % Fixture | 44.8     | 0.0    | 44.8    |
| <b>Total</b>       | Lumens    | 17390.8  | 0.0    | 17390.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2310.2  | 13.3      |
| 10°-20°   | 5990.3  | 34.4      |
| 20°-30°   | 5488.8  | 31.6      |
| 30°-40°   | 2217.5  | 12.8      |
| 40°-50°   | 650.5   | 3.7       |
| 50°-60°   | 363.7   | 2.1       |
| 60°-70°   | 220.9   | 1.3       |
| 70°-80°   | 112.2   | 0.6       |
| 80°-90°   | 36.7    | 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°    | 17390.8 | 100.0     |
| 0°-180°   | 17390.8 | 100.0     |

**Coefficient of Utilization**



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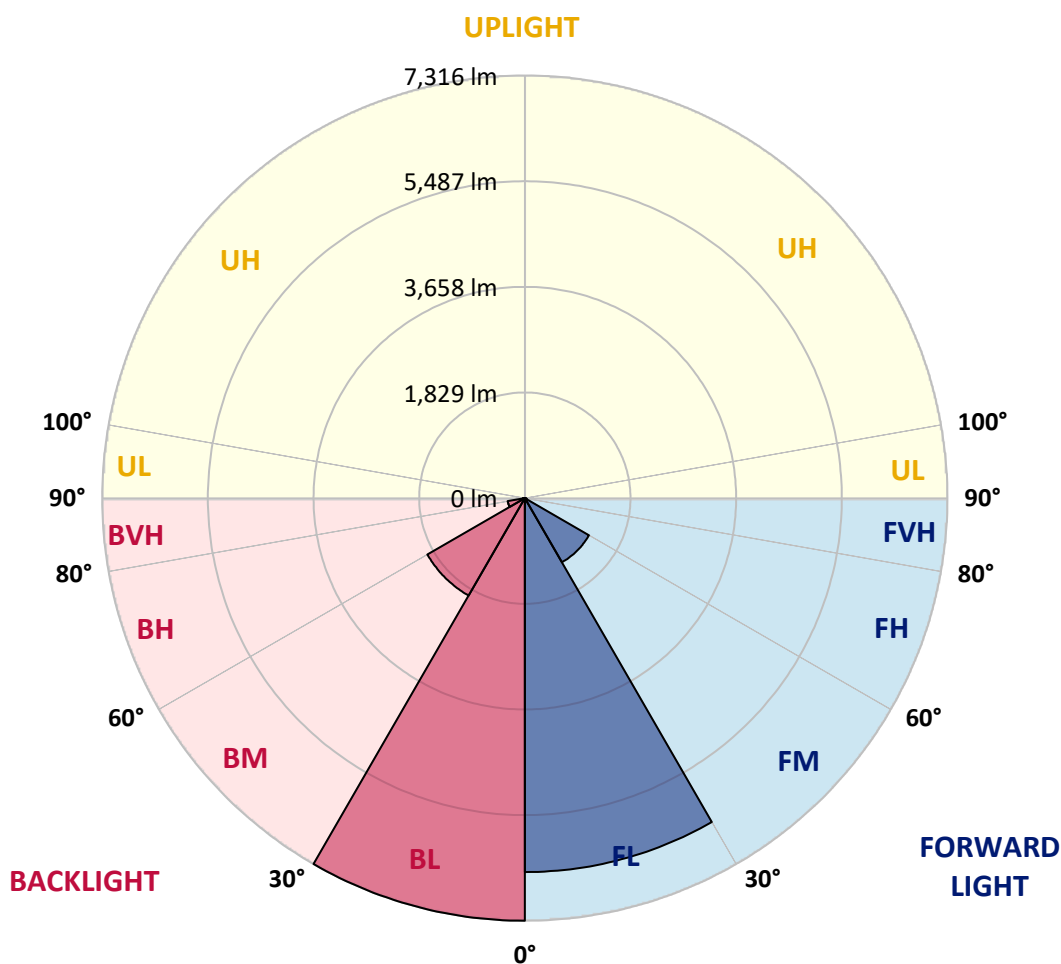
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 6473.3 | 37.2      |                         |      |        |
| FM   | (30°-60°)   | 1282.9 | 7.4       |                         |      |        |
| FH   | (60°-80°)   | 31.1   | 0.2       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 3.2    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 7316.0 | 42.1      | B5                      |      |        |
| BM   | (30°-60°)   | 1948.8 | 11.2      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 302.1  | 1.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 33.5   | 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°    | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 |
| 2.5°  | 23701.4 | 23781.6 | 23621.1 | 23727.4 | 23809.6 | 24006.2 | 24022.2 | 24090.4 | 24114.5 | 24292.9 |
| 5°    | 23252.2 | 23314.3 | 23184.0 | 23326.4 | 23442.7 | 23617.1 | 23751.5 | 23940.0 | 24044.3 | 24254.8 |
| 7.5°  | 22784.9 | 22798.9 | 22772.9 | 22923.3 | 23097.7 | 23338.4 | 23504.8 | 23751.5 | 23815.7 | 24116.5 |
| 10°   | 22219.4 | 22117.1 | 22167.3 | 22387.8 | 22648.5 | 23017.5 | 23131.8 | 23378.5 | 23492.8 | 23799.6 |
| 12.5° | 21317.0 | 21369.1 | 21307.0 | 21587.7 | 21804.3 | 22223.4 | 22343.7 | 22592.4 | 22811.0 | 23081.7 |
| 15°   | 20045.6 | 20015.5 | 20141.8 | 20360.4 | 20595.1 | 20927.9 | 21122.5 | 21393.2 | 21559.6 | 21840.4 |
| 17.5° | 17187.9 | 17290.2 | 17811.6 | 18359.1 | 18840.4 | 19229.4 | 19462.0 | 19686.6 | 19806.9 | 20111.8 |
| 20°   | 14843.7 | 14715.3 | 14785.5 | 15094.3 | 16464.0 | 17059.6 | 17304.3 | 17358.4 | 17408.5 | 17649.2 |
| 22.5° | 12222.7 | 12180.6 | 12415.2 | 12762.1 | 13087.0 | 14460.7 | 14793.5 | 14667.2 | 14771.5 | 14998.1 |
| 25°   | 9076.3  | 9288.8  | 9497.4  | 10163.2 | 10584.3 | 11258.1 | 11889.8 | 11945.9 | 11984.0 | 12126.4 |
| 27.5° | 7387.7  | 7313.5  | 7309.5  | 7496.0  | 8117.7  | 8679.2  | 9216.6  | 9341.0  | 9318.9  | 9455.3  |
| 30°   | 5807.5  | 5783.5  | 5699.2  | 5743.4  | 5681.2  | 6180.5  | 6433.2  | 6944.6  | 6916.5  | 6920.5  |
| 32.5° | 4189.2  | 4099.0  | 4064.9  | 4131.0  | 4066.9  | 4020.7  | 4241.3  | 4818.9  | 4808.9  | 4849.0  |
| 35°   | 2534.8  | 2522.7  | 2550.8  | 2609.0  | 2480.6  | 2476.6  | 2522.7  | 3066.2  | 3132.4  | 3196.5  |
| 37.5° | 1399.7  | 1387.7  | 1409.8  | 1624.3  | 1582.2  | 1544.1  | 1556.2  | 1842.9  | 2033.4  | 2081.6  |
| 40°   | 922.5   | 920.5   | 936.5   | 974.6   | 1046.8  | 1032.8  | 1038.8  | 1167.1  | 1347.6  | 1389.7  |
| 42.5° | 617.7   | 619.7   | 629.7   | 673.8   | 683.8   | 756.0   | 744.0   | 774.1   | 942.5   | 978.6   |
| 45°   | 493.3   | 491.3   | 497.3   | 477.3   | 489.3   | 563.5   | 571.5   | 573.5   | 717.9   | 740.0   |
| 47.5° | 389.0   | 389.0   | 395.1   | 369.0   | 363.0   | 409.1   | 451.2   | 457.2   | 573.5   | 603.6   |
| 50°   | 272.7   | 272.7   | 302.8   | 290.8   | 304.8   | 318.9   | 365.0   | 371.0   | 469.3   | 501.3   |
| 52.5° | 200.5   | 204.5   | 208.6   | 210.6   | 256.7   | 254.7   | 294.8   | 322.9   | 354.9   | 411.1   |
| 55°   | 152.4   | 156.4   | 146.4   | 156.4   | 190.5   | 212.6   | 220.6   | 260.7   | 282.8   | 344.9   |
| 57.5° | 100.3   | 110.3   | 102.3   | 120.3   | 128.3   | 164.4   | 176.5   | 214.6   | 228.6   | 282.8   |
| 60°   | 14.0    | 16.0    | 26.1    | 84.2    | 90.2    | 108.3   | 136.4   | 170.5   | 184.5   | 230.6   |
| 62.5° | 2.0     | 2.0     | 6.0     | 14.0    | 60.2    | 72.2    | 102.3   | 118.3   | 136.4   | 172.5   |
| 65°   | 0.0     | 0.0     | 2.0     | 4.0     | 12.0    | 42.1    | 52.1    | 64.2    | 94.3    | 124.3   |
| 67.5° | 0.0     | 0.0     | 2.0     | 4.0     | 6.0     | 14.0    | 22.1    | 42.1    | 54.1    | 86.2    |
| 70°   | 0.0     | 0.0     | 2.0     | 4.0     | 6.0     | 8.0     | 12.0    | 16.0    | 32.1    | 50.1    |
| 72.5° | 0.0     | 0.0     | 2.0     | 4.0     | 6.0     | 8.0     | 10.0    | 12.0    | 14.0    | 32.1    |
| 75°   | 0.0     | 0.0     | 2.0     | 4.0     | 6.0     | 10.0    | 12.0    | 12.0    | 12.0    | 14.0    |
| 77.5° | 0.0     | 0.0     | 2.0     | 4.0     | 8.0     | 12.0    | 14.0    | 12.0    | 10.0    | 10.0    |
| 80°   | 0.0     | 0.0     | 2.0     | 6.0     | 10.0    | 14.0    | 16.0    | 12.0    | 8.0     | 6.0     |
| 82.5° | 0.0     | 0.0     | 2.0     | 6.0     | 10.0    | 14.0    | 16.0    | 14.0    | 8.0     | 6.0     |
| 85°   | 0.0     | 0.0     | 2.0     | 6.0     | 8.0     | 10.0    | 16.0    | 14.0    | 8.0     | 4.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.0     | 2.0     | 4.0     | 8.0     | 6.0     | 4.0     | 2.0     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 24226.8 | 0°    | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 | 24226.8 |
| 24288.9 | 2.5°  | 24469.4 | 24559.7 | 24718.1 | 24762.2 | 24898.6 | 24742.1 | 24655.9 | 24663.9 | 24477.4 |
| 24228.8 | 5°    | 24469.4 | 24676.0 | 24952.7 | 25085.1 | 25185.3 | 25177.3 | 25155.2 | 25099.1 | 24962.7 |
| 24108.4 | 7.5°  | 24405.2 | 24742.1 | 25123.2 | 25299.6 | 25419.9 | 25409.9 | 25460.1 | 25369.8 | 25203.4 |
| 23893.9 | 10°   | 24198.7 | 24491.5 | 24960.7 | 25105.1 | 25299.6 | 25303.6 | 25241.5 | 25259.5 | 24962.7 |
| 23109.8 | 12.5° | 23548.9 | 23777.6 | 24188.7 | 24353.1 | 24589.7 | 24627.8 | 24559.7 | 24533.6 | 24252.8 |
| 21824.3 | 15°   | 22291.6 | 22423.9 | 22837.0 | 23001.5 | 23236.1 | 23204.0 | 23272.2 | 23244.1 | 22997.5 |
| 20087.7 | 17.5° | 20452.7 | 20494.8 | 20927.9 | 21066.3 | 21286.9 | 21373.1 | 21270.9 | 21401.2 | 21188.6 |
| 17691.3 | 20°   | 17815.6 | 18042.2 | 18529.5 | 18742.1 | 18870.4 | 19024.9 | 18890.5 | 19036.9 | 18788.2 |
| 14783.5 | 22.5° | 15140.5 | 15274.8 | 15716.0 | 16022.8 | 16261.5 | 16291.5 | 16241.4 | 16343.7 | 16008.8 |
| 12220.7 | 25°   | 12218.7 | 12441.3 | 12790.2 | 13191.3 | 13425.9 | 13570.3 | 13439.9 | 13506.1 | 13452.0 |
| 9477.3  | 27.5° | 9637.8  | 9836.3  | 10099.0 | 10397.8 | 10750.7 | 10939.2 | 10835.0 | 10947.3 | 10682.6 |
| 7066.9  | 30°   | 7072.9  | 7173.2  | 7470.0  | 7786.8  | 8173.8  | 8402.5  | 8412.5  | 8526.8  | 8370.4  |
| 4951.2  | 32.5° | 4987.3  | 5075.6  | 5258.1  | 5468.6  | 5837.6  | 6092.3  | 6052.2  | 6068.2  | 5972.0  |
| 3226.6  | 35°   | 3242.7  | 3361.0  | 3491.3  | 3591.6  | 3814.2  | 4094.9  | 4072.9  | 4052.8  | 3986.7  |
| 2121.7  | 37.5° | 2167.8  | 2213.9  | 2286.1  | 2376.4  | 2520.7  | 2697.2  | 2755.4  | 2683.2  | 2655.1  |
| 1431.8  | 40°   | 1465.9  | 1546.1  | 1594.3  | 1662.4  | 1730.6  | 1879.0  | 1919.1  | 1905.1  | 1877.0  |
| 1002.7  | 42.5° | 1040.8  | 1102.9  | 1163.1  | 1229.3  | 1265.4  | 1357.6  | 1435.8  | 1413.8  | 1401.7  |
| 762.0   | 45°   | 790.1   | 846.3   | 916.4   | 966.6   | 1002.7  | 1056.8  | 1131.0  | 1139.0  | 1121.0  |
| 611.6   | 47.5° | 633.7   | 683.8   | 740.0   | 802.1   | 844.3   | 878.3   | 942.5   | 966.6   | 954.6   |
| 515.4   | 50°   | 537.4   | 575.5   | 629.7   | 691.8   | 738.0   | 768.1   | 824.2   | 850.3   | 842.3   |
| 431.2   | 52.5° | 457.2   | 503.3   | 553.5   | 605.6   | 661.8   | 691.8   | 744.0   | 782.1   | 776.1   |
| 357.0   | 55°   | 379.0   | 439.2   | 491.3   | 543.5   | 607.6   | 637.7   | 683.8   | 734.0   | 723.9   |
| 302.8   | 57.5° | 330.9   | 381.0   | 435.2   | 485.3   | 553.5   | 593.6   | 635.7   | 687.8   | 685.8   |
| 248.7   | 60°   | 276.7   | 326.9   | 387.0   | 429.1   | 501.3   | 557.5   | 595.6   | 649.7   | 653.7   |
| 188.5   | 62.5° | 220.6   | 282.8   | 328.9   | 387.0   | 453.2   | 519.4   | 555.5   | 609.6   | 629.7   |
| 144.4   | 65°   | 164.4   | 232.6   | 284.8   | 342.9   | 405.1   | 479.3   | 511.4   | 565.5   | 585.6   |
| 104.3   | 67.5° | 122.3   | 174.5   | 240.6   | 290.8   | 361.0   | 425.1   | 463.2   | 513.4   | 527.4   |
| 62.2    | 70°   | 92.2    | 134.4   | 200.5   | 244.7   | 316.8   | 369.0   | 407.1   | 445.2   | 463.2   |
| 42.1    | 72.5° | 54.1    | 100.3   | 158.4   | 210.6   | 272.7   | 316.8   | 344.9   | 375.0   | 387.0   |
| 20.1    | 75°   | 38.1    | 76.2    | 124.3   | 174.5   | 220.6   | 256.7   | 282.8   | 308.8   | 320.9   |
| 10.0    | 77.5° | 20.1    | 56.2    | 98.3    | 140.4   | 172.5   | 202.5   | 228.6   | 248.7   | 256.7   |
| 8.0     | 80°   | 12.0    | 40.1    | 80.2    | 110.3   | 132.4   | 158.4   | 184.5   | 198.5   | 196.5   |
| 6.0     | 82.5° | 8.0     | 32.1    | 58.2    | 80.2    | 96.3    | 116.3   | 134.4   | 144.4   | 144.4   |
| 4.0     | 85°   | 6.0     | 22.1    | 40.1    | 62.2    | 64.2    | 80.2    | 84.2    | 94.3    | 96.3    |
| 4.0     | 87.5° | 4.0     | 14.0    | 22.1    | 36.1    | 34.1    | 42.1    | 44.1    | 50.1    | 54.1    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

| 180°    |
|---------|
| 24226.8 |
| 24327.0 |
| 25006.8 |
| 25241.5 |
| 24876.5 |
| 24188.7 |
| 23075.7 |
| 21136.5 |
| 18768.2 |
| 15962.7 |
| 13417.9 |
| 10750.7 |
| 8398.4  |
| 6026.1  |
| 3928.5  |
| 2649.1  |
| 1881.0  |
| 1391.7  |
| 1119.0  |
| 948.5   |
| 840.2   |
| 772.1   |
| 723.9   |
| 683.8   |
| 653.7   |
| 627.7   |
| 583.6   |
| 527.4   |
| 459.2   |
| 383.0   |
| 316.8   |
| 254.7   |
| 194.5   |
| 142.4   |
| 94.3    |
| 52.1    |
| 0.0     |

(END OF REPORT)