

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: P638454

Luminaire Tested: **IFLD-S-SA3B-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638454  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12828.5 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

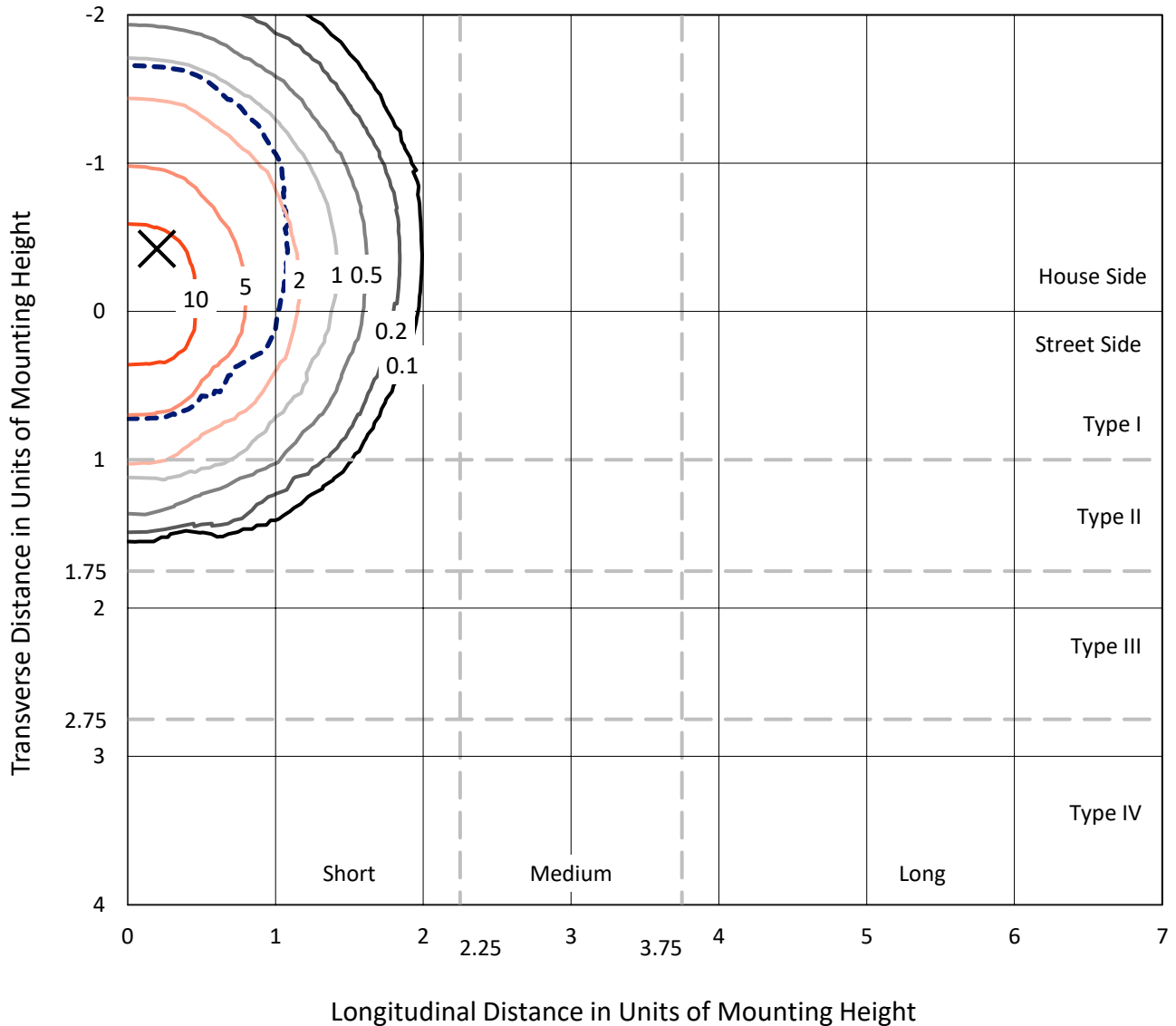
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

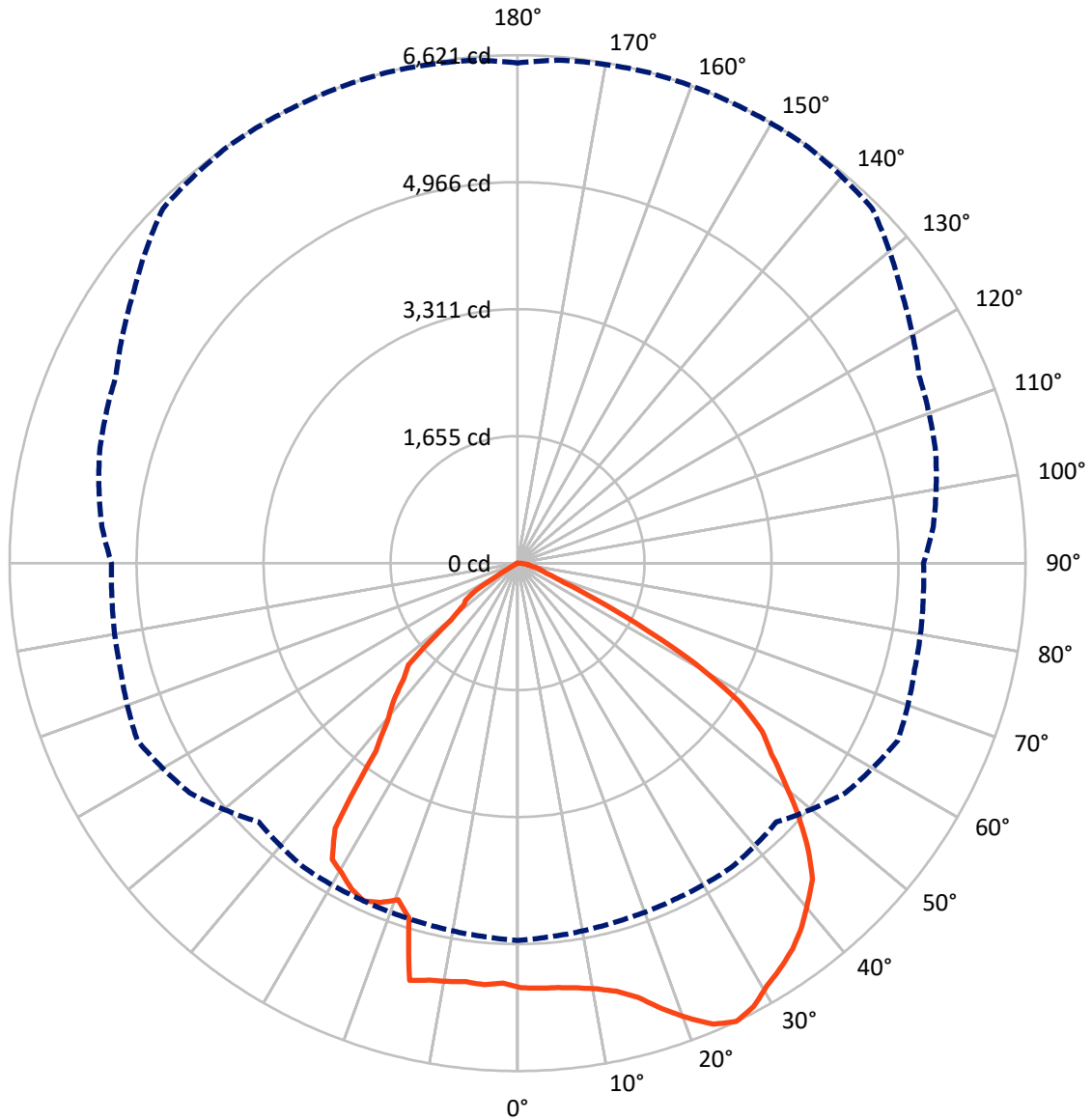
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7942.2   | 0.0    | 7942.2  |
|                    | % Fixture | 61.9     | 0.0    | 61.9    |
| <b>Street Side</b> | Lumens    | 4886.4   | 0.0    | 4886.4  |
|                    | % Fixture | 38.1     | 0.0    | 38.1    |
| <b>Total</b>       | Lumens    | 12828.5  | 0.0    | 12828.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 531.0   | 4.1       |
| 10°-20°   | 1621.5  | 12.6      |
| 20°-30°   | 2563.5  | 20.0      |
| 30°-40°   | 2895.7  | 22.6      |
| 40°-50°   | 2711.9  | 21.1      |
| 50°-60°   | 1869.6  | 14.6      |
| 60°-70°   | 502.3   | 3.9       |
| 70°-80°   | 104.7   | 0.8       |
| 80°-90°   | 28.3    | 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°    | 12828.5 | 100.0     |
| 0°-180°   | 12828.5 | 100.0     |



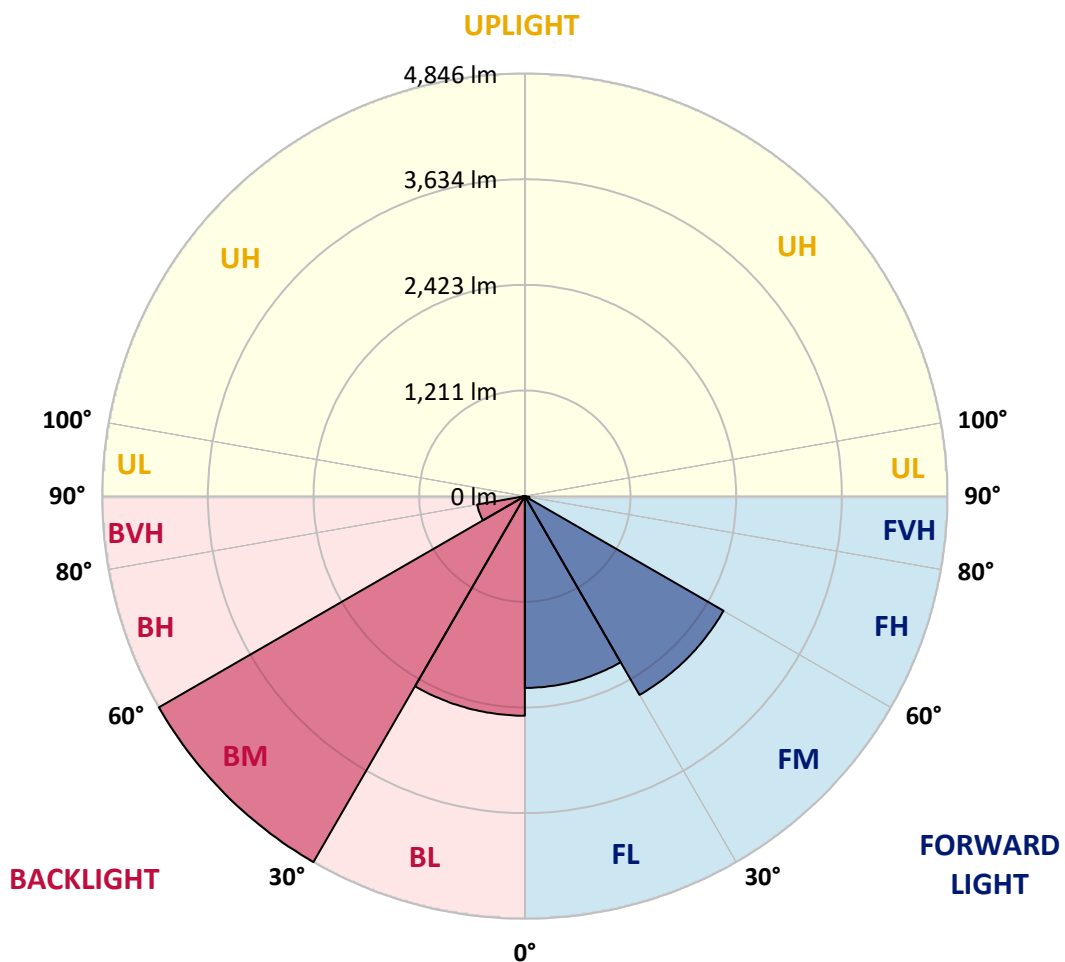
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2198.4 | 17.1      |                         |      |         |
| FM   | (30°-60°)   | 2631.4 | 20.5      |                         |      |         |
| FH   | (60°-80°)   | 52.7   | 0.4       |                         |      | G0/660  |
| FVH  | (80°-90°)   | 3.8    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 2517.6 | 19.6      | B4/5000                 |      |         |
| BM   | (30°-60°)   | 4845.8 | 37.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 554.3  | 4.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 24.5   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 |
| 2.5°  | 5559.8 | 5524.0 | 5490.0 | 5478.7 | 5525.8 | 5576.8 | 5544.7 | 5546.6 | 5535.3 | 5556.0 |
| 5°    | 5601.3 | 5552.2 | 5529.6 | 5512.7 | 5520.2 | 5573.0 | 5527.7 | 5544.7 | 5525.8 | 5550.4 |
| 7.5°  | 5586.2 | 5552.2 | 5529.6 | 5497.6 | 5522.1 | 5584.3 | 5540.9 | 5542.8 | 5533.4 | 5556.0 |
| 10°   | 5576.8 | 5552.2 | 5524.0 | 5527.7 | 5556.0 | 5608.8 | 5574.9 | 5593.7 | 5580.5 | 5593.7 |
| 12.5° | 5599.4 | 5573.0 | 5557.9 | 5557.9 | 5582.4 | 5642.7 | 5625.8 | 5642.7 | 5637.1 | 5648.4 |
| 15°   | 5386.3 | 5410.8 | 5554.1 | 5618.2 | 5667.2 | 5727.6 | 5720.0 | 5737.0 | 5740.8 | 5757.7 |
| 17.5° | 4543.6 | 4519.1 | 4507.8 | 4837.7 | 5714.4 | 5901.0 | 5895.4 | 5893.5 | 5874.6 | 5861.4 |
| 20°   | 4654.8 | 4645.4 | 4632.2 | 4656.7 | 4754.8 | 5991.5 | 6029.2 | 5797.3 | 5729.5 | 5723.8 |
| 22.5° | 4832.1 | 4817.0 | 4768.0 | 4769.8 | 4800.0 | 5209.1 | 5842.6 | 5631.4 | 5608.8 | 5595.6 |
| 25°   | 4918.8 | 4888.6 | 4849.0 | 4837.7 | 4847.1 | 4771.7 | 5218.5 | 5469.3 | 5358.1 | 5307.2 |
| 27.5° | 4766.1 | 4768.0 | 4735.9 | 4766.1 | 4730.2 | 4390.9 | 4200.5 | 5152.6 | 5148.8 | 5126.2 |
| 30°   | 4651.1 | 4645.4 | 4607.7 | 4645.4 | 4398.4 | 4019.5 | 3938.4 | 4805.7 | 4766.1 | 4735.9 |
| 32.5° | 4298.5 | 4302.3 | 4411.6 | 4558.7 | 4153.3 | 3853.6 | 3608.5 | 4292.9 | 4668.0 | 4651.1 |
| 35°   | 3074.9 | 3082.5 | 3470.9 | 4196.7 | 3781.9 | 3523.6 | 3504.8 | 3710.3 | 4513.4 | 4521.0 |
| 37.5° | 2959.9 | 2959.9 | 2950.5 | 3069.3 | 3489.7 | 3389.8 | 3427.5 | 3406.8 | 4134.5 | 4153.3 |
| 40°   | 2877.0 | 2860.0 | 2846.8 | 2660.2 | 2426.4 | 3295.5 | 3321.9 | 3227.7 | 3908.3 | 3912.0 |
| 42.5° | 2777.1 | 2758.2 | 2762.0 | 2417.0 | 2171.9 | 3061.7 | 2988.2 | 2861.9 | 3531.2 | 3535.0 |
| 45°   | 2594.2 | 2626.2 | 2648.9 | 2115.3 | 2096.5 | 2187.0 | 2756.3 | 2677.1 | 3276.7 | 3346.4 |
| 47.5° | 1319.7 | 1348.0 | 2068.2 | 1945.6 | 1989.0 | 1943.8 | 2328.4 | 2330.2 | 2726.2 | 2958.1 |
| 50°   | 1197.2 | 1189.6 | 1191.5 | 1135.0 | 1836.3 | 1572.3 | 1683.6 | 2136.1 | 2183.2 | 2515.0 |
| 52.5° | 1116.1 | 1114.2 | 999.2  | 888.0  | 1153.8 | 1383.8 | 1221.7 | 1546.0 | 1623.3 | 2130.4 |
| 55°   | 825.8  | 886.1  | 788.1  | 835.2  | 722.1  | 1108.6 | 1102.9 | 1395.1 | 1421.5 | 1708.1 |
| 57.5° | 7.5    | 9.4    | 22.6   | 635.3  | 499.6  | 554.3  | 761.7  | 952.1  | 999.2  | 1331.0 |
| 60°   | 1.9    | 3.8    | 9.4    | 18.9   | 324.3  | 341.2  | 509.0  | 550.5  | 620.3  | 793.7  |
| 62.5° | 0.0    | 0.0    | 3.8    | 9.4    | 17.0   | 139.5  | 162.1  | 177.2  | 273.4  | 405.3  |
| 65°   | 0.0    | 0.0    | 1.9    | 5.7    | 9.4    | 22.6   | 39.6   | 83.0   | 118.8  | 147.1  |
| 67.5° | 0.0    | 0.0    | 1.9    | 3.8    | 7.5    | 11.3   | 22.6   | 32.1   | 50.9   | 86.7   |
| 70°   | 0.0    | 0.0    | 1.9    | 3.8    | 5.7    | 9.4    | 15.1   | 22.6   | 30.2   | 43.4   |
| 72.5° | 0.0    | 0.0    | 1.9    | 3.8    | 3.8    | 11.3   | 11.3   | 17.0   | 22.6   | 28.3   |
| 75°   | 0.0    | 0.0    | 1.9    | 1.9    | 3.8    | 7.5    | 11.3   | 13.2   | 15.1   | 22.6   |
| 77.5° | 0.0    | 0.0    | 1.9    | 3.8    | 5.7    | 7.5    | 9.4    | 15.1   | 13.2   | 13.2   |
| 80°   | 0.0    | 0.0    | 1.9    | 5.7    | 5.7    | 9.4    | 11.3   | 15.1   | 9.4    | 9.4    |
| 82.5° | 0.0    | 0.0    | 1.9    | 7.5    | 5.7    | 18.9   | 18.9   | 20.7   | 7.5    | 7.5    |
| 85°   | 0.0    | 0.0    | 5.7    | 3.8    | 11.3   | 18.9   | 17.0   | 11.3   | 9.4    | 5.7    |
| 87.5° | 0.0    | 0.0    | 1.9    | 1.9    | 3.8    | 5.7    | 13.2   | 11.3   | 3.8    | 3.8    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5535.3 | 0°    | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 | 5535.3 |
| 5501.3 | 2.5°  | 5576.8 | 5552.2 | 5603.1 | 5597.5 | 5573.0 | 5561.7 | 5548.5 | 5537.2 | 5454.2 |
| 5505.1 | 5°    | 5578.6 | 5540.9 | 5603.1 | 5591.8 | 5588.1 | 5569.2 | 5557.9 | 5574.9 | 5499.5 |
| 5520.2 | 7.5°  | 5578.6 | 5540.9 | 5608.8 | 5612.6 | 5606.9 | 5591.8 | 5589.9 | 5601.3 | 5539.0 |
| 5546.6 | 10°   | 5616.3 | 5601.3 | 5657.8 | 5663.5 | 5655.9 | 5652.2 | 5642.7 | 5635.2 | 5569.2 |
| 5637.1 | 12.5° | 5695.5 | 5665.4 | 5729.5 | 5746.4 | 5740.8 | 5750.2 | 5727.6 | 5738.9 | 5671.0 |
| 5729.5 | 15°   | 5791.7 | 5793.6 | 5842.6 | 5880.3 | 5876.5 | 5906.7 | 5872.7 | 5902.9 | 5853.9 |
| 5835.0 | 17.5° | 5938.7 | 5959.5 | 6029.2 | 6085.8 | 6106.5 | 6129.1 | 6106.5 | 6115.9 | 6046.2 |
| 5718.1 | 20°   | 5784.1 | 5861.4 | 6197.0 | 6300.7 | 6344.1 | 6364.8 | 6327.1 | 6338.4 | 6268.7 |
| 5574.9 | 22.5° | 5644.6 | 5744.5 | 6042.4 | 6366.7 | 6500.6 | 6542.0 | 6528.8 | 6526.9 | 6500.6 |
| 5292.1 | 25°   | 5439.1 | 5640.9 | 5774.7 | 6117.8 | 6538.3 | 6613.7 | 6621.2 | 6619.3 | 6579.7 |
| 5118.6 | 27.5° | 5186.5 | 5231.7 | 5578.6 | 5787.9 | 6274.3 | 6560.9 | 6549.6 | 6494.9 | 6442.1 |
| 4758.5 | 30°   | 4864.1 | 5069.6 | 5226.1 | 5559.8 | 5933.1 | 6398.7 | 6398.7 | 6357.3 | 6302.6 |
| 4630.3 | 32.5° | 4700.1 | 4965.9 | 5111.1 | 5231.7 | 5550.4 | 6217.8 | 6293.2 | 6249.8 | 6206.4 |
| 4530.4 | 35°   | 4613.4 | 4652.9 | 4992.3 | 5101.7 | 5371.3 | 5869.0 | 6174.4 | 6131.0 | 6099.0 |
| 4264.6 | 37.5° | 4422.9 | 4515.3 | 4673.7 | 4965.9 | 5048.9 | 5584.3 | 6016.0 | 5993.4 | 5955.7 |
| 3919.6 | 40°   | 3998.7 | 4245.7 | 4488.9 | 4766.1 | 4852.8 | 5218.5 | 5823.7 | 5833.2 | 5782.2 |
| 3551.9 | 42.5° | 3748.0 | 3915.8 | 4296.6 | 4483.3 | 4717.0 | 4982.9 | 5637.1 | 5652.2 | 5616.3 |
| 3365.3 | 45°   | 3453.9 | 3640.5 | 3908.3 | 4247.6 | 4566.2 | 4658.6 | 5307.2 | 5465.5 | 5435.4 |
| 2993.9 | 47.5° | 3184.3 | 3335.1 | 3663.2 | 4006.3 | 4358.8 | 4345.6 | 4928.2 | 5226.1 | 5184.6 |
| 2709.2 | 50°   | 2801.6 | 3065.5 | 3220.1 | 3535.0 | 4061.0 | 4096.8 | 4524.7 | 4945.2 | 4911.2 |
| 2302.0 | 52.5° | 2362.3 | 2694.1 | 2990.1 | 3278.6 | 3759.3 | 3844.1 | 4149.6 | 4658.6 | 4636.0 |
| 1759.0 | 55°   | 2064.4 | 2305.7 | 2639.4 | 2871.3 | 3393.6 | 3619.8 | 3868.7 | 4385.2 | 4373.9 |
| 1446.0 | 57.5° | 1468.7 | 1934.3 | 2209.6 | 2533.9 | 2809.1 | 3218.2 | 3403.0 | 3829.1 | 3723.5 |
| 801.3  | 60°   | 995.4  | 1214.1 | 1549.7 | 1898.5 | 2083.3 | 2492.4 | 2663.9 | 3005.2 | 2976.9 |
| 478.9  | 62.5° | 526.0  | 727.7  | 967.2  | 1142.5 | 1276.4 | 1674.2 | 1745.8 | 2113.4 | 2104.0 |
| 192.3  | 65°   | 231.9  | 307.3  | 524.1  | 614.6  | 752.2  | 937.0  | 999.2  | 1131.2 | 1099.1 |
| 94.3   | 67.5° | 120.7  | 182.9  | 296.0  | 363.9  | 458.1  | 527.9  | 578.8  | 620.3  | 646.7  |
| 62.2   | 70°   | 73.5   | 133.9  | 182.9  | 252.6  | 314.8  | 371.4  | 411.0  | 467.6  | 501.5  |
| 32.1   | 72.5° | 54.7   | 84.8   | 126.3  | 194.2  | 228.1  | 294.1  | 333.7  | 375.2  | 405.3  |
| 26.4   | 75°   | 30.2   | 56.6   | 101.8  | 152.7  | 182.9  | 239.4  | 275.3  | 303.5  | 313.0  |
| 15.1   | 77.5° | 18.9   | 43.4   | 84.8   | 118.8  | 143.3  | 194.2  | 184.8  | 211.2  | 233.8  |
| 11.3   | 80°   | 13.2   | 32.1   | 66.0   | 98.0   | 99.9   | 124.4  | 147.1  | 169.7  | 184.8  |
| 7.5    | 82.5° | 9.4    | 26.4   | 49.0   | 75.4   | 66.0   | 96.2   | 115.0  | 132.0  | 96.2   |
| 5.7    | 85°   | 7.5    | 18.9   | 24.5   | 45.2   | 37.7   | 67.9   | 58.4   | 56.6   | 37.7   |
| 3.8    | 87.5° | 5.7    | 9.4    | 17.0   | 20.7   | 15.1   | 15.1   | 18.9   | 22.6   | 18.9   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





180°  
5535.3  
5397.6  
5435.4  
5467.4  
5514.5  
5610.7  
5772.8  
5985.9  
6219.6  
6415.7  
**6519.4**  
6400.6  
6281.9  
6170.6  
6053.7  
5918.0  
5770.9  
5612.6  
5439.1  
5214.8  
4916.9  
4651.1  
4387.1  
3712.2  
2978.8  
2105.9  
1085.9  
646.7  
503.4  
411.0  
307.3  
237.5  
186.6  
69.8  
37.7  
18.9  
0.0

(END OF REPORT)