

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: McGRAW-EDISON

Report Number: P823286

Luminaire Tested: **TTN-D0-830-U-CQ**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D0-830-U-CQ
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3000K, 80 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1095 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

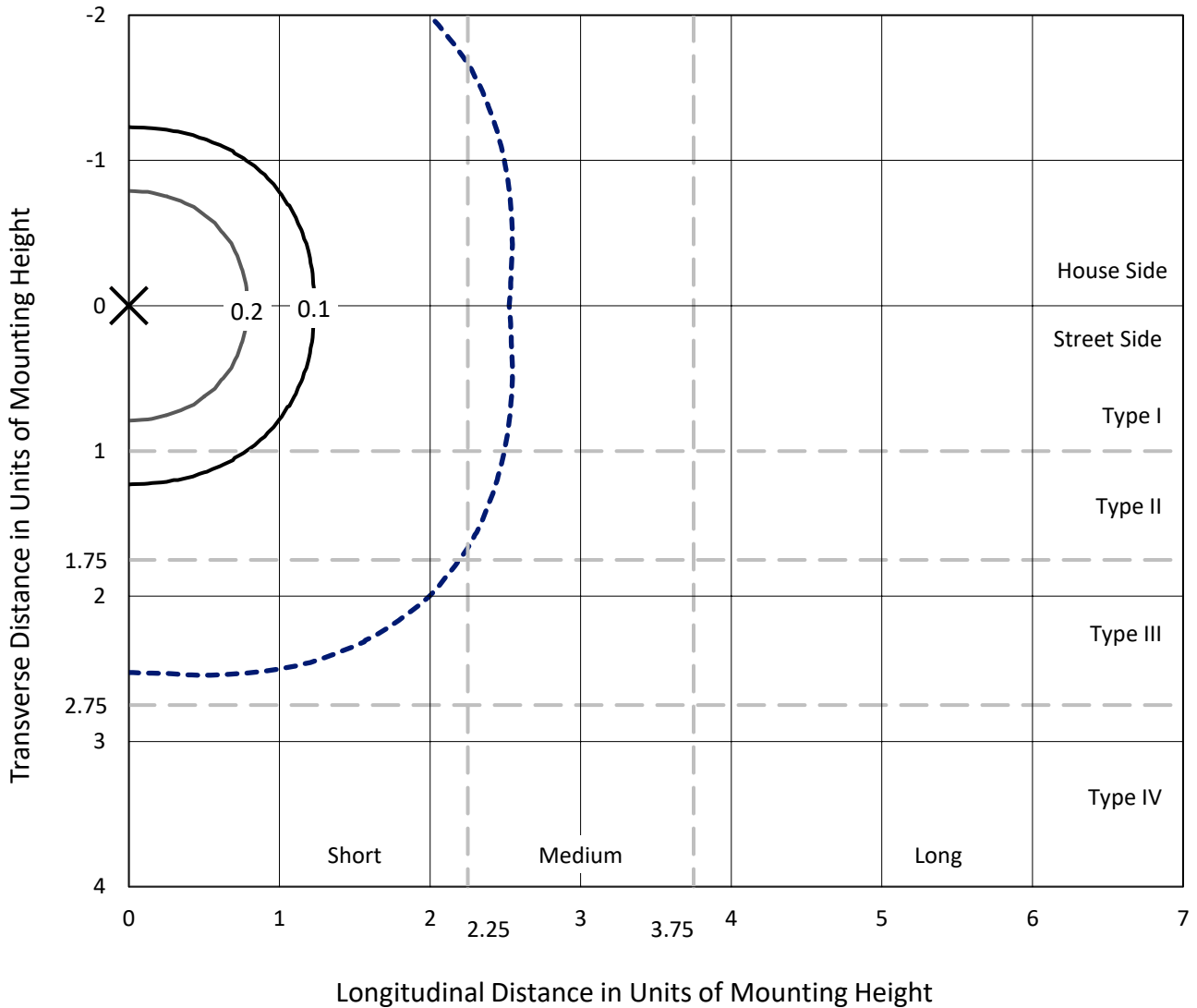
Input Watts (W): 10.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

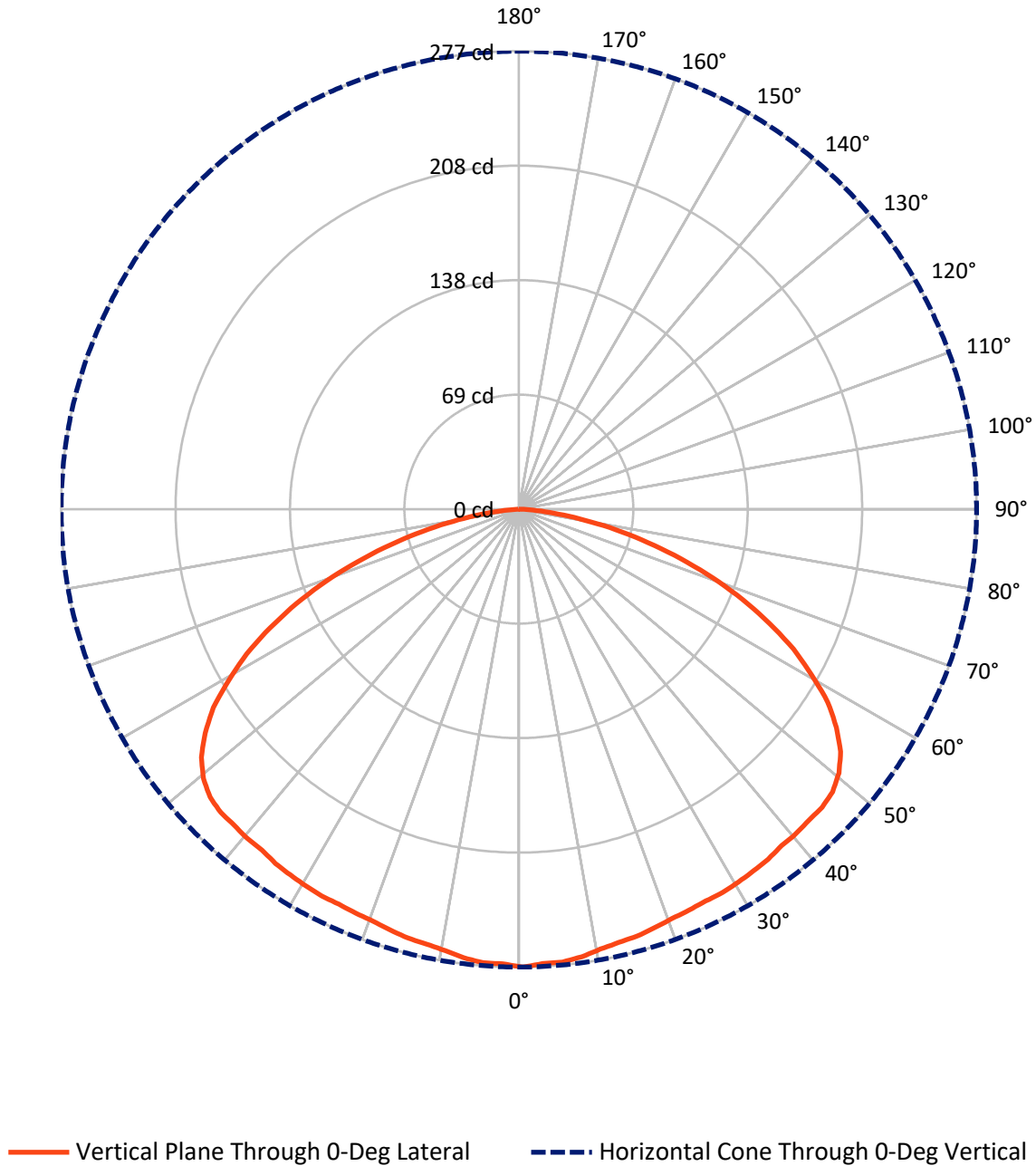
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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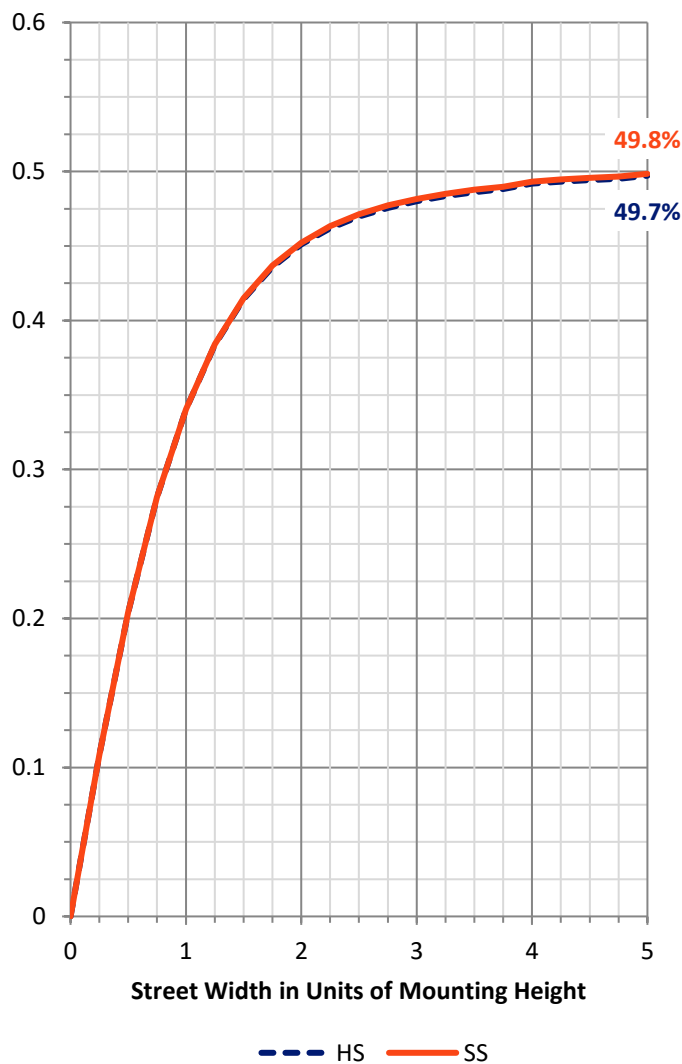
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 547.5 | 0.0 | 547.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 547.5 | 0.0 | 547.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 1095.0 | 0.0 | 1095.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.1 | 2.4 |
| 10°-20° | 75.8 | 6.9 |
| 20°-30° | 122.1 | 11.1 |
| 30°-40° | 164.2 | 15.0 |
| 40°-50° | 202.6 | 18.5 |
| 50°-60° | 217.3 | 19.8 |
| 60°-70° | 176.2 | 16.1 |
| 70°-80° | 93.4 | 8.5 |
| 80°-90° | 17.3 | 1.6 |
| 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° | 1095.0 | 100.0 |
| 0°-180° | 1095.0 | 100.0 |

Coefficient of Utilization



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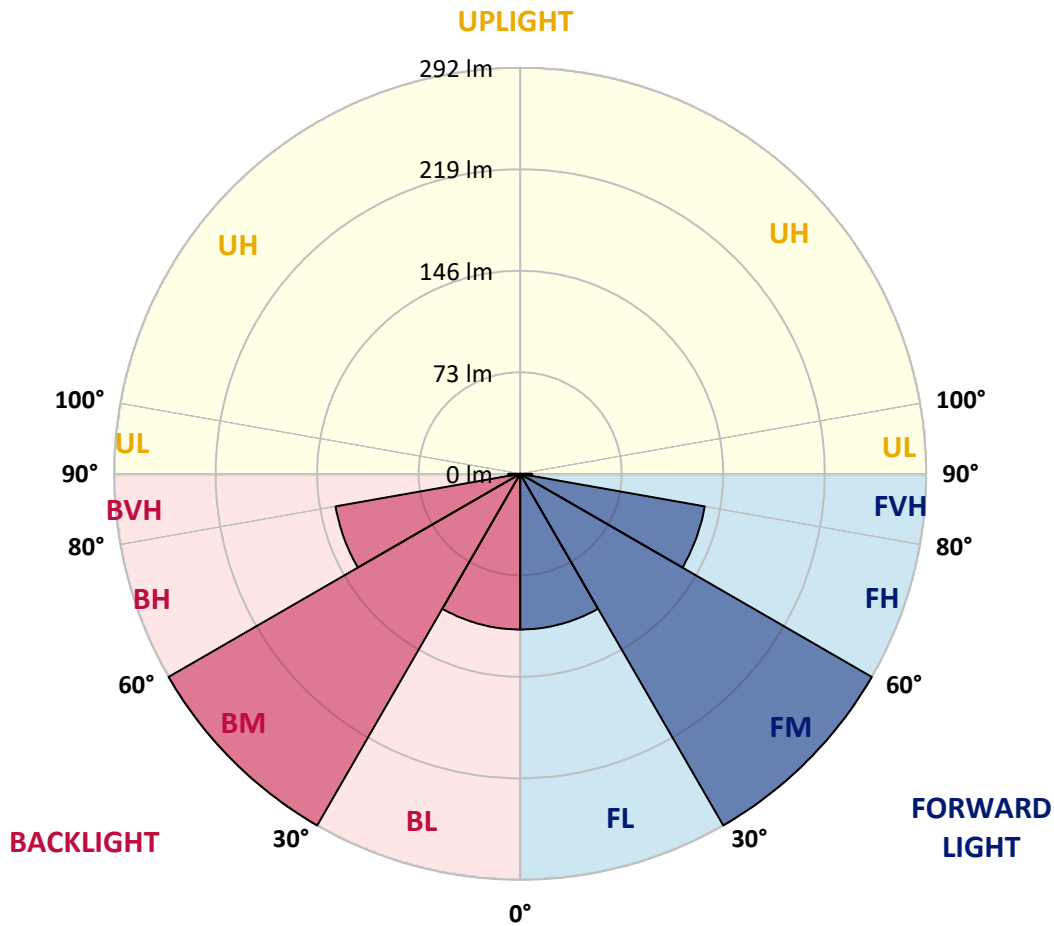
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 112.0 | 10.2 | | | |
| FM (30°-60°) | 292.0 | 26.7 | | | |
| FH (60°-80°) | 134.8 | 12.3 | | | G0/660 |
| FVH (80°-90°) | 8.6 | 0.8 | | | G0/10 |
| BL (0°-30°) | 112.0 | 10.2 | B1/500 | | |
| BM (30°-60°) | 292.0 | 26.7 | B1/1000 | | |
| BH (60°-80°) | 134.8 | 12.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 8.6 | 0.8 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 | 276.9 |
| 2.5° | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 | 276.0 |
| 5° | 275.1 | 275.1 | 275.1 | 275.1 | 274.2 | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 | 275.1 |
| 7.5° | 273.3 | 273.3 | 273.3 | 273.3 | 273.3 | 273.3 | 273.3 | 273.3 | 273.3 | 273.3 | 273.3 |
| 10° | 270.6 | 270.6 | 270.6 | 270.6 | 270.6 | 270.6 | 270.6 | 270.6 | 270.6 | 270.6 | 270.6 |
| 12.5° | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 | 268.8 |
| 15° | 267.9 | 267.9 | 267.9 | 267.9 | 267.9 | 267.9 | 267.9 | 267.9 | 267.9 | 267.0 | 267.0 |
| 17.5° | 266.1 | 266.1 | 266.1 | 266.1 | 267.0 | 267.0 | 267.0 | 266.1 | 266.1 | 266.1 | 266.1 |
| 20° | 264.3 | 264.3 | 264.3 | 265.2 | 265.2 | 265.2 | 265.2 | 265.2 | 264.3 | 264.3 | 264.3 |
| 22.5° | 263.4 | 263.4 | 263.4 | 263.4 | 264.3 | 264.3 | 264.3 | 264.3 | 263.4 | 263.4 | 263.4 |
| 25° | 262.5 | 262.5 | 263.4 | 263.4 | 264.3 | 264.3 | 264.3 | 263.4 | 263.4 | 262.5 | 262.5 |
| 27.5° | 262.5 | 262.5 | 263.4 | 263.4 | 264.3 | 264.3 | 264.3 | 264.3 | 263.4 | 262.5 | 262.5 |
| 30° | 261.7 | 262.5 | 262.5 | 263.4 | 264.3 | 264.3 | 264.3 | 263.4 | 262.5 | 261.7 | 261.7 |
| 32.5° | 260.8 | 260.8 | 261.7 | 262.5 | 263.4 | 263.4 | 263.4 | 262.5 | 261.7 | 260.8 | 259.9 |
| 35° | 259.9 | 259.9 | 259.9 | 261.7 | 262.5 | 262.5 | 262.5 | 261.7 | 259.9 | 259.0 | 259.0 |
| 37.5° | 258.1 | 259.0 | 259.9 | 260.8 | 262.5 | 262.5 | 262.5 | 260.8 | 259.0 | 258.1 | 257.2 |
| 40° | 258.1 | 258.1 | 259.9 | 260.8 | 263.4 | 263.4 | 262.5 | 260.8 | 259.0 | 257.2 | 256.3 |
| 42.5° | 257.2 | 258.1 | 259.9 | 262.5 | 265.2 | 265.2 | 264.3 | 261.7 | 259.0 | 257.2 | 256.3 |
| 45° | 257.2 | 257.2 | 259.9 | 263.4 | 267.0 | 267.9 | 266.1 | 263.4 | 259.9 | 256.3 | 256.3 |
| 47.5° | 255.4 | 255.4 | 259.0 | 263.4 | 267.9 | 268.8 | 267.9 | 263.4 | 259.0 | 256.3 | 255.4 |
| 50° | 250.9 | 250.9 | 255.4 | 260.8 | 266.1 | 267.9 | 266.1 | 262.5 | 256.3 | 252.7 | 251.8 |
| 52.5° | 243.7 | 243.7 | 248.2 | 255.4 | 260.8 | 263.4 | 261.7 | 257.2 | 250.9 | 245.5 | 244.6 |
| 55° | 233.0 | 233.9 | 238.4 | 246.4 | 252.7 | 255.4 | 253.6 | 248.2 | 241.0 | 235.7 | 233.9 |
| 57.5° | 220.4 | 220.4 | 226.7 | 234.8 | 241.0 | 243.7 | 241.9 | 236.6 | 228.5 | 223.1 | 221.3 |
| 60° | 203.4 | 204.3 | 209.7 | 220.4 | 226.7 | 229.4 | 227.6 | 221.3 | 212.4 | 206.1 | 204.3 |
| 62.5° | 186.4 | 187.3 | 192.7 | 201.6 | 208.8 | 210.6 | 208.8 | 202.5 | 194.4 | 188.2 | 186.4 |
| 65° | 166.7 | 167.6 | 173.8 | 181.9 | 187.3 | 190.0 | 187.3 | 181.9 | 174.7 | 168.5 | 167.6 |
| 67.5° | 146.1 | 147.0 | 153.2 | 160.4 | 165.8 | 167.6 | 164.9 | 160.4 | 153.2 | 147.9 | 146.1 |
| 70° | 124.6 | 125.5 | 130.8 | 137.1 | 141.6 | 143.4 | 141.6 | 136.2 | 130.8 | 125.5 | 124.6 |
| 72.5° | 102.2 | 103.0 | 108.4 | 113.8 | 117.4 | 119.2 | 116.5 | 112.9 | 107.5 | 103.0 | 102.2 |
| 75° | 80.6 | 80.6 | 85.1 | 89.6 | 93.2 | 94.1 | 92.3 | 89.6 | 85.1 | 81.5 | 79.8 |
| 77.5° | 60.0 | 60.0 | 64.5 | 67.2 | 69.0 | 70.8 | 69.0 | 66.3 | 63.6 | 60.0 | 60.0 |
| 80° | 40.3 | 40.3 | 43.9 | 45.7 | 47.5 | 48.4 | 47.5 | 45.7 | 43.9 | 41.2 | 40.3 |
| 82.5° | 24.2 | 24.2 | 26.0 | 27.8 | 27.8 | 28.7 | 28.7 | 27.8 | 26.0 | 24.2 | 24.2 |
| 85° | 10.8 | 9.9 | 11.6 | 12.5 | 12.5 | 13.4 | 13.4 | 12.5 | 11.6 | 10.8 | 10.8 |
| 87.5° | 0.9 | 1.8 | 1.8 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 1.8 | 1.8 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)