

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: P387192

Luminaire Tested: **TT-D1-750-U-5MQ-PM**

Issue Date: 2/18/2020

Test Information

Test Method: LM-79-08
Report Number: P387192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/18/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D1-750-U-5MQ-PM
Description: TOPTIER LED SITE LUMINAIRE
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G2

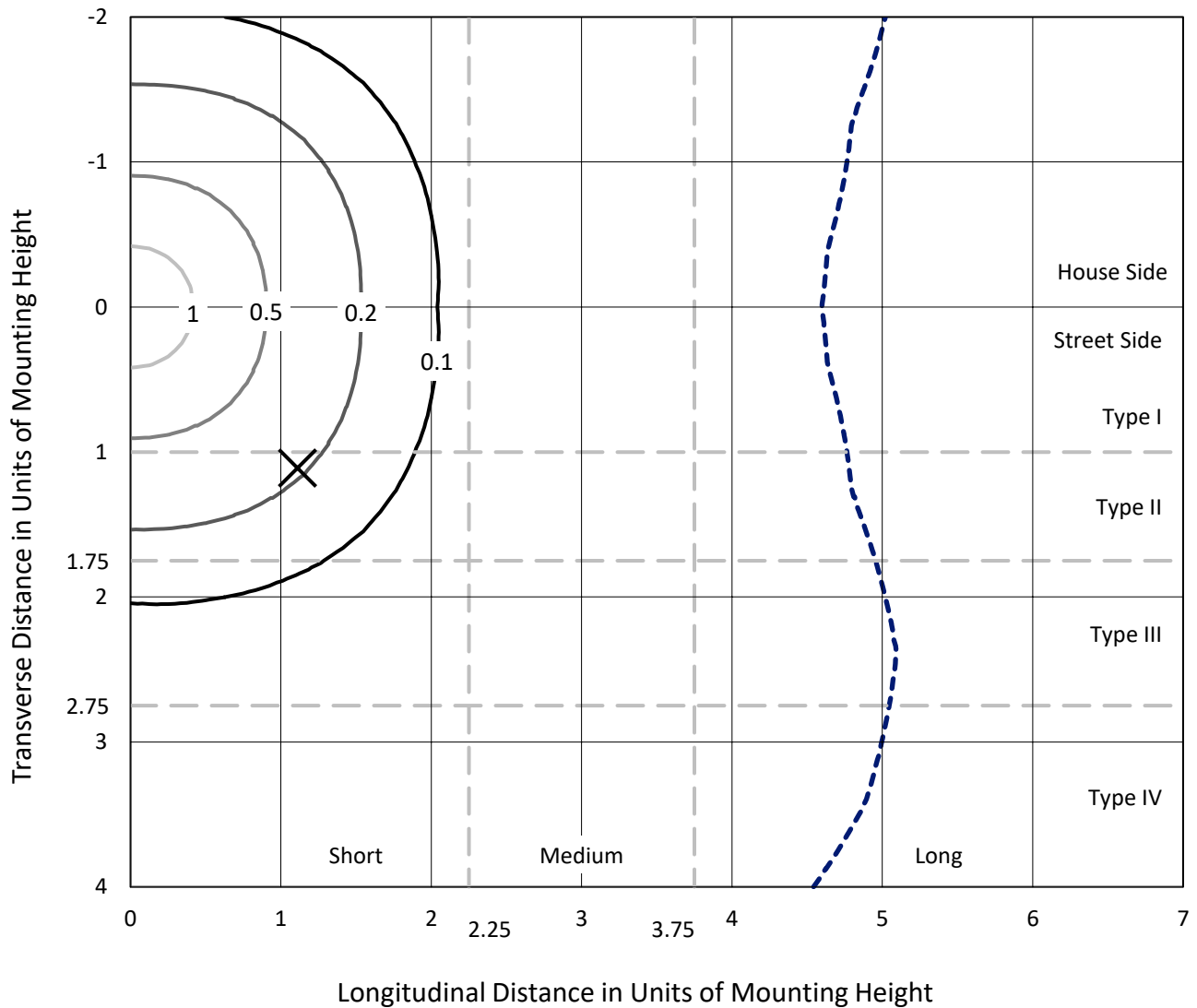
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

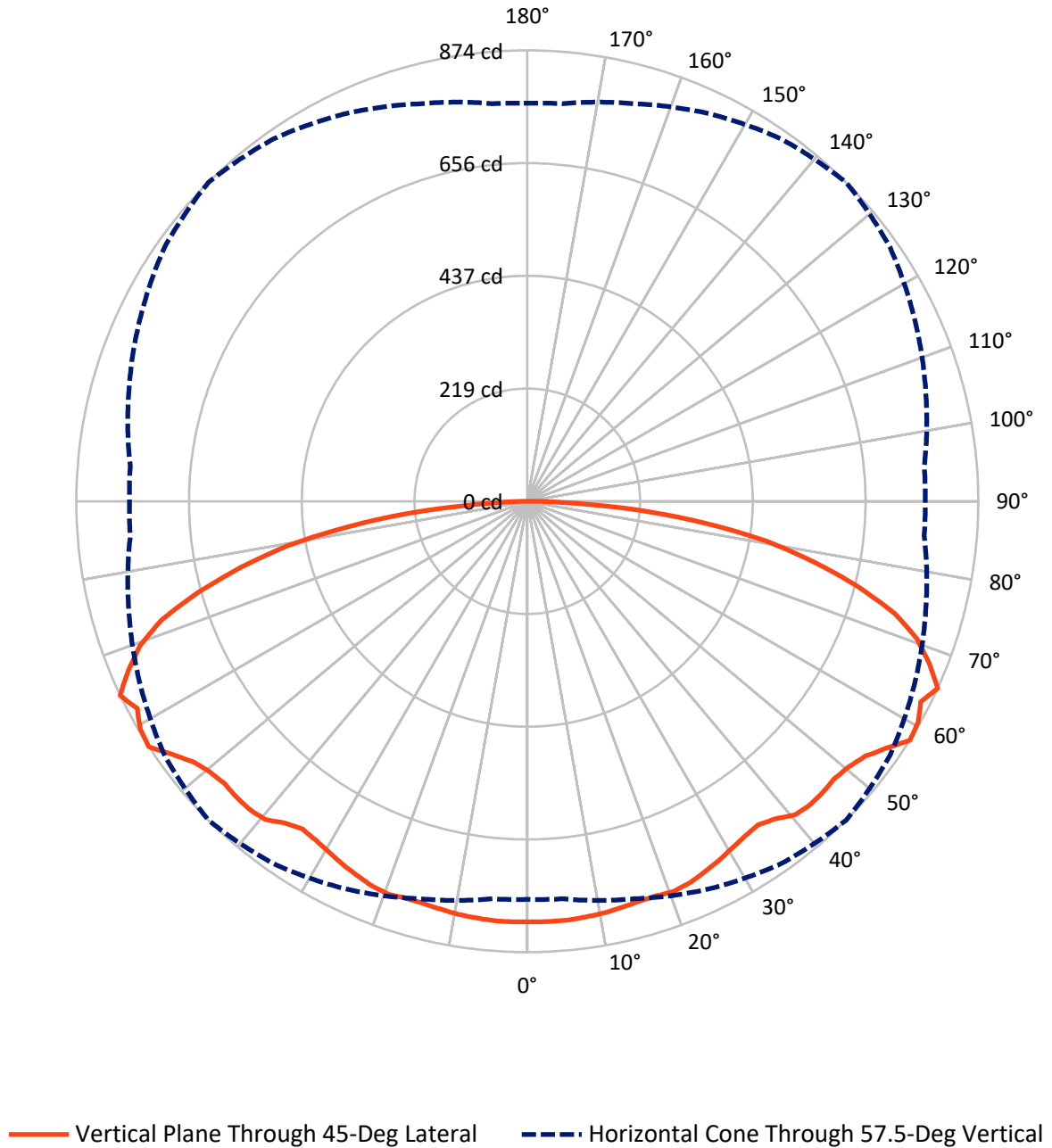
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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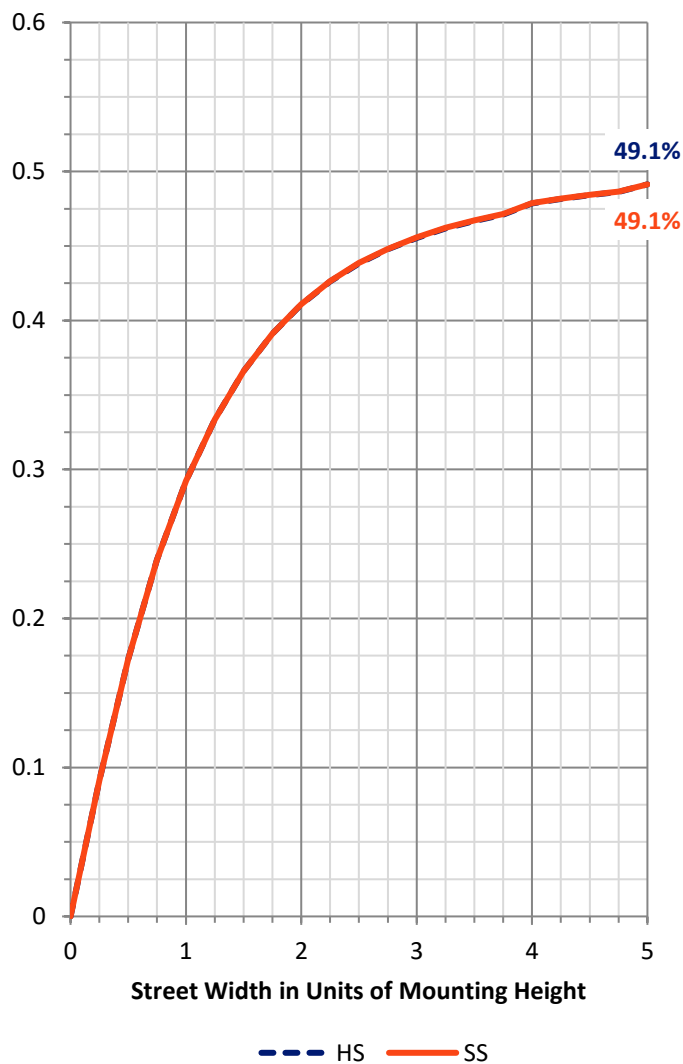
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2048.0 | 0.0 | 2048.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2048.0 | 0.0 | 2048.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4096.0 | 0.0 | 4096.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.7 | 1.9 |
| 10°-20° | 228.6 | 5.6 |
| 20°-30° | 367.4 | 9.0 |
| 30°-40° | 485.0 | 11.8 |
| 40°-50° | 606.8 | 14.8 |
| 50°-60° | 721.8 | 17.6 |
| 60°-70° | 782.9 | 19.1 |
| 70°-80° | 623.1 | 15.2 |
| 80°-90° | 202.6 | 4.9 |
| 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° | 4096.0 | 100.0 |
| 0°-180° | 4096.0 | 100.0 |

Coefficient of Utilization



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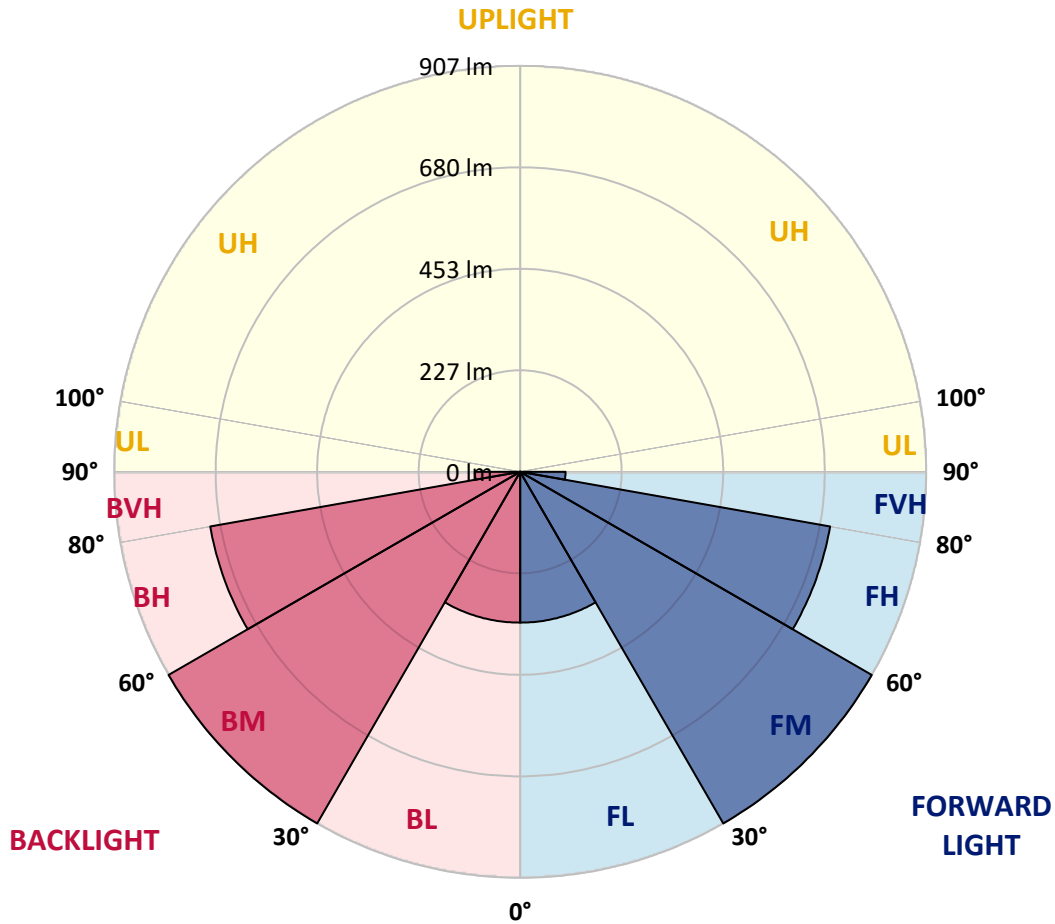
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 336.9 | 8.2 | | | |
| FM (30°-60°) | 906.8 | 22.1 | | | |
| FH (60°-80°) | 703.0 | 17.2 | | | G1/1800 |
| FVH (80°-90°) | 101.3 | 2.5 | | | G2/225 |
| BL (0°-30°) | 336.9 | 8.2 | B1/500 | | |
| BM (30°-60°) | 906.8 | 22.1 | B1/1000 | | |
| BH (60°-80°) | 703.0 | 17.2 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 101.3 | 2.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 |
| 2.5° | 817.0 | 816.4 | 817.0 | 816.4 | 816.4 | 815.8 | 816.4 | 816.4 | 816.4 | 816.4 | 816.4 |
| 5° | 816.4 | 815.8 | 815.8 | 816.4 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 | 815.8 |
| 7.5° | 814.0 | 814.0 | 814.6 | 814.0 | 814.0 | 814.0 | 814.0 | 814.0 | 814.0 | 814.6 | 814.6 |
| 10° | 812.1 | 811.5 | 812.1 | 812.1 | 811.5 | 812.1 | 811.5 | 812.1 | 812.1 | 812.1 | 812.1 |
| 12.5° | 809.7 | 809.1 | 809.7 | 809.7 | 809.1 | 808.5 | 809.1 | 809.1 | 809.7 | 809.7 | 809.7 |
| 15° | 805.4 | 805.4 | 806.7 | 806.0 | 806.0 | 805.4 | 806.7 | 806.0 | 805.4 | 806.0 | 806.0 |
| 17.5° | 802.4 | 802.4 | 803.6 | 804.8 | 804.8 | 804.8 | 804.8 | 804.2 | 803.0 | 803.6 | 802.4 |
| 20° | 803.0 | 803.6 | 804.2 | 806.0 | 807.3 | 807.9 | 807.9 | 806.0 | 804.2 | 804.8 | 804.2 |
| 22.5° | 801.2 | 800.6 | 801.2 | 802.4 | 804.2 | 804.2 | 804.2 | 801.8 | 801.2 | 800.6 | 800.6 |
| 25° | 793.9 | 793.9 | 795.1 | 796.3 | 797.5 | 796.9 | 797.5 | 796.3 | 795.1 | 793.9 | 793.9 |
| 27.5° | 785.3 | 785.3 | 787.2 | 788.4 | 789.6 | 789.6 | 789.0 | 787.8 | 787.2 | 785.9 | 785.3 |
| 30° | 776.8 | 776.8 | 778.6 | 779.9 | 781.7 | 781.1 | 781.1 | 779.2 | 777.4 | 776.2 | 776.2 |
| 32.5° | 767.7 | 767.1 | 768.9 | 771.9 | 774.4 | 774.4 | 774.4 | 770.7 | 768.3 | 767.1 | 766.4 |
| 35° | 759.7 | 759.7 | 762.2 | 767.7 | 770.7 | 770.7 | 769.5 | 767.1 | 761.6 | 759.7 | 759.7 |
| 37.5° | 757.3 | 759.1 | 765.8 | 773.8 | 779.9 | 781.1 | 779.2 | 772.5 | 765.2 | 759.7 | 757.9 |
| 40° | 765.2 | 767.1 | 775.6 | 788.4 | 797.5 | 799.3 | 797.5 | 787.8 | 775.0 | 766.4 | 765.8 |
| 42.5° | 766.4 | 767.7 | 778.0 | 792.6 | 801.2 | 804.2 | 801.2 | 791.4 | 777.4 | 767.1 | 766.4 |
| 45° | 762.2 | 762.8 | 775.0 | 790.2 | 800.6 | 804.2 | 800.6 | 789.0 | 774.4 | 762.8 | 762.2 |
| 47.5° | 756.7 | 757.9 | 771.3 | 787.2 | 800.0 | 802.4 | 799.3 | 786.6 | 770.1 | 758.5 | 756.7 |
| 50° | 752.4 | 756.1 | 768.3 | 785.9 | 801.2 | 808.5 | 801.2 | 784.1 | 767.7 | 754.9 | 752.4 |
| 52.5° | 754.9 | 756.1 | 771.9 | 796.9 | 817.6 | 820.7 | 817.0 | 796.9 | 770.7 | 756.1 | 754.3 |
| 55° | 762.2 | 767.7 | 784.7 | 820.7 | 839.6 | 845.0 | 837.1 | 819.5 | 785.3 | 767.7 | 762.2 |
| 57.5° | 771.9 | 773.8 | 798.1 | 829.8 | 857.8 | 874.3 | 858.4 | 829.2 | 800.0 | 772.5 | 771.3 |
| 60° | 764.0 | 758.5 | 789.0 | 826.2 | 863.9 | 870.6 | 861.5 | 826.8 | 787.8 | 757.9 | 763.4 |
| 62.5° | 742.7 | 746.3 | 771.3 | 822.5 | 848.7 | 856.0 | 846.3 | 822.5 | 770.1 | 749.4 | 740.9 |
| 65° | 725.6 | 747.6 | 775.0 | 811.5 | 853.6 | 874.3 | 854.2 | 810.3 | 776.2 | 743.9 | 723.8 |
| 67.5° | 701.9 | 706.1 | 747.0 | 792.0 | 829.8 | 840.2 | 829.2 | 792.6 | 743.3 | 703.1 | 706.1 |
| 70° | 661.7 | 655.6 | 697.0 | 749.4 | 785.3 | 801.8 | 786.6 | 747.0 | 695.2 | 654.3 | 659.8 |
| 72.5° | 595.2 | 598.9 | 637.3 | 692.7 | 729.9 | 745.7 | 730.5 | 688.5 | 636.1 | 602.6 | 598.9 |
| 75° | 525.8 | 530.1 | 567.2 | 617.8 | 655.6 | 662.3 | 658.0 | 614.7 | 568.4 | 529.4 | 525.8 |
| 77.5° | 446.6 | 450.9 | 481.3 | 536.8 | 559.3 | 569.7 | 560.5 | 539.8 | 480.1 | 450.2 | 445.4 |
| 80° | 358.9 | 357.6 | 384.4 | 432.0 | 460.0 | 471.6 | 460.0 | 433.2 | 383.2 | 360.1 | 352.2 |
| 82.5° | 256.5 | 257.7 | 282.7 | 315.6 | 342.4 | 346.1 | 340.6 | 318.6 | 280.3 | 260.8 | 249.8 |
| 85° | 142.6 | 148.0 | 166.3 | 190.7 | 208.4 | 214.5 | 205.3 | 184.6 | 165.7 | 150.5 | 145.6 |
| 87.5° | 34.1 | 37.2 | 43.3 | 54.8 | 61.5 | 67.6 | 61.5 | 57.3 | 40.8 | 37.2 | 34.1 |
| 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)