

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: INVUE

Report Number: P173854

Luminaire Tested: **ENV-FXX-LED-E1-BL4-7030-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173854  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33646)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-FXX-LED-E1-BL4-7030-BBB  
Description: ENTRI LED LUMINAIRE, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1275.5 lumens  
Efficiency: N/A  
Efficacy: 231.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B0 - U0 - G0

Input Watts (W): 5.5  
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: 25 FT



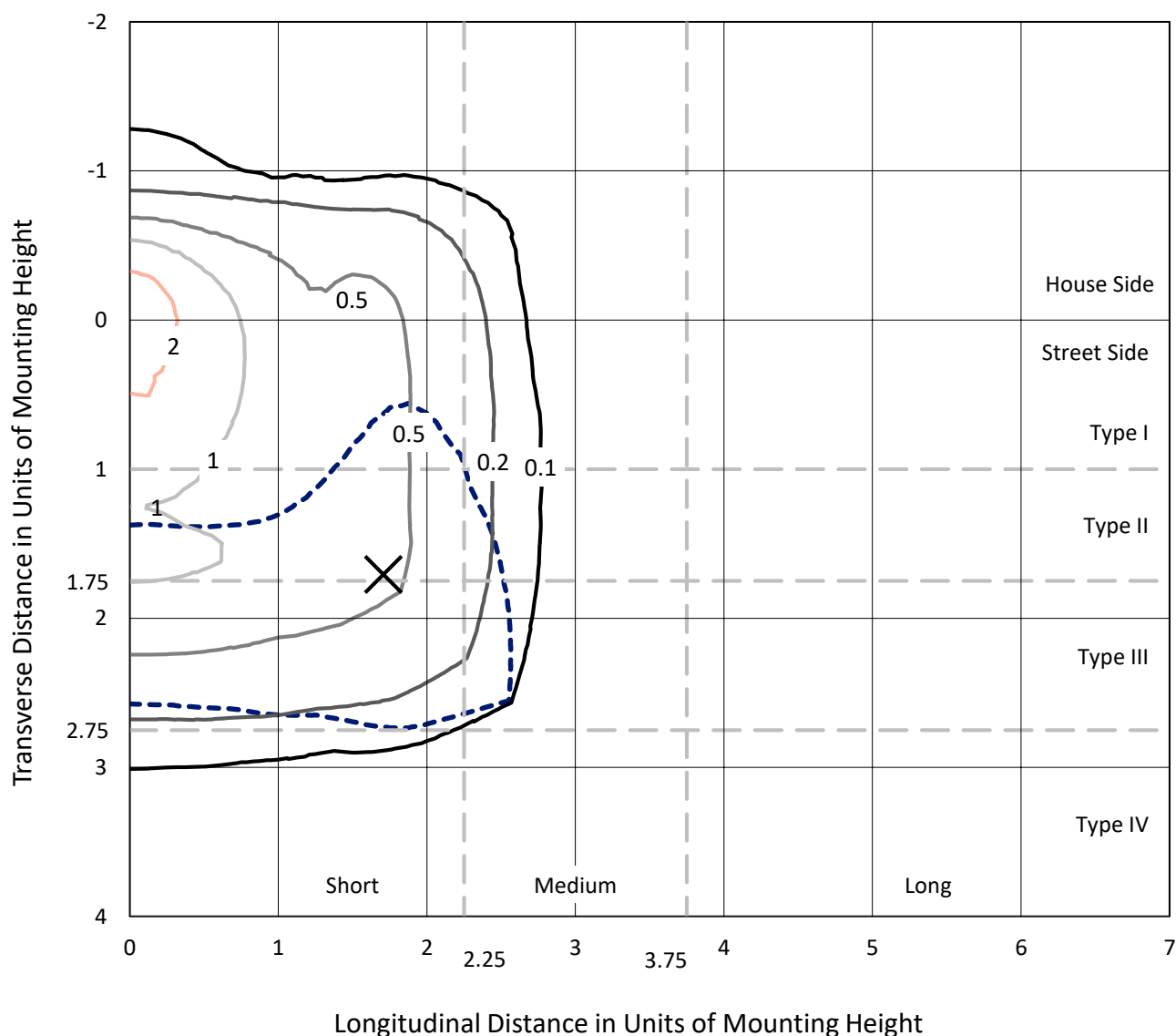
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

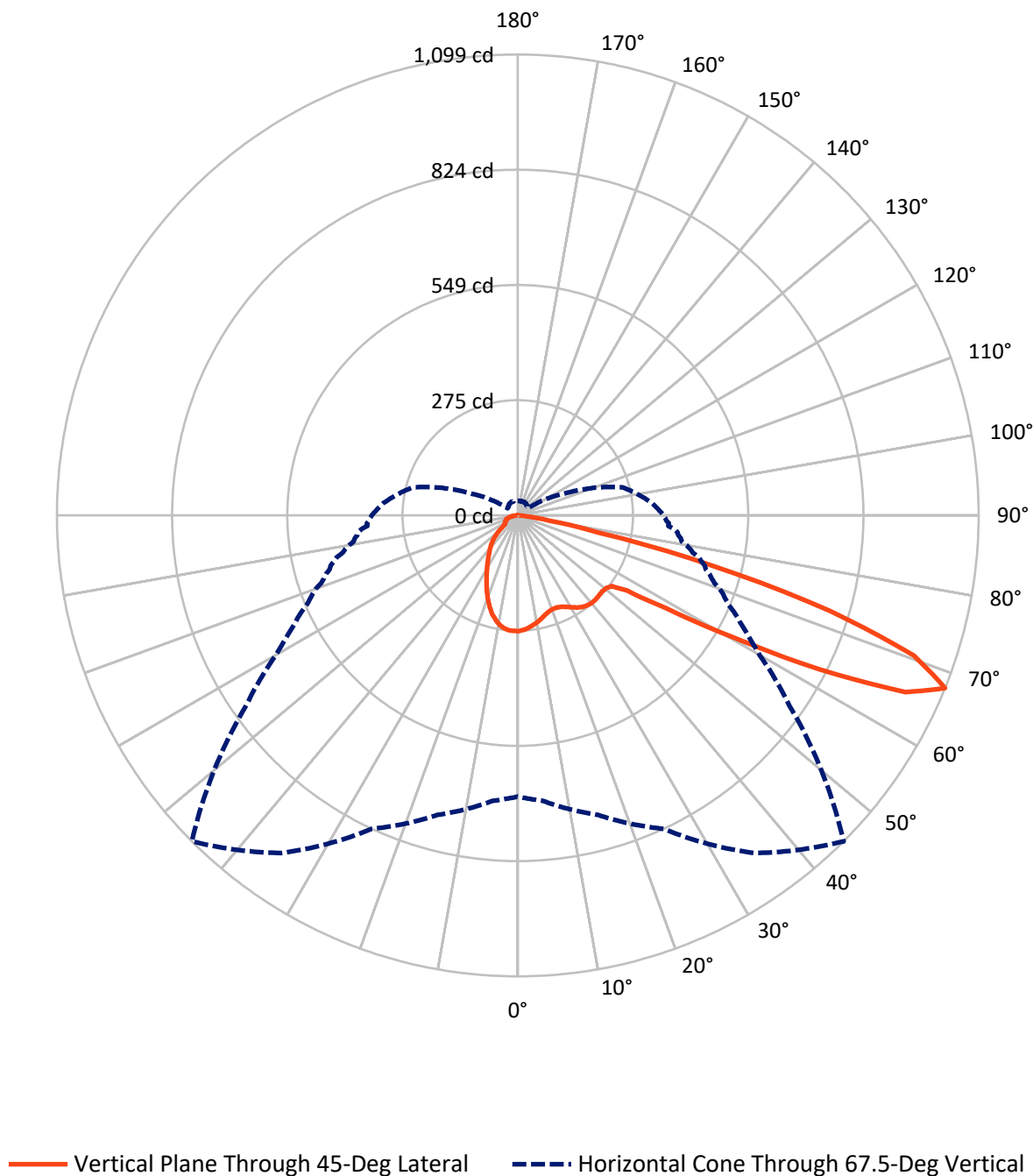


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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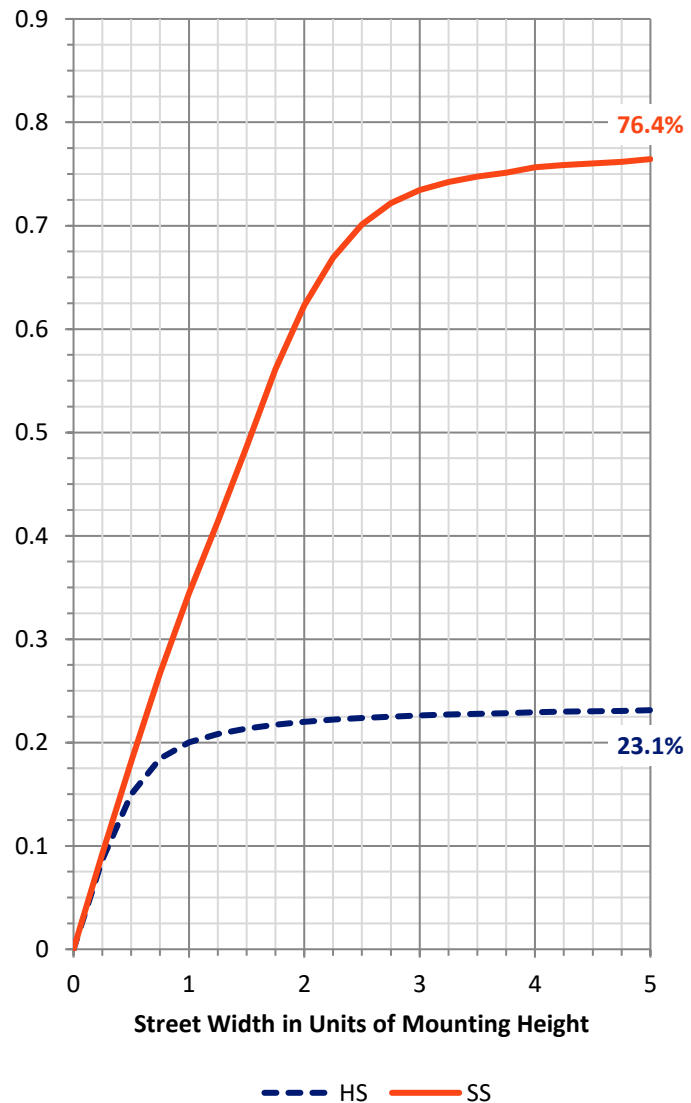
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 298.9    | 0.0    | 298.9  |
|                    | % Fixture | 23.4     | 0.0    | 23.4   |
| <b>Street Side</b> | Lumens    | 976.6    | 0.0    | 976.6  |
|                    | % Fixture | 76.6     | 0.0    | 76.6   |
| <b>Total</b>       | Lumens    | 1275.5   | 0.0    | 1275.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 25.6   | 2.0       |
| 10°-20°   | 68.9   | 5.4       |
| 20°-30°   | 99.3   | 7.8       |
| 30°-40°   | 126.7  | 9.9       |
| 40°-50°   | 149.6  | 11.7      |
| 50°-60°   | 239.9  | 18.8      |
| 60°-70°   | 403.8  | 31.7      |
| 70°-80°   | 150.2  | 11.8      |
| 80°-90°   | 11.4   | 0.9       |
| 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°    | 1275.5 | 100.0     |
| 0°-180°   | 1275.5 | 100.0     |

**Coefficient of Utilization**



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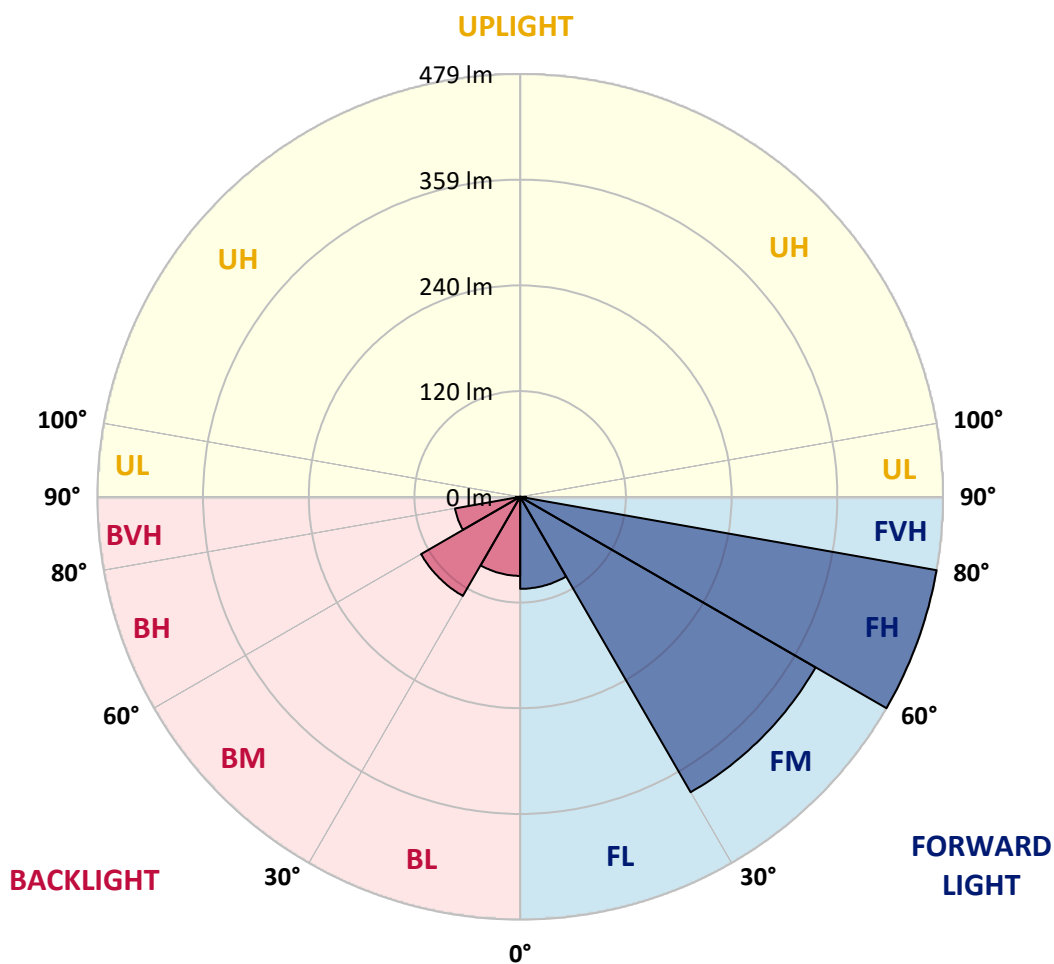
CATALOG NUMBER: ENV-FXX-LED-E1-BL4-7030-BBB

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 104.3  | 8.2       |                         |      |        |
| FM   | (30°-60°)   | 386.5  | 30.3      |                         |      |        |
| FH   | (60°-80°)   | 479.1  | 37.6      |                         |      | G0/660 |
| FVH  | (80°-90°)   | 6.8    | 0.5       |                         |      | G0/10  |
| BL   | (0°-30°)    | 89.6   | 7.0       | B0/110                  |      |        |
| BM   | (30°-60°)   | 129.7  | 10.2      | B0/220                  |      |        |
| BH   | (60°-80°)   | 74.9   | 5.9       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 4.6    | 0.4       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B0-U0-G0**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°    | 55°   | 60°   | 61°   | 62°   | 64°   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6  | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 |
| 2.5°  | 271.7 | 271.7 | 272.2 | 272.2 | 272.9 | 273.4  | 272.9 | 273.9 | 273.9 | 273.6 | 274.1 |
| 5°    | 267.8 | 267.8 | 268.0 | 268.0 | 268.5 | 269.3  | 268.8 | 269.8 | 269.5 | 269.8 | 269.8 |
| 7.5°  | 263.2 | 263.2 | 263.6 | 263.4 | 263.6 | 264.1  | 262.9 | 263.6 | 263.6 | 263.9 | 263.6 |
| 10°   | 257.3 | 257.8 | 258.3 | 258.0 | 258.0 | 258.3  | 256.3 | 257.1 | 256.8 | 256.8 | 256.5 |
| 12.5° | 251.9 | 251.4 | 251.9 | 252.4 | 252.2 | 252.2  | 250.2 | 249.7 | 249.7 | 249.7 | 250.0 |
| 15°   | 246.3 | 246.8 | 247.5 | 246.8 | 246.3 | 245.3  | 243.4 | 242.9 | 242.9 | 242.9 | 243.1 |
| 17.5° | 245.1 | 245.1 | 245.6 | 244.9 | 242.9 | 240.9  | 237.0 | 236.3 | 236.3 | 236.1 | 236.1 |
| 20°   | 248.5 | 248.3 | 249.0 | 247.5 | 243.1 | 238.0  | 231.9 | 230.7 | 230.7 | 230.7 | 230.5 |
| 22.5° | 255.6 | 255.6 | 256.8 | 255.1 | 248.0 | 238.3  | 229.2 | 227.3 | 227.0 | 226.8 | 226.3 |
| 25°   | 269.3 | 269.0 | 269.8 | 265.4 | 255.1 | 241.4  | 228.5 | 225.6 | 225.3 | 224.8 | 224.3 |
| 27.5° | 285.1 | 285.6 | 287.1 | 280.5 | 265.4 | 247.0  | 231.7 | 226.8 | 226.3 | 225.6 | 224.6 |
| 30°   | 300.7 | 302.2 | 304.9 | 297.8 | 277.1 | 254.1  | 236.5 | 230.9 | 230.0 | 229.0 | 227.3 |
| 32.5° | 320.5 | 320.0 | 324.4 | 313.7 | 287.3 | 261.7  | 241.7 | 234.8 | 233.6 | 232.1 | 230.0 |
| 35°   | 341.5 | 342.5 | 343.5 | 326.1 | 295.9 | 267.8  | 244.9 | 237.0 | 235.6 | 234.1 | 230.9 |
| 37.5° | 362.5 | 362.7 | 360.5 | 336.1 | 301.0 | 271.4  | 246.5 | 237.5 | 235.6 | 233.4 | 229.7 |
| 40°   | 381.8 | 381.1 | 374.5 | 343.7 | 303.9 | 273.4  | 247.3 | 236.5 | 234.1 | 231.9 | 227.8 |
| 42.5° | 392.8 | 392.0 | 383.8 | 347.1 | 304.2 | 273.2  | 247.3 | 235.6 | 232.9 | 230.2 | 225.6 |
| 45°   | 397.4 | 396.9 | 387.4 | 347.6 | 302.5 | 271.7  | 245.8 | 234.6 | 231.9 | 229.5 | 224.6 |
| 47.5° | 397.9 | 397.9 | 388.1 | 346.9 | 301.0 | 270.7  | 245.8 | 235.8 | 233.6 | 231.7 | 228.0 |
| 50°   | 395.7 | 396.0 | 388.4 | 348.9 | 302.2 | 272.9  | 248.3 | 238.7 | 236.5 | 234.6 | 230.5 |
| 52.5° | 421.6 | 419.1 | 402.3 | 357.6 | 310.3 | 280.0  | 256.5 | 248.0 | 247.3 | 246.1 | 242.9 |
| 55°   | 619.3 | 621.3 | 529.3 | 412.5 | 344.2 | 316.4  | 306.6 | 304.9 | 310.3 | 312.2 | 312.2 |
| 57.5° | 786.3 | 779.9 | 745.3 | 602.0 | 450.2 | 416.7  | 420.6 | 424.7 | 432.6 | 436.0 | 438.4 |
| 60°   | 827.1 | 827.5 | 826.6 | 785.8 | 664.5 | 588.3  | 569.3 | 551.2 | 550.5 | 544.1 | 539.3 |
| 62.5° | 822.2 | 826.1 | 844.4 | 853.7 | 865.6 | 809.7  | 693.5 | 643.5 | 633.7 | 621.8 | 604.7 |
| 65°   | 786.8 | 792.6 | 821.9 | 867.1 | 970.1 | 1016.0 | 777.3 | 687.7 | 672.6 | 658.1 | 629.3 |
| 67.5° | 670.3 | 683.0 | 739.2 | 824.4 | 982.6 | 1098.8 | 790.9 | 666.2 | 646.2 | 627.4 | 593.2 |
| 70°   | 413.8 | 420.4 | 507.0 | 665.2 | 890.3 | 1001.8 | 718.2 | 565.4 | 540.0 | 516.0 | 469.4 |
| 72.5° | 267.1 | 264.9 | 279.5 | 374.7 | 654.2 | 778.5  | 493.8 | 375.9 | 355.2 | 336.1 | 306.1 |
| 75°   | 187.0 | 187.2 | 180.7 | 178.7 | 303.4 | 482.1  | 223.6 | 160.6 | 151.4 | 147.4 | 141.1 |
| 77.5° | 121.8 | 123.3 | 121.6 | 126.2 | 121.6 | 200.4  | 102.8 | 75.4  | 71.8  | 69.3  | 65.4  |
| 80°   | 73.5  | 78.4  | 79.8  | 80.8  | 82.0  | 75.7   | 61.0  | 44.4  | 40.0  | 35.9  | 29.5  |
| 82.5° | 13.0  | 12.7  | 17.6  | 23.7  | 31.0  | 35.4   | 25.6  | 16.1  | 15.1  | 14.6  | 13.4  |
| 85°   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5   | 1.7    | 2.7   | 3.2   | 2.9   | 3.2   | 3.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5    | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 65°   | 66°   | 67°   | 68°   | 69°   | 70°   | 71°   | 72°   | 73°   | 74°   | 75°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 |
| 2.5°  | 274.1 | 273.9 | 273.6 | 273.6 | 274.1 | 274.1 | 273.9 | 273.9 | 274.1 | 273.9 | 274.4 |
| 5°    | 270.0 | 269.8 | 269.8 | 269.5 | 269.8 | 270.0 | 269.8 | 269.8 | 270.0 | 269.8 | 270.2 |
| 7.5°  | 263.4 | 263.6 | 263.4 | 263.4 | 263.6 | 263.9 | 263.6 | 263.6 | 263.6 | 263.6 | 263.4 |
| 10°   | 256.5 | 256.5 | 256.3 | 256.3 | 256.8 | 256.5 | 256.3 | 256.3 | 256.5 | 256.8 | 256.3 |
| 12.5° | 249.7 | 250.2 | 250.2 | 249.2 | 249.5 | 249.7 | 249.7 | 249.5 | 249.5 | 250.2 | 249.5 |
| 15°   | 242.9 | 243.1 | 242.9 | 243.1 | 242.7 | 242.4 | 242.7 | 242.7 | 242.2 | 241.9 | 241.9 |
| 17.5° | 236.1 | 235.8 | 235.8 | 235.3 | 235.1 | 235.1 | 234.8 | 235.1 | 234.6 | 234.8 | 234.1 |
| 20°   | 230.0 | 229.7 | 229.5 | 229.5 | 228.7 | 228.7 | 228.7 | 228.5 | 228.0 | 228.0 | 227.8 |
| 22.5° | 226.3 | 226.1 | 225.8 | 225.3 | 225.1 | 224.8 | 224.8 | 224.6 | 224.1 | 223.8 | 223.6 |
| 25°   | 224.3 | 224.1 | 223.6 | 223.1 | 222.9 | 222.6 | 222.6 | 222.4 | 221.9 | 221.4 | 221.2 |
| 27.5° | 224.6 | 224.1 | 223.6 | 223.1 | 222.9 | 222.4 | 222.1 | 221.9 | 221.4 | 220.9 | 220.4 |
| 30°   | 226.8 | 225.8 | 224.8 | 224.1 | 223.4 | 222.6 | 222.1 | 221.9 | 221.2 | 220.4 | 219.7 |
| 32.5° | 229.0 | 227.8 | 226.3 | 224.8 | 223.6 | 222.4 | 221.6 | 220.9 | 219.9 | 218.7 | 218.0 |
| 35°   | 229.7 | 228.3 | 226.1 | 224.8 | 223.1 | 221.6 | 220.4 | 219.4 | 217.8 | 216.3 | 215.1 |
| 37.5° | 228.0 | 226.3 | 224.1 | 222.4 | 220.7 | 218.7 | 217.3 | 215.8 | 214.6 | 212.9 | 211.6 |
| 40°   | 225.3 | 223.4 | 221.2 | 218.7 | 217.0 | 215.1 | 213.6 | 212.4 | 210.7 | 209.2 | 208.2 |
| 42.5° | 223.1 | 220.9 | 218.5 | 216.5 | 214.6 | 212.6 | 210.9 | 209.7 | 208.0 | 206.3 | 205.1 |
| 45°   | 222.4 | 220.2 | 218.2 | 215.8 | 213.8 | 212.4 | 210.9 | 209.2 | 207.7 | 206.3 | 204.8 |
| 47.5° | 226.3 | 224.3 | 222.4 | 220.4 | 218.7 | 217.0 | 215.6 | 213.8 | 212.1 | 210.2 | 208.7 |
| 50°   | 228.5 | 226.3 | 224.6 | 222.4 | 220.4 | 218.7 | 217.3 | 215.6 | 214.3 | 212.4 | 210.9 |
| 52.5° | 244.3 | 241.4 | 241.9 | 240.0 | 240.0 | 238.0 | 239.5 | 237.3 | 238.5 | 237.0 | 239.2 |
| 55°   | 311.5 | 312.5 | 318.6 | 319.6 | 322.0 | 321.8 | 323.2 | 329.6 | 327.1 | 323.9 | 324.9 |
| 57.5° | 431.8 | 434.0 | 437.2 | 434.3 | 436.5 | 436.9 | 441.1 | 439.4 | 438.0 | 436.9 | 433.8 |
| 60°   | 536.3 | 533.4 | 528.7 | 523.1 | 520.9 | 518.5 | 514.4 | 514.4 | 509.0 | 507.3 | 503.1 |
| 62.5° | 597.6 | 589.1 | 583.2 | 574.2 | 567.8 | 563.4 | 556.1 | 550.5 | 543.1 | 537.5 | 530.9 |
| 65°   | 617.6 | 603.2 | 593.0 | 581.7 | 571.7 | 562.2 | 551.7 | 543.6 | 534.6 | 528.5 | 518.0 |
| 67.5° | 578.8 | 564.2 | 546.8 | 534.9 | 524.4 | 512.4 | 496.0 | 486.0 | 478.2 | 466.5 | 461.4 |
| 70°   | 450.6 | 435.3 | 413.5 | 407.7 | 391.6 | 373.0 | 356.4 | 346.4 | 334.9 | 326.9 | 318.3 |
| 72.5° | 285.8 | 268.5 | 259.0 | 251.9 | 241.4 | 226.1 | 211.6 | 205.8 | 195.8 | 193.6 | 188.0 |
| 75°   | 134.3 | 122.5 | 120.1 | 118.4 | 106.9 | 104.7 | 100.3 | 98.4  | 93.7  | 91.3  | 90.3  |
| 77.5° | 60.1  | 57.4  | 53.0  | 51.7  | 48.1  | 44.4  | 40.0  | 38.1  | 35.6  | 34.2  | 32.2  |
| 80°   | 27.3  | 24.7  | 23.0  | 21.7  | 21.2  | 20.0  | 19.0  | 18.3  | 17.6  | 17.6  | 16.3  |
| 82.5° | 13.2  | 12.7  | 12.2  | 12.2  | 11.5  | 11.5  | 10.7  | 10.5  | 10.3  | 10.0  | 10.0  |
| 85°   | 3.7   | 3.7   | 3.7   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 4.1   | 4.1   |
| 87.5° | 0.5   | 0.5   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 76°   | 77°   | 78°   | 79°   | 80°   | 81°   | 82°   | 83°   | 84°   | 85°   | 86°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 |
| 2.5°  | 274.1 | 274.1 | 274.1 | 274.6 | 274.4 | 275.1 | 275.1 | 275.1 | 275.6 | 275.8 | 275.6 |
| 5°    | 270.2 | 270.2 | 270.2 | 270.5 | 270.5 | 271.0 | 271.0 | 271.4 | 271.4 | 271.7 | 271.7 |
| 7.5°  | 263.9 | 264.1 | 264.1 | 264.6 | 264.4 | 264.6 | 264.6 | 265.4 | 265.4 | 265.6 | 265.6 |
| 10°   | 256.5 | 256.8 | 256.8 | 256.8 | 257.1 | 257.3 | 257.3 | 257.8 | 258.0 | 258.0 | 258.5 |
| 12.5° | 249.7 | 249.5 | 249.7 | 249.5 | 250.2 | 250.2 | 250.5 | 250.2 | 250.5 | 250.7 | 250.9 |
| 15°   | 242.2 | 242.2 | 241.9 | 242.2 | 242.2 | 241.9 | 241.7 | 241.9 | 242.4 | 242.4 | 242.4 |
| 17.5° | 234.6 | 233.9 | 233.9 | 233.9 | 233.6 | 233.1 | 233.6 | 233.4 | 233.4 | 233.6 | 233.4 |
| 20°   | 227.5 | 227.3 | 227.0 | 226.8 | 226.5 | 225.8 | 225.8 | 225.8 | 225.6 | 225.6 | 225.6 |
| 22.5° | 223.1 | 222.9 | 222.6 | 222.4 | 221.4 | 220.9 | 220.7 | 220.4 | 219.9 | 219.7 | 219.4 |
| 25°   | 220.7 | 220.2 | 219.7 | 219.2 | 218.5 | 217.8 | 217.0 | 216.8 | 216.3 | 215.8 | 215.1 |
| 27.5° | 219.9 | 219.4 | 218.5 | 218.0 | 217.0 | 216.3 | 215.6 | 214.8 | 214.1 | 213.4 | 212.6 |
| 30°   | 218.7 | 218.0 | 217.0 | 216.3 | 215.6 | 214.3 | 213.4 | 212.6 | 211.4 | 210.7 | 209.7 |
| 32.5° | 217.0 | 216.0 | 215.1 | 214.1 | 213.1 | 211.9 | 210.7 | 209.7 | 208.7 | 207.7 | 206.5 |
| 35°   | 214.1 | 212.9 | 211.4 | 210.4 | 209.2 | 208.0 | 207.0 | 205.3 | 204.6 | 203.4 | 202.1 |
| 37.5° | 210.2 | 209.0 | 207.7 | 206.5 | 205.1 | 204.1 | 202.6 | 201.2 | 200.4 | 199.7 | 198.0 |
| 40°   | 206.8 | 205.3 | 204.1 | 203.1 | 201.4 | 200.7 | 199.2 | 197.7 | 196.8 | 196.0 | 194.5 |
| 42.5° | 203.6 | 202.1 | 200.9 | 199.4 | 198.2 | 197.2 | 196.0 | 194.5 | 193.6 | 193.1 | 191.9 |
| 45°   | 203.6 | 201.9 | 200.4 | 199.2 | 198.0 | 196.8 | 195.8 | 194.3 | 193.6 | 192.6 | 191.9 |
| 47.5° | 207.0 | 205.1 | 203.4 | 201.6 | 199.9 | 198.7 | 197.2 | 195.8 | 194.5 | 193.8 | 192.9 |
| 50°   | 209.4 | 207.5 | 206.5 | 204.6 | 203.6 | 201.9 | 200.2 | 199.4 | 198.2 | 197.5 | 197.2 |
| 52.5° | 239.2 | 238.0 | 238.3 | 233.4 | 232.4 | 234.8 | 230.9 | 234.3 | 233.4 | 230.5 | 230.5 |
| 55°   | 330.5 | 330.0 | 332.2 | 326.1 | 323.4 | 328.3 | 330.3 | 323.2 | 324.9 | 324.9 | 324.4 |
| 57.5° | 436.9 | 433.8 | 430.6 | 431.3 | 427.4 | 430.4 | 426.7 | 422.3 | 424.0 | 422.6 | 417.4 |
| 60°   | 500.4 | 498.5 | 493.8 | 489.5 | 485.3 | 481.4 | 478.0 | 474.1 | 472.1 | 468.7 | 465.1 |
| 62.5° | 526.1 | 520.9 | 515.3 | 509.5 | 502.9 | 496.5 | 492.6 | 487.5 | 482.1 | 478.7 | 474.8 |
| 65°   | 512.4 | 504.8 | 498.7 | 490.2 | 483.1 | 475.3 | 470.2 | 464.3 | 459.4 | 453.6 | 448.7 |
| 67.5° | 451.4 | 442.6 | 426.5 | 418.7 | 408.2 | 396.0 | 392.5 | 385.5 | 382.8 | 374.0 | 359.6 |
| 70°   | 307.3 | 298.5 | 288.8 | 272.9 | 262.7 | 252.2 | 240.7 | 232.4 | 231.2 | 224.1 | 213.6 |
| 72.5° | 180.7 | 174.5 | 168.2 | 159.2 | 151.6 | 147.4 | 139.4 | 131.1 | 130.8 | 122.8 | 118.6 |
| 75°   | 85.4  | 82.3  | 75.9  | 73.7  | 66.9  | 66.4  | 61.3  | 60.3  | 61.3  | 58.8  | 58.3  |
| 77.5° | 29.0  | 28.3  | 26.8  | 24.9  | 23.4  | 23.0  | 21.7  | 21.0  | 20.5  | 20.0  | 19.5  |
| 80°   | 15.9  | 15.4  | 15.1  | 14.4  | 13.9  | 13.7  | 13.0  | 12.7  | 12.5  | 12.2  | 11.9  |
| 82.5° | 9.5   | 9.8   | 9.3   | 8.8   | 8.8   | 8.3   | 8.1   | 7.8   | 7.6   | 7.6   | 7.6   |
| 85°   | 3.9   | 4.1   | 3.9   | 3.7   | 3.4   | 3.7   | 3.7   | 3.4   | 3.2   | 3.4   | 3.4   |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 87°   | 88°   | 89°   | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 | 275.6 |
| 2.5°  | 275.1 | 274.9 | 274.9 | 274.6 | 274.4 | 274.9 | 275.4 | 276.1 | 275.6 | 276.1 | 276.3 |
| 5°    | 271.2 | 271.2 | 271.2 | 271.4 | 271.2 | 271.9 | 272.9 | 274.4 | 274.6 | 275.6 | 276.3 |
| 7.5°  | 264.9 | 264.9 | 265.1 | 265.4 | 265.1 | 266.1 | 267.8 | 269.5 | 270.7 | 272.4 | 273.9 |
| 10°   | 257.6 | 257.6 | 257.6 | 257.6 | 257.8 | 259.0 | 260.2 | 262.2 | 264.1 | 266.8 | 269.0 |
| 12.5° | 250.9 | 250.2 | 250.5 | 250.9 | 250.5 | 250.5 | 251.7 | 253.1 | 254.4 | 257.8 | 261.7 |
| 15°   | 242.2 | 242.2 | 241.7 | 241.9 | 240.7 | 240.5 | 240.9 | 241.9 | 242.9 | 245.8 | 250.0 |
| 17.5° | 232.9 | 232.9 | 232.9 | 232.1 | 231.2 | 228.7 | 228.5 | 228.5 | 228.5 | 230.7 | 235.6 |
| 20°   | 224.6 | 224.6 | 224.1 | 223.6 | 221.4 | 217.3 | 213.8 | 212.4 | 211.9 | 215.6 | 217.8 |
| 22.5° | 218.7 | 218.5 | 217.5 | 217.0 | 213.6 | 207.0 | 201.6 | 197.5 | 196.3 | 197.5 | 198.2 |
| 25°   | 214.1 | 213.6 | 212.6 | 211.6 | 207.0 | 198.0 | 189.4 | 182.3 | 178.9 | 178.0 | 175.5 |
| 27.5° | 211.4 | 210.7 | 209.2 | 208.2 | 202.1 | 190.7 | 179.4 | 170.1 | 163.8 | 159.2 | 154.8 |
| 30°   | 208.5 | 207.2 | 205.8 | 204.3 | 197.5 | 184.8 | 171.9 | 160.4 | 149.2 | 141.1 | 134.7 |
| 32.5° | 205.1 | 203.8 | 202.4 | 200.9 | 193.4 | 179.4 | 165.8 | 151.6 | 136.0 | 125.0 | 115.5 |
| 35°   | 200.9 | 199.7 | 198.2 | 196.5 | 188.9 | 175.0 | 161.6 | 143.0 | 124.3 | 110.1 | 97.6  |
| 37.5° | 196.8 | 195.5 | 194.1 | 192.3 | 184.8 | 172.8 | 159.2 | 135.0 | 113.5 | 96.2  | 79.8  |
| 40°   | 193.6 | 192.3 | 190.9 | 189.4 | 182.6 | 171.9 | 157.9 | 128.1 | 104.0 | 82.5  | 63.7  |
| 42.5° | 190.9 | 189.7 | 188.5 | 187.0 | 181.1 | 172.3 | 155.2 | 122.3 | 94.7  | 68.8  | 50.1  |
| 45°   | 190.7 | 189.9 | 188.5 | 187.2 | 181.6 | 174.5 | 153.1 | 117.2 | 85.2  | 55.7  | 42.2  |
| 47.5° | 192.3 | 191.4 | 190.4 | 189.4 | 185.0 | 180.1 | 151.6 | 111.8 | 74.5  | 44.9  | 40.3  |
| 50°   | 196.5 | 195.5 | 195.0 | 194.5 | 191.9 | 187.7 | 151.6 | 106.2 | 62.0  | 39.5  | 40.0  |
| 52.5° | 230.0 | 227.3 | 226.5 | 228.5 | 221.2 | 200.4 | 152.6 | 99.4  | 48.6  | 37.8  | 40.3  |
| 55°   | 323.4 | 326.1 | 319.3 | 315.9 | 303.2 | 231.9 | 153.3 | 89.1  | 39.5  | 37.6  | 39.8  |
| 57.5° | 417.9 | 417.9 | 415.5 | 410.1 | 394.5 | 285.6 | 156.7 | 72.7  | 36.1  | 37.1  | 39.3  |
| 60°   | 464.0 | 461.1 | 458.7 | 455.5 | 431.8 | 323.0 | 161.8 | 53.7  | 34.7  | 36.9  | 38.8  |
| 62.5° | 472.4 | 467.7 | 464.5 | 460.4 | 428.9 | 324.9 | 164.1 | 40.3  | 33.2  | 36.9  | 37.6  |
| 65°   | 445.0 | 440.2 | 436.0 | 429.1 | 390.8 | 294.2 | 153.1 | 33.0  | 32.2  | 35.9  | 36.4  |
| 67.5° | 360.5 | 354.7 | 351.5 | 348.1 | 322.7 | 258.3 | 123.8 | 29.5  | 31.0  | 34.2  | 35.2  |
| 70°   | 206.3 | 199.9 | 196.3 | 197.0 | 181.6 | 204.3 | 98.9  | 27.1  | 29.3  | 32.2  | 33.7  |
| 72.5° | 111.1 | 104.3 | 102.0 | 95.0  | 81.0  | 103.0 | 76.1  | 24.9  | 27.1  | 29.3  | 30.8  |
| 75°   | 54.9  | 52.5  | 53.2  | 49.8  | 42.2  | 31.7  | 49.1  | 22.2  | 24.2  | 26.4  | 27.3  |
| 77.5° | 19.0  | 18.6  | 18.3  | 18.1  | 17.6  | 16.8  | 22.5  | 19.0  | 20.8  | 22.5  | 23.4  |
| 80°   | 11.7  | 11.5  | 11.7  | 11.5  | 11.2  | 13.0  | 14.4  | 15.1  | 16.6  | 18.8  | 19.0  |
| 82.5° | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 9.0   | 10.3  | 11.7  | 13.0  | 14.4  | 15.6  |
| 85°   | 3.4   | 3.4   | 3.4   | 3.4   | 3.7   | 6.1   | 6.8   | 8.5   | 9.0   | 10.3  | 11.2  |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7   | 1.0   | 3.2   | 4.1   | 5.1   | 5.4   | 5.4   | 6.1   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 275.6 | 275.6 | 275.6 |
| 2.5°  | 276.1 | 275.6 | 275.4 |
| 5°    | 276.8 | 276.3 | 276.1 |
| 7.5°  | 274.9 | 275.1 | 274.9 |
| 10°   | 270.7 | 271.4 | 271.7 |
| 12.5° | 264.1 | 265.6 | 266.6 |
| 15°   | 253.1 | 255.4 | 254.9 |
| 17.5° | 238.5 | 241.2 | 241.2 |
| 20°   | 220.2 | 221.4 | 220.7 |
| 22.5° | 197.7 | 198.2 | 197.5 |
| 25°   | 174.1 | 174.1 | 173.1 |
| 27.5° | 152.1 | 150.9 | 150.1 |
| 30°   | 131.1 | 127.9 | 126.9 |
| 32.5° | 108.9 | 103.5 | 103.5 |
| 35°   | 86.4  | 82.0  | 80.8  |
| 37.5° | 67.1  | 62.3  | 60.8  |
| 40°   | 51.5  | 47.9  | 47.6  |
| 42.5° | 43.4  | 42.7  | 43.0  |
| 45°   | 41.5  | 42.5  | 42.5  |
| 47.5° | 41.7  | 43.0  | 43.2  |
| 50°   | 42.0  | 43.2  | 43.4  |
| 52.5° | 42.0  | 42.7  | 42.7  |
| 55°   | 41.5  | 41.5  | 41.5  |
| 57.5° | 40.5  | 40.3  | 40.8  |
| 60°   | 39.8  | 39.8  | 39.8  |
| 62.5° | 38.6  | 38.6  | 38.6  |
| 65°   | 36.6  | 36.9  | 36.9  |
| 67.5° | 34.7  | 34.7  | 34.7  |
| 70°   | 32.2  | 32.2  | 32.7  |
| 72.5° | 29.8  | 30.8  | 31.2  |
| 75°   | 28.1  | 29.8  | 30.5  |
| 77.5° | 24.7  | 26.4  | 27.3  |
| 80°   | 20.3  | 20.5  | 20.5  |
| 82.5° | 16.1  | 15.6  | 14.9  |
| 85°   | 11.5  | 10.7  | 10.7  |
| 87.5° | 6.1   | 5.9   | 6.1   |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)