

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: P636042

Luminaire Tested: **IFLD-S-SA2B-935-U-22-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636042
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-935-U-22-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7204 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

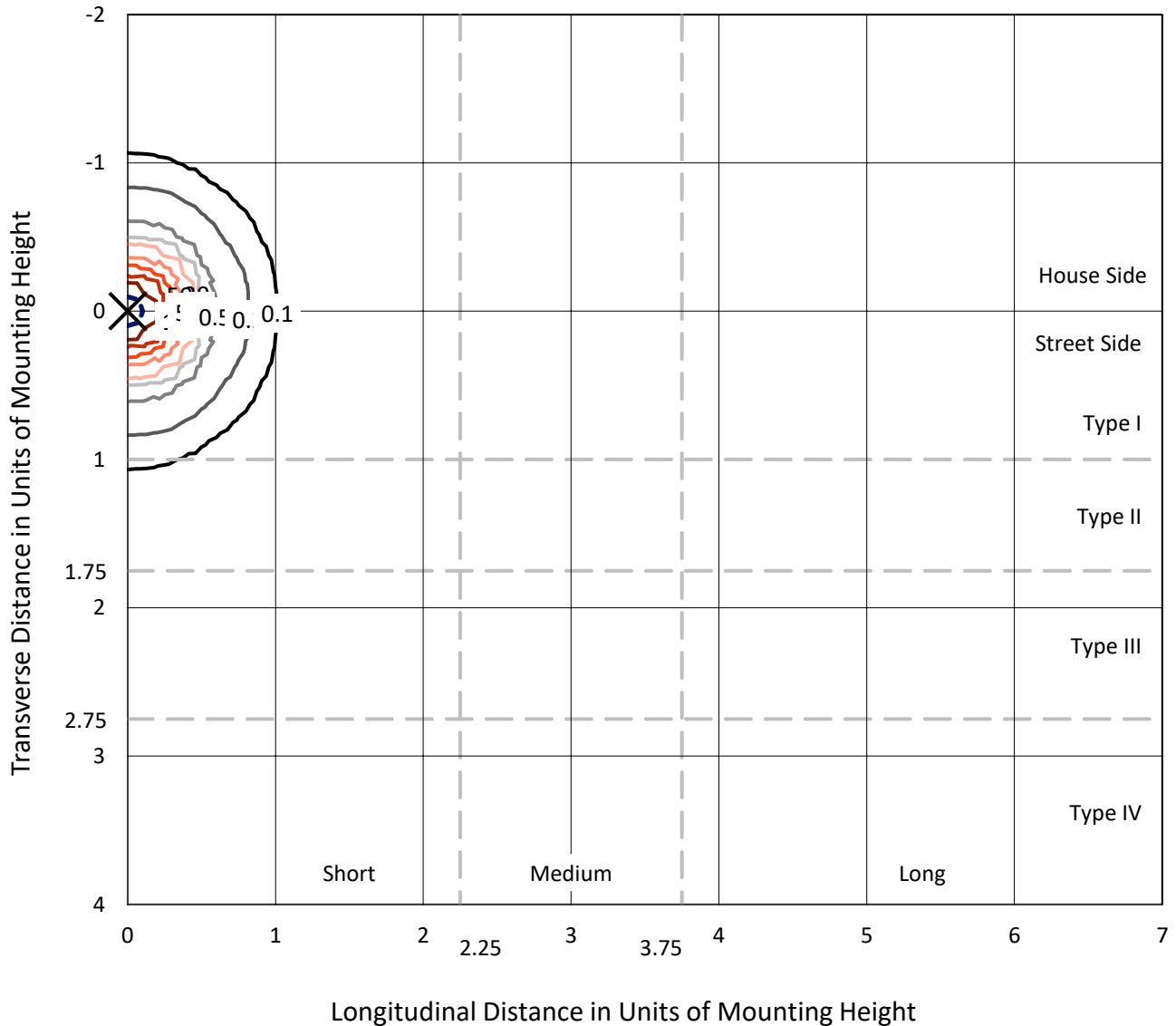
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

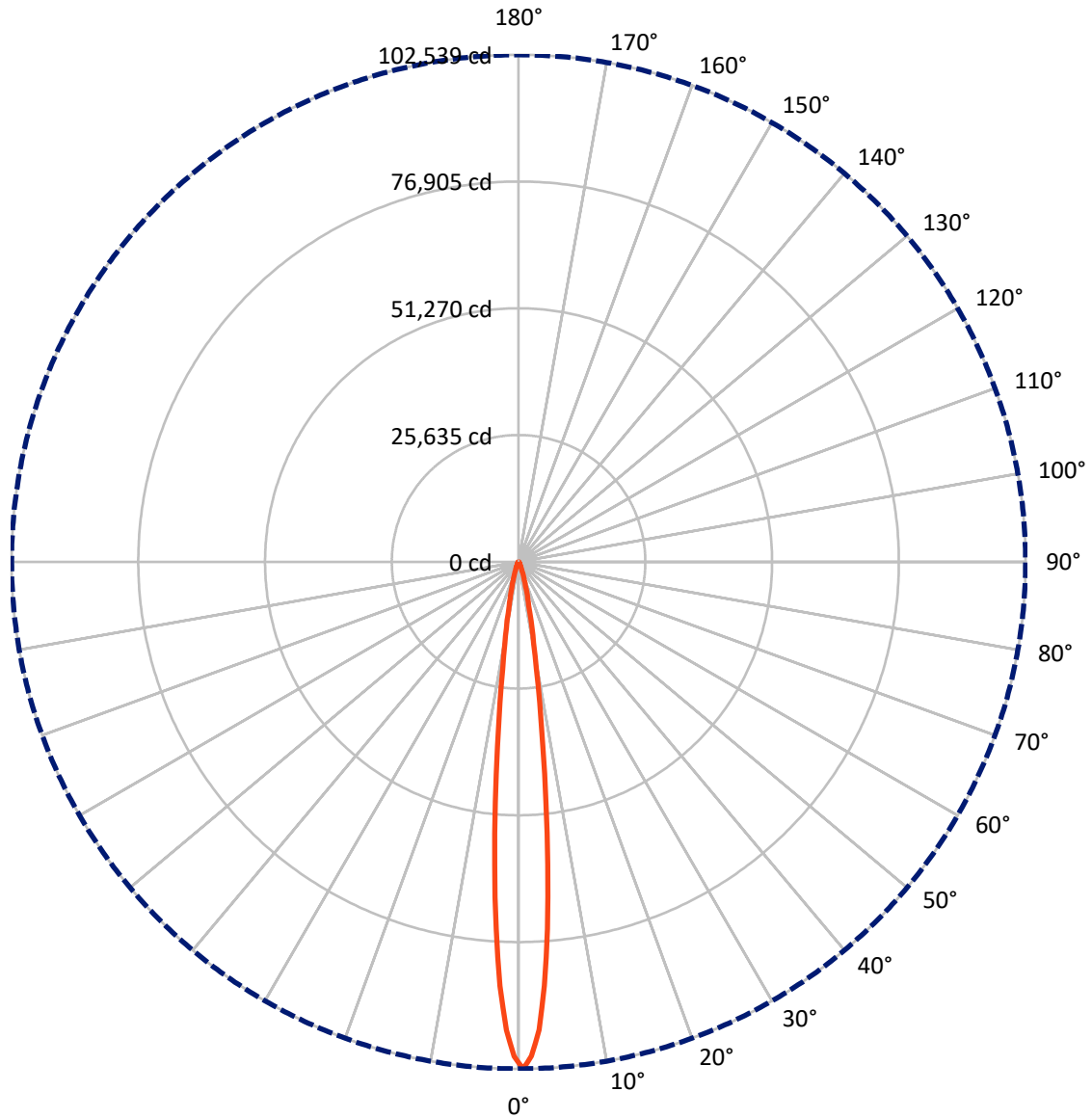
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 256.3 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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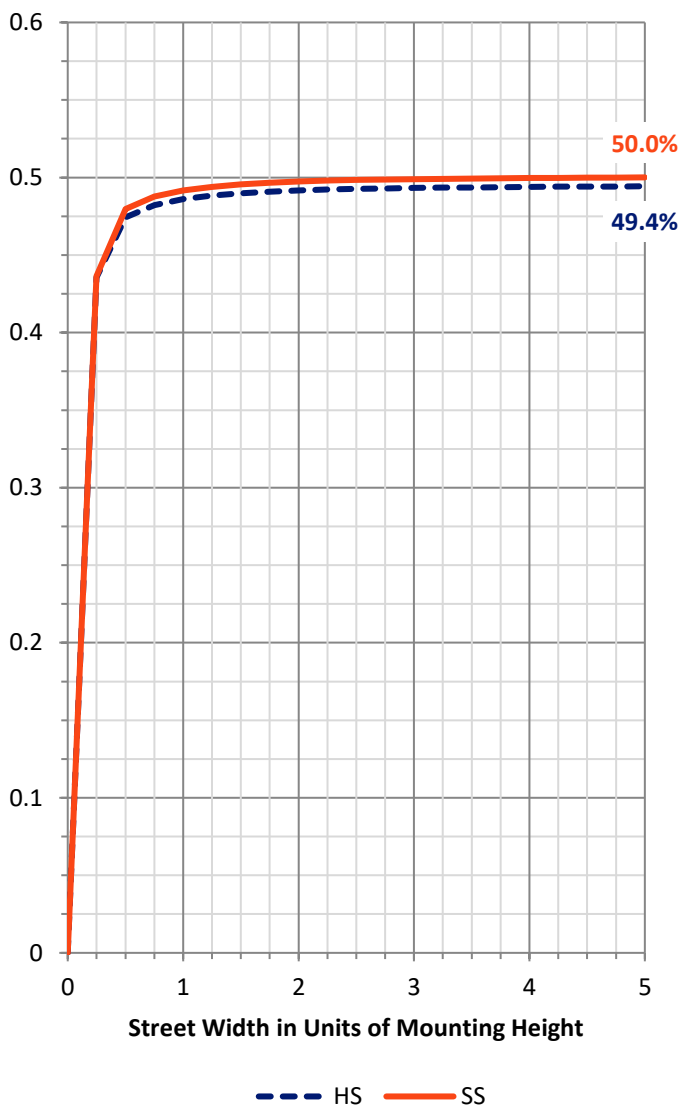
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3602.0 | 0.0 | 3602.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3602.0 | 0.0 | 3602.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7204.0 | 0.0 | 7204.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4391.4 | 61.0 |
| 10°-20° | 1967.4 | 27.3 |
| 20°-30° | 439.4 | 6.1 |
| 30°-40° | 143.4 | 2.0 |
| 40°-50° | 98.9 | 1.4 |
| 50°-60° | 74.7 | 1.0 |
| 60°-70° | 51.1 | 0.7 |
| 70°-80° | 26.9 | 0.4 |
| 80°-90° | 10.7 | 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° | 7204.0 | 100.0 |
| 0°-180° | 7204.0 | 100.0 |

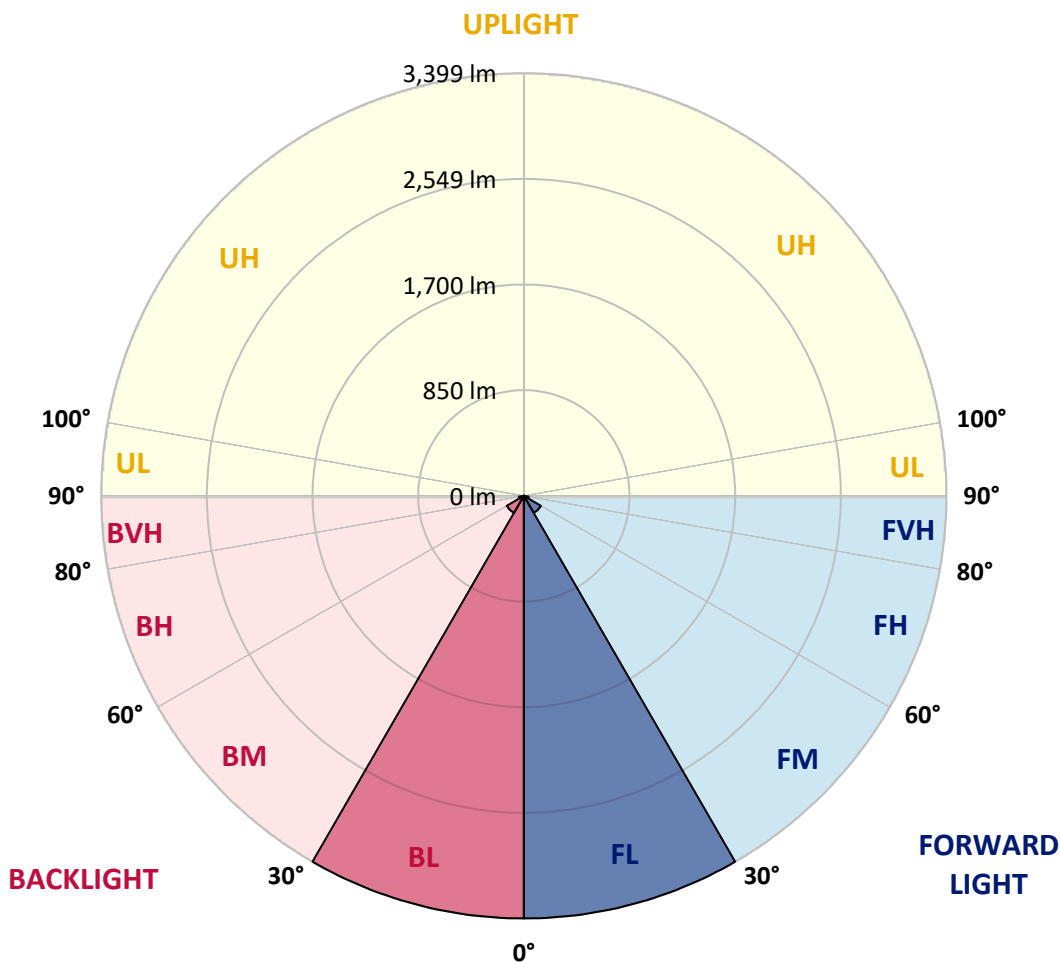


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3399.1 | 47.2 | | | |
| FM (30°-60°) | 158.5 | 2.2 | | | |
| FH (60°-80°) | 39.0 | 0.5 | | | G0/660 |
| FVH (80°-90°) | 5.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 3399.1 | 47.2 | B4/5000 | | |
| BM (30°-60°) | 158.5 | 2.2 | B0/220 | | |
| BH (60°-80°) | 39.0 | 0.5 | B0/110 | | G0/660 |
| BVH (80°-90°) | 5.4 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0° | 102539.4 | 102539.4 | 102539.4 | 102539.4 | 102539.4 | 102539.4 | 102539.4 | 102539.4 | 102539.4 | 102539.4 |
| 1° | 99993.6 | 100129.6 | 99978.2 | 100742.9 | 101058.6 | 101222.8 | 101242.1 | 101673.2 | 101340.9 | 101433.3 |
| 2° | 94723.6 | 95026.4 | 94519.6 | 95009.7 | 95990.1 | 96360.9 | 95756.5 | 96503.3 | 96236.4 | 96391.7 |
| 3° | 85868.4 | 86239.3 | 85538.7 | 86137.9 | 87399.3 | 87681.5 | 86690.9 | 87752.1 | 87725.2 | 87948.4 |
| 4° | 74454.6 | 75056.4 | 74055.6 | 74765.2 | 75323.3 | 76306.2 | 75346.4 | 76553.9 | 76530.8 | 76918.3 |
| 5° | 61498.5 | 62149.0 | 61279.0 | 62015.6 | 62544.3 | 62910.0 | 62558.4 | 63894.1 | 63978.8 | 64379.2 |
| 6° | 48820.8 | 49427.7 | 48456.3 | 49159.5 | 49997.4 | 50147.6 | 50056.4 | 51206.2 | 51461.5 | 51149.7 |
| 7° | 37572.5 | 37723.9 | 37571.2 | 38210.2 | 38882.6 | 38907.0 | 39025.0 | 40036.2 | 40260.7 | 40152.9 |
| 8° | 28775.1 | 28082.2 | 28677.6 | 29016.3 | 29224.2 | 30178.9 | 30249.4 | 30758.9 | 31172.0 | 31201.6 |
| 9° | 21903.7 | 21262.1 | 21951.2 | 22085.9 | 22563.3 | 23411.4 | 23304.9 | 23861.8 | 24121.0 | 24104.3 |
| 10° | 16699.2 | 16373.2 | 16718.4 | 16867.3 | 17259.9 | 17978.5 | 18103.0 | 18358.3 | 18550.8 | 18676.5 |
| 12.5° | 9061.7 | 9137.5 | 9337.6 | 9494.2 | 10022.8 | 10214.0 | 10291.0 | 10312.8 | 10311.6 | 10332.1 |
| 15° | 5629.3 | 5690.9 | 5830.7 | 6114.3 | 6436.4 | 6673.8 | 6707.1 | 6583.9 | 6477.4 | 6460.8 |
| 17.5° | 3510.8 | 3486.4 | 3814.9 | 4125.4 | 4512.9 | 4636.1 | 4507.8 | 4366.6 | 4221.6 | 4138.2 |
| 20° | 2107.0 | 2123.6 | 2235.3 | 2373.9 | 2687.0 | 2900.0 | 2766.5 | 2622.8 | 2472.7 | 2373.9 |
| 22.5° | 1197.2 | 1215.2 | 1263.9 | 1335.8 | 1455.1 | 1648.9 | 1564.2 | 1419.2 | 1312.7 | 1269.1 |
| 25° | 707.0 | 707.0 | 736.5 | 768.6 | 818.7 | 863.6 | 845.6 | 768.6 | 705.7 | 687.8 |
| 27.5° | 458.1 | 454.2 | 464.5 | 479.9 | 503.0 | 505.6 | 485.0 | 461.9 | 429.9 | 418.3 |
| 30° | 334.9 | 336.2 | 334.9 | 341.3 | 340.0 | 331.1 | 318.2 | 319.5 | 306.7 | 305.4 |
| 32.5° | 272.0 | 273.3 | 273.3 | 272.0 | 265.6 | 251.5 | 242.5 | 251.5 | 248.9 | 246.4 |
| 35° | 225.8 | 227.1 | 240.0 | 238.7 | 228.4 | 213.0 | 206.6 | 216.9 | 224.6 | 213.0 |
| 37.5° | 195.0 | 196.3 | 206.6 | 211.7 | 198.9 | 188.6 | 180.9 | 189.9 | 201.5 | 188.6 |
| 40° | 171.9 | 173.2 | 175.8 | 177.1 | 170.7 | 165.5 | 161.7 | 164.2 | 169.4 | 163.0 |
| 42.5° | 151.4 | 150.1 | 151.4 | 150.1 | 142.4 | 145.0 | 142.4 | 138.6 | 142.4 | 137.3 |
| 45° | 132.2 | 132.2 | 132.2 | 128.3 | 120.6 | 125.8 | 123.2 | 119.3 | 120.6 | 116.8 |
| 47.5° | 120.6 | 120.6 | 120.6 | 115.5 | 109.1 | 109.1 | 110.4 | 103.9 | 105.2 | 103.9 |
| 50° | 109.1 | 109.1 | 111.6 | 106.5 | 101.4 | 97.5 | 98.8 | 93.7 | 95.0 | 93.7 |
| 52.5° | 100.1 | 100.1 | 100.1 | 97.5 | 93.7 | 91.1 | 88.5 | 86.0 | 84.7 | 83.4 |
| 55° | 96.2 | 96.2 | 95.0 | 87.3 | 86.0 | 83.4 | 78.3 | 77.0 | 74.4 | 73.1 |
| 57.5° | 89.8 | 89.8 | 88.5 | 82.1 | 77.0 | 77.0 | 69.3 | 68.0 | 64.2 | 64.2 |
| 60° | 79.6 | 79.6 | 78.3 | 77.0 | 70.6 | 66.7 | 61.6 | 59.0 | 55.2 | 53.9 |
| 62.5° | 75.7 | 75.7 | 73.1 | 66.7 | 65.4 | 59.0 | 53.9 | 48.8 | 46.2 | 43.6 |
| 65° | 70.6 | 69.3 | 68.0 | 61.6 | 56.5 | 52.6 | 46.2 | 39.8 | 37.2 | 32.1 |
| 67.5° | 62.9 | 62.9 | 61.6 | 56.5 | 51.3 | 44.9 | 38.5 | 33.4 | 26.9 | 23.1 |
| 70° | 55.2 | 53.9 | 53.9 | 48.8 | 44.9 | 39.8 | 30.8 | 25.7 | 19.2 | 15.4 |
| 72.5° | 46.2 | 46.2 | 44.9 | 41.1 | 38.5 | 34.6 | 26.9 | 20.5 | 12.8 | 10.3 |
| 75° | 37.2 | 37.2 | 35.9 | 33.4 | 32.1 | 28.2 | 23.1 | 18.0 | 10.3 | 5.1 |
| 77.5° | 30.8 | 29.5 | 29.5 | 26.9 | 25.7 | 23.1 | 19.2 | 14.1 | 7.7 | 3.8 |
| 80° | 23.1 | 23.1 | 24.4 | 23.1 | 20.5 | 19.2 | 16.7 | 12.8 | 6.4 | 2.6 |
| 82.5° | 16.7 | 16.7 | 18.0 | 18.0 | 18.0 | 16.7 | 16.7 | 12.8 | 6.4 | 1.3 |
| 85° | 11.5 | 11.5 | 14.1 | 12.8 | 12.8 | 14.1 | 20.5 | 16.7 | 5.1 | 1.3 |
| 87.5° | 6.4 | 6.4 | 6.4 | 5.1 | 5.1 | 6.4 | 7.7 | 6.4 | 2.6 | 1.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C



90°
102539.4
100754.5
95837.4
87349.2
76238.2
63614.4
51181.8
40005.4
30829.4
24497.0
18751.0
10348.8
6409.4
4125.4
2395.7
1274.2
685.2
418.3
304.1
241.2
210.4
187.3
160.4
137.3
116.8
103.9
93.7
83.4
71.9
64.2
51.3
42.3
30.8
23.1
15.4
9.0
5.1
2.6
1.3
1.3
1.3
1.3
0.0

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