

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: P638039

Luminaire Tested: **IFLD-L-SA8B-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638039  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27268.8 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

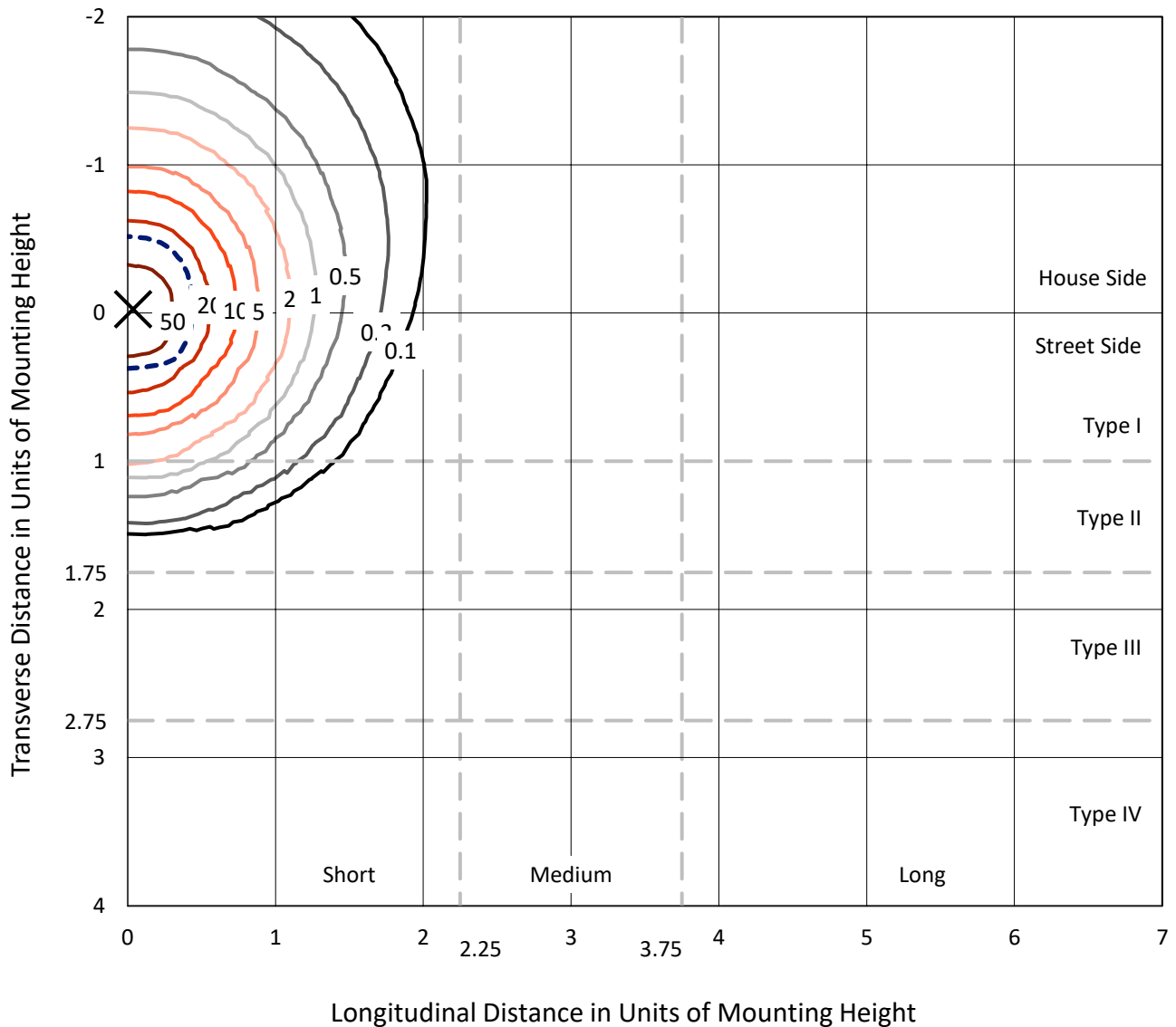
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

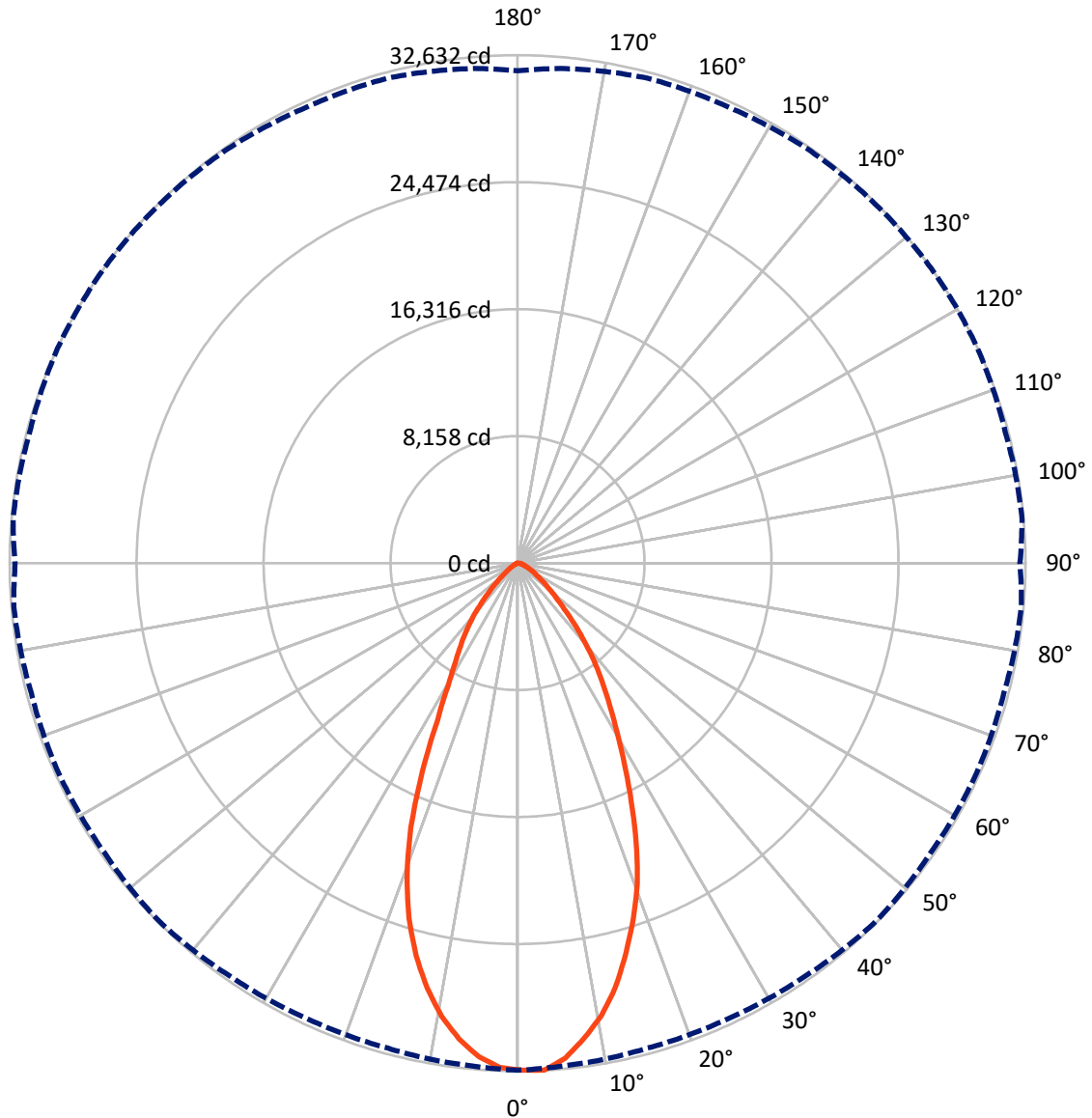
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 81.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15473.4  | 0.0    | 15473.4 |
|                    | % Fixture | 56.7     | 0.0    | 56.7    |
| <b>Street Side</b> | Lumens    | 11795.4  | 0.0    | 11795.4 |
|                    | % Fixture | 43.3     | 0.0    | 43.3    |
| <b>Total</b>       | Lumens    | 27268.8  | 0.0    | 27268.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 2958.4  | 10.8      |
| 10°-20°   | 7052.0  | 25.9      |
| 20°-30°   | 7182.4  | 26.3      |
| 30°-40°   | 5355.9  | 19.6      |
| 40°-50°   | 2798.0  | 10.3      |
| 50°-60°   | 1176.9  | 4.3       |
| 60°-70°   | 480.6   | 1.8       |
| 70°-80°   | 202.3   | 0.7       |
| 80°-90°   | 62.3    | 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°    | 27268.8 | 100.0     |
| 0°-180°   | 27268.8 | 100.0     |



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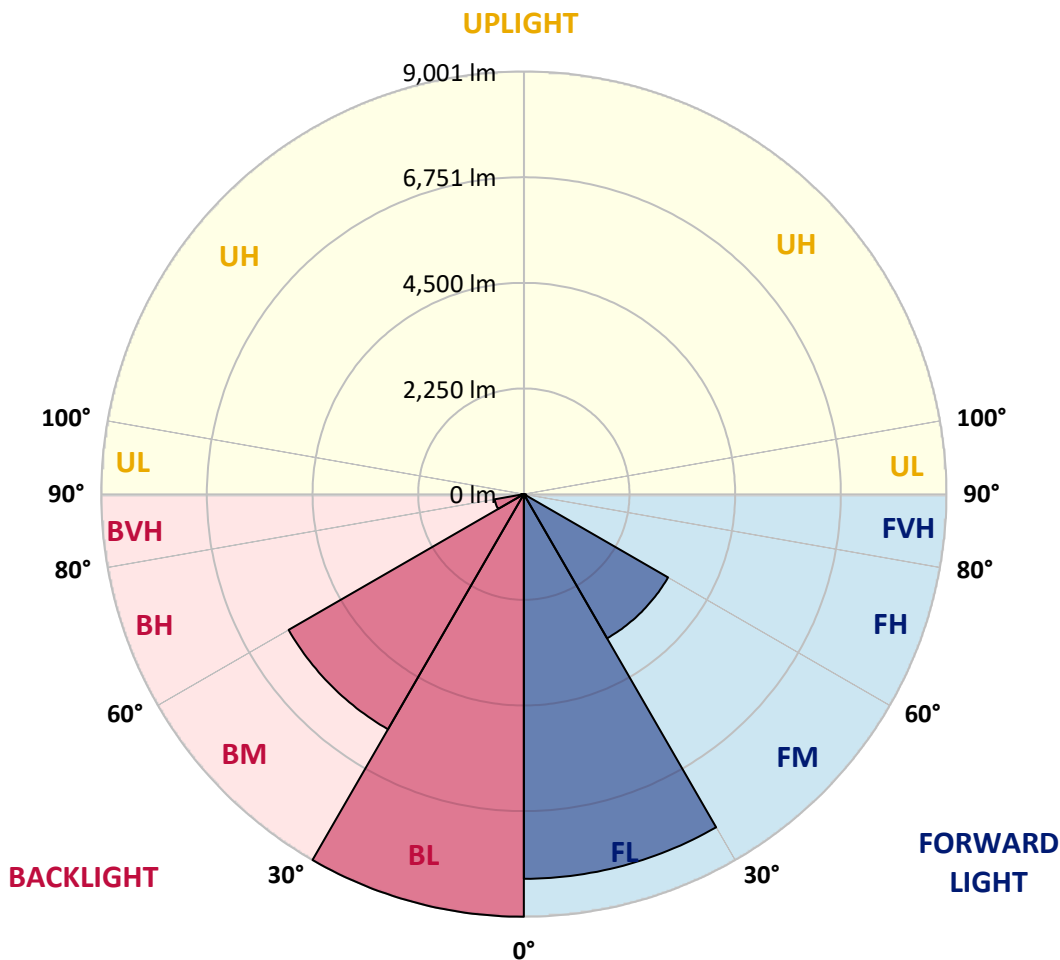
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 8191.9 | 30.0      |                         |      |         |
| FM (30°-60°)   | 3546.4 | 13.0      |                         |      |         |
| FH (60°-80°)   | 51.3   | 0.2       |                         |      | G0/660  |
| FVH (80°-90°)  | 5.8    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 9000.9 | 33.0      | B5                      |      |         |
| BM (30°-60°)   | 5784.4 | 21.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 631.6  | 2.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 56.5   | 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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 |
| 2.5°  | 32583.1 | 32450.0 | 32260.8 | 32243.3 | 32341.4 | 32555.1 | 32418.5 | 32425.5 | 32341.4 | 32485.0 |
| 5°    | 32071.7 | 31945.6 | 31816.0 | 31644.4 | 31788.0 | 31879.0 | 31809.0 | 31731.9 | 31623.3 | 31763.4 |
| 7.5°  | 31104.9 | 31034.9 | 30842.2 | 30765.1 | 30852.7 | 30954.3 | 30803.7 | 30782.7 | 30632.0 | 30814.2 |
| 10°   | 29626.7 | 29598.7 | 29409.6 | 29364.0 | 29441.1 | 29595.2 | 29528.7 | 29514.6 | 29420.1 | 29402.6 |
| 12.5° | 28092.5 | 27983.9 | 27749.2 | 27735.2 | 27850.8 | 28082.0 | 27903.4 | 27731.7 | 27784.3 | 27829.8 |
| 15°   | 24141.3 | 24025.7 | 24607.2 | 25521.4 | 26001.3 | 25983.8 | 26036.4 | 25829.7 | 25766.6 | 25787.7 |
| 17.5° | 19191.9 | 18995.7 | 19205.9 | 20621.0 | 22901.3 | 24225.4 | 23861.1 | 23416.3 | 23178.1 | 23020.4 |
| 20°   | 16564.8 | 16575.3 | 16536.7 | 16901.0 | 18323.2 | 21342.6 | 21255.0 | 20396.8 | 20085.1 | 19955.5 |
| 22.5° | 14967.5 | 14907.9 | 14823.9 | 14939.5 | 15321.3 | 17093.7 | 18281.1 | 17493.0 | 17384.4 | 17240.8 |
| 25°   | 13401.7 | 13401.7 | 13300.2 | 13415.7 | 13524.3 | 13548.9 | 14739.8 | 15062.1 | 14851.9 | 14851.9 |
| 27.5° | 12046.2 | 11976.1 | 11930.6 | 11983.1 | 11839.5 | 11149.4 | 11300.1 | 12949.9 | 12806.3 | 12718.7 |
| 30°   | 10701.1 | 10680.1 | 10603.0 | 10673.1 | 10140.6 | 9363.0  | 9047.7  | 10928.8 | 11079.4 | 11047.9 |
| 32.5° | 8834.1  | 8918.1  | 9261.4  | 9370.0  | 8459.3  | 7832.3  | 7531.0  | 9072.3  | 9674.8  | 9650.2  |
| 35°   | 6003.8  | 6073.9  | 6466.2  | 7762.2  | 7012.6  | 6564.3  | 6476.7  | 7215.8  | 8207.1  | 8301.7  |
| 37.5° | 4781.3  | 4770.8  | 4882.9  | 5114.1  | 5636.0  | 5527.4  | 5502.9  | 5695.6  | 6693.9  | 6735.9  |
| 40°   | 3940.7  | 3926.6  | 3923.1  | 3734.0  | 3604.4  | 4595.7  | 4529.1  | 4413.5  | 5278.7  | 5362.8  |
| 42.5° | 3177.0  | 3191.1  | 3201.6  | 2788.2  | 2599.1  | 3544.8  | 3506.3  | 3387.2  | 4140.3  | 4238.4  |
| 45°   | 2494.0  | 2490.5  | 2511.5  | 2077.2  | 2024.6  | 2266.3  | 2620.1  | 2525.5  | 3124.5  | 3229.6  |
| 47.5° | 1292.5  | 1338.1  | 1621.8  | 1607.8  | 1632.3  | 1607.8  | 1982.6  | 1958.1  | 2350.4  | 2518.5  |
| 50°   | 868.7   | 882.7   | 907.2   | 910.7   | 1285.5  | 1183.9  | 1345.1  | 1523.7  | 1646.3  | 1905.5  |
| 52.5° | 672.5   | 683.0   | 620.0   | 581.5   | 788.1   | 875.7   | 882.7   | 1054.3  | 1148.9  | 1411.6  |
| 55°   | 374.8   | 420.3   | 451.9   | 455.4   | 434.3   | 648.0   | 644.5   | 781.1   | 854.7   | 1029.8  |
| 57.5° | 49.0    | 59.5    | 91.1    | 294.2   | 290.7   | 360.8   | 451.9   | 567.5   | 609.5   | 753.1   |
| 60°   | 3.5     | 7.0     | 10.5    | 45.5    | 192.7   | 210.2   | 308.2   | 353.8   | 423.8   | 528.9   |
| 62.5° | 0.0     | 0.0     | 3.5     | 10.5    | 38.5    | 122.6   | 161.1   | 185.6   | 248.7   | 346.8   |
| 65°   | 0.0     | 0.0     | 3.5     | 7.0     | 14.0    | 45.5    | 63.1    | 101.6   | 147.1   | 213.7   |
| 67.5° | 0.0     | 0.0     | 3.5     | 7.0     | 10.5    | 17.5    | 28.0    | 45.5    | 77.1    | 129.6   |
| 70°   | 0.0     | 0.0     | 3.5     | 7.0     | 10.5    | 14.0    | 21.0    | 28.0    | 42.0    | 70.1    |
| 72.5° | 0.0     | 0.0     | 3.5     | 3.5     | 7.0     | 17.5    | 17.5    | 21.0    | 28.0    | 38.5    |
| 75°   | 0.0     | 0.0     | 3.5     | 7.0     | 10.5    | 17.5    | 17.5    | 17.5    | 21.0    | 24.5    |
| 77.5° | 0.0     | 0.0     | 3.5     | 7.0     | 10.5    | 17.5    | 14.0    | 17.5    | 17.5    | 17.5    |
| 80°   | 0.0     | 0.0     | 3.5     | 7.0     | 10.5    | 17.5    | 21.0    | 17.5    | 14.0    | 14.0    |
| 82.5° | 0.0     | 0.0     | 3.5     | 10.5    | 10.5    | 24.5    | 24.5    | 24.5    | 10.5    | 10.5    |
| 85°   | 0.0     | 0.0     | 7.0     | 10.5    | 17.5    | 28.0    | 28.0    | 21.0    | 10.5    | 7.0     |
| 87.5° | 0.0     | 0.0     | 3.5     | 7.0     | 7.0     | 14.0    | 21.0    | 17.5    | 7.0     | 3.5     |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 32579.6 | 0°    | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 | 32579.6 |
| 32274.9 | 2.5°  | 32534.1 | 32446.5 | 32611.1 | 32632.1 | 32562.1 | 32474.5 | 32271.4 | 32253.8 | 31900.1 |
| 31560.3 | 5°    | 31917.6 | 31774.0 | 31879.0 | 31949.1 | 31924.6 | 31830.0 | 31745.9 | 31668.9 | 31350.1 |
| 30400.9 | 7.5°  | 30768.6 | 30716.1 | 30765.1 | 30817.7 | 30919.3 | 30817.7 | 30782.7 | 30702.1 | 30386.8 |
| 29258.9 | 10°   | 29493.6 | 29395.5 | 29581.2 | 29556.7 | 29528.7 | 29500.6 | 29353.5 | 29367.5 | 28996.2 |
| 27703.7 | 12.5° | 27927.9 | 27763.2 | 27941.9 | 27962.9 | 27941.9 | 27843.8 | 27679.2 | 27749.2 | 27409.5 |
| 25602.0 | 15°   | 25822.7 | 25805.2 | 25934.8 | 26018.8 | 26078.4 | 25973.3 | 25917.3 | 25952.3 | 25749.1 |
| 22897.8 | 17.5° | 23237.6 | 23465.3 | 23889.1 | 24032.8 | 24036.3 | 24144.8 | 24113.3 | 24071.3 | 23920.7 |
| 19902.9 | 20°   | 20197.2 | 20635.0 | 21286.6 | 21955.6 | 22148.2 | 22057.2 | 22015.1 | 22092.2 | 21868.0 |
| 17090.2 | 22.5° | 17391.4 | 17766.2 | 18522.8 | 19500.1 | 20064.1 | 20120.1 | 20109.6 | 20043.1 | 19955.5 |
| 14837.9 | 25°   | 15009.5 | 15342.3 | 16067.4 | 16960.6 | 18043.0 | 18204.1 | 18211.1 | 18190.1 | 18113.0 |
| 12795.8 | 27.5° | 12998.9 | 13401.7 | 13801.1 | 14599.7 | 15752.1 | 16417.7 | 16333.6 | 16309.1 | 16281.0 |
| 11072.4 | 30°   | 11177.5 | 11685.4 | 12060.2 | 12557.6 | 13590.9 | 14491.1 | 14578.7 | 14536.6 | 14470.1 |
| 9646.7  | 32.5° | 9734.3  | 10035.5 | 10511.9 | 10848.2 | 11590.8 | 12610.1 | 12946.4 | 12914.8 | 12855.3 |
| 8361.2  | 35°   | 8480.3  | 8599.4  | 8974.2  | 9349.0  | 9842.9  | 10830.7 | 11328.1 | 11258.0 | 11247.5 |
| 6813.0  | 37.5° | 6984.6  | 7383.9  | 7590.6  | 7968.9  | 8315.7  | 9082.8  | 9769.3  | 9737.8  | 9741.3  |
| 5478.4  | 40°   | 5639.5  | 5870.7  | 6280.5  | 6599.3  | 6918.0  | 7478.5  | 8242.1  | 8263.1  | 8256.1  |
| 4241.9  | 42.5° | 4329.5  | 4553.6  | 4984.5  | 5331.3  | 5615.0  | 5961.8  | 6690.4  | 6714.9  | 6746.4  |
| 3303.1  | 45°   | 3380.2  | 3523.8  | 3839.1  | 4199.9  | 4501.1  | 4711.3  | 5264.7  | 5422.3  | 5425.8  |
| 2560.6  | 47.5° | 2623.6  | 2788.2  | 3012.4  | 3359.2  | 3653.4  | 3804.0  | 4206.9  | 4420.5  | 4410.0  |
| 1965.1  | 50°   | 2059.7  | 2210.3  | 2392.4  | 2665.6  | 2984.4  | 3103.5  | 3401.2  | 3611.4  | 3600.9  |
| 1481.7  | 52.5° | 1576.3  | 1768.9  | 1930.0  | 2140.2  | 2452.0  | 2553.5  | 2767.2  | 3008.9  | 2973.9  |
| 1085.9  | 55°   | 1194.5  | 1390.6  | 1541.2  | 1716.4  | 2000.1  | 2129.7  | 2276.8  | 2469.5  | 2476.5  |
| 840.7   | 57.5° | 900.2   | 1103.4  | 1240.0  | 1418.6  | 1632.3  | 1775.9  | 1888.0  | 2094.7  | 2091.2  |
| 574.5   | 60°   | 644.5   | 819.7   | 984.3   | 1169.9  | 1334.6  | 1499.2  | 1576.3  | 1772.4  | 1779.4  |
| 406.3   | 62.5° | 465.9   | 630.5   | 788.1   | 949.3   | 1096.4  | 1257.5  | 1327.6  | 1481.7  | 1502.7  |
| 266.2   | 65°   | 325.8   | 441.4   | 623.5   | 746.1   | 910.7   | 1029.8  | 1120.9  | 1254.0  | 1278.5  |
| 157.6   | 67.5° | 210.2   | 318.8   | 493.9   | 602.5   | 753.1   | 854.7   | 949.3   | 1054.3  | 1085.9  |
| 101.6   | 70°   | 126.1   | 241.7   | 367.8   | 483.4   | 620.0   | 711.1   | 802.1   | 893.2   | 910.7   |
| 49.0    | 72.5° | 80.6    | 168.1   | 266.2   | 392.3   | 497.4   | 595.5   | 676.0   | 742.6   | 690.1   |
| 31.5    | 75°   | 45.5    | 115.6   | 210.2   | 308.2   | 402.8   | 497.4   | 564.0   | 599.0   | 479.9   |
| 21.0    | 77.5° | 28.0    | 84.1    | 171.6   | 248.7   | 311.7   | 399.3   | 441.4   | 462.4   | 343.3   |
| 14.0    | 80°   | 17.5    | 63.1    | 143.6   | 203.2   | 203.2   | 294.2   | 343.3   | 360.8   | 248.7   |
| 10.5    | 82.5° | 14.0    | 45.5    | 112.1   | 154.1   | 136.6   | 220.7   | 269.7   | 273.2   | 175.1   |
| 7.0     | 85°   | 10.5    | 35.0    | 70.1    | 101.6   | 94.6    | 154.1   | 157.6   | 175.1   | 115.6   |
| 7.0     | 87.5° | 7.0     | 21.0    | 42.0    | 59.5    | 52.5    | 73.6    | 84.1    | 94.6    | 63.1    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
32579.6  
**31623.3**  
31094.4  
30320.3  
28870.1  
27311.4  
25503.9  
23696.5  
21706.9  
19787.4  
17853.8  
16116.4  
14386.0  
12697.7  
11131.9  
9629.2  
8133.5  
6641.3  
5334.8  
4371.5  
3600.9  
2977.4  
2476.5  
2084.2  
1761.9  
1495.7  
1271.5  
1082.4  
896.7  
641.0  
455.4  
322.3  
231.2  
161.1  
105.1  
56.0  
0.0

(END OF REPORT)