

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: P525259

Luminaire Tested: **IFLD-M-SA4D-927-U-11**

Issue Date: 05/27/2021



Test Information

Test Method: LM-79-08
Report Number: P525259
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-927-U-11
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 11 distribution lens
Light Source: (64) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

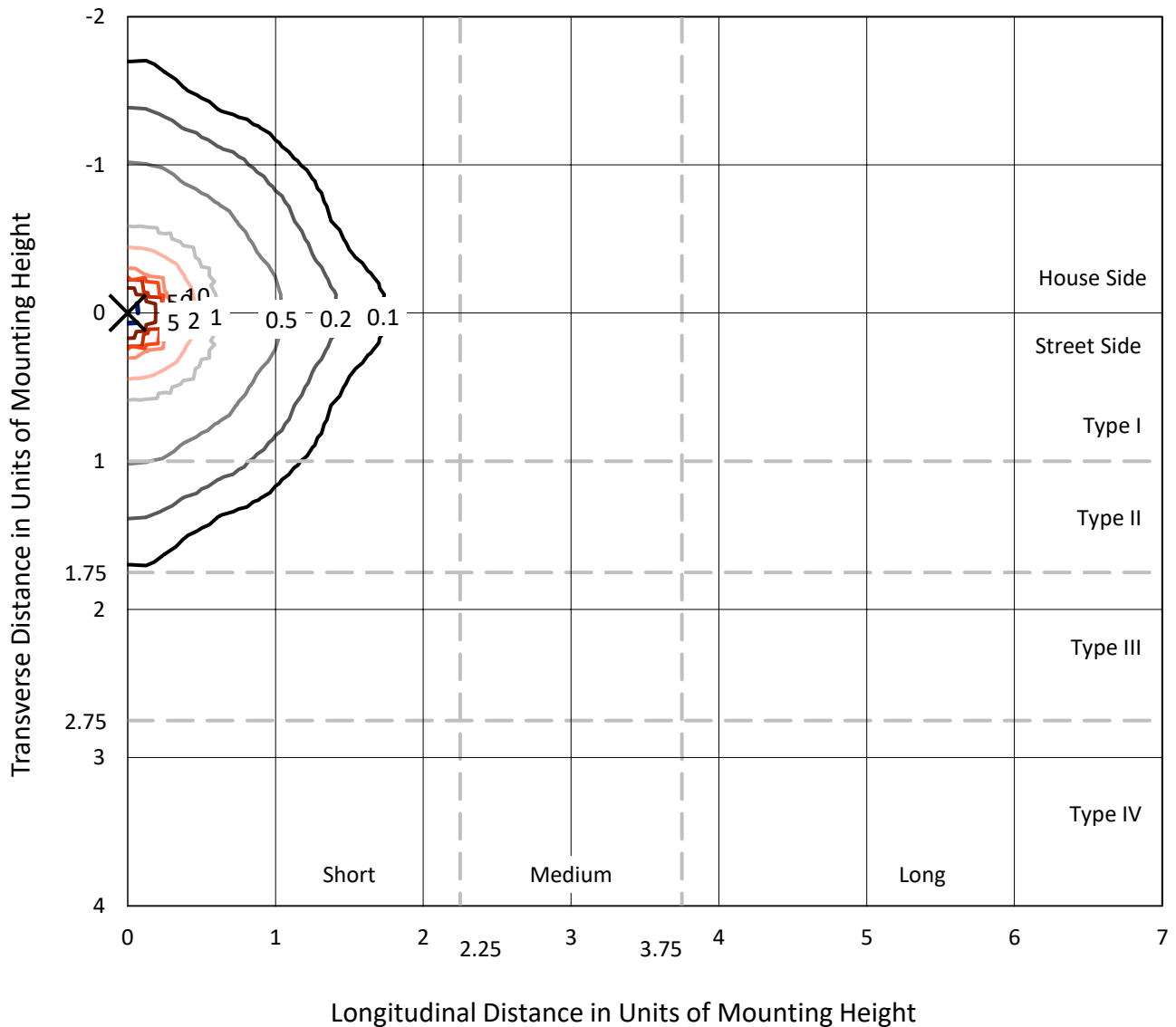
Lumens per Lamp: N/A
Luminaire Lumens: 11428.8 lumens
Efficiency: N/A
Efficacy: 45.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

Input Watts (W): 249.7
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

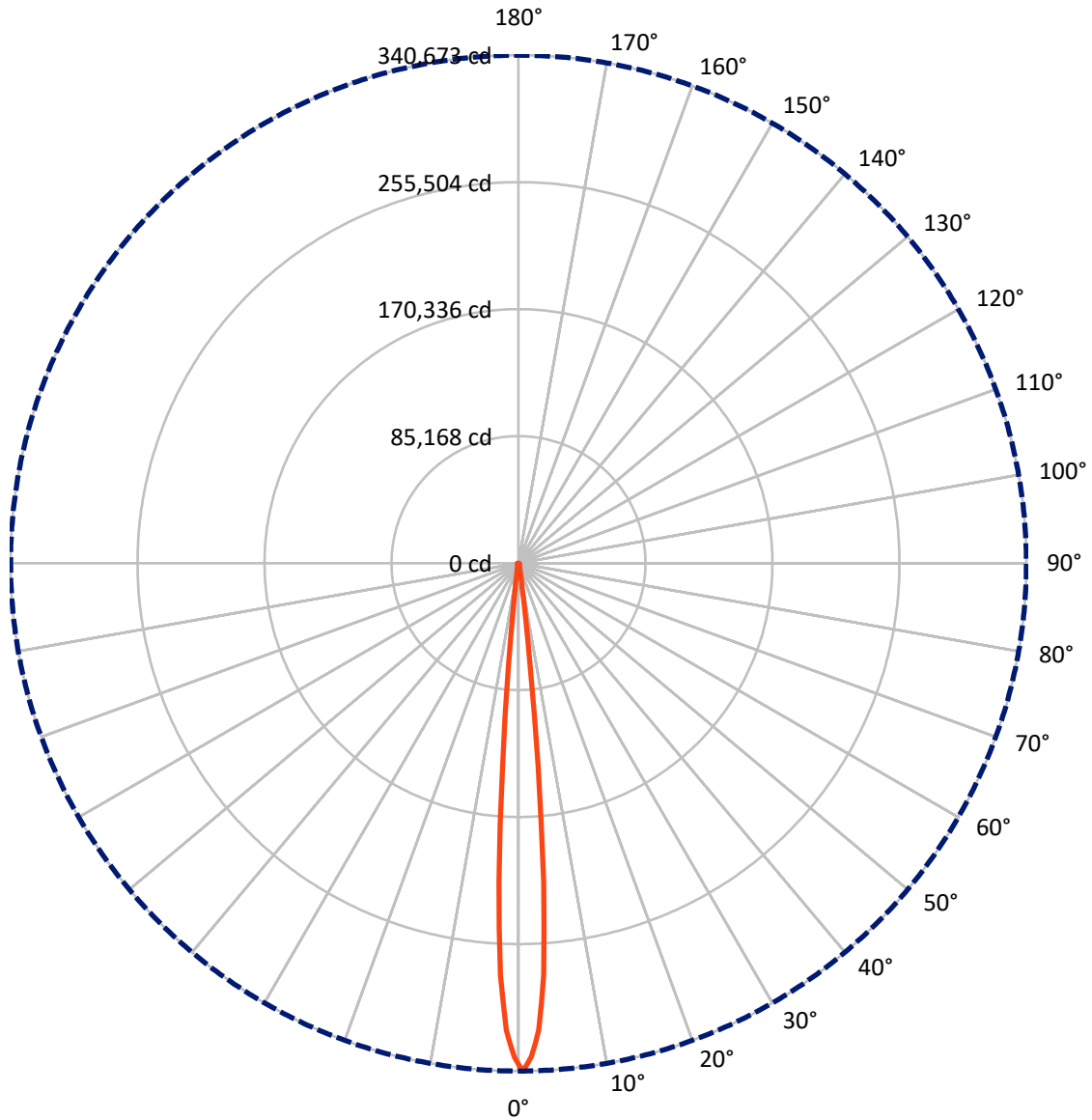
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 851.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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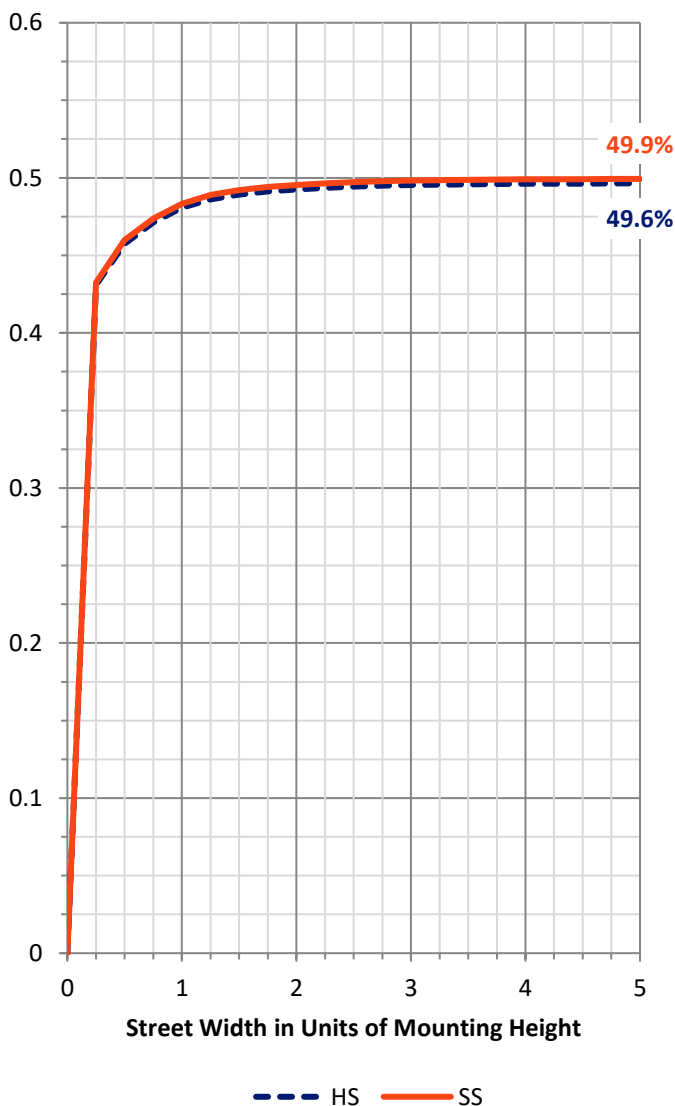
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5714.4 | 0.0 | 5714.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5714.4 | 0.0 | 5714.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11428.8 | 0.0 | 11428.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8777.3 | 76.8 |
| 10°-20° | 856.1 | 7.5 |
| 20°-30° | 457.4 | 4.0 |
| 30°-40° | 377.2 | 3.3 |
| 40°-50° | 420.0 | 3.7 |
| 50°-60° | 282.5 | 2.5 |
| 60°-70° | 180.2 | 1.6 |
| 70°-80° | 71.2 | 0.6 |
| 80°-90° | 7.0 | 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° | 11428.8 | 100.0 |
| 0°-180° | 11428.8 | 100.0 |

Coefficient of Utilization

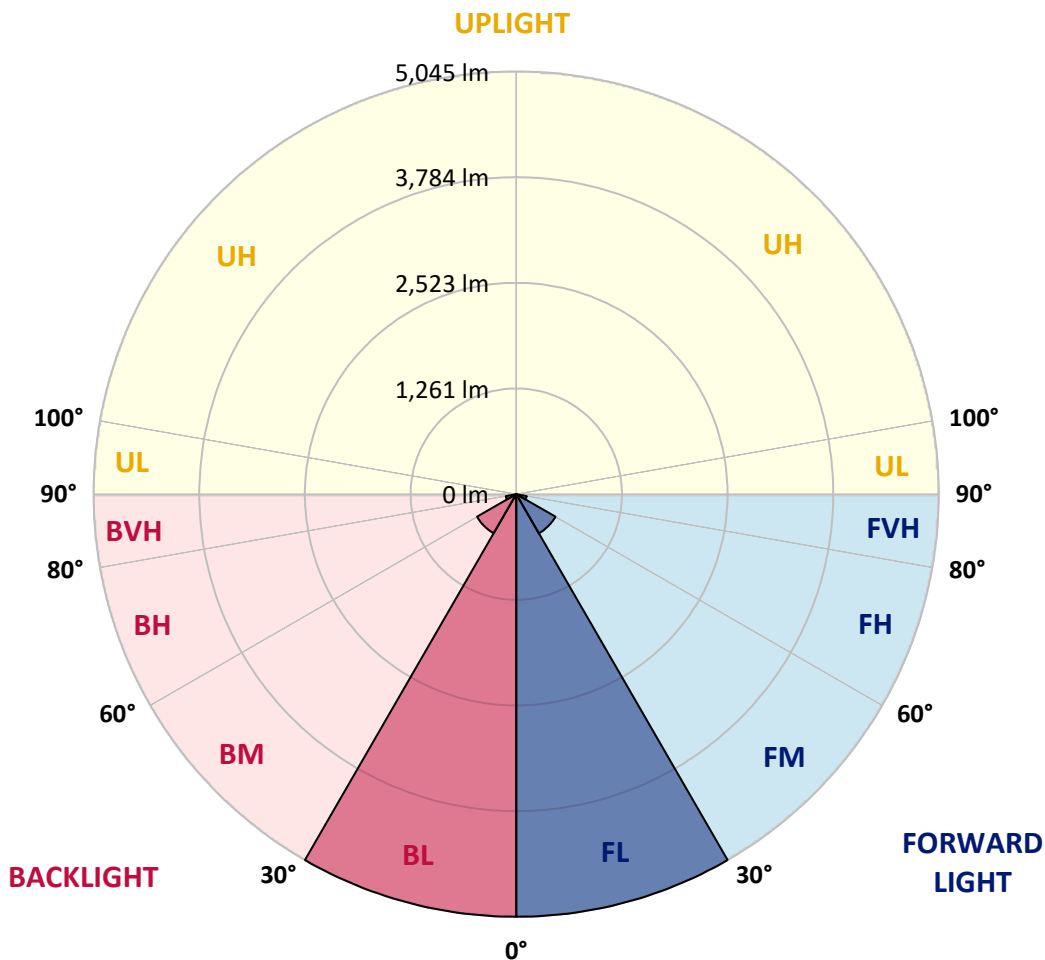


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 5045.4 | 44.1 | | | |
| FM (30°-60°) | 539.8 | 4.7 | | | |
| FH (60°-80°) | 125.7 | 1.1 | | | G0/660 |
| FVH (80°-90°) | 3.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 5045.4 | 44.1 | B5 | | |
| BM (30°-60°) | 539.8 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 125.7 | 1.1 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.5 | 0.0 | | | 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° | 340672.5 | 340672.5 | 340672.5 | 340672.5 | 340672.5 | 340672.5 | 340672.5 | 340672.5 | 340672.5 | 340672.5 |
| 1° | 331204.3 | 331780.3 | 331884.2 | 331198.3 | 329449.6 | 329862.3 | 329808.8 | 329900.9 | 329728.7 | 328636.0 |
| 2° | 313271.3 | 314123.4 | 313226.8 | 311302.8 | 307318.4 | 306368.3 | 303194.4 | 299652.4 | 295881.7 | 292102.1 |
| 3° | 276666.1 | 278459.4 | 277179.8 | 279234.4 | 271152.7 | 270336.2 | 263661.8 | 254861.6 | 245942.6 | 238716.0 |
| 4° | 214509.5 | 217822.9 | 218262.3 | 225043.6 | 218404.9 | 220480.2 | 212855.7 | 200629.3 | 187286.4 | 177078.9 |
| 5° | 136732.8 | 141352.6 | 143959.4 | 150319.0 | 153377.1 | 161340.1 | 157625.8 | 145354.8 | 129936.7 | 118194.1 |
| 6° | 69086.4 | 71601.1 | 78605.1 | 85597.1 | 93405.7 | 103972.5 | 105403.6 | 94631.9 | 82360.9 | 71090.5 |
| 7° | 32205.1 | 33244.2 | 38184.7 | 39675.2 | 48603.0 | 60066.5 | 61669.7 | 55764.3 | 49291.8 | 40557.0 |
| 8° | 16641.4 | 17045.2 | 18850.4 | 19957.8 | 25165.5 | 31759.7 | 32885.0 | 29167.8 | 26519.4 | 22125.2 |
| 9° | 10249.1 | 10427.2 | 11104.2 | 11353.6 | 13301.3 | 16234.7 | 16632.5 | 15076.7 | 14358.2 | 12841.1 |
| 10° | 7107.9 | 7202.9 | 7520.6 | 7585.9 | 8236.1 | 9201.0 | 9236.7 | 8726.0 | 8737.9 | 8357.8 |
| 12.5° | 3788.5 | 3818.2 | 3907.2 | 3916.2 | 4040.9 | 4141.8 | 4118.0 | 4121.0 | 4171.5 | 4121.0 |
| 15° | 2422.7 | 2437.6 | 2491.0 | 2502.9 | 2568.2 | 2603.8 | 2586.0 | 2583.1 | 2600.9 | 2568.2 |
| 17.5° | 1728.0 | 1736.9 | 1775.5 | 1808.1 | 1849.7 | 1861.6 | 1855.6 | 1849.7 | 1849.7 | 1820.0 |
| 20° | 1347.9 | 1359.8 | 1386.5 | 1419.2 | 1440.0 | 1460.8 | 1463.7 | 1460.8 | 1451.9 | 1437.0 |
| 22.5° | 1146.0 | 1152.0 | 1160.9 | 1175.7 | 1190.6 | 1199.5 | 1205.4 | 1208.4 | 1205.4 | 1199.5 |
| 25° | 997.6 | 1003.5 | 1021.3 | 1030.3 | 1030.3 | 1033.2 | 1045.1 | 1051.0 | 1054.0 | 1042.1 |
| 27.5° | 736.3 | 751.2 | 777.9 | 792.7 | 792.7 | 798.7 | 807.6 | 819.5 | 831.3 | 810.5 |
| 30° | 570.1 | 581.9 | 611.6 | 611.6 | 608.7 | 614.6 | 623.5 | 641.3 | 659.1 | 635.4 |
| 32.5° | 513.6 | 513.6 | 519.6 | 522.5 | 522.5 | 531.5 | 537.4 | 552.2 | 567.1 | 561.1 |
| 35° | 537.4 | 522.5 | 504.7 | 504.7 | 510.7 | 528.5 | 531.5 | 546.3 | 561.1 | 581.9 |
| 37.5° | 780.9 | 736.3 | 671.0 | 659.1 | 659.1 | 679.9 | 671.0 | 679.9 | 706.6 | 783.8 |
| 40° | 709.6 | 674.0 | 635.4 | 581.9 | 581.9 | 611.6 | 590.8 | 602.7 | 665.1 | 712.6 |
| 42.5° | 632.4 | 632.4 | 590.8 | 540.4 | 540.4 | 555.2 | 549.3 | 555.2 | 626.5 | 665.1 |
| 45° | 584.9 | 584.9 | 573.0 | 492.9 | 504.7 | 513.6 | 513.6 | 513.6 | 608.7 | 620.5 |
| 47.5° | 558.2 | 558.2 | 528.5 | 454.3 | 469.1 | 472.1 | 478.0 | 472.1 | 546.3 | 587.9 |
| 50° | 498.8 | 504.7 | 454.3 | 400.8 | 418.6 | 418.6 | 427.5 | 415.7 | 472.1 | 540.4 |
| 52.5° | 430.5 | 436.4 | 359.3 | 317.7 | 338.5 | 335.5 | 347.4 | 329.6 | 374.1 | 469.1 |
| 55° | 383.0 | 380.0 | 296.9 | 258.3 | 282.1 | 279.1 | 285.0 | 264.2 | 302.8 | 403.8 |
| 57.5° | 332.5 | 338.5 | 243.5 | 210.8 | 237.5 | 231.6 | 240.5 | 216.7 | 249.4 | 359.3 |
| 60° | 293.9 | 302.8 | 207.8 | 178.1 | 204.9 | 198.9 | 207.8 | 181.1 | 213.8 | 323.6 |
| 62.5° | 282.1 | 282.1 | 184.1 | 151.4 | 178.1 | 172.2 | 178.1 | 151.4 | 190.0 | 296.9 |
| 65° | 335.5 | 317.7 | 166.3 | 124.7 | 151.4 | 145.5 | 151.4 | 124.7 | 166.3 | 285.0 |
| 67.5° | 445.4 | 424.6 | 157.4 | 98.0 | 121.7 | 112.8 | 121.7 | 100.9 | 145.5 | 267.2 |
| 70° | 231.6 | 246.4 | 157.4 | 77.2 | 92.0 | 92.0 | 89.1 | 77.2 | 121.7 | 196.0 |
| 72.5° | 133.6 | 136.6 | 121.7 | 59.4 | 71.3 | 77.2 | 68.3 | 59.4 | 89.1 | 145.5 |
| 75° | 74.2 | 83.1 | 77.2 | 44.5 | 53.4 | 59.4 | 50.5 | 44.5 | 62.3 | 103.9 |
| 77.5° | 44.5 | 50.5 | 44.5 | 29.7 | 35.6 | 32.7 | 35.6 | 29.7 | 41.6 | 68.3 |
| 80° | 23.8 | 23.8 | 23.8 | 17.8 | 17.8 | 20.8 | 20.8 | 17.8 | 23.8 | 35.6 |
| 82.5° | 8.9 | 8.9 | 8.9 | 5.9 | 8.9 | 8.9 | 8.9 | 11.9 | 11.9 | 14.8 |
| 85° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C



90°
340672.5
329713.8
294278.4
241456.4
179445.2
119699.4
71933.7
41613.9
22722.0
13170.6
8533.0
4177.4
2592.0
1828.9
1440.0
1202.5
1042.1
807.6
629.4
561.1
593.8
822.4
757.1
668.0
617.6
579.0
534.4
457.2
397.9
350.3
314.7
293.9
285.0
264.2
193.0
142.5
92.0
50.5
29.7
14.8
3.0
3.0
0.0

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