

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: P636204

Luminaire Tested: **IFLD-M-SA4D-935-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636204
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-935-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19878.7 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

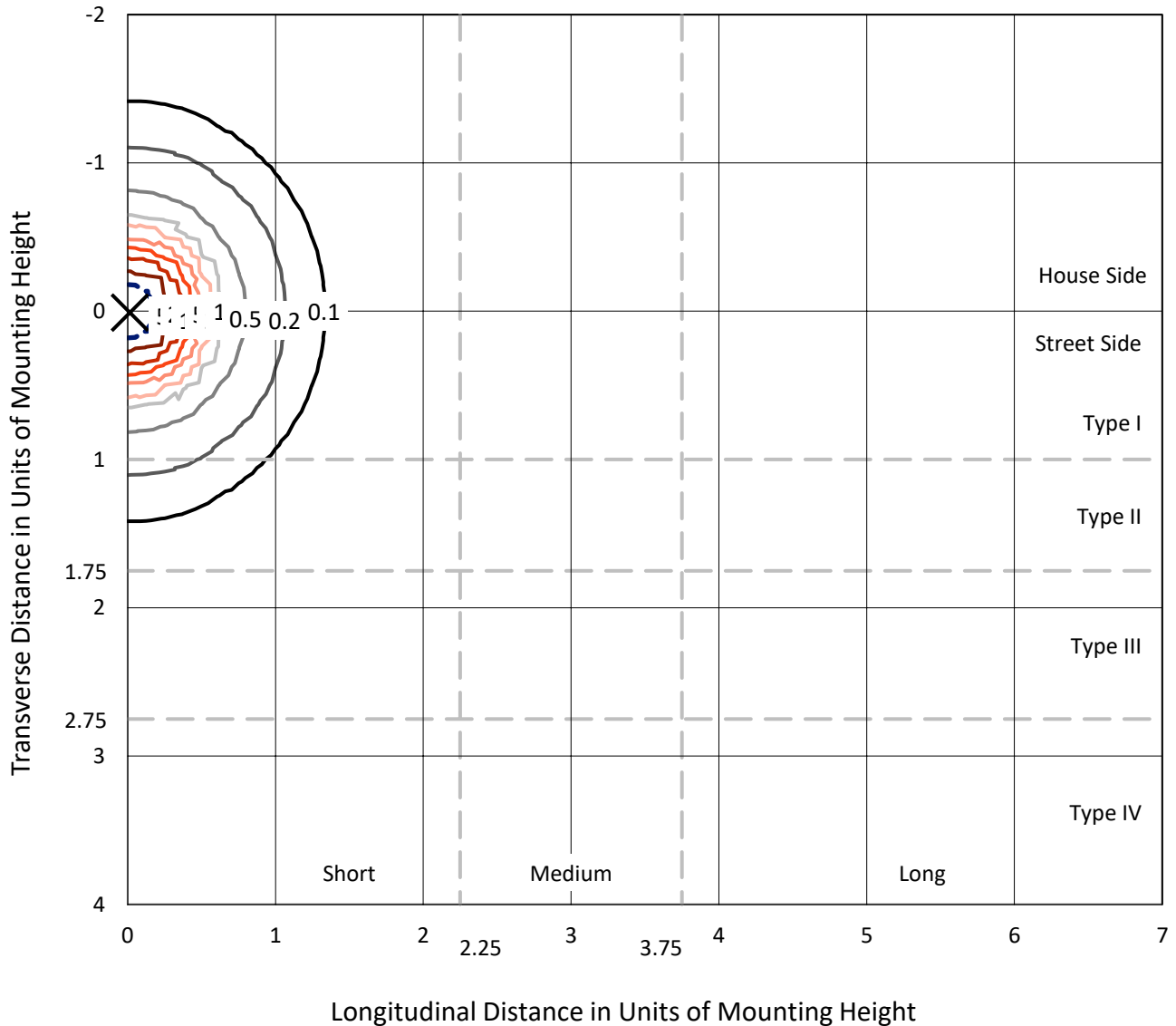
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

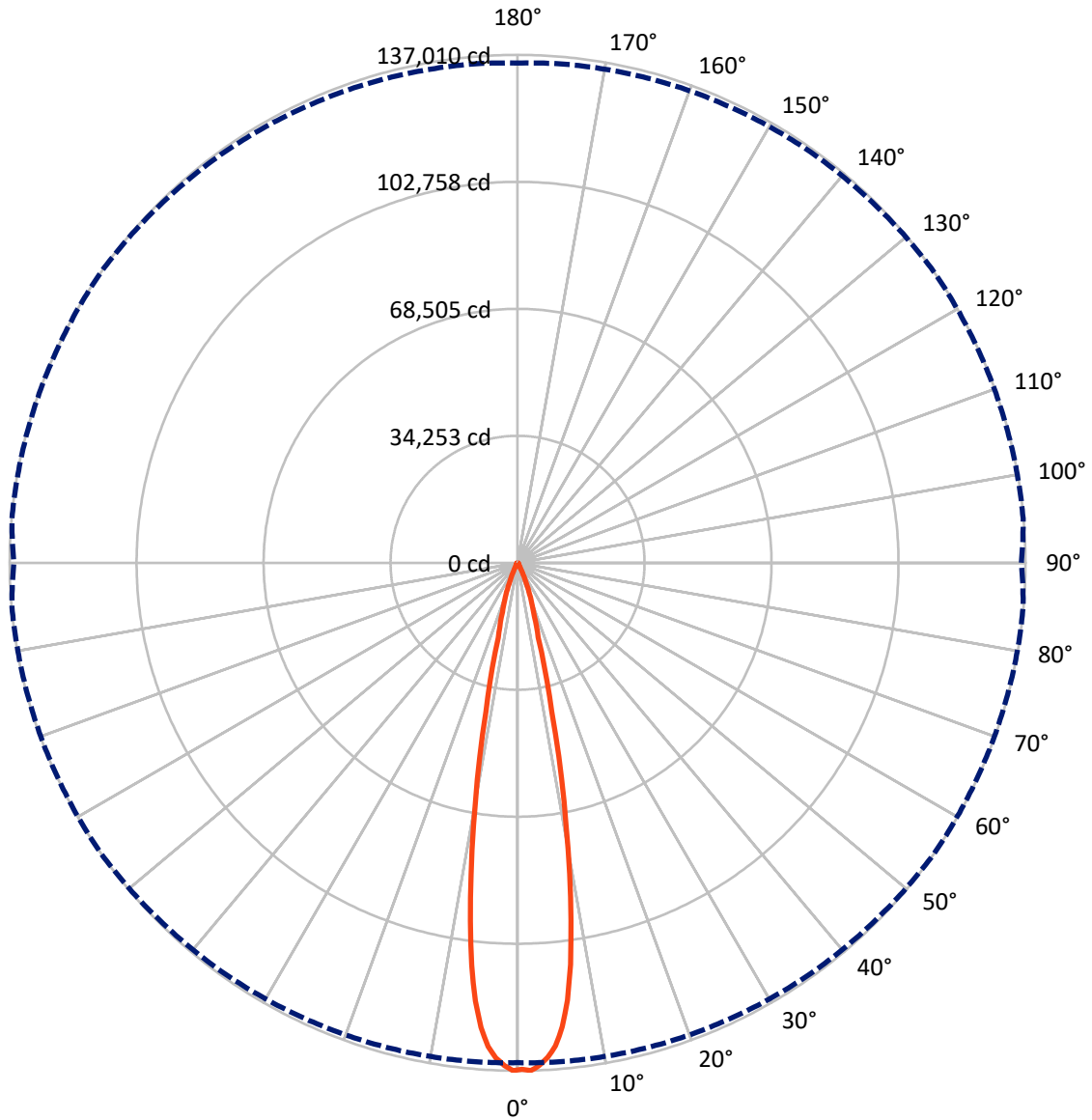
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 341.6 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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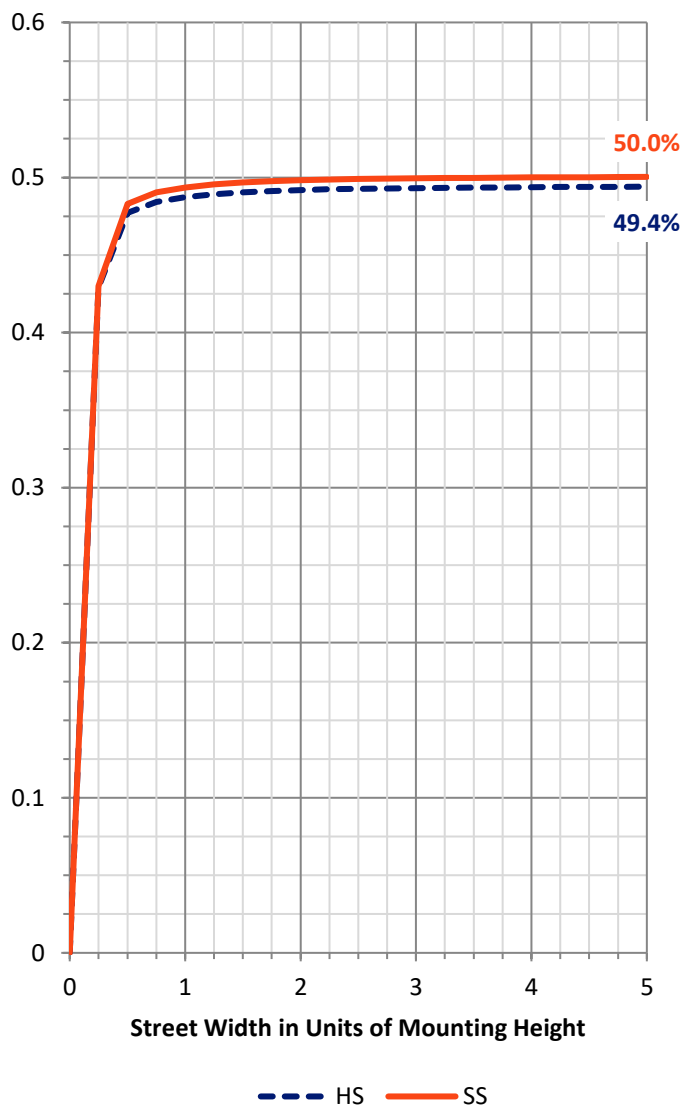
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9939.4 | 0.0 | 9939.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9939.4 | 0.0 | 9939.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19878.7 | 0.0 | 19878.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 10099.9 | 50.8 |
| 10°-20° | 7157.9 | 36.0 |
| 20°-30° | 1677.2 | 8.4 |
| 30°-40° | 350.6 | 1.8 |
| 40°-50° | 226.2 | 1.1 |
| 50°-60° | 167.5 | 0.8 |
| 60°-70° | 113.9 | 0.6 |
| 70°-80° | 60.8 | 0.3 |
| 80°-90° | 24.9 | 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° | 19878.7 | 100.0 |
| 0°-180° | 19878.7 | 100.0 |

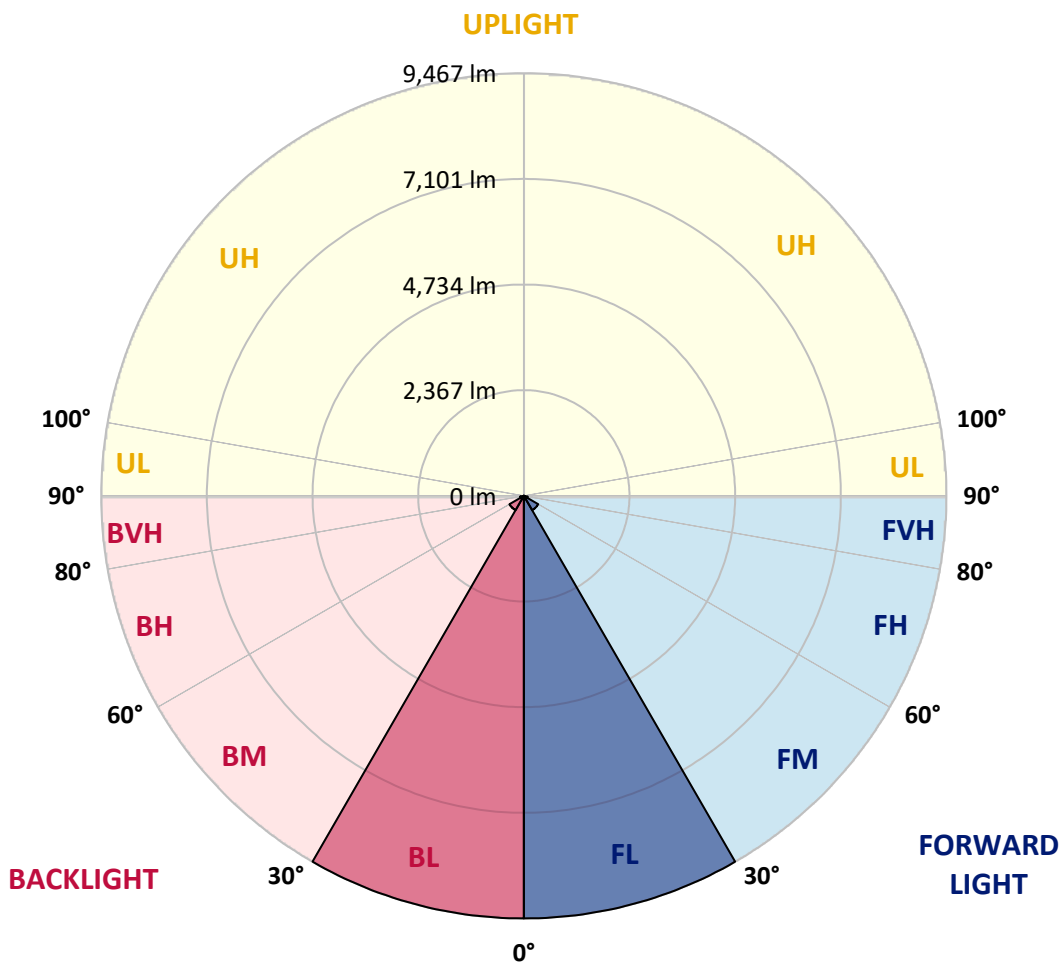


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 9467.5 | 47.6 | | | |
| FM (30°-60°) | 372.1 | 1.9 | | | |
| FH (60°-80°) | 87.3 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 12.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 9467.5 | 47.6 | B5 | | |
| BM (30°-60°) | 372.1 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 87.3 | 0.4 | B0/110 | | G0/660 |
| BVH (80°-90°) | 12.4 | 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° | 136658.9 | 136658.9 | 136658.9 | 136658.9 | 136658.9 | 136658.9 | 136658.9 | 136658.9 | 136658.9 | 136658.9 |
| 1° | 134820.3 | 135069.9 | 135375.7 | 135653.4 | 136071.8 | 136412.8 | 137010.4 | 136883.9 | 136866.3 | 136890.9 |
| 2° | 132208.2 | 132521.1 | 132992.2 | 133269.9 | 134349.2 | 134792.1 | 135695.6 | 135962.8 | 135748.4 | 135990.9 |
| 3° | 128295.5 | 128552.1 | 129290.4 | 129835.3 | 131234.4 | 132429.7 | 133639.1 | 134039.8 | 133790.2 | 133902.7 |
| 4° | 123637.4 | 123901.1 | 124794.0 | 125904.9 | 127926.3 | 129251.7 | 130700.1 | 131058.7 | 130243.1 | 130299.3 |
| 5° | 118093.4 | 118216.5 | 119309.8 | 120322.3 | 122740.9 | 124347.5 | 125722.1 | 125834.6 | 125089.3 | 124804.5 |
| 6° | 111856.9 | 111635.4 | 112640.8 | 113069.7 | 116075.5 | 117713.7 | 118719.2 | 118589.1 | 118023.1 | 117780.5 |
| 7° | 104446.2 | 104143.8 | 104955.9 | 104723.9 | 107385.1 | 108320.3 | 109287.0 | 108844.1 | 108394.1 | 108953.1 |
| 8° | 95871.8 | 95703.1 | 95179.2 | 96128.4 | 96655.8 | 97492.5 | 97488.9 | 97232.3 | 97218.2 | 98149.9 |
| 9° | 83405.8 | 84963.1 | 84502.6 | 85497.5 | 85363.9 | 85325.2 | 85068.6 | 84903.4 | 84200.3 | 85272.5 |
| 10° | 69716.3 | 70735.8 | 71512.7 | 72996.3 | 72708.0 | 73115.8 | 71688.5 | 71931.1 | 71463.5 | 72349.4 |
| 12.5° | 36086.8 | 37232.9 | 37904.4 | 39036.4 | 40280.9 | 41553.5 | 41142.2 | 40716.8 | 40080.5 | 40860.9 |
| 15° | 17763.9 | 18217.4 | 18431.9 | 19581.5 | 20467.4 | 20787.3 | 20836.5 | 20460.3 | 20298.6 | 20467.4 |
| 17.5° | 10901.6 | 11059.8 | 11682.1 | 13003.9 | 13770.3 | 13960.1 | 13837.1 | 13425.8 | 12965.2 | 12771.9 |
| 20° | 7892.3 | 7938.0 | 8173.6 | 8430.2 | 9453.2 | 9987.6 | 9790.7 | 9386.4 | 8961.1 | 8760.7 |
| 22.5° | 5153.8 | 5199.5 | 5276.8 | 5417.4 | 5691.6 | 6352.5 | 6138.1 | 5863.9 | 5575.6 | 5515.9 |
| 25° | 2917.9 | 2917.9 | 2998.7 | 3142.9 | 3346.8 | 3396.0 | 3438.2 | 3146.4 | 3012.8 | 2953.0 |
| 27.5° | 1627.7 | 1638.2 | 1655.8 | 1712.1 | 1814.0 | 1803.5 | 1757.8 | 1680.4 | 1589.0 | 1494.1 |
| 30° | 900.0 | 910.5 | 921.1 | 935.1 | 952.7 | 921.1 | 892.9 | 878.9 | 840.2 | 829.7 |
| 32.5° | 675.0 | 675.0 | 682.0 | 678.5 | 660.9 | 622.2 | 604.7 | 625.8 | 622.2 | 604.7 |
| 35° | 555.5 | 555.5 | 562.5 | 576.5 | 541.4 | 513.3 | 499.2 | 527.3 | 527.3 | 516.8 |
| 37.5° | 453.5 | 457.0 | 460.5 | 478.1 | 467.6 | 435.9 | 432.4 | 439.4 | 443.0 | 439.4 |
| 40° | 397.3 | 393.7 | 393.7 | 397.3 | 390.2 | 383.2 | 376.2 | 372.6 | 376.2 | 372.6 |
| 42.5° | 344.5 | 341.0 | 348.0 | 341.0 | 326.9 | 330.5 | 330.5 | 319.9 | 323.4 | 316.4 |
| 45° | 302.3 | 298.8 | 302.3 | 295.3 | 284.8 | 288.3 | 288.3 | 274.2 | 274.2 | 270.7 |
| 47.5° | 267.2 | 267.2 | 267.2 | 270.7 | 253.1 | 249.6 | 253.1 | 249.6 | 239.1 | 235.5 |
| 50° | 232.0 | 235.5 | 239.1 | 246.1 | 228.5 | 221.5 | 221.5 | 221.5 | 214.4 | 210.9 |
| 52.5° | 214.4 | 218.0 | 218.0 | 218.0 | 207.4 | 200.4 | 200.4 | 196.9 | 193.4 | 189.8 |
| 55° | 207.4 | 207.4 | 207.4 | 193.4 | 189.8 | 186.3 | 175.8 | 172.3 | 168.7 | 168.7 |
| 57.5° | 196.9 | 196.9 | 193.4 | 182.8 | 172.3 | 172.3 | 158.2 | 154.7 | 151.2 | 151.2 |
| 60° | 175.8 | 175.8 | 175.8 | 172.3 | 158.2 | 154.7 | 140.6 | 133.6 | 130.1 | 130.1 |
| 62.5° | 161.7 | 161.7 | 161.7 | 147.7 | 144.1 | 133.6 | 123.0 | 112.5 | 109.0 | 102.0 |
| 65° | 147.7 | 147.7 | 147.7 | 133.6 | 126.6 | 116.0 | 102.0 | 91.4 | 84.4 | 73.8 |
| 67.5° | 137.1 | 137.1 | 133.6 | 123.0 | 112.5 | 98.4 | 84.4 | 73.8 | 59.8 | 52.7 |
| 70° | 119.5 | 119.5 | 116.0 | 109.0 | 98.4 | 87.9 | 70.3 | 56.2 | 45.7 | 35.2 |
| 72.5° | 102.0 | 102.0 | 98.4 | 91.4 | 84.4 | 73.8 | 59.8 | 49.2 | 31.6 | 24.6 |
| 75° | 84.4 | 84.4 | 80.9 | 73.8 | 70.3 | 63.3 | 52.7 | 38.7 | 24.6 | 10.5 |
| 77.5° | 70.3 | 70.3 | 66.8 | 63.3 | 59.8 | 52.7 | 45.7 | 31.6 | 17.6 | 7.0 |
| 80° | 52.7 | 56.2 | 56.2 | 56.2 | 49.2 | 45.7 | 42.2 | 31.6 | 14.1 | 3.5 |
| 82.5° | 38.7 | 42.2 | 42.2 | 42.2 | 38.7 | 35.2 | 38.7 | 28.1 | 14.1 | 3.5 |
| 85° | 28.1 | 28.1 | 31.6 | 31.6 | 31.6 | 31.6 | 42.2 | 31.6 | 10.5 | 3.5 |
| 87.5° | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 17.6 | 21.1 | 17.6 | 7.0 | 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°
136658.9
135910.1
135069.9
133059.0
129462.6
124210.4
117235.6
108780.8
95565.9
83272.2
70078.4
38748.1
19679.9
12501.2
8606.0
5392.8
2903.8
1497.6
829.7
594.1
513.3
439.4
376.2
319.9
270.7
235.5
207.4
186.3
165.2
151.2
126.6
94.9
73.8
49.2
35.2
21.1
10.5
3.5
3.5
3.5
3.5
0.0
0.0

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