

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: P525264

Luminaire Tested: **IFLD-L-SA7D-927-U-11**

Issue Date: 05/27/2021



Test Information

Test Method: LM-79-08
Report Number: P525264
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-927-U-11
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 11 distribution lens
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

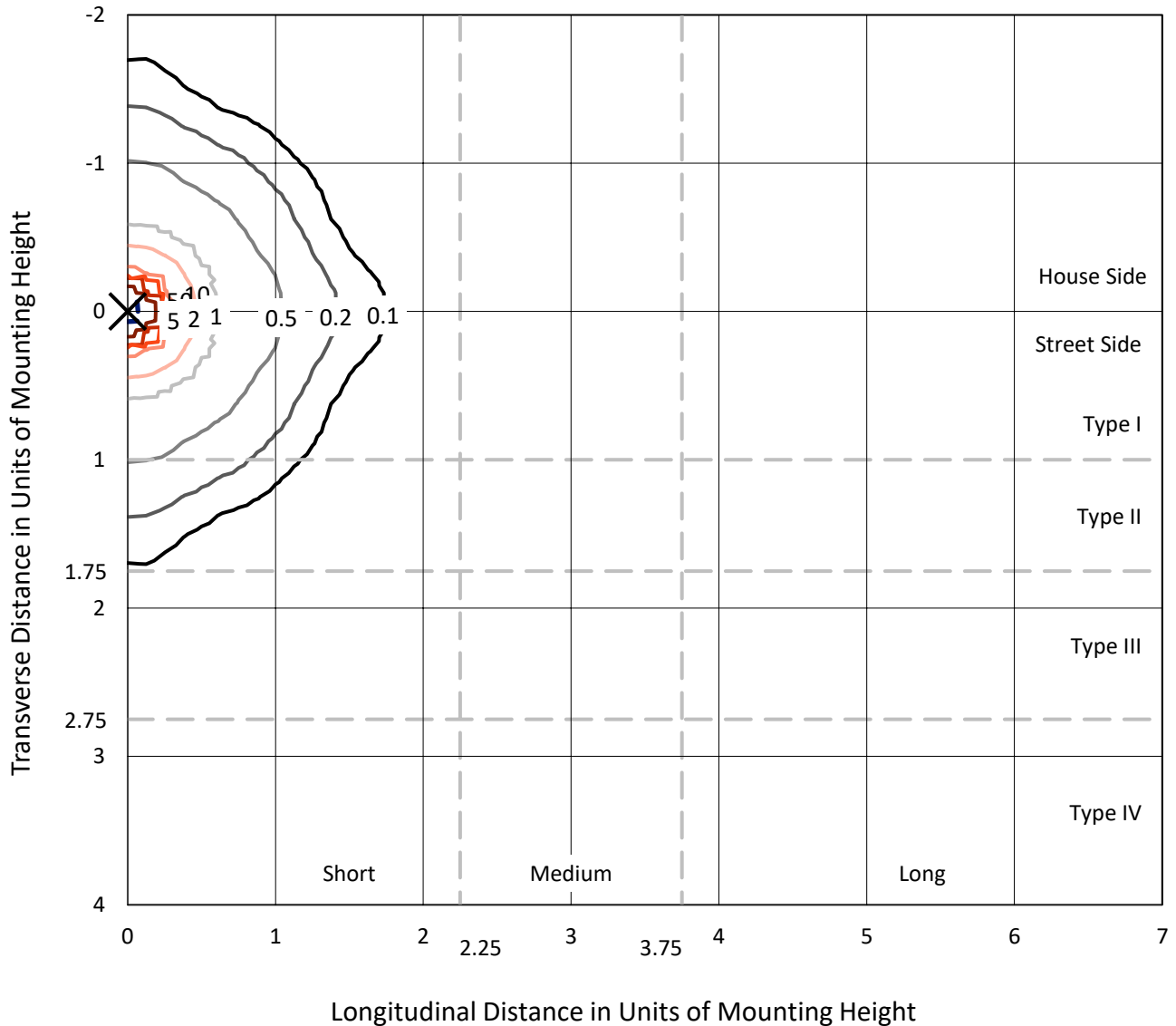
Lumens per Lamp: N/A
Luminaire Lumens: 17820.2 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

Input Watts (W): 422.6
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

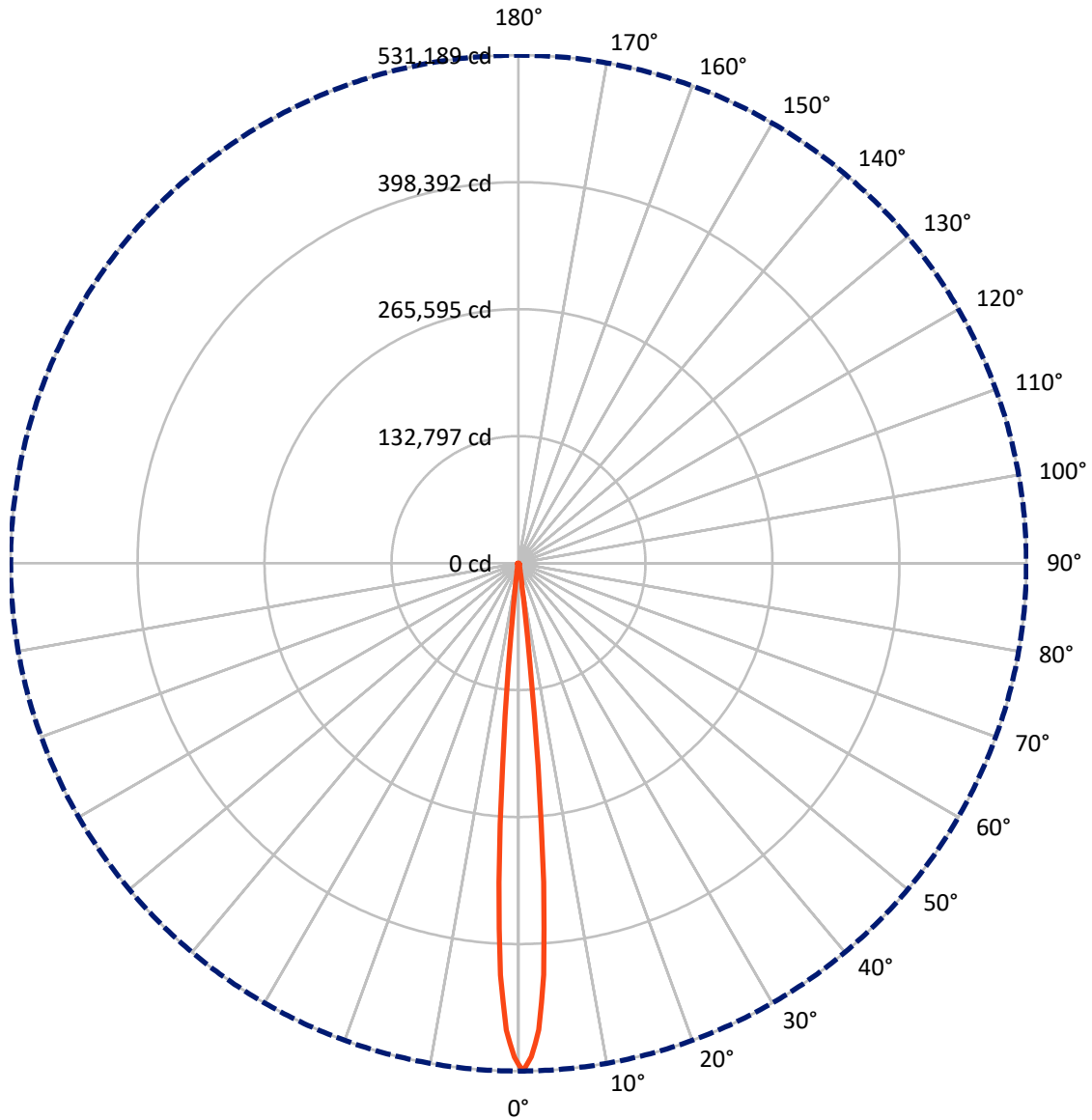
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 849.9 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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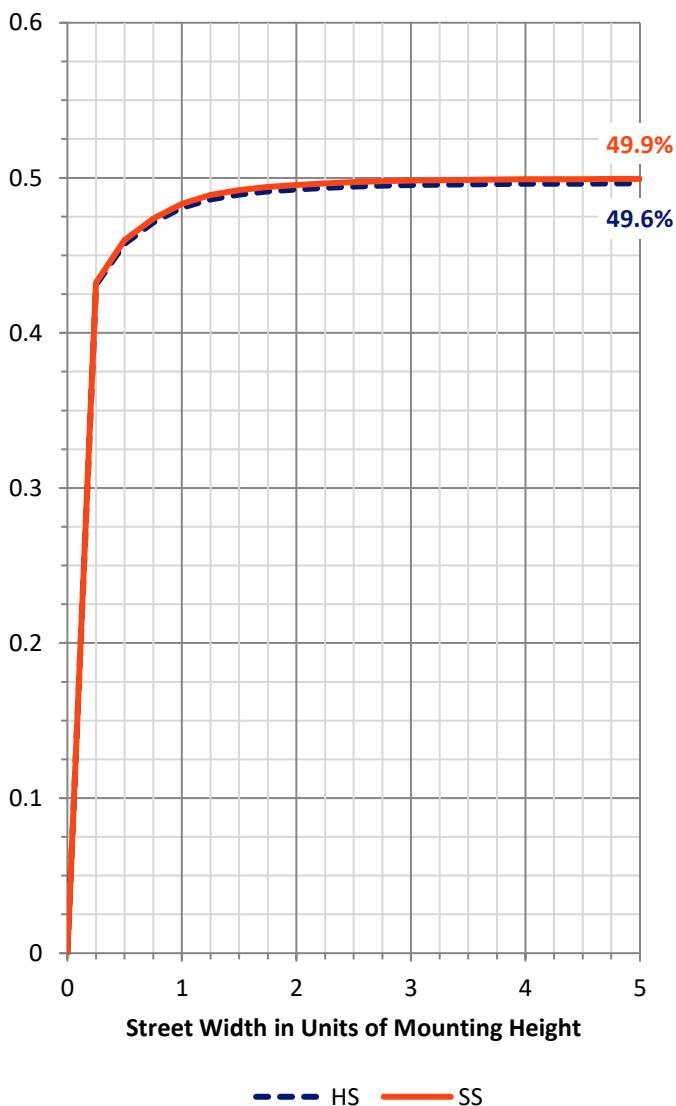
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8910.1 | 0.0 | 8910.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8910.1 | 0.0 | 8910.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17820.2 | 0.0 | 17820.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 13685.8 | 76.8 |
| 10°-20° | 1334.9 | 7.5 |
| 20°-30° | 713.1 | 4.0 |
| 30°-40° | 588.2 | 3.3 |
| 40°-50° | 654.9 | 3.7 |
| 50°-60° | 440.4 | 2.5 |
| 60°-70° | 281.0 | 1.6 |
| 70°-80° | 111.0 | 0.6 |
| 80°-90° | 10.9 | 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° | 17820.2 | 100.0 |
| 0°-180° | 17820.2 | 100.0 |

Coefficient of Utilization



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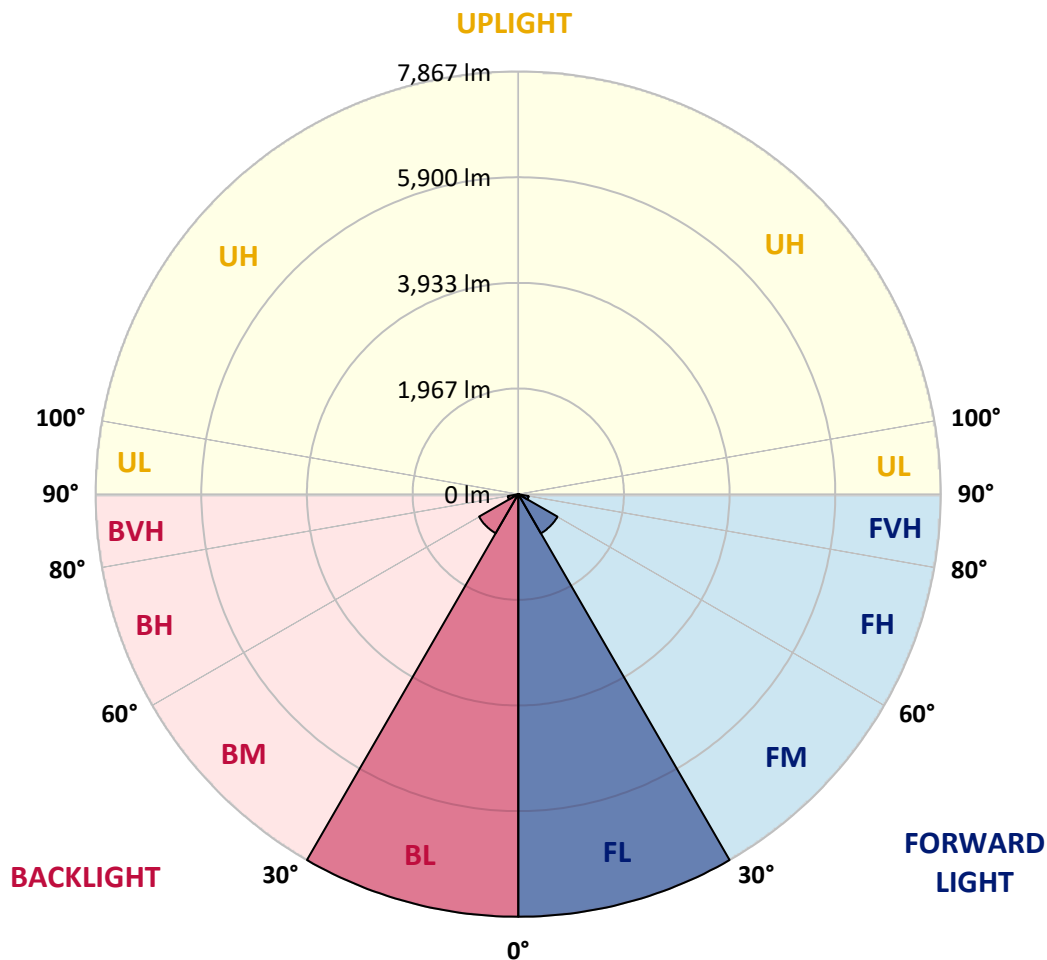
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 7866.9 | 44.1 | | | |
| FM (30°-60°) | 841.7 | 4.7 | | | |
| FH (60°-80°) | 196.0 | 1.1 | | | G0/660 |
| FVH (80°-90°) | 5.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 7866.9 | 44.1 | B5 | | |
| BM (30°-60°) | 841.7 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 196.0 | 1.1 | B1/500 | | G0/660 |
| BVH (80°-90°) | 5.4 | 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° | 531189.3 | 531189.3 | 531189.3 | 531189.3 | 531189.3 | 531189.3 | 531189.3 | 531189.3 | 531189.3 | 531189.3 |
| 1° | 516426.1 | 517324.2 | 517486.2 | 516416.8 | 513690.1 | 514333.6 | 514250.2 | 514393.8 | 514125.3 | 512421.6 |
| 2° | 488464.4 | 489793.0 | 488394.9 | 485395.1 | 479182.4 | 477700.9 | 472752.1 | 467229.2 | 461349.8 | 455456.6 |
| 3° | 431388.2 | 434184.4 | 432189.1 | 435392.6 | 422791.4 | 421518.3 | 411111.3 | 397389.7 | 383482.9 | 372214.9 |
| 4° | 334471.2 | 339637.7 | 340322.8 | 350896.4 | 340545.0 | 343781.0 | 331892.6 | 312828.7 | 292024.0 | 276108.1 |
| 5° | 213198.8 | 220402.2 | 224466.9 | 234383.1 | 239151.4 | 251567.5 | 245776.1 | 226642.7 | 202602.1 | 184292.7 |
| 6° | 107722.1 | 111643.2 | 122564.0 | 133466.3 | 145641.7 | 162117.8 | 164349.2 | 147553.6 | 128420.2 | 110846.9 |
| 7° | 50215.4 | 51835.7 | 59539.0 | 61863.0 | 75783.7 | 93657.9 | 96157.8 | 86949.8 | 76857.7 | 63237.9 |
| 8° | 25947.9 | 26577.5 | 29392.2 | 31119.0 | 39239.0 | 49520.9 | 51275.5 | 45479.5 | 41350.0 | 34498.5 |
| 9° | 15980.8 | 16258.5 | 17314.0 | 17702.9 | 20739.8 | 25313.7 | 25934.0 | 23508.2 | 22387.9 | 20022.3 |
| 10° | 11082.8 | 11231.0 | 11726.3 | 11828.2 | 12842.0 | 14346.6 | 14402.1 | 13605.9 | 13624.4 | 13031.8 |
| 12.5° | 5907.1 | 5953.4 | 6092.3 | 6106.2 | 6300.6 | 6458.0 | 6421.0 | 6425.6 | 6504.3 | 6425.6 |
| 15° | 3777.6 | 3800.8 | 3884.1 | 3902.6 | 4004.5 | 4060.0 | 4032.2 | 4027.6 | 4055.4 | 4004.5 |
| 17.5° | 2694.3 | 2708.2 | 2768.4 | 2819.3 | 2884.1 | 2902.6 | 2893.4 | 2884.1 | 2884.1 | 2837.8 |
| 20° | 2101.8 | 2120.3 | 2161.9 | 2212.9 | 2245.3 | 2277.7 | 2282.3 | 2277.7 | 2263.8 | 2240.6 |
| 22.5° | 1787.0 | 1796.2 | 1810.1 | 1833.3 | 1856.4 | 1870.3 | 1879.5 | 1884.2 | 1879.5 | 1870.3 |
| 25° | 1555.5 | 1564.7 | 1592.5 | 1606.4 | 1606.4 | 1611.0 | 1629.6 | 1638.8 | 1643.4 | 1624.9 |
| 27.5° | 1148.1 | 1171.2 | 1212.9 | 1236.1 | 1236.1 | 1245.3 | 1259.2 | 1277.7 | 1296.2 | 1263.8 |
| 30° | 888.8 | 907.4 | 953.7 | 953.7 | 949.0 | 958.3 | 972.2 | 1000.0 | 1027.7 | 990.7 |
| 32.5° | 800.9 | 800.9 | 810.1 | 814.8 | 814.8 | 828.7 | 837.9 | 861.1 | 884.2 | 875.0 |
| 35° | 837.9 | 814.8 | 787.0 | 787.0 | 796.3 | 824.0 | 828.7 | 851.8 | 875.0 | 907.4 |
| 37.5° | 1217.5 | 1148.1 | 1046.2 | 1027.7 | 1027.7 | 1060.1 | 1046.2 | 1060.1 | 1101.8 | 1222.2 |
| 40° | 1106.4 | 1050.9 | 990.7 | 907.4 | 907.4 | 953.7 | 921.3 | 939.8 | 1037.0 | 1111.1 |
| 42.5° | 986.1 | 986.1 | 921.3 | 842.6 | 842.6 | 865.7 | 856.4 | 865.7 | 976.8 | 1037.0 |
| 45° | 912.0 | 912.0 | 893.5 | 768.5 | 787.0 | 800.9 | 800.9 | 800.9 | 949.0 | 967.5 |
| 47.5° | 870.3 | 870.3 | 824.0 | 708.3 | 731.4 | 736.1 | 745.3 | 736.1 | 851.8 | 916.6 |
| 50° | 777.7 | 787.0 | 708.3 | 625.0 | 652.7 | 652.7 | 666.6 | 648.1 | 736.1 | 842.6 |
| 52.5° | 671.3 | 680.5 | 560.2 | 495.3 | 527.8 | 523.1 | 541.6 | 513.9 | 583.3 | 731.4 |
| 55° | 597.2 | 592.6 | 462.9 | 402.8 | 439.8 | 435.2 | 444.4 | 412.0 | 472.2 | 629.6 |
| 57.5° | 518.5 | 527.8 | 379.6 | 328.7 | 370.4 | 361.1 | 375.0 | 337.9 | 388.9 | 560.2 |
| 60° | 458.3 | 472.2 | 324.1 | 277.8 | 319.4 | 310.2 | 324.1 | 282.4 | 333.3 | 504.6 |
| 62.5° | 439.8 | 439.8 | 287.0 | 236.1 | 277.8 | 268.5 | 277.8 | 236.1 | 296.3 | 462.9 |
| 65° | 523.1 | 495.3 | 259.2 | 194.4 | 236.1 | 226.8 | 236.1 | 194.4 | 259.2 | 444.4 |
| 67.5° | 694.4 | 662.0 | 245.4 | 152.8 | 189.8 | 175.9 | 189.8 | 157.4 | 226.8 | 416.6 |
| 70° | 361.1 | 384.2 | 245.4 | 120.4 | 143.5 | 143.5 | 138.9 | 120.4 | 189.8 | 305.5 |
| 72.5° | 208.3 | 213.0 | 189.8 | 92.6 | 111.1 | 120.4 | 106.5 | 92.6 | 138.9 | 226.8 |
| 75° | 115.7 | 129.6 | 120.4 | 69.4 | 83.3 | 92.6 | 78.7 | 69.4 | 97.2 | 162.0 |
| 77.5° | 69.4 | 78.7 | 69.4 | 46.3 | 55.6 | 50.9 | 55.6 | 46.3 | 64.8 | 106.5 |
| 80° | 37.0 | 37.0 | 37.0 | 27.8 | 27.8 | 32.4 | 32.4 | 27.8 | 37.0 | 55.6 |
| 82.5° | 13.9 | 13.9 | 13.9 | 9.3 | 13.9 | 13.9 | 13.9 | 18.5 | 18.5 | 23.1 |
| 85° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C



90°
531189.3
514102.1
458849.9
376487.9
279797.7
186639.8
112161.7
64886.0
35429.0
20536.1
13305.0
6513.6
4041.5
2851.7
2245.3
1874.9
1624.9
1259.2
981.4
875.0
925.9
1282.4
1180.5
1041.6
962.9
902.7
833.3
712.9
620.3
546.3
490.7
458.3
444.4
412.0
300.9
222.2
143.5
78.7
46.3
23.1
4.6
4.6
0.0

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