

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: LUMARK

Report Number: P295396

Luminaire Tested: **TCRL15S(7030)-VISOR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-222-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: TCRL15S(7030)-VISOR  
Description: TRACER LARGE, VISOR NEMA 3x3  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1399.9 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B2 - U0 - G0

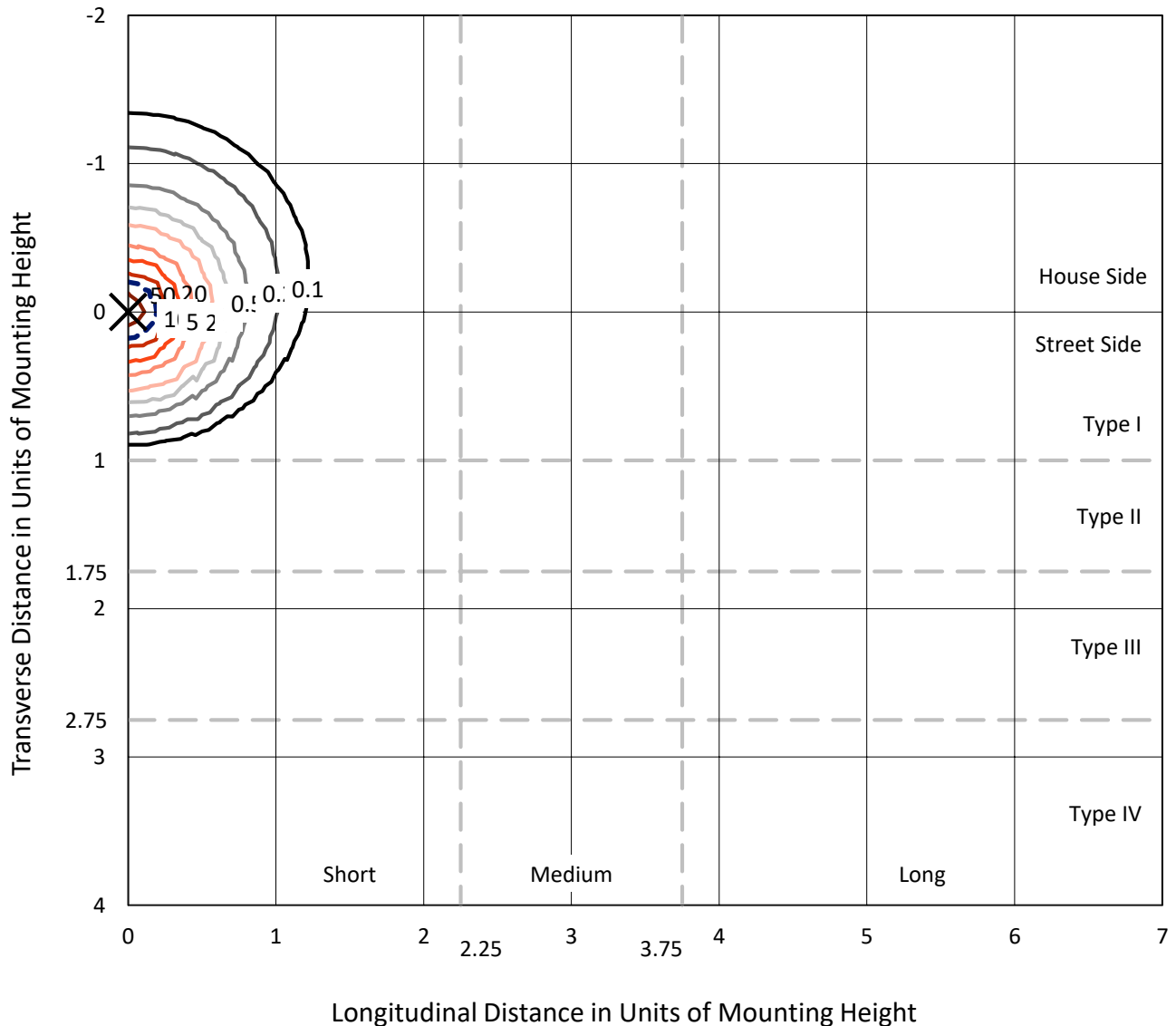
Input Watts (W): 12  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

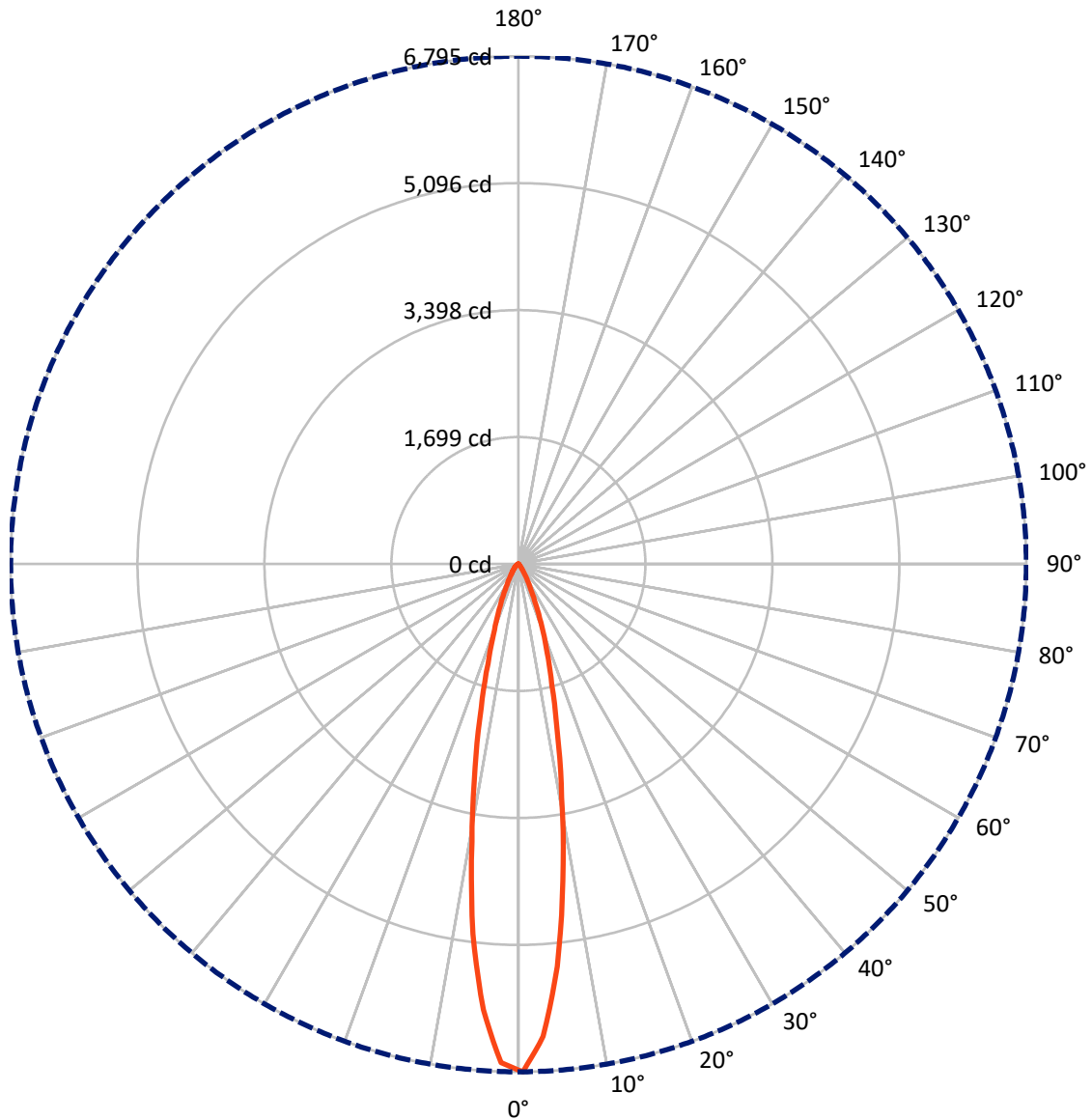
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 68 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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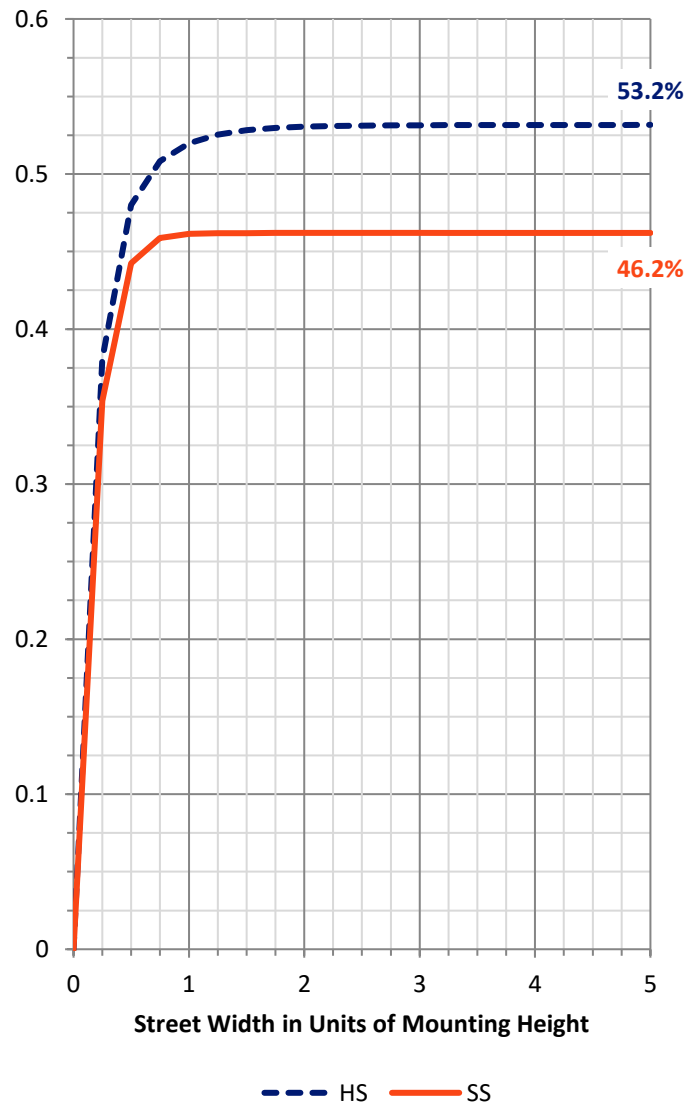
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 755.0    | 0.0    | 755.0  |
|                    | % Fixture | 53.9     | 0.0    | 53.9   |
| <b>Street Side</b> | Lumens    | 644.9    | 0.0    | 644.9  |
|                    | % Fixture | 46.1     | 0.0    | 46.1   |
| <b>Total</b>       | Lumens    | 1399.9   | 0.0    | 1399.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 478.2  | 34.2      |
| 10°-20°   | 524.8  | 37.5      |
| 20°-30°   | 236.9  | 16.9      |
| 30°-40°   | 92.2   | 6.6       |
| 40°-50°   | 40.9   | 2.9       |
| 50°-60°   | 19.5   | 1.4       |
| 60°-70°   | 6.2    | 0.4       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 0.4    | 0.0       |
| 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°    | 1399.9 | 100.0     |
| 0°-180°   | 1399.9 | 100.0     |



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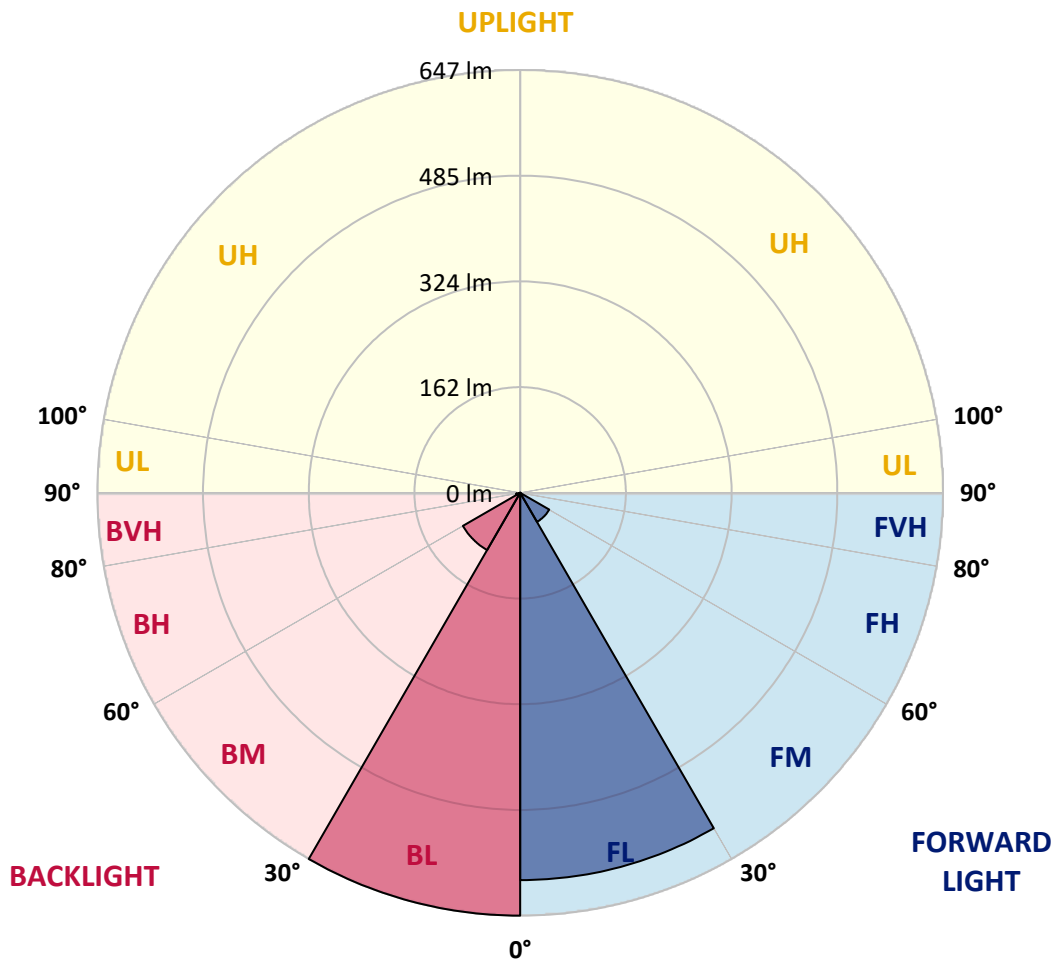
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 592.7  | 42.3      |                         |      |        |
| FM   | (30°-60°)   | 51.4   | 3.7       |                         |      |        |
| FH   | (60°-80°)   | 0.8    | 0.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 0.0    | 0.0       |                         |      | G0/10  |
| BL   | (0°-30°)    | 647.1  | 46.2      | B2/1000                 |      |        |
| BM   | (30°-60°)   | 101.2  | 7.2       | B0/220                  |      |        |
| BH   | (60°-80°)   | 6.3    | 0.5       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 0.4    | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6795.2 | 6795.2 | 6795.2 | 6795.2 | 6795.2 | 6795.2 | 6795.2 | 6795.2 | 6795.2 |
| 2.5°  | 6330.5 | 6407.8 | 6455.3 | 6498.2 | 6518.4 | 6606.4 | 6645.5 | 6653.0 | 6676.1 |
| 5°    | 5412.0 | 5550.4 | 5606.9 | 5623.9 | 5774.0 | 5885.2 | 5979.3 | 6035.3 | 5983.1 |
| 7.5°  | 4281.1 | 4380.4 | 4531.1 | 4648.8 | 4711.9 | 4811.2 | 4935.1 | 5001.4 | 4990.1 |
| 10°   | 3177.0 | 3259.0 | 3328.2 | 3393.6 | 3564.5 | 3613.0 | 3746.7 | 3838.1 | 3766.5 |
| 12.5° | 2305.6 | 2361.1 | 2399.7 | 2485.9 | 2590.9 | 2598.4 | 2702.9 | 2770.7 | 2780.6 |
| 15°   | 1672.8 | 1749.5 | 1724.6 | 1762.3 | 1813.6 | 1835.2 | 1916.7 | 1960.5 | 1983.5 |
| 17.5° | 1244.4 | 1255.2 | 1268.8 | 1265.1 | 1283.9 | 1310.7 | 1368.7 | 1369.6 | 1393.1 |
| 20°   | 892.2  | 921.4  | 912.4  | 937.9  | 948.2  | 954.3  | 1001.4 | 991.1  | 988.7  |
| 22.5° | 610.6  | 617.7  | 659.6  | 684.6  | 693.5  | 702.9  | 725.5  | 712.3  | 725.1  |
| 25°   | 412.9  | 425.6  | 447.3  | 482.1  | 507.5  | 517.9  | 520.2  | 529.2  | 547.1  |
| 27.5° | 287.2  | 290.0  | 307.9  | 345.6  | 371.0  | 382.3  | 387.5  | 391.2  | 392.2  |
| 30°   | 193.0  | 197.3  | 215.6  | 237.3  | 273.5  | 284.8  | 293.3  | 299.0  | 291.9  |
| 32.5° | 120.1  | 132.8  | 150.2  | 171.4  | 197.7  | 217.0  | 224.6  | 223.2  | 229.3  |
| 35°   | 87.6   | 88.0   | 108.8  | 129.9  | 146.9  | 169.5  | 171.4  | 172.8  | 172.3  |
| 37.5° | 52.3   | 56.5   | 74.9   | 93.7   | 113.5  | 132.8  | 138.4  | 139.4  | 139.4  |
| 40°   | 31.5   | 37.2   | 49.4   | 70.2   | 89.9   | 104.0  | 112.5  | 115.8  | 116.3  |
| 42.5° | 20.2   | 23.5   | 37.2   | 53.7   | 72.0   | 84.7   | 93.2   | 95.6   | 95.1   |
| 45°   | 11.8   | 13.2   | 24.0   | 40.0   | 58.4   | 69.2   | 76.7   | 79.6   | 79.6   |
| 47.5° | 4.7    | 6.6    | 15.1   | 29.7   | 47.1   | 58.9   | 65.9   | 67.8   | 68.7   |
| 50°   | 1.9    | 2.4    | 9.4    | 22.6   | 37.7   | 50.4   | 55.1   | 57.0   | 57.4   |
| 52.5° | 1.4    | 1.4    | 4.2    | 15.5   | 30.1   | 41.9   | 47.1   | 49.4   | 49.0   |
| 55°   | 1.4    | 1.4    | 2.4    | 10.8   | 22.1   | 33.4   | 39.5   | 41.4   | 40.5   |
| 57.5° | 1.4    | 1.4    | 1.9    | 6.6    | 16.9   | 25.9   | 30.1   | 32.5   | 33.0   |
| 60°   | 0.9    | 0.9    | 1.4    | 3.8    | 11.3   | 19.3   | 24.0   | 25.4   | 26.4   |
| 62.5° | 0.5    | 0.9    | 0.9    | 1.9    | 7.5    | 13.7   | 17.4   | 18.8   | 18.8   |
| 65°   | 0.0    | 0.5    | 0.9    | 1.4    | 4.2    | 8.5    | 11.8   | 12.7   | 13.2   |
| 67.5° | 0.0    | 0.0    | 0.5    | 0.9    | 1.9    | 5.2    | 6.6    | 7.5    | 8.0    |
| 70°   | 0.0    | 0.0    | 0.5    | 0.5    | 1.4    | 2.4    | 3.8    | 4.2    | 4.2    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.5    | 0.9    | 1.4    | 1.9    | 2.4    | 2.4    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.9    | 1.4    | 1.4    | 1.9    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.9    | 1.4    | 1.4    | 1.4    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.9    | 0.9    | 1.4    | 1.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.9    | 0.9    | 1.4    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.9    | 0.9    | 0.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.9    | 0.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)