

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: P636313

Luminaire Tested: **IFLD-S-SA6B-930-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636313
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-930-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19972.2 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

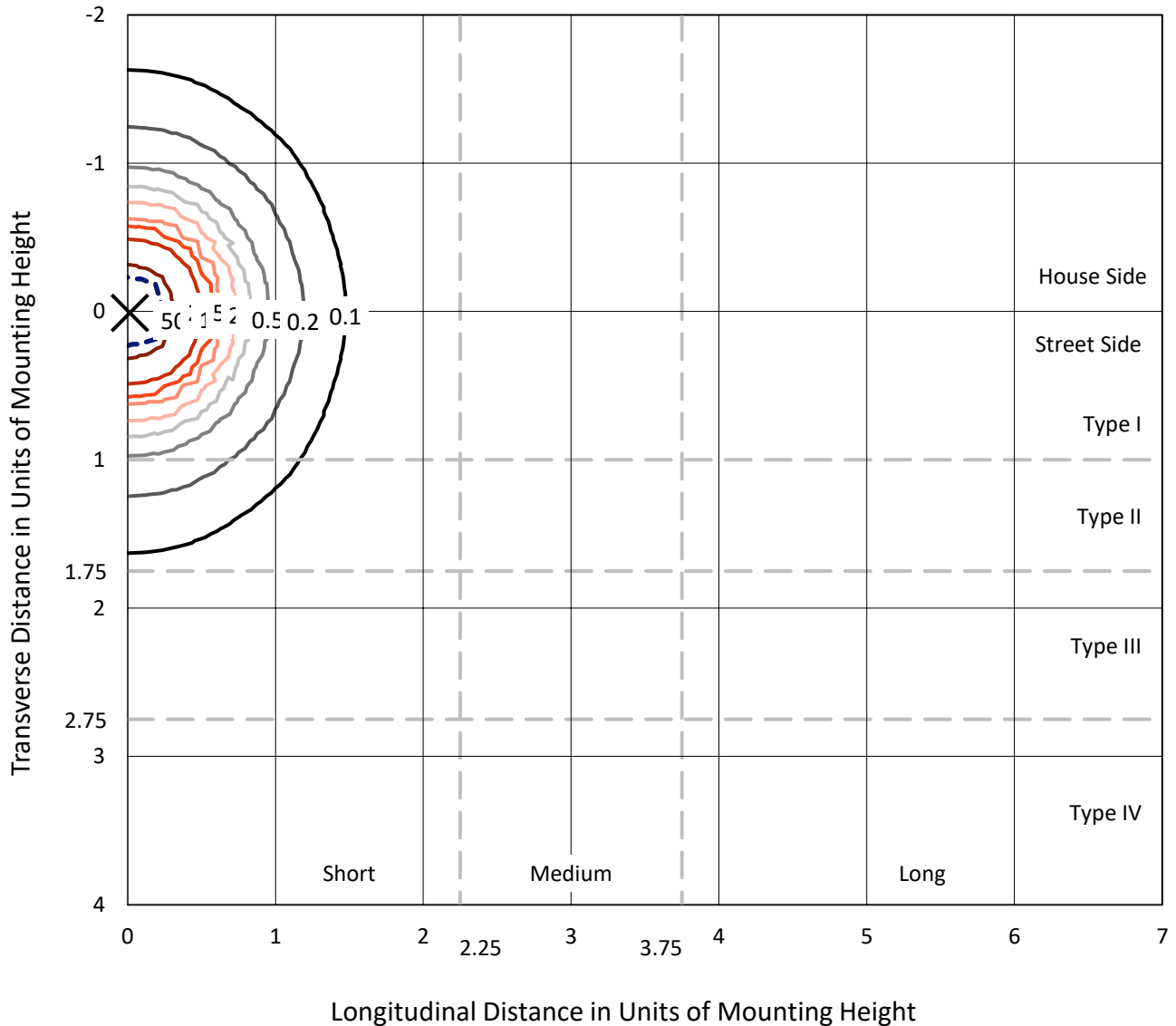
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

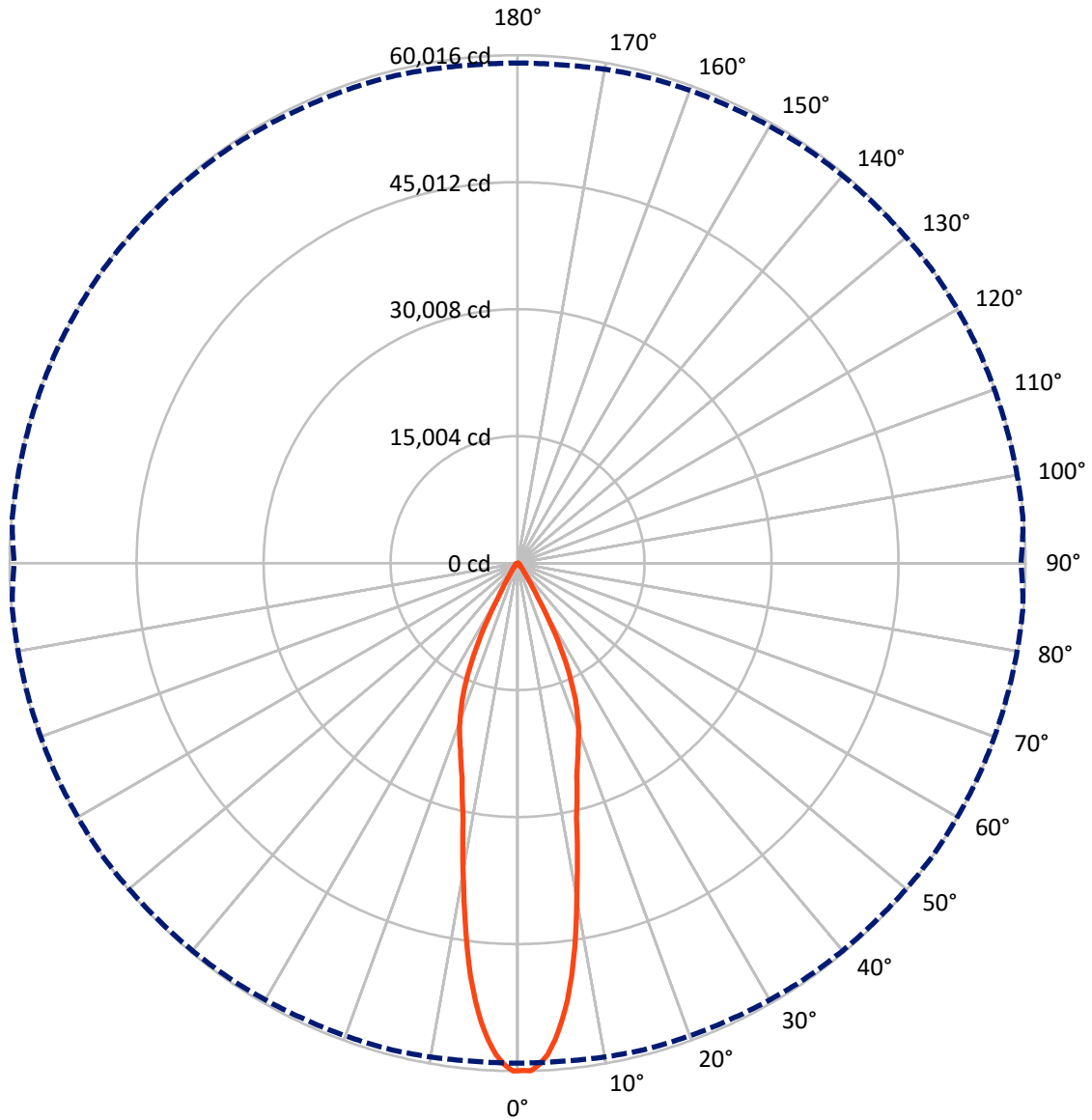
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 149.9 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9986.1 | 0.0 | 9986.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9986.1 | 0.0 | 9986.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19972.2 | 0.0 | 19972.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 4561.1 | 22.8 |
| 10°-20° | 7449.5 | 37.3 |
| 20°-30° | 5821.3 | 29.1 |
| 30°-40° | 1268.9 | 6.4 |
| 40°-50° | 375.7 | 1.9 |
| 50°-60° | 235.0 | 1.2 |
| 60°-70° | 164.3 | 0.8 |
| 70°-80° | 70.5 | 0.4 |
| 80°-90° | 26.1 | 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° | 19972.2 | 100.0 |
| 0°-180° | 19972.2 | 100.0 |



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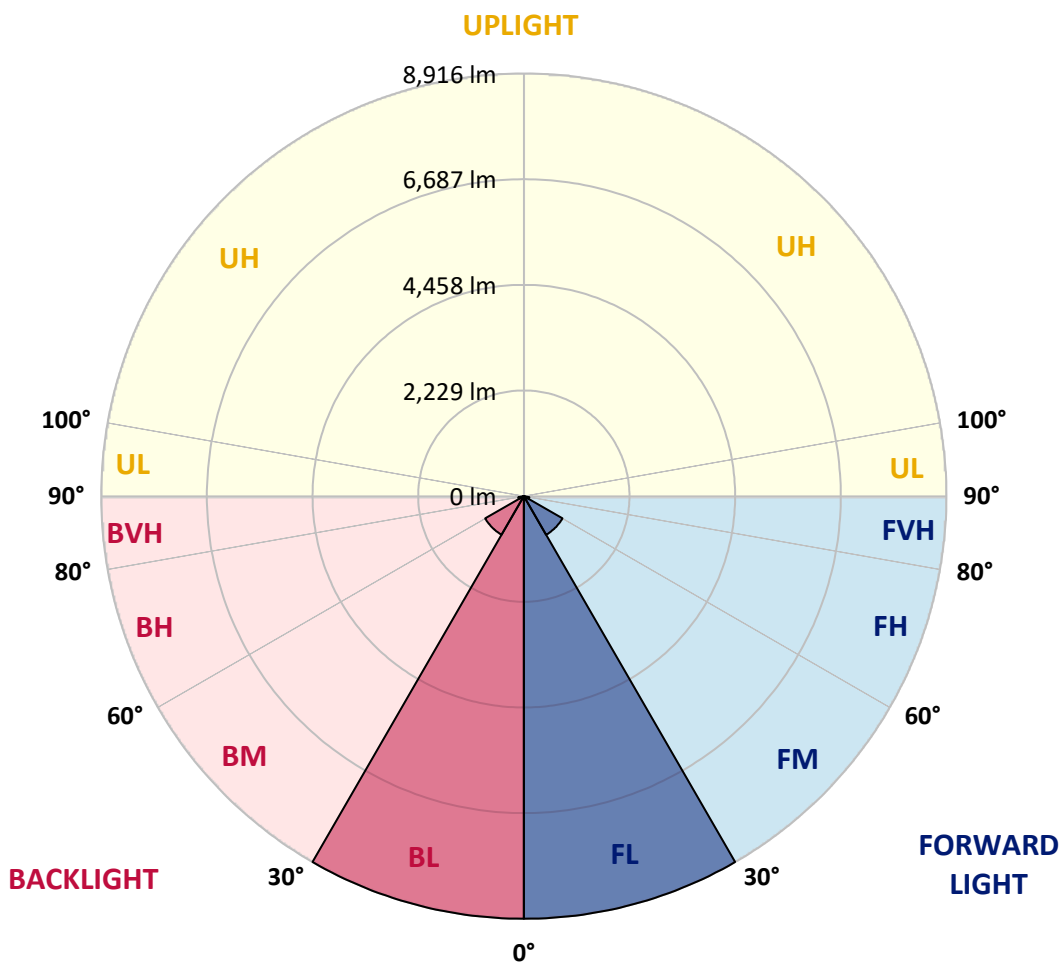
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 8915.9 | 44.6 | | | |
| FM (30°-60°) | 939.8 | 4.7 | | | |
| FH (60°-80°) | 117.4 | 0.6 | | | G0/660 |
| FVH (80°-90°) | 13.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 8915.9 | 44.6 | B5 | | |
| BM (30°-60°) | 939.8 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 117.4 | 0.6 | B1/500 | | G0/660 |
| BVH (80°-90°) | 13.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 59946.9 | 59946.9 | 59946.9 | 59946.9 | 59946.9 | 59946.9 | 59946.9 | 59946.9 | 59946.9 | 59946.9 |
| 1° | 59079.1 | 59086.4 | 59408.2 | 59480.5 | 59701.0 | 59813.1 | 60015.6 | 59993.9 | 59932.4 | 59939.7 |
| 2° | 57990.8 | 57943.8 | 58243.9 | 58576.6 | 58840.5 | 59057.4 | 59299.7 | 59350.3 | 59292.5 | 59346.7 |
| 3° | 56201.1 | 56132.4 | 56551.8 | 56967.6 | 57426.8 | 57799.2 | 58164.4 | 58178.8 | 58110.2 | 58106.5 |
| 4° | 53847.3 | 53720.8 | 54219.7 | 54961.0 | 55539.4 | 56034.8 | 56490.4 | 56483.1 | 56389.1 | 56465.0 |
| 5° | 51001.9 | 50842.8 | 51490.0 | 52466.2 | 53323.1 | 53919.7 | 54422.2 | 54302.9 | 54086.0 | 54096.8 |
| 6° | 47509.2 | 47664.6 | 48456.5 | 49826.8 | 50839.2 | 51334.5 | 51952.8 | 51728.6 | 51352.6 | 51312.8 |
| 7° | 44226.2 | 44576.9 | 45209.6 | 46862.0 | 48066.0 | 48586.6 | 49110.9 | 48658.9 | 48149.1 | 48066.0 |
| 8° | 40769.7 | 41355.4 | 42230.4 | 43752.5 | 45036.1 | 45560.4 | 45759.2 | 45274.7 | 44728.8 | 44707.1 |
| 9° | 37967.6 | 38368.9 | 39120.9 | 40462.3 | 41767.6 | 42118.3 | 42161.7 | 41738.6 | 41192.7 | 41228.8 |
| 10° | 35418.6 | 35494.5 | 36145.3 | 37298.7 | 38343.6 | 38593.1 | 38582.2 | 38274.9 | 37826.6 | 37945.9 |
| 12.5° | 29713.1 | 29919.2 | 30107.2 | 30476.0 | 30826.7 | 30989.4 | 30928.0 | 30801.4 | 30555.6 | 30566.4 |
| 15° | 25840.8 | 25837.2 | 25858.9 | 26028.8 | 26133.7 | 26151.7 | 26151.7 | 25992.7 | 25887.8 | 26043.3 |
| 17.5° | 22424.0 | 22612.1 | 22948.3 | 23085.7 | 23223.1 | 23172.5 | 23078.5 | 23006.2 | 22937.5 | 23071.2 |
| 20° | 19766.6 | 19849.7 | 19853.3 | 19943.7 | 20637.9 | 20674.1 | 20554.8 | 20348.7 | 20175.1 | 20142.6 |
| 22.5° | 16776.4 | 16903.0 | 16957.2 | 17036.8 | 17109.1 | 17637.0 | 17496.0 | 17163.3 | 16957.2 | 16895.8 |
| 25° | 12593.2 | 12549.8 | 12904.1 | 13554.9 | 13659.8 | 13724.9 | 13688.7 | 13515.2 | 13381.4 | 13406.7 |
| 27.5° | 8702.8 | 8778.7 | 8764.2 | 8771.5 | 9462.1 | 9458.4 | 9447.6 | 9295.7 | 9256.0 | 9198.1 |
| 30° | 4866.6 | 4830.5 | 4848.5 | 4801.5 | 4703.9 | 4823.2 | 4631.6 | 4794.3 | 4635.2 | 4685.8 |
| 32.5° | 2878.0 | 2852.7 | 2827.4 | 2838.3 | 2765.9 | 2588.8 | 2512.9 | 2624.9 | 2588.8 | 2574.3 |
| 35° | 1836.7 | 1847.6 | 1880.1 | 1876.5 | 1811.4 | 1710.2 | 1601.7 | 1703.0 | 1688.5 | 1645.1 |
| 37.5° | 1171.5 | 1171.5 | 1182.3 | 1276.3 | 1222.1 | 1135.3 | 1059.4 | 1102.8 | 1099.1 | 1091.9 |
| 40° | 831.6 | 831.6 | 846.1 | 871.4 | 842.4 | 799.1 | 755.7 | 755.7 | 762.9 | 741.2 |
| 42.5° | 618.3 | 618.3 | 632.7 | 647.2 | 611.0 | 596.6 | 574.9 | 560.4 | 578.5 | 560.4 |
| 45° | 484.5 | 480.9 | 484.5 | 477.3 | 455.6 | 455.6 | 437.5 | 415.8 | 437.5 | 426.6 |
| 47.5° | 397.7 | 394.1 | 390.5 | 376.0 | 354.3 | 357.9 | 350.7 | 332.6 | 343.5 | 339.9 |
| 50° | 347.1 | 339.9 | 343.5 | 329.0 | 310.9 | 307.3 | 307.3 | 289.2 | 292.9 | 292.9 |
| 52.5° | 303.7 | 303.7 | 300.1 | 292.9 | 285.6 | 271.2 | 274.8 | 256.7 | 256.7 | 256.7 |
| 55° | 285.6 | 285.6 | 278.4 | 263.9 | 267.6 | 256.7 | 245.9 | 235.0 | 231.4 | 231.4 |
| 57.5° | 282.0 | 282.0 | 278.4 | 263.9 | 253.1 | 249.5 | 235.0 | 220.6 | 209.7 | 213.3 |
| 60° | 274.8 | 274.8 | 267.6 | 263.9 | 245.9 | 238.6 | 216.9 | 206.1 | 191.6 | 191.6 |
| 62.5° | 263.9 | 260.3 | 245.9 | 224.2 | 224.2 | 206.1 | 191.6 | 169.9 | 159.1 | 155.5 |
| 65° | 224.2 | 220.6 | 209.7 | 191.6 | 180.8 | 169.9 | 148.2 | 126.5 | 119.3 | 108.5 |
| 67.5° | 184.4 | 184.4 | 177.2 | 159.1 | 151.9 | 137.4 | 112.1 | 97.6 | 79.5 | 72.3 |
| 70° | 151.9 | 151.9 | 144.6 | 133.8 | 126.5 | 108.5 | 86.8 | 72.3 | 54.2 | 47.0 |
| 72.5° | 122.9 | 122.9 | 115.7 | 108.5 | 101.2 | 90.4 | 72.3 | 54.2 | 36.2 | 28.9 |
| 75° | 97.6 | 97.6 | 94.0 | 86.8 | 79.5 | 72.3 | 57.8 | 43.4 | 25.3 | 14.5 |
| 77.5° | 79.5 | 79.5 | 75.9 | 72.3 | 65.1 | 57.8 | 47.0 | 36.2 | 18.1 | 7.2 |
| 80° | 61.5 | 61.5 | 61.5 | 61.5 | 54.2 | 47.0 | 39.8 | 28.9 | 14.5 | 3.6 |
| 82.5° | 43.4 | 43.4 | 47.0 | 54.2 | 43.4 | 36.2 | 36.2 | 28.9 | 10.8 | 3.6 |
| 85° | 28.9 | 32.5 | 36.2 | 32.5 | 28.9 | 28.9 | 50.6 | 47.0 | 10.8 | 3.6 |
| 87.5° | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 10.8 | 14.5 | 10.8 | 7.2 | 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°
59946.9
59494.9
58920.0
57792.0
56107.1
53568.9
50784.9
47671.9
43915.2
40690.1
37526.5
30208.5
25681.7
22763.9
19932.9
16675.2
13319.9
8988.4
4747.3
2538.2
1598.1
1077.5
734.0
556.8
426.6
339.9
296.5
256.7
227.8
213.3
180.8
148.2
104.9
68.7
43.4
25.3
10.8
7.2
3.6
3.6
3.6
0.0
0.0

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