

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: P636218

Luminaire Tested: **IFLD-S-SA2D-940-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636218  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-940-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

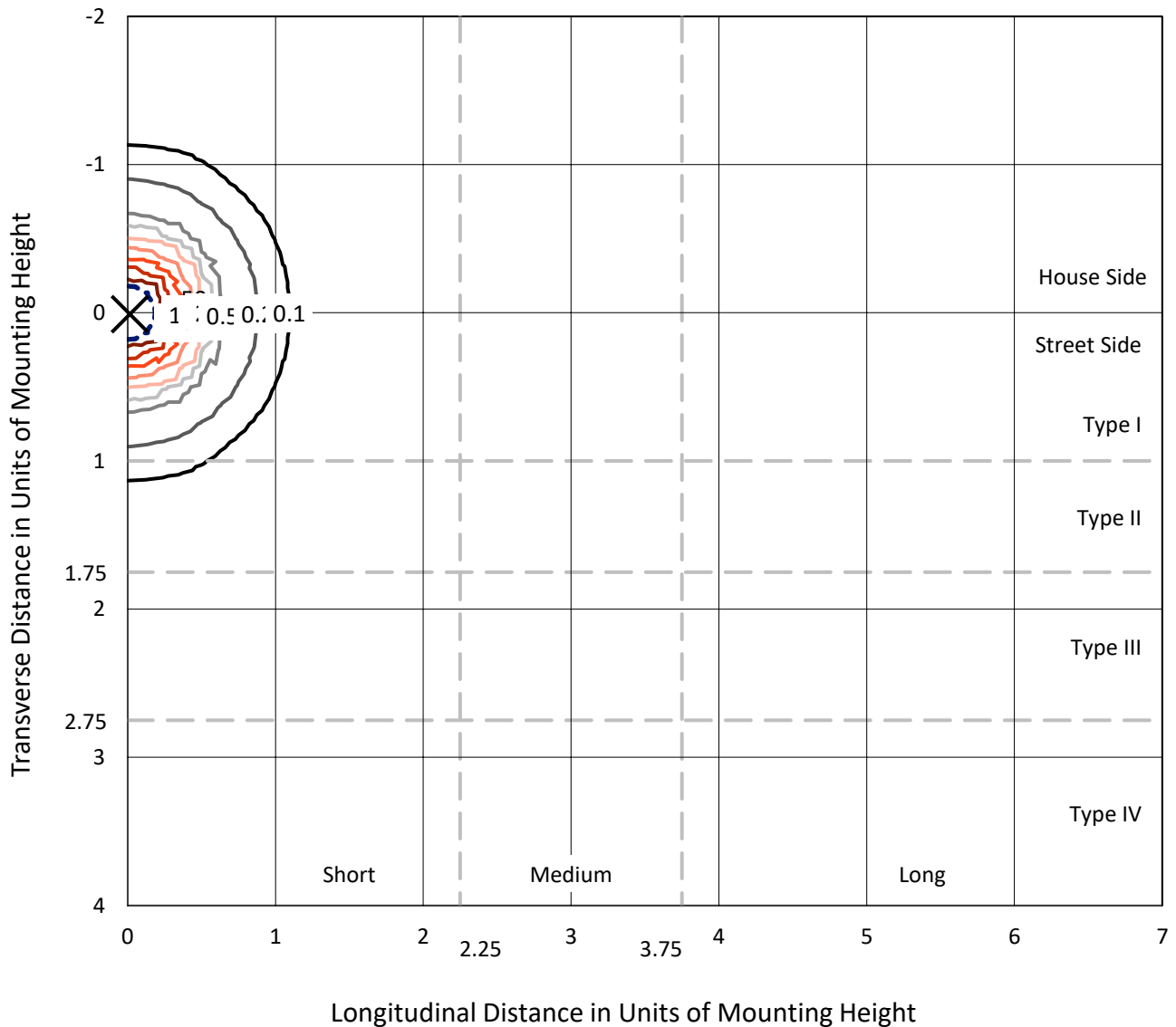
Lumens per Lamp: N/A  
Luminaire Lumens: 10814.9 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G0  
  
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

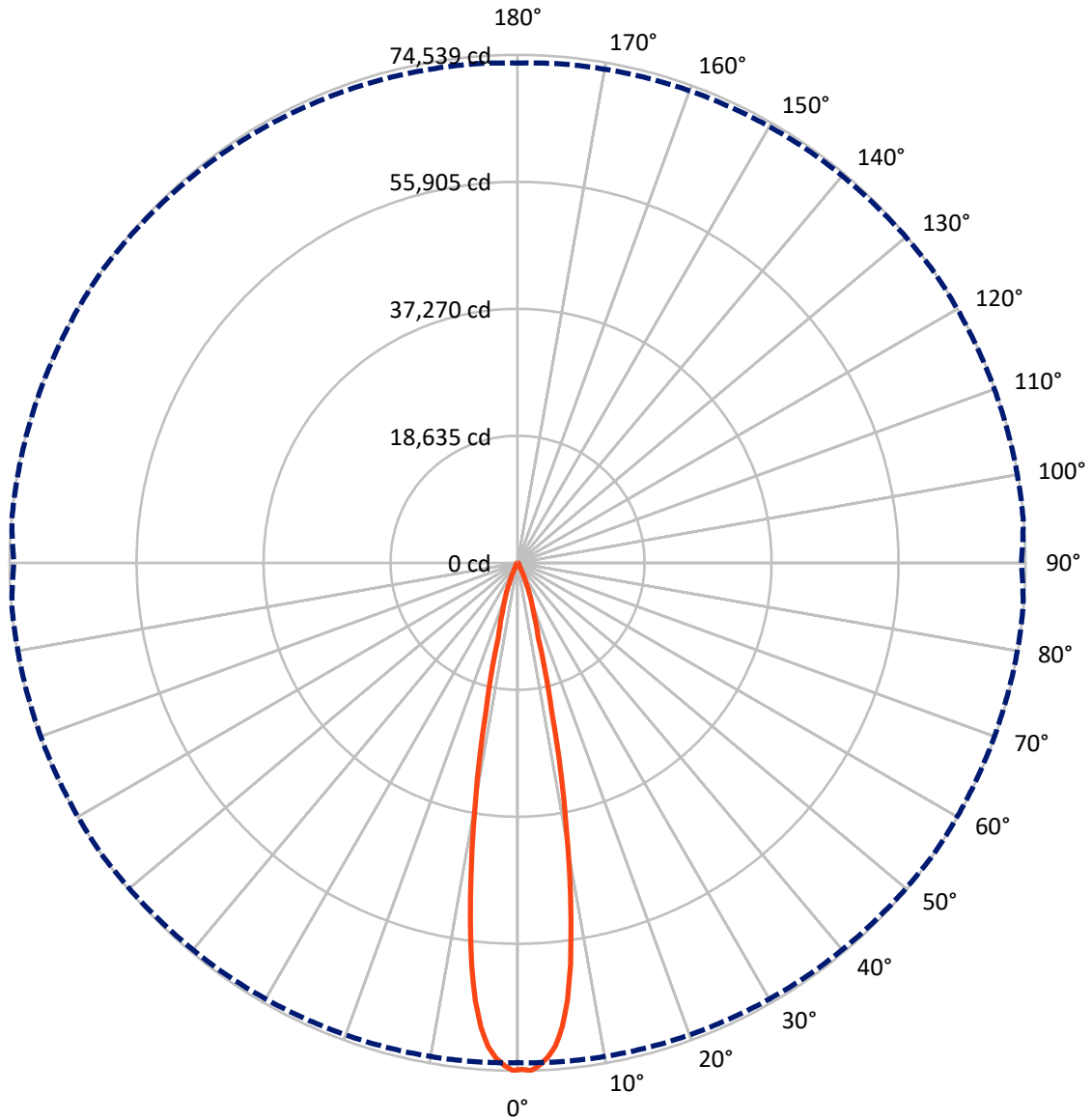
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 185.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 1-Deg Vertical

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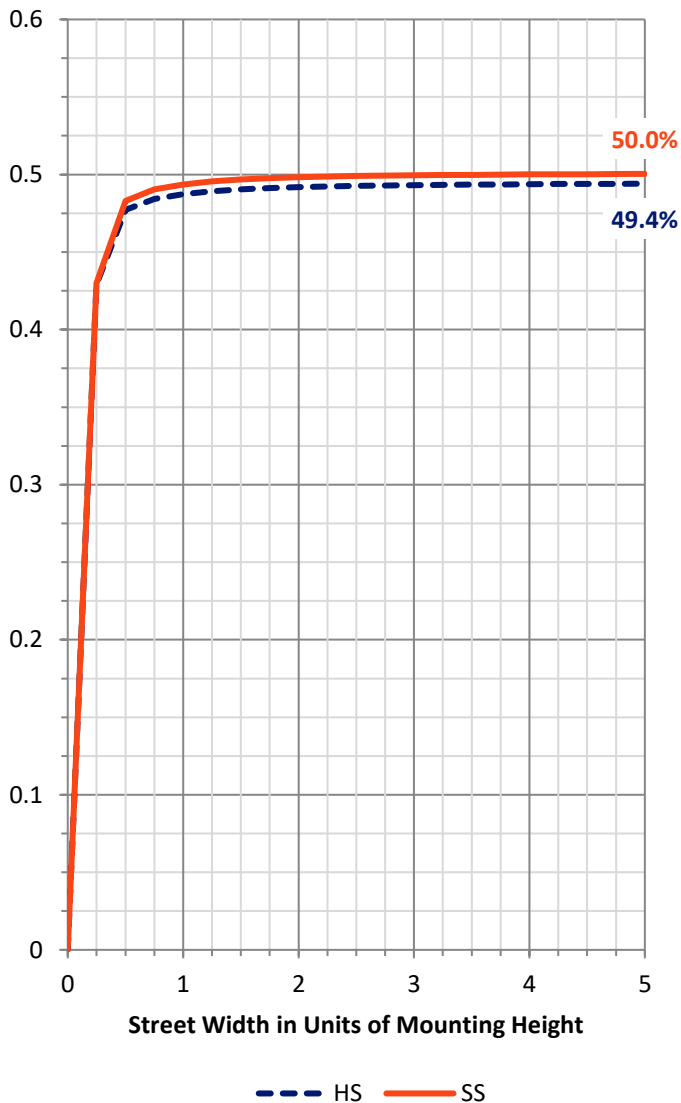
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5407.4   | 0.0    | 5407.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5407.4   | 0.0    | 5407.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10814.9  | 0.0    | 10814.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 5494.8  | 50.8      |
| 10°-20°   | 3894.2  | 36.0      |
| 20°-30°   | 912.5   | 8.4       |
| 30°-40°   | 190.7   | 1.8       |
| 40°-50°   | 123.0   | 1.1       |
| 50°-60°   | 91.1    | 0.8       |
| 60°-70°   | 61.9    | 0.6       |
| 70°-80°   | 33.1    | 0.3       |
| 80°-90°   | 13.6    | 0.1       |
| 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°    | 10814.9 | 100.0     |
| 0°-180°   | 10814.9 | 100.0     |

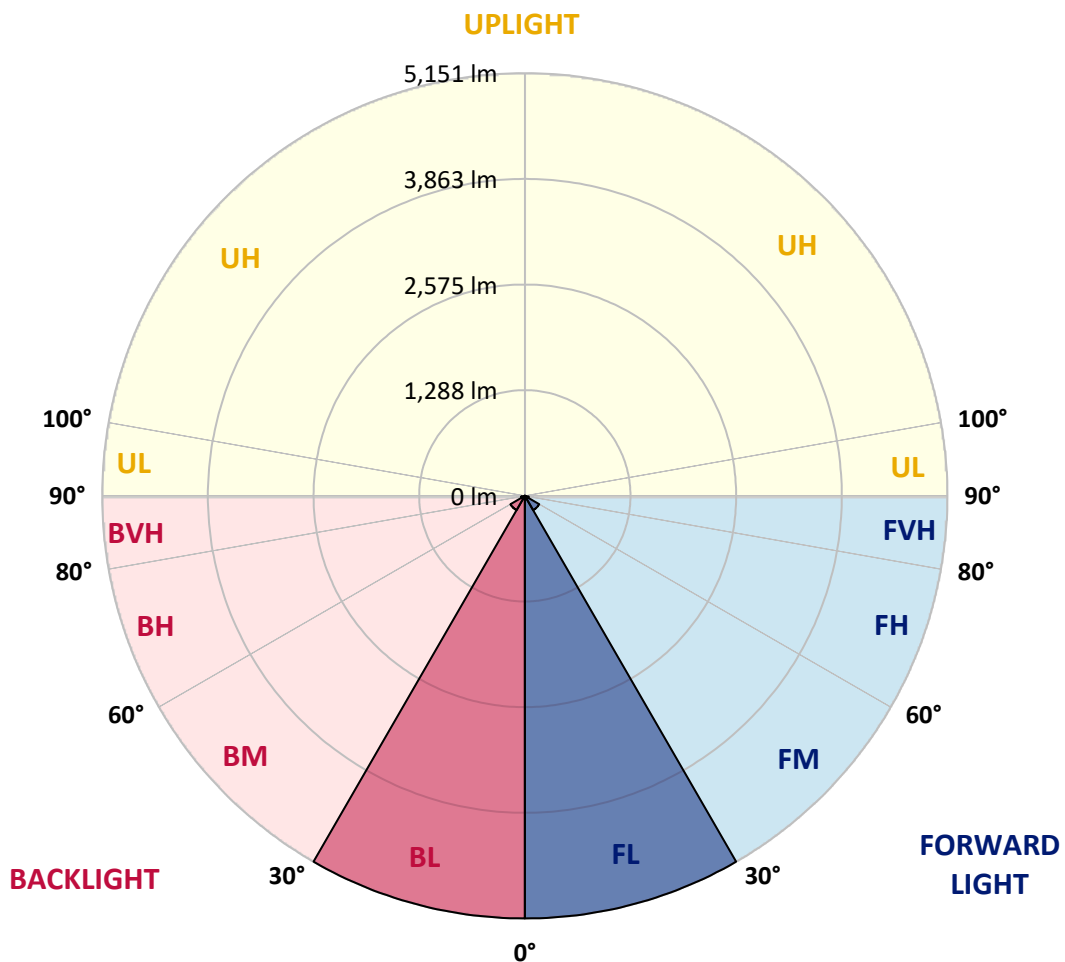


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 5150.7 | 47.6      |                         |      |        |
| FM (30°-60°)   | 202.4  | 1.9       |                         |      |        |
| FH (60°-80°)   | 47.5   | 0.4       |                         |      | G0/660 |
| FVH (80°-90°)  | 6.8    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 5150.7 | 47.6      | B5                      |      |        |
| BM (30°-60°)   | 202.4  | 1.9       | B0/220                  |      |        |
| BH (60°-80°)   | 47.5   | 0.4       | B0/110                  |      | G0/660 |
| BVH (80°-90°)  | 6.8    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 74348.1 | 74348.1 | 74348.1 | 74348.1 | 74348.1 | 74348.1 | 74348.1 | 74348.1 | 74348.1 | 74348.1 |
| 1°    | 73347.8 | 73483.6 | 73650.0 | 73801.1 | 74028.7 | 74214.2 | 74539.4 | 74470.5 | 74461.0 | 74474.4 |
| 2°    | 71926.8 | 72097.0 | 72353.3 | 72504.4 | 73091.5 | 73332.5 | 73824.1 | 73969.4 | 73852.8 | 73984.7 |
| 3°    | 69798.1 | 69937.7 | 70339.3 | 70635.8 | 71397.0 | 72047.3 | 72705.2 | 72923.2 | 72787.4 | 72848.7 |
| 4°    | 67263.9 | 67407.3 | 67893.1 | 68497.5 | 69597.2 | 70318.3 | 71106.3 | 71301.4 | 70857.6 | 70888.2 |
| 5°    | 64247.7 | 64314.7 | 64909.5 | 65460.3 | 66776.2 | 67650.2 | 68398.1 | 68459.3 | 68053.8 | 67898.9 |
| 6°    | 60854.8 | 60734.3 | 61281.3 | 61514.6 | 63149.9 | 64041.2 | 64588.2 | 64517.4 | 64209.5 | 64077.5 |
| 7°    | 56823.1 | 56658.6 | 57100.4 | 56974.2 | 58422.0 | 58930.7 | 59456.7 | 59215.7 | 58970.9 | 59275.0 |
| 8°    | 52158.2 | 52066.4 | 51781.5 | 52297.9 | 52584.8 | 53040.0 | 53038.0 | 52898.4 | 52890.8 | 53397.6 |
| 9°    | 45376.2 | 46223.5 | 45972.9 | 46514.2 | 46441.5 | 46420.5 | 46280.9 | 46191.0 | 45808.4 | 46391.8 |
| 10°   | 37928.6 | 38483.2 | 38905.9 | 39713.0 | 39556.2 | 39778.1 | 39001.5 | 39133.5 | 38879.1 | 39361.1 |
| 12.5° | 19632.7 | 20256.2 | 20621.5 | 21237.4 | 21914.5 | 22606.8 | 22383.0 | 22151.6 | 21805.4 | 22230.0 |
| 15°   | 9664.3  | 9911.0  | 10027.7 | 10653.1 | 11135.1 | 11309.1 | 11335.9 | 11131.3 | 11043.3 | 11135.1 |
| 17.5° | 5930.9  | 6017.0  | 6355.5  | 7074.7  | 7491.6  | 7594.9  | 7528.0  | 7304.2  | 7053.6  | 6948.4  |
| 20°   | 4293.8  | 4318.6  | 4446.8  | 4586.4  | 5143.0  | 5433.7  | 5326.6  | 5106.6  | 4875.2  | 4766.2  |
| 22.5° | 2803.9  | 2828.7  | 2870.8  | 2947.3  | 3096.5  | 3456.1  | 3339.4  | 3190.2  | 3033.4  | 3000.9  |
| 25°   | 1587.4  | 1587.4  | 1631.4  | 1709.9  | 1820.8  | 1847.6  | 1870.5  | 1711.8  | 1639.1  | 1606.6  |
| 27.5° | 885.5   | 891.3   | 900.8   | 931.4   | 986.9   | 981.2   | 956.3   | 914.2   | 864.5   | 812.9   |
| 30°   | 489.6   | 495.4   | 501.1   | 508.7   | 518.3   | 501.1   | 485.8   | 478.1   | 457.1   | 451.4   |
| 32.5° | 367.2   | 367.2   | 371.0   | 369.1   | 359.6   | 338.5   | 329.0   | 340.4   | 338.5   | 329.0   |
| 35°   | 302.2   | 302.2   | 306.0   | 313.7   | 294.5   | 279.2   | 271.6   | 286.9   | 286.9   | 281.2   |
| 37.5° | 246.7   | 248.6   | 250.5   | 260.1   | 254.4   | 237.2   | 235.2   | 239.1   | 241.0   | 239.1   |
| 40°   | 216.1   | 214.2   | 214.2   | 216.1   | 212.3   | 208.5   | 204.6   | 202.7   | 204.6   | 202.7   |
| 42.5° | 187.4   | 185.5   | 189.3   | 185.5   | 177.9   | 179.8   | 179.8   | 174.0   | 176.0   | 172.1   |
| 45°   | 164.5   | 162.6   | 164.5   | 160.7   | 154.9   | 156.8   | 156.8   | 149.2   | 149.2   | 147.3   |
| 47.5° | 145.4   | 145.4   | 145.4   | 147.3   | 137.7   | 135.8   | 137.7   | 135.8   | 130.1   | 128.1   |
| 50°   | 126.2   | 128.1   | 130.1   | 133.9   | 124.3   | 120.5   | 120.5   | 120.5   | 116.7   | 114.8   |
| 52.5° | 116.7   | 118.6   | 118.6   | 118.6   | 112.8   | 109.0   | 109.0   | 107.1   | 105.2   | 103.3   |
| 55°   | 112.8   | 112.8   | 112.8   | 105.2   | 103.3   | 101.4   | 95.6    | 93.7    | 91.8    | 91.8    |
| 57.5° | 107.1   | 107.1   | 105.2   | 99.5    | 93.7    | 93.7    | 86.1    | 84.2    | 82.2    | 82.2    |
| 60°   | 95.6    | 95.6    | 95.6    | 93.7    | 86.1    | 84.2    | 76.5    | 72.7    | 70.8    | 70.8    |
| 62.5° | 88.0    | 88.0    | 88.0    | 80.3    | 78.4    | 72.7    | 66.9    | 61.2    | 59.3    | 55.5    |
| 65°   | 80.3    | 80.3    | 80.3    | 72.7    | 68.9    | 63.1    | 55.5    | 49.7    | 45.9    | 40.2    |
| 67.5° | 74.6    | 74.6    | 72.7    | 66.9    | 61.2    | 53.6    | 45.9    | 40.2    | 32.5    | 28.7    |
| 70°   | 65.0    | 65.0    | 63.1    | 59.3    | 53.6    | 47.8    | 38.3    | 30.6    | 24.9    | 19.1    |
| 72.5° | 55.5    | 55.5    | 53.6    | 49.7    | 45.9    | 40.2    | 32.5    | 26.8    | 17.2    | 13.4    |
| 75°   | 45.9    | 45.9    | 44.0    | 40.2    | 38.3    | 34.4    | 28.7    | 21.0    | 13.4    | 5.7     |
| 77.5° | 38.3    | 38.3    | 36.3    | 34.4    | 32.5    | 28.7    | 24.9    | 17.2    | 9.6     | 3.8     |
| 80°   | 28.7    | 30.6    | 30.6    | 30.6    | 26.8    | 24.9    | 23.0    | 17.2    | 7.7     | 1.9     |
| 82.5° | 21.0    | 23.0    | 23.0    | 23.0    | 21.0    | 19.1    | 21.0    | 15.3    | 7.7     | 1.9     |
| 85°   | 15.3    | 15.3    | 17.2    | 17.2    | 17.2    | 17.2    | 23.0    | 17.2    | 5.7     | 1.9     |
| 87.5° | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     | 9.6     | 11.5    | 9.6     | 3.8     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C



90°  
74348.1  
73940.7  
73483.6  
72389.6  
70433.0  
67575.6  
63781.1  
59181.3  
51991.9  
45303.5  
38125.6  
21080.6  
10706.7  
6801.2  
4682.0  
2933.9  
1579.8  
814.8  
451.4  
323.2  
279.2  
239.1  
204.6  
174.0  
147.3  
128.1  
112.8  
101.4  
89.9  
82.2  
68.9  
51.6  
40.2  
26.8  
19.1  
11.5  
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