

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: P636155

Luminaire Tested: **IFLD-L-SA8C-927-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636155
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-927-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30695.2 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

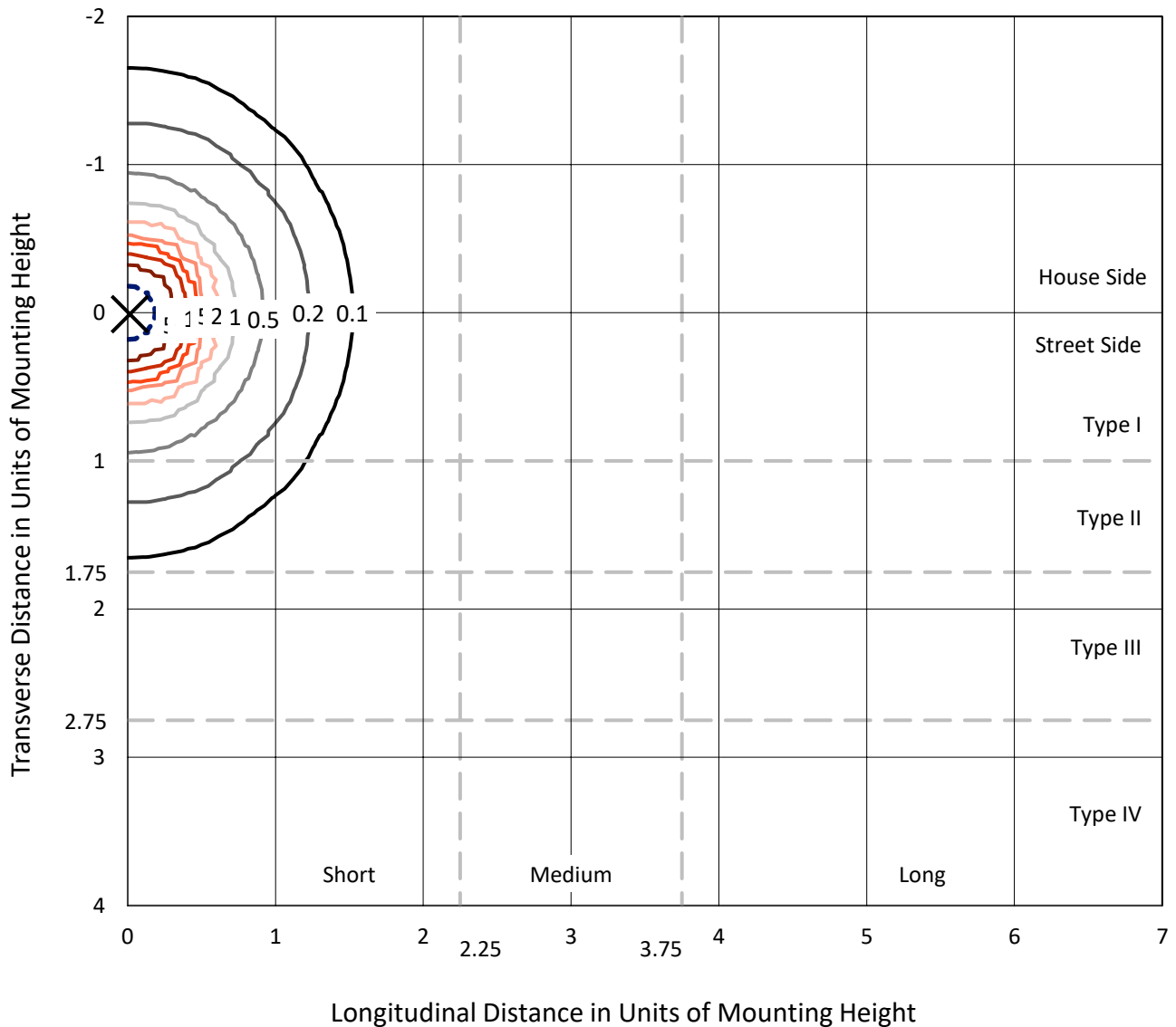
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

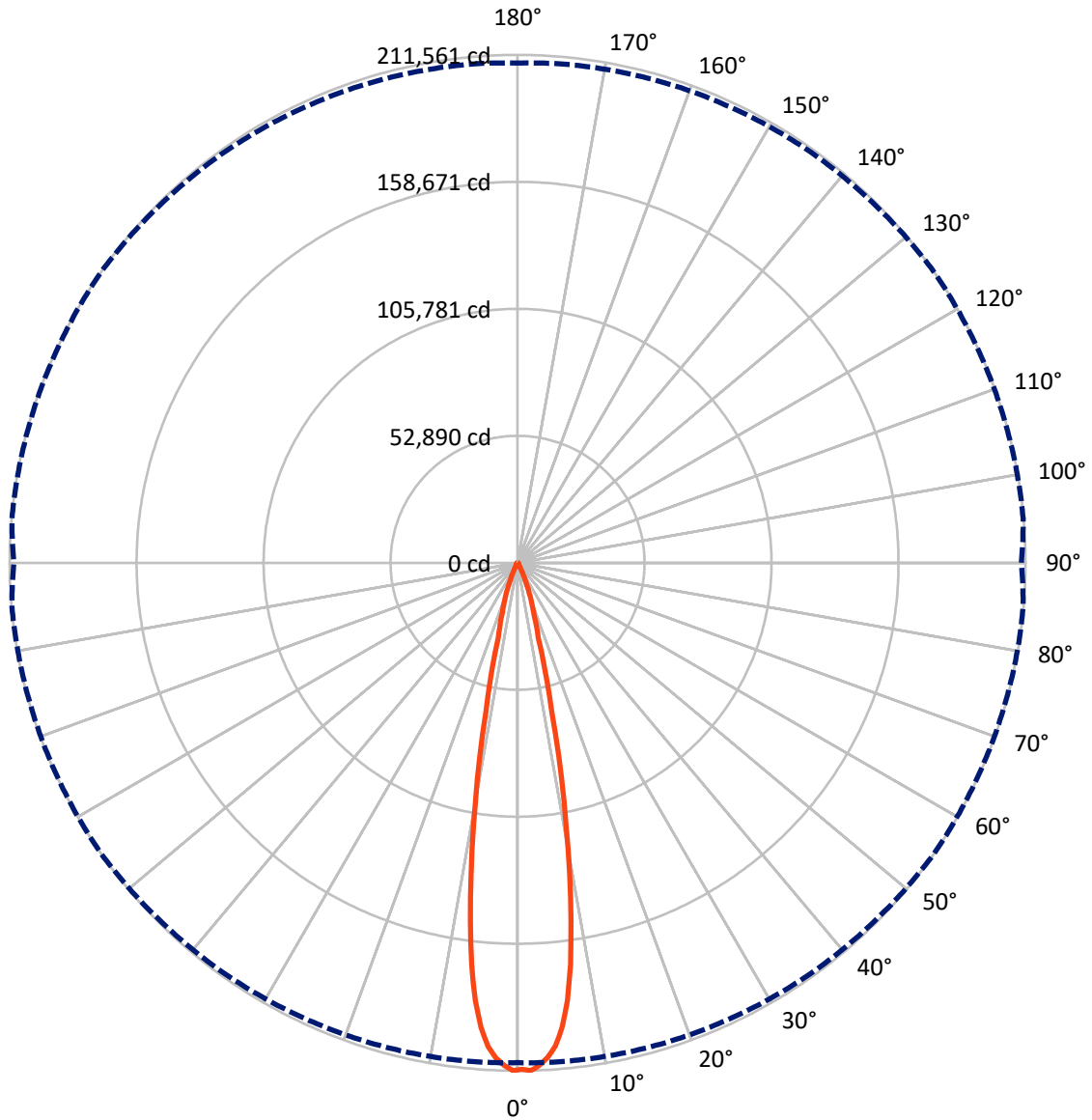
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 527.5 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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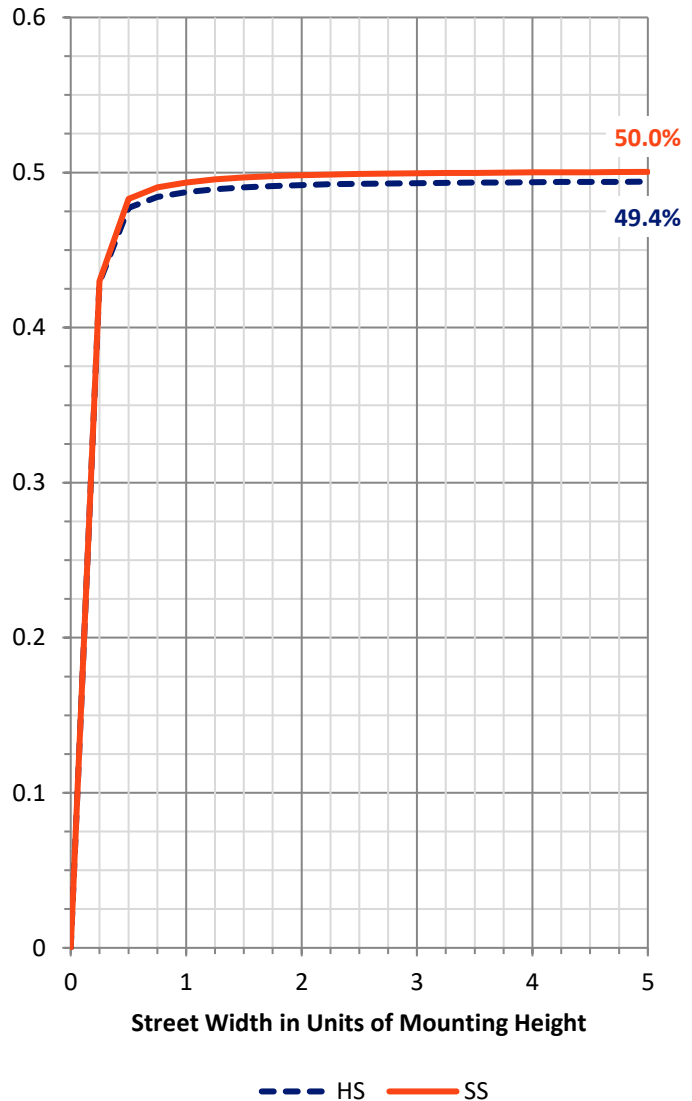
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15347.6 | 0.0 | 15347.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15347.6 | 0.0 | 15347.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30695.2 | 0.0 | 30695.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 15595.5 | 50.8 |
| 10°-20° | 11052.7 | 36.0 |
| 20°-30° | 2589.8 | 8.4 |
| 30°-40° | 541.3 | 1.8 |
| 40°-50° | 349.2 | 1.1 |
| 50°-60° | 258.6 | 0.8 |
| 60°-70° | 175.8 | 0.6 |
| 70°-80° | 93.8 | 0.3 |
| 80°-90° | 38.4 | 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° | 30695.2 | 100.0 |
| 0°-180° | 30695.2 | 100.0 |

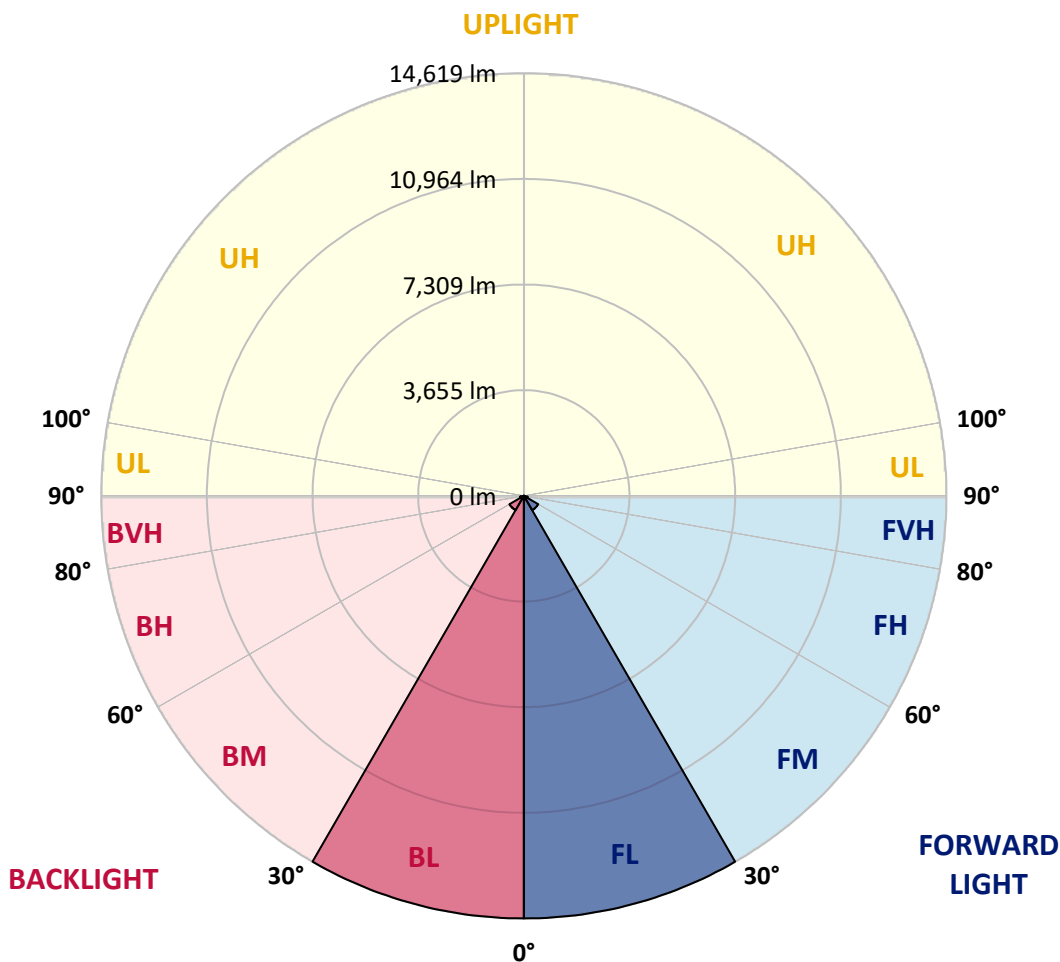


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 14619.0 | 47.6 | | | |
| FM (30°-60°) | 574.6 | 1.9 | | | |
| FH (60°-80°) | 134.8 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 19.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 14619.0 | 47.6 | B5 | | |
| BM (30°-60°) | 574.6 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 134.8 | 0.4 | B1/500 | | G0/660 |
| BVH (80°-90°) | 19.2 | 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° | 211018.3 | 211018.3 | 211018.3 | 211018.3 | 211018.3 | 211018.3 | 211018.3 | 211018.3 | 211018.3 | 211018.3 |
| 1° | 208179.2 | 208564.6 | 209036.9 | 209465.8 | 210111.7 | 210638.3 | 211561.1 | 211365.7 | 211338.6 | 211376.6 |
| 2° | 204145.9 | 204629.1 | 205356.5 | 205785.3 | 207451.8 | 208135.8 | 209530.9 | 209943.5 | 209612.3 | 209986.9 |
| 3° | 198104.1 | 198500.4 | 199640.4 | 200481.8 | 202642.3 | 204487.9 | 206355.3 | 206974.1 | 206588.7 | 206762.4 |
| 4° | 190911.5 | 191318.6 | 192697.4 | 194412.8 | 197534.1 | 199580.6 | 201817.1 | 202370.8 | 201111.4 | 201198.3 |
| 5° | 182350.9 | 182540.9 | 184229.1 | 185792.5 | 189527.2 | 192008.0 | 194130.5 | 194304.2 | 193153.4 | 192713.7 |
| 6° | 172720.9 | 172378.9 | 173931.4 | 174593.7 | 179235.0 | 181764.6 | 183317.1 | 183116.3 | 182242.3 | 181867.8 |
| 7° | 161277.8 | 160811.0 | 162065.0 | 161706.7 | 165816.0 | 167259.9 | 168752.7 | 168068.8 | 167373.9 | 168237.0 |
| 8° | 148038.0 | 147777.4 | 146968.6 | 148434.2 | 149248.5 | 150540.5 | 150535.0 | 150138.8 | 150117.0 | 151555.6 |
| 9° | 128788.8 | 131193.6 | 130482.5 | 132018.7 | 131812.5 | 131752.8 | 131356.5 | 131101.3 | 130015.7 | 131671.3 |
| 10° | 107650.6 | 109224.9 | 110424.6 | 112715.3 | 112270.2 | 112899.9 | 110696.0 | 111070.5 | 110348.6 | 111716.5 |
| 12.5° | 55722.5 | 57492.2 | 58529.0 | 60277.0 | 62198.6 | 64163.7 | 63528.6 | 62871.8 | 61889.2 | 63094.3 |
| 15° | 27429.7 | 28130.0 | 28461.1 | 30236.2 | 31604.2 | 32098.1 | 32174.1 | 31593.3 | 31343.6 | 31604.2 |
| 17.5° | 16833.5 | 17077.8 | 18038.6 | 20079.7 | 21263.1 | 21556.2 | 21366.2 | 20731.1 | 20019.9 | 19721.4 |
| 20° | 12186.8 | 12257.3 | 12621.0 | 13017.3 | 14597.0 | 15422.1 | 15118.1 | 14493.8 | 13837.0 | 13527.6 |
| 22.5° | 7958.0 | 8028.6 | 8148.0 | 8365.2 | 8788.6 | 9809.1 | 9478.0 | 9054.6 | 8609.4 | 8517.2 |
| 25° | 4505.6 | 4505.6 | 4630.4 | 4853.0 | 5167.8 | 5243.8 | 5309.0 | 4858.4 | 4652.1 | 4559.9 |
| 27.5° | 2513.4 | 2529.6 | 2556.8 | 2643.6 | 2801.1 | 2784.8 | 2714.2 | 2594.8 | 2453.6 | 2307.1 |
| 30° | 1389.7 | 1406.0 | 1422.2 | 1444.0 | 1471.1 | 1422.2 | 1378.8 | 1357.1 | 1297.4 | 1281.1 |
| 32.5° | 1042.3 | 1042.3 | 1053.1 | 1047.7 | 1020.5 | 960.8 | 933.7 | 966.3 | 960.8 | 933.7 |
| 35° | 857.7 | 857.7 | 868.5 | 890.3 | 836.0 | 792.5 | 770.8 | 814.3 | 814.3 | 798.0 |
| 37.5° | 700.3 | 705.7 | 711.1 | 738.3 | 722.0 | 673.1 | 667.7 | 678.6 | 684.0 | 678.6 |
| 40° | 613.4 | 608.0 | 608.0 | 613.4 | 602.6 | 591.7 | 580.8 | 575.4 | 580.8 | 575.4 |
| 42.5° | 532.0 | 526.6 | 537.4 | 526.6 | 504.8 | 510.3 | 510.3 | 494.0 | 499.4 | 488.6 |
| 45° | 466.8 | 461.4 | 466.8 | 456.0 | 439.7 | 445.1 | 445.1 | 423.4 | 423.4 | 418.0 |
| 47.5° | 412.6 | 412.6 | 412.6 | 418.0 | 390.8 | 385.4 | 390.8 | 385.4 | 369.1 | 363.7 |
| 50° | 358.3 | 363.7 | 369.1 | 380.0 | 352.8 | 342.0 | 342.0 | 342.0 | 331.1 | 325.7 |
| 52.5° | 331.1 | 336.6 | 336.6 | 336.6 | 320.3 | 309.4 | 309.4 | 304.0 | 298.6 | 293.1 |
| 55° | 320.3 | 320.3 | 320.3 | 298.6 | 293.1 | 287.7 | 271.4 | 266.0 | 260.6 | 260.6 |
| 57.5° | 304.0 | 304.0 | 298.6 | 282.3 | 266.0 | 266.0 | 244.3 | 238.8 | 233.4 | 233.4 |
| 60° | 271.4 | 271.4 | 271.4 | 266.0 | 244.3 | 238.8 | 217.1 | 206.3 | 200.9 | 200.9 |
| 62.5° | 249.7 | 249.7 | 249.7 | 228.0 | 222.6 | 206.3 | 190.0 | 173.7 | 168.3 | 157.4 |
| 65° | 228.0 | 228.0 | 228.0 | 206.3 | 195.4 | 179.1 | 157.4 | 141.1 | 130.3 | 114.0 |
| 67.5° | 211.7 | 211.7 | 206.3 | 190.0 | 173.7 | 152.0 | 130.3 | 114.0 | 92.3 | 81.4 |
| 70° | 184.6 | 184.6 | 179.1 | 168.3 | 152.0 | 135.7 | 108.6 | 86.9 | 70.6 | 54.3 |
| 72.5° | 157.4 | 157.4 | 152.0 | 141.1 | 130.3 | 114.0 | 92.3 | 76.0 | 48.9 | 38.0 |
| 75° | 130.3 | 130.3 | 124.9 | 114.0 | 108.6 | 97.7 | 81.4 | 59.7 | 38.0 | 16.3 |
| 77.5° | 108.6 | 108.6 | 103.1 | 97.7 | 92.3 | 81.4 | 70.6 | 48.9 | 27.1 | 10.9 |
| 80° | 81.4 | 86.9 | 86.9 | 86.9 | 76.0 | 70.6 | 65.1 | 48.9 | 21.7 | 5.4 |
| 82.5° | 59.7 | 65.1 | 65.1 | 65.1 | 59.7 | 54.3 | 59.7 | 43.4 | 21.7 | 5.4 |
| 85° | 43.4 | 43.4 | 48.9 | 48.9 | 48.9 | 48.9 | 65.1 | 48.9 | 16.3 | 5.4 |
| 87.5° | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 27.1 | 32.6 | 27.1 | 10.9 | 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°
211018.3
209862.0
208564.6
205459.6
199906.3
191796.3
181026.4
167971.1
147565.7
128582.6
108209.8
59831.9
30388.2
19303.4
13288.7
8327.2
4483.9
2312.5
1281.1
917.4
792.5
678.6
580.8
494.0
418.0
363.7
320.3
287.7
255.1
233.4
195.4
146.6
114.0
76.0
54.3
32.6
16.3
5.4
5.4
5.4
5.4
0.0
0.0

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