

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: P636333

Luminaire Tested: **IFLD-S-SA2C-935-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636333
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-935-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8823.3 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

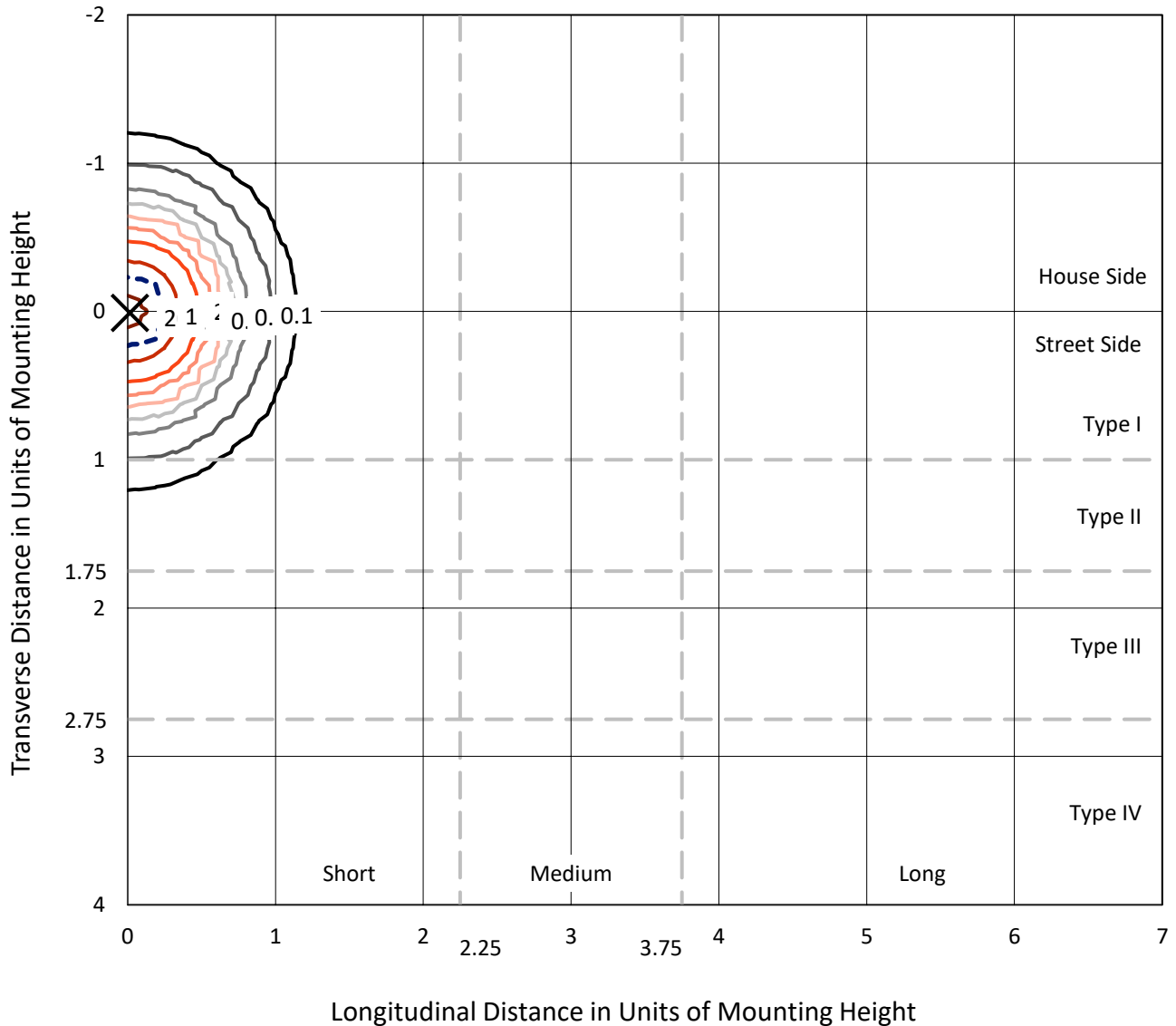
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

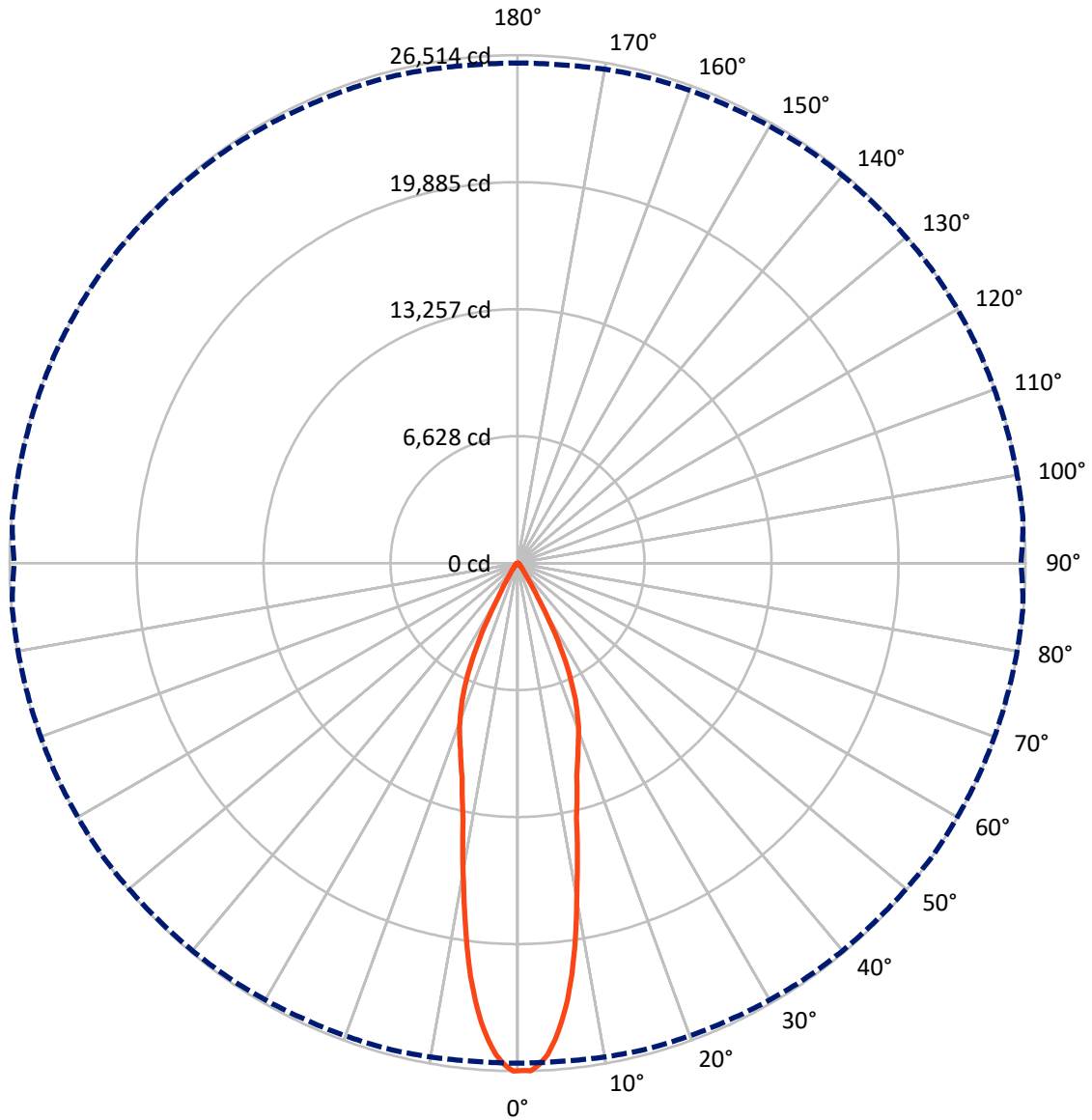
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 66.2 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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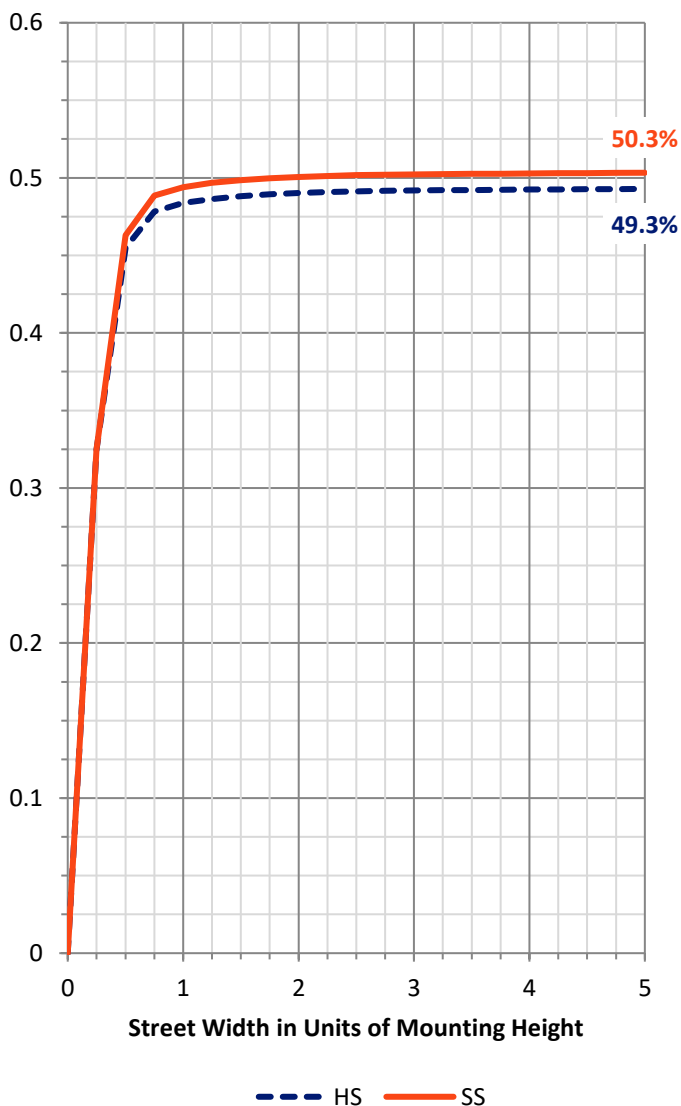
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4411.7 | 0.0 | 4411.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4411.7 | 0.0 | 4411.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8823.3 | 0.0 | 8823.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2015.0 | 22.8 |
| 10°-20° | 3291.0 | 37.3 |
| 20°-30° | 2571.7 | 29.1 |
| 30°-40° | 560.6 | 6.4 |
| 40°-50° | 166.0 | 1.9 |
| 50°-60° | 103.8 | 1.2 |
| 60°-70° | 72.6 | 0.8 |
| 70°-80° | 31.2 | 0.4 |
| 80°-90° | 11.5 | 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° | 8823.3 | 100.0 |
| 0°-180° | 8823.3 | 100.0 |

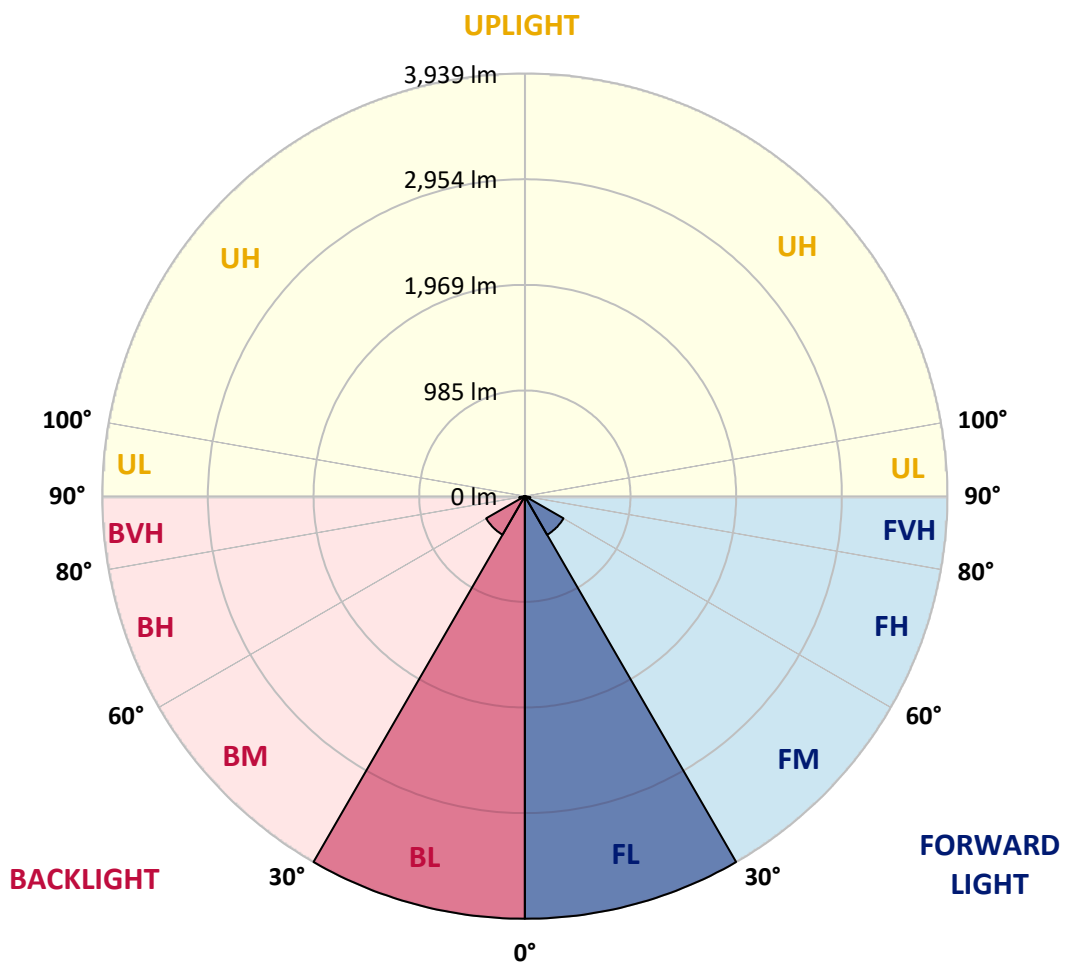


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3938.9 | 44.6 | | | |
| FM (30°-60°) | 415.2 | 4.7 | | | |
| FH (60°-80°) | 51.9 | 0.6 | | | G0/660 |
| FVH (80°-90°) | 5.8 | 0.1 | | | G0/10 |
| BL (0°-30°) | 3938.9 | 44.6 | B4/5000 | | |
| BM (30°-60°) | 415.2 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 51.9 | 0.6 | B0/110 | | G0/660 |
| BVH (80°-90°) | 5.8 | 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° | 26483.2 | 26483.2 | 26483.2 | 26483.2 | 26483.2 | 26483.2 | 26483.2 | 26483.2 | 26483.2 | 26483.2 |
| 1° | 26099.9 | 26103.1 | 26245.2 | 26277.2 | 26374.6 | 26424.1 | 26513.6 | 26504.0 | 26476.8 | 26480.0 |
| 2° | 25619.1 | 25598.3 | 25730.9 | 25877.8 | 25994.4 | 26090.3 | 26197.3 | 26219.7 | 26194.1 | 26218.1 |
| 3° | 24828.4 | 24798.1 | 24983.3 | 25167.0 | 25369.9 | 25534.4 | 25695.7 | 25702.1 | 25671.8 | 25670.2 |
| 4° | 23788.6 | 23732.7 | 23953.1 | 24280.5 | 24536.1 | 24754.9 | 24956.2 | 24953.0 | 24911.5 | 24945.0 |
| 5° | 22531.5 | 22461.2 | 22747.1 | 23178.4 | 23557.0 | 23820.5 | 24042.5 | 23989.8 | 23894.0 | 23898.8 |
| 6° | 20988.5 | 21057.2 | 21407.0 | 22012.4 | 22459.6 | 22678.4 | 22951.6 | 22852.5 | 22686.4 | 22668.9 |
| 7° | 19538.2 | 19693.1 | 19972.6 | 20702.6 | 21234.5 | 21464.5 | 21696.1 | 21496.4 | 21271.2 | 21234.5 |
| 8° | 18011.1 | 18269.9 | 18656.4 | 19328.9 | 19895.9 | 20127.6 | 20215.4 | 20001.4 | 19760.2 | 19750.6 |
| 9° | 16773.2 | 16950.5 | 17282.8 | 17875.4 | 18452.0 | 18606.9 | 18626.1 | 18439.2 | 18198.0 | 18214.0 |
| 10° | 15647.1 | 15680.7 | 15968.2 | 16477.7 | 16939.4 | 17049.6 | 17044.8 | 16909.0 | 16710.9 | 16763.6 |
| 12.5° | 13126.6 | 13217.6 | 13300.7 | 13463.6 | 13618.6 | 13690.4 | 13663.3 | 13607.4 | 13498.8 | 13503.6 |
| 15° | 11415.9 | 11414.3 | 11423.9 | 11499.0 | 11545.3 | 11553.3 | 11553.3 | 11483.0 | 11436.7 | 11505.3 |
| 17.5° | 9906.4 | 9989.5 | 10138.1 | 10198.8 | 10259.4 | 10237.1 | 10195.6 | 10163.6 | 10133.3 | 10192.4 |
| 20° | 8732.4 | 8769.2 | 8770.8 | 8810.7 | 9117.4 | 9133.4 | 9080.6 | 8989.6 | 8912.9 | 8898.5 |
| 22.5° | 7411.5 | 7467.4 | 7491.3 | 7526.5 | 7558.4 | 7791.6 | 7729.3 | 7582.4 | 7491.3 | 7464.2 |
| 25° | 5563.4 | 5544.2 | 5700.8 | 5988.3 | 6034.6 | 6063.3 | 6047.4 | 5970.7 | 5911.6 | 5922.8 |
| 27.5° | 3844.7 | 3878.2 | 3871.9 | 3875.0 | 4180.1 | 4178.5 | 4173.7 | 4106.7 | 4089.1 | 4063.5 |
| 30° | 2150.0 | 2134.0 | 2142.0 | 2121.2 | 2078.1 | 2130.8 | 2046.1 | 2118.0 | 2047.7 | 2070.1 |
| 32.5° | 1271.4 | 1260.3 | 1249.1 | 1253.9 | 1221.9 | 1143.7 | 1110.1 | 1159.6 | 1143.7 | 1137.3 |
| 35° | 811.4 | 816.2 | 830.6 | 829.0 | 800.2 | 755.5 | 707.6 | 752.3 | 745.9 | 726.8 |
| 37.5° | 517.5 | 517.5 | 522.3 | 563.8 | 539.9 | 501.6 | 468.0 | 487.2 | 485.6 | 482.4 |
| 40° | 367.4 | 367.4 | 373.8 | 384.9 | 372.2 | 353.0 | 333.8 | 333.8 | 337.0 | 327.4 |
| 42.5° | 273.1 | 273.1 | 279.5 | 285.9 | 269.9 | 263.6 | 254.0 | 247.6 | 255.6 | 247.6 |
| 45° | 214.0 | 212.4 | 214.0 | 210.8 | 201.3 | 201.3 | 193.3 | 183.7 | 193.3 | 188.5 |
| 47.5° | 175.7 | 174.1 | 172.5 | 166.1 | 156.5 | 158.1 | 154.9 | 147.0 | 151.7 | 150.1 |
| 50° | 153.3 | 150.1 | 151.7 | 145.4 | 137.4 | 135.8 | 135.8 | 127.8 | 129.4 | 129.4 |
| 52.5° | 134.2 | 134.2 | 132.6 | 129.4 | 126.2 | 119.8 | 121.4 | 113.4 | 113.4 | 113.4 |
| 55° | 126.2 | 126.2 | 123.0 | 116.6 | 118.2 | 113.4 | 108.6 | 103.8 | 102.2 | 102.2 |
| 57.5° | 124.6 | 124.6 | 123.0 | 116.6 | 111.8 | 110.2 | 103.8 | 97.4 | 92.6 | 94.2 |
| 60° | 121.4 | 121.4 | 118.2 | 116.6 | 108.6 | 105.4 | 95.8 | 91.0 | 84.7 | 84.7 |
| 62.5° | 116.6 | 115.0 | 108.6 | 99.0 | 99.0 | 91.0 | 84.7 | 75.1 | 70.3 | 68.7 |
| 65° | 99.0 | 97.4 | 92.6 | 84.7 | 79.9 | 75.1 | 65.5 | 55.9 | 52.7 | 47.9 |
| 67.5° | 81.5 | 81.5 | 78.3 | 70.3 | 67.1 | 60.7 | 49.5 | 43.1 | 35.1 | 31.9 |
| 70° | 67.1 | 67.1 | 63.9 | 59.1 | 55.9 | 47.9 | 38.3 | 31.9 | 24.0 | 20.8 |
| 72.5° | 54.3 | 54.3 | 51.1 | 47.9 | 44.7 | 39.9 | 31.9 | 24.0 | 16.0 | 12.8 |
| 75° | 43.1 | 43.1 | 41.5 | 38.3 | 35.1 | 31.9 | 25.6 | 19.2 | 11.2 | 6.4 |
| 77.5° | 35.1 | 35.1 | 33.5 | 31.9 | 28.8 | 25.6 | 20.8 | 16.0 | 8.0 | 3.2 |
| 80° | 27.2 | 27.2 | 27.2 | 27.2 | 24.0 | 20.8 | 17.6 | 12.8 | 6.4 | 1.6 |
| 82.5° | 19.2 | 19.2 | 20.8 | 24.0 | 19.2 | 16.0 | 16.0 | 12.8 | 4.8 | 1.6 |
| 85° | 12.8 | 14.4 | 16.0 | 14.4 | 12.8 | 12.8 | 22.4 | 20.8 | 4.8 | 1.6 |
| 87.5° | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 4.8 | 6.4 | 4.8 | 3.2 | 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°
26483.2
26283.5
26029.6
25531.2
24786.9
23665.6
22435.7
21060.4
19400.8
17976.0
16578.4
13345.4
11345.6
10056.6
8805.9
7366.7
5884.4
3970.9
2097.3
1121.3
706.0
476.0
324.3
246.0
188.5
150.1
131.0
113.4
100.6
94.2
79.9
65.5
46.3
30.3
19.2
11.2
4.8
3.2
1.6
1.6
1.6
0.0
0.0

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