

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: P295397

Luminaire Tested: **TCRL15S(7040-7050)-VISOR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295397
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(7040-7050)-VISOR
Description: TRACER LARGE, VISOR NEMA 3x3
Light Source: (16) 4000K&5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1448.2 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Circular (Dia: 0.25' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G0

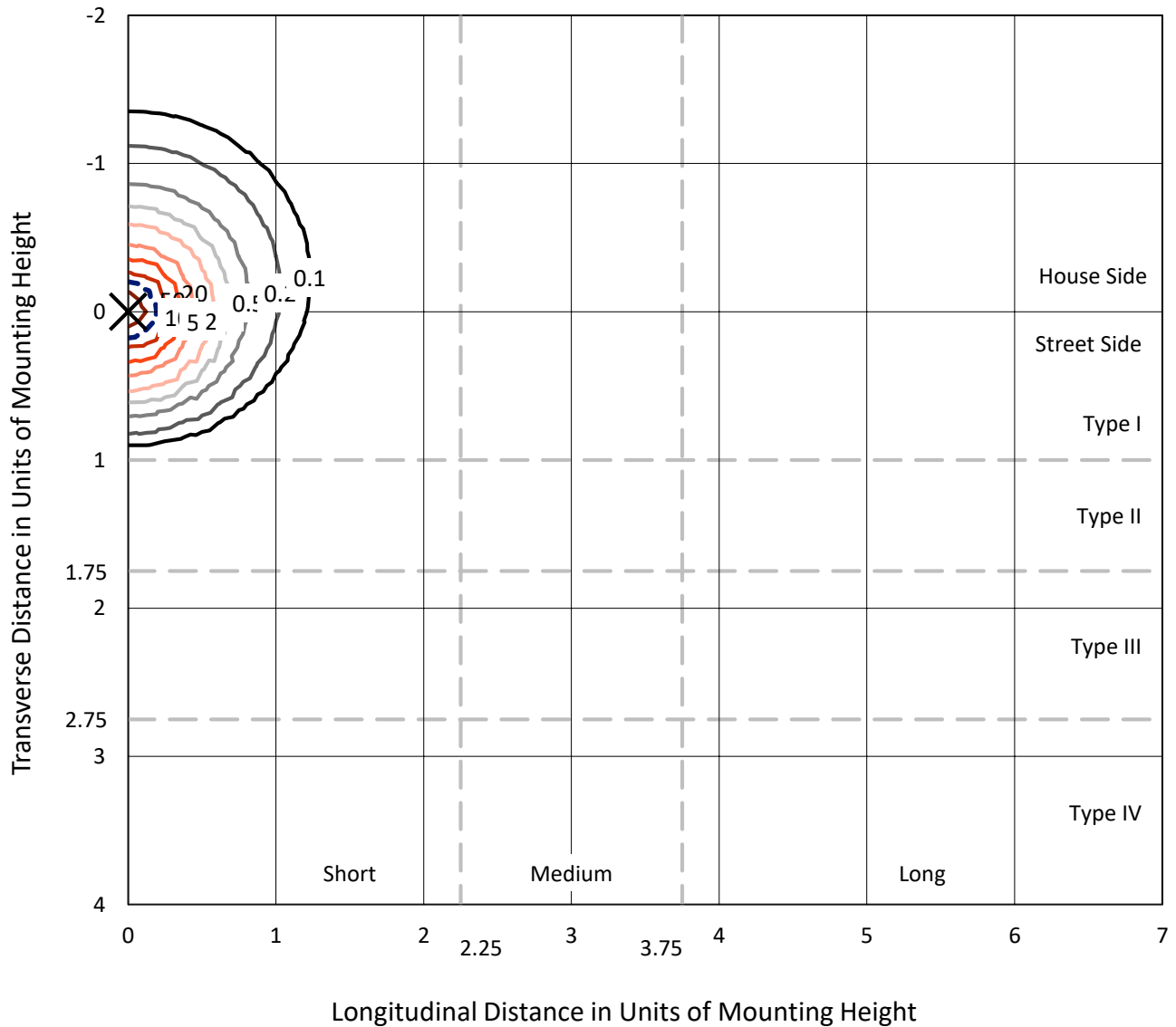
Input Watts (W): 12
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

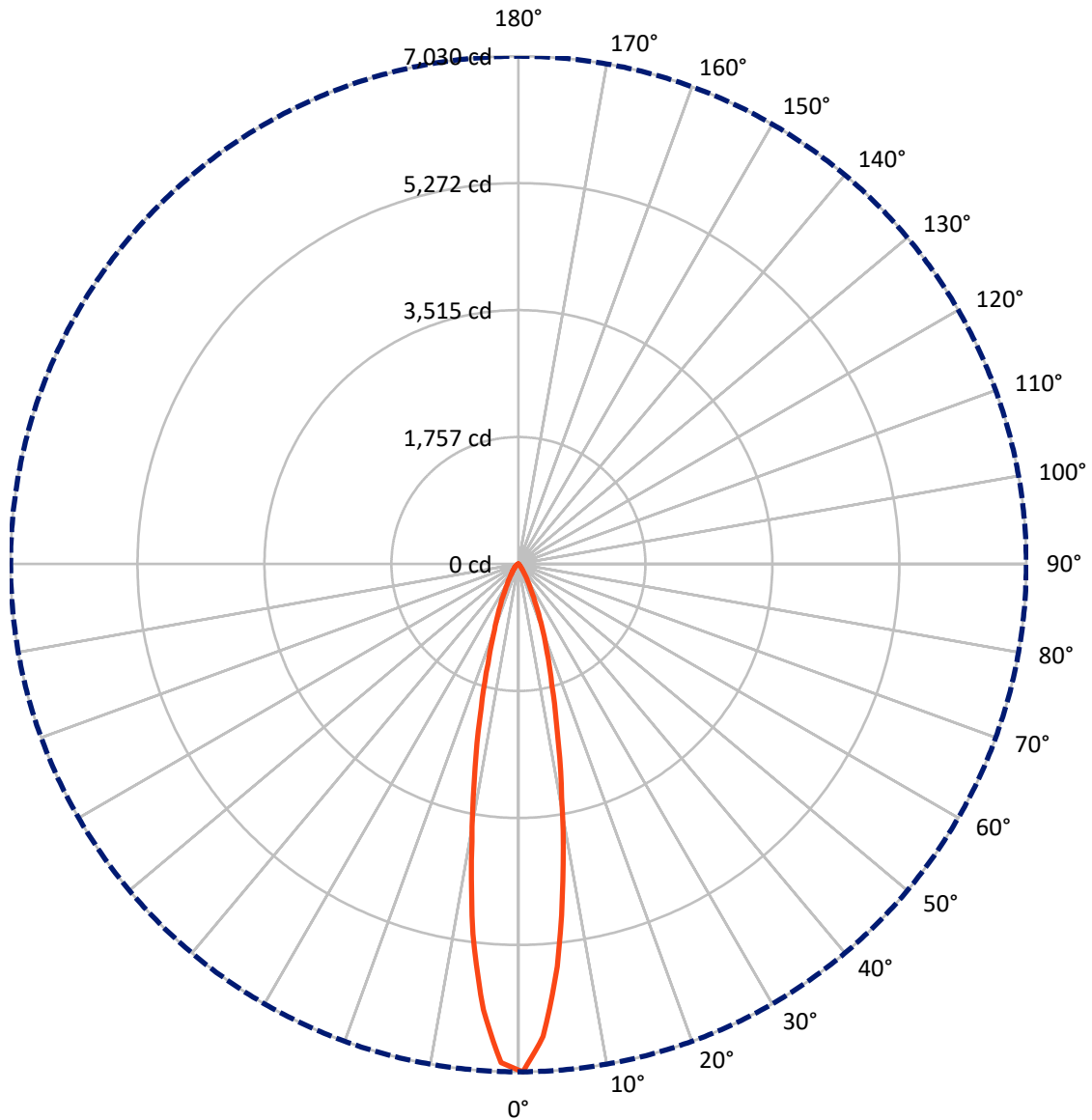
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 70.3 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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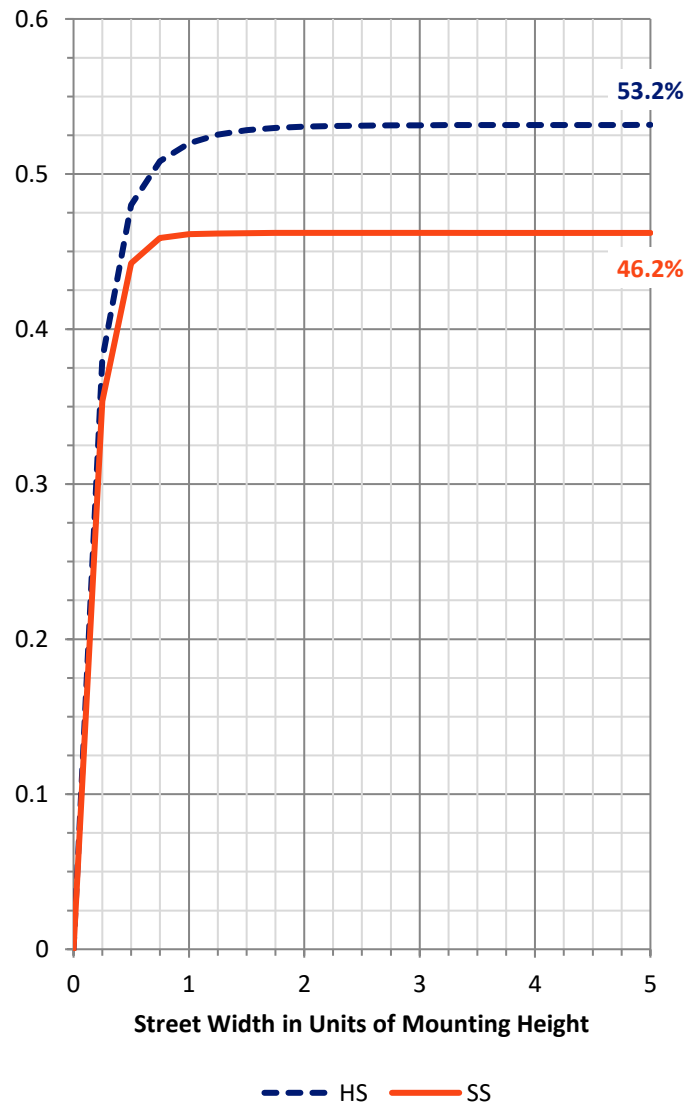
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 781.1 | 0.0 | 781.1 |
| | % Fixture | 53.9 | 0.0 | 53.9 |
| Street Side | Lumens | 667.1 | 0.0 | 667.1 |
| | % Fixture | 46.1 | 0.0 | 46.1 |
| Total | Lumens | 1448.2 | 0.0 | 1448.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 494.7 | 34.2 |
| 10°-20° | 542.9 | 37.5 |
| 20°-30° | 245.0 | 16.9 |
| 30°-40° | 95.4 | 6.6 |
| 40°-50° | 42.3 | 2.9 |
| 50°-60° | 20.2 | 1.4 |
| 60°-70° | 6.4 | 0.4 |
| 70°-80° | 1.0 | 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° | 1448.2 | 100.0 |
| 0°-180° | 1448.2 | 100.0 |



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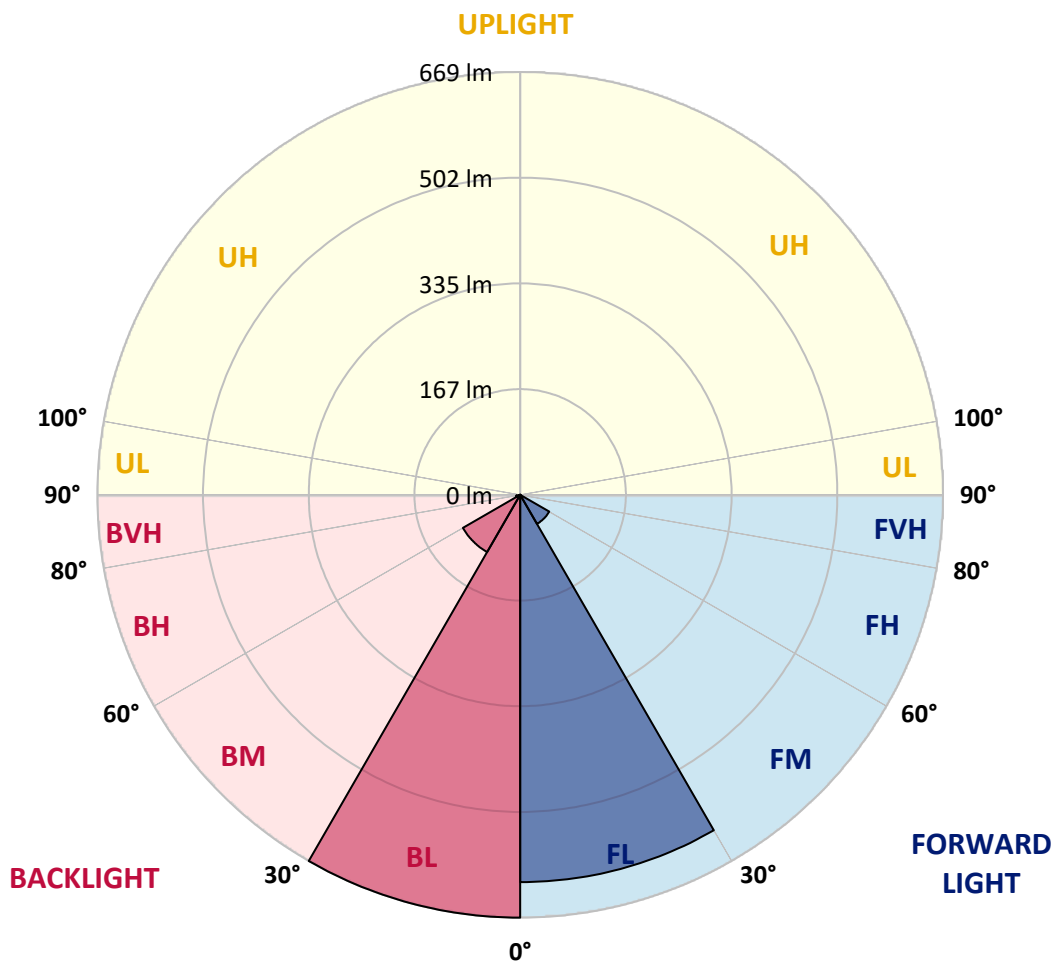
CATALOG NUMBER: TCRL15S(7040-7050)-VISOR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 613.2 | 42.3 | | | |
| FM | (30°-60°) | 53.1 | 3.7 | | | |
| FH | (60°-80°) | 0.8 | 0.1 | | | G0/660 |
| FVH | (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL | (0°-30°) | 669.4 | 46.2 | B2/1000 | | |
| BM | (30°-60°) | 104.7 | 7.2 | B0/220 | | |
| BH | (60°-80°) | 6.6 | 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° | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 | 7029.6 |
| 2.5° | 6548.8 | 6628.7 | 6677.9 | 6722.2 | 6743.2 | 6834.2 | 6874.7 | 6882.5 | 6906.3 |
| 5° | 5598.6 | 5741.8 | 5800.2 | 5817.8 | 5973.1 | 6088.1 | 6185.5 | 6243.5 | 6189.4 |
| 7.5° | 4428.7 | 4531.5 | 4687.3 | 4809.1 | 4874.4 | 4977.1 | 5105.2 | 5173.9 | 5162.2 |
| 10° | 3286.6 | 3371.3 | 3442.9 | 3510.6 | 3687.4 | 3737.6 | 3875.9 | 3970.4 | 3896.4 |
| 12.5° | 2385.1 | 2442.5 | 2482.5 | 2571.6 | 2680.2 | 2688.0 | 2796.1 | 2866.3 | 2876.5 |
| 15° | 1730.5 | 1809.9 | 1784.1 | 1823.0 | 1876.1 | 1898.5 | 1982.8 | 2028.1 | 2051.9 |
| 17.5° | 1287.3 | 1298.5 | 1312.6 | 1308.7 | 1328.2 | 1355.9 | 1415.8 | 1416.8 | 1441.2 |
| 20° | 923.0 | 953.2 | 943.9 | 970.2 | 980.9 | 987.2 | 1035.9 | 1025.2 | 1022.8 |
| 22.5° | 631.7 | 639.0 | 682.4 | 708.2 | 717.4 | 727.2 | 750.5 | 736.9 | 750.1 |
| 25° | 427.1 | 440.3 | 462.7 | 498.7 | 525.0 | 535.8 | 538.2 | 547.4 | 565.9 |
| 27.5° | 297.1 | 300.0 | 318.5 | 357.5 | 383.8 | 395.5 | 400.8 | 404.7 | 405.7 |
| 30° | 199.7 | 204.1 | 223.1 | 245.5 | 283.0 | 294.7 | 303.4 | 309.3 | 302.0 |
| 32.5° | 124.2 | 137.3 | 155.4 | 177.3 | 204.6 | 224.5 | 232.3 | 230.9 | 237.2 |
| 35° | 90.6 | 91.1 | 112.5 | 134.4 | 152.0 | 175.3 | 177.3 | 178.7 | 178.3 |
| 37.5° | 54.1 | 58.4 | 77.4 | 96.9 | 117.4 | 137.3 | 143.2 | 144.2 | 144.2 |
| 40° | 32.6 | 38.5 | 51.1 | 72.6 | 93.0 | 107.6 | 116.4 | 119.8 | 120.3 |
| 42.5° | 20.9 | 24.4 | 38.5 | 55.5 | 74.5 | 87.7 | 96.4 | 98.9 | 98.4 |
| 45° | 12.2 | 13.6 | 24.8 | 41.4 | 60.4 | 71.6 | 79.4 | 82.3 | 82.3 |
| 47.5° | 4.9 | 6.8 | 15.6 | 30.7 | 48.7 | 60.9 | 68.2 | 70.1 | 71.1 |
| 50° | 1.9 | 2.4 | 9.7 | 23.4 | 39.0 | 52.1 | 57.0 | 58.9 | 59.4 |
| 52.5° | 1.5 | 1.5 | 4.4 | 16.1 | 31.2 | 43.3 | 48.7 | 51.1 | 50.7 |
| 55° | 1.5 | 1.5 | 2.4 | 11.2 | 22.9 | 34.6 | 40.9 | 42.9 | 41.9 |
| 57.5° | 1.5 | 1.5 | 1.9 | 6.8 | 17.5 | 26.8 | 31.2 | 33.6 | 34.1 |
| 60° | 1.0 | 1.0 | 1.5 | 3.9 | 11.7 | 20.0 | 24.8 | 26.3 | 27.3 |
| 62.5° | 0.5 | 1.0 | 1.0 | 1.9 | 7.8 | 14.1 | 18.0 | 19.5 | 19.5 |
| 65° | 0.0 | 0.5 | 1.0 | 1.5 | 4.4 | 8.8 | 12.2 | 13.2 | 13.6 |
| 67.5° | 0.0 | 0.0 | 0.5 | 1.0 | 1.9 | 5.4 | 6.8 | 7.8 | 8.3 |
| 70° | 0.0 | 0.0 | 0.5 | 0.5 | 1.5 | 2.4 | 3.9 | 4.4 | 4.4 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.5 | 1.9 | 2.4 | 2.4 |
| 75° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.5 | 1.5 | 1.9 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.5 | 1.5 | 1.5 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 1.5 | 1.5 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.0 | 1.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.0 | 1.0 | 1.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)