

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: P527201

Luminaire Tested: **GALN-SA2B-722-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-722-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

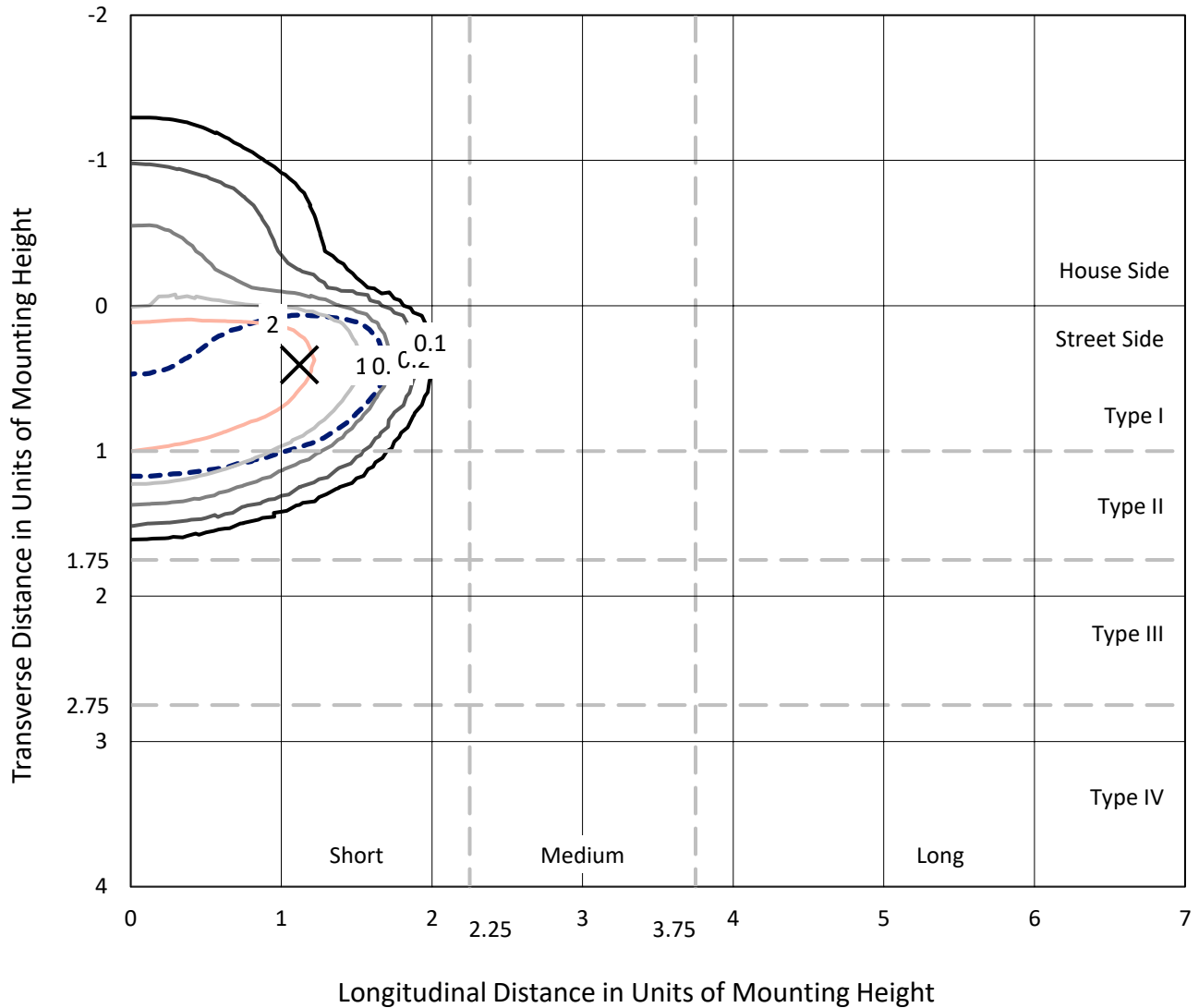
Lumens per Lamp: N/A  
Luminaire Lumens: 5563 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

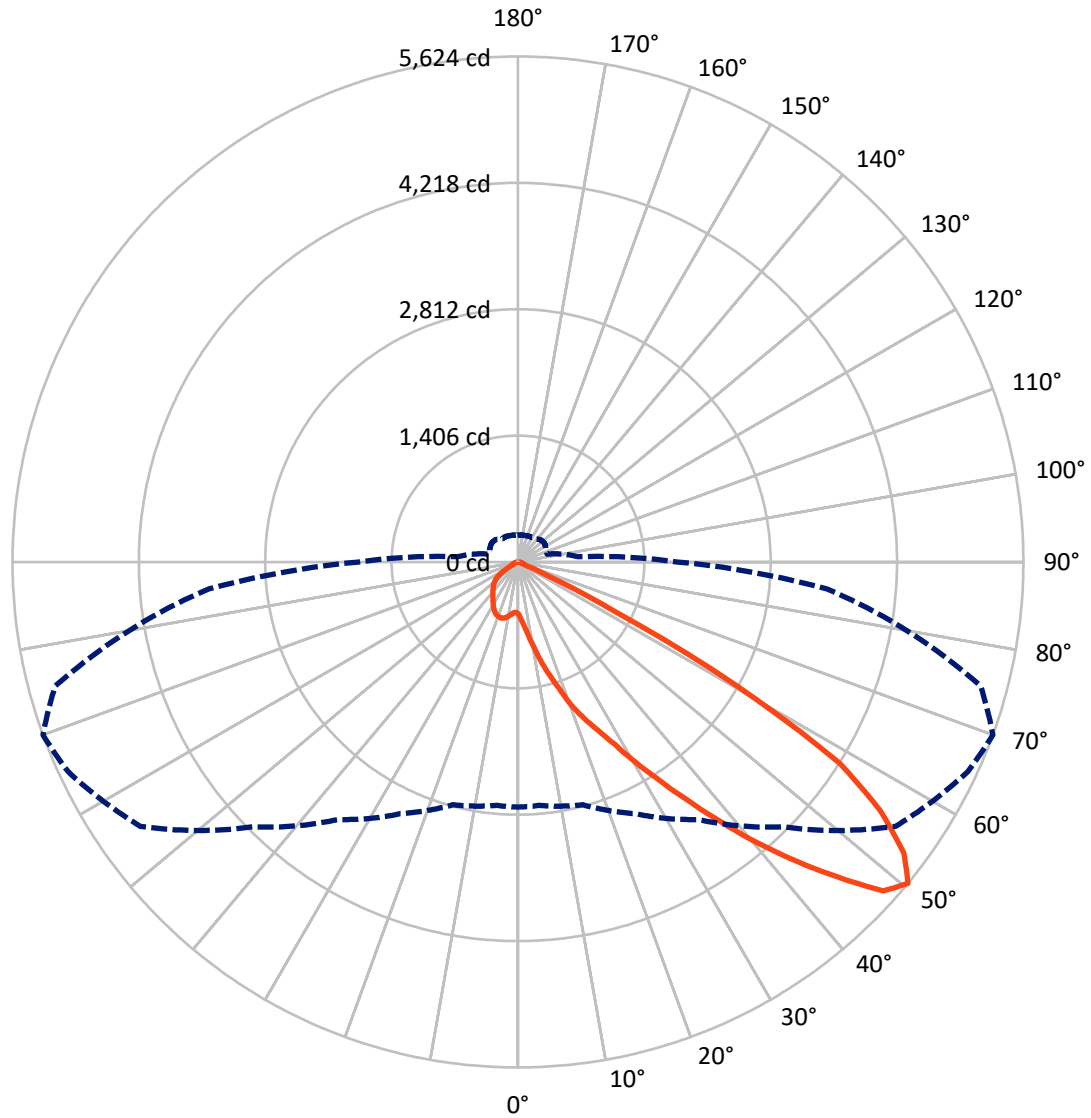
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 776.9    | 0.0    | 776.9  |
|                    | % Fixture | 14.0     | 0.0    | 14.0   |
| <b>Street Side</b> | Lumens    | 4786.1   | 0.0    | 4786.1 |
|                    | % Fixture | 86.0     | 0.0    | 86.0   |
| <b>Total</b>       | Lumens    | 5563.0   | 0.0    | 5563.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.9   | 1.3       |
| 10°-20°   | 324.1  | 5.8       |
| 20°-30°   | 679.9  | 12.2      |
| 30°-40°   | 1172.0 | 21.1      |
| 40°-50°   | 1712.9 | 30.8      |
| 50°-60°   | 1334.0 | 24.0      |
| 60°-70°   | 226.0  | 4.1       |
| 70°-80°   | 31.0   | 0.6       |
| 80°-90°   | 8.0    | 0.1       |
| 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°    | 5563.0 | 100.0     |
| 0°-180°   | 5563.0 | 100.0     |

**Coefficient of Utilization**



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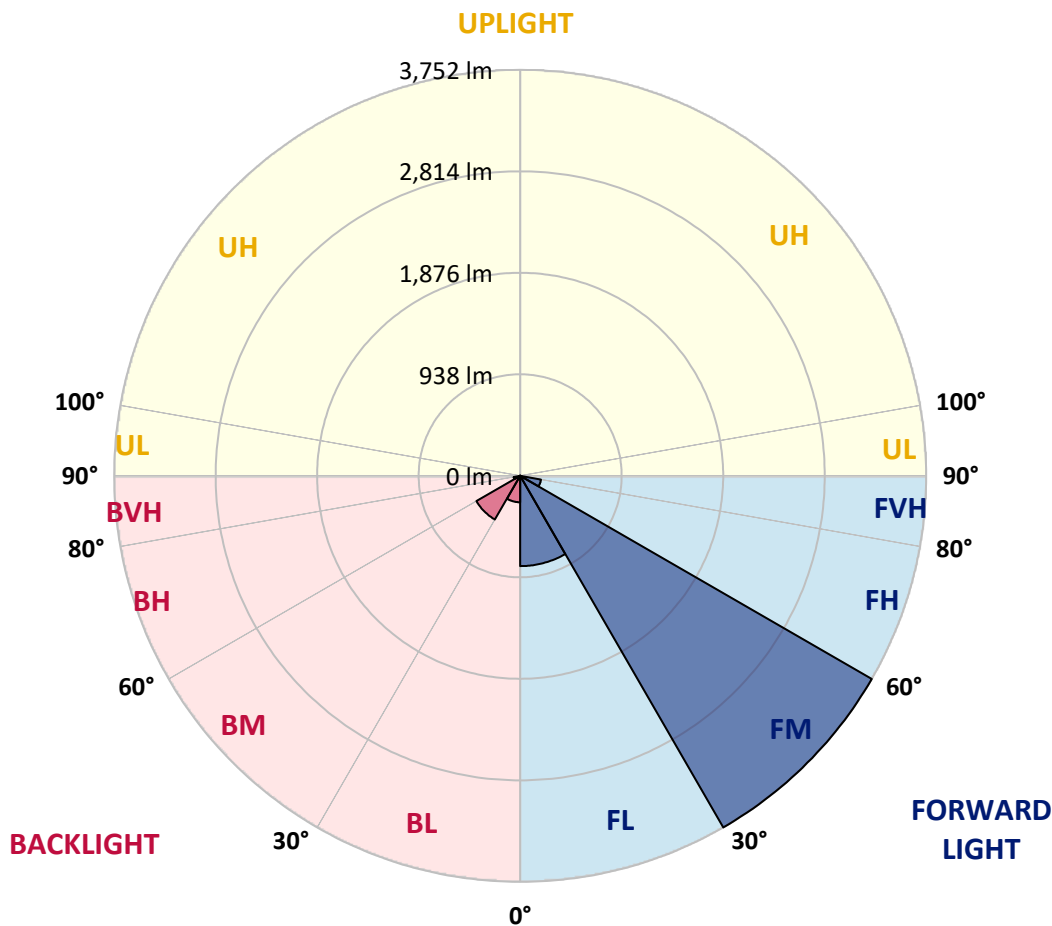
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 834.5  | 15.0      |                         |      |        |
| FM (30°-60°)   | 3752.1 | 67.4      |                         |      |        |
| FH (60°-80°)   | 195.7  | 3.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 3.7    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 244.5  | 4.4       | B1/500                  |      |        |
| BM (30°-60°)   | 466.7  | 8.4       | B1/1000                 |      |        |
| BH (60°-80°)   | 61.4   | 1.1       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 4.3    | 0.1       |                         |      | 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 I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 70°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 576.2  | 576.2  | 576.2  | 576.2  | 576.2  | 576.2  | 576.2  | 576.2  | 576.2  | 576.2  | 576.2  |
| 2.5°  | 754.6  | 749.1  | 737.2  | 715.2  | 706.1  | 684.1  | 671.3  | 646.6  | 631.1  | 613.7  | 594.5  |
| 5°    | 1062.8 | 1034.4 | 1017.1 | 992.4  | 920.1  | 875.3  | 801.2  | 738.1  | 708.8  | 676.8  | 632.9  |
| 7.5°  | 1381.1 | 1362.8 | 1339.0 | 1286.0 | 1236.6 | 1143.3 | 1016.2 | 877.1  | 817.7  | 762.8  | 675.9  |
| 10°   | 1644.5 | 1593.3 | 1590.5 | 1551.2 | 1497.3 | 1385.7 | 1232.9 | 1060.1 | 954.0  | 873.5  | 737.2  |
| 12.5° | 1828.3 | 1781.7 | 1802.7 | 1798.2 | 1747.9 | 1645.4 | 1468.9 | 1240.2 | 1129.6 | 1004.3 | 800.3  |
| 15°   | 1995.7 | 1976.5 | 1970.1 | 1964.6 | 1944.5 | 1868.6 | 1710.4 | 1459.8 | 1299.7 | 1148.8 | 871.6  |
| 17.5° | 2159.4 | 2110.1 | 2133.8 | 2138.4 | 2136.6 | 2068.0 | 1919.8 | 1668.3 | 1479.9 | 1301.5 | 946.6  |
| 20°   | 2304.9 | 2309.4 | 2277.4 | 2271.0 | 2265.5 | 2262.8 | 2118.3 | 1875.0 | 1701.2 | 1461.6 | 1044.5 |
| 22.5° | 2491.5 | 2459.4 | 2487.8 | 2469.5 | 2433.8 | 2411.9 | 2301.2 | 2057.9 | 1893.3 | 1654.6 | 1144.2 |
| 25°   | 2711.9 | 2737.5 | 2670.7 | 2663.4 | 2624.1 | 2548.2 | 2448.5 | 2262.8 | 2078.0 | 1833.8 | 1252.1 |
| 27.5° | 2983.5 | 2938.7 | 2921.3 | 2881.1 | 2809.7 | 2777.7 | 2660.7 | 2474.1 | 2301.2 | 2022.2 | 1356.4 |
| 30°   | 3216.8 | 3204.9 | 3118.0 | 3070.4 | 3008.2 | 3007.3 | 2843.6 | 2760.4 | 2592.1 | 2317.7 | 1500.0 |
| 32.5° | 3407.0 | 3354.9 | 3322.9 | 3289.9 | 3239.6 | 3253.3 | 3115.2 | 3071.3 | 2902.1 | 2592.1 | 1669.2 |
| 35°   | 3534.1 | 3496.6 | 3477.4 | 3427.1 | 3412.5 | 3473.8 | 3416.1 | 3397.9 | 3258.8 | 2978.0 | 1867.7 |
| 37.5° | 3574.4 | 3586.3 | 3582.6 | 3519.5 | 3550.6 | 3716.1 | 3790.2 | 3742.7 | 3669.5 | 3385.0 | 2082.6 |
| 40°   | 3610.0 | 3618.3 | 3600.0 | 3674.1 | 3762.8 | 3951.2 | 4219.2 | 4140.5 | 4113.1 | 3797.5 | 2381.7 |
| 42.5° | 3630.2 | 3623.8 | 3623.8 | 3751.8 | 3886.3 | 4264.9 | 4633.5 | 4581.4 | 4560.3 | 4236.6 | 2727.4 |
| 45°   | 3543.3 | 3481.1 | 3547.9 | 3721.6 | 3992.4 | 4419.5 | 4964.6 | 5036.9 | 5006.7 | 4758.8 | 3131.7 |
| 47.5° | 3218.6 | 3257.0 | 3294.5 | 3526.8 | 3863.4 | 4371.9 | 5167.7 | 5413.7 | 5469.5 | 5197.8 | 3396.9 |
| 50°   | 2727.4 | 2719.2 | 2796.9 | 3089.6 | 3498.5 | 4167.1 | 5128.3 | 5522.5 | 5624.1 | 5329.6 | 3452.7 |
| 52.5° | 1983.8 | 2044.2 | 2128.3 | 2419.2 | 2904.0 | 3636.6 | 4620.7 | 5241.7 | 5377.1 | 5167.7 | 3416.1 |
| 55°   | 1155.2 | 1088.4 | 1277.7 | 1523.8 | 1981.1 | 2743.0 | 3906.4 | 4646.3 | 4896.9 | 4873.2 | 3231.4 |
| 57.5° | 462.8  | 448.2  | 513.1  | 691.5  | 1033.5 | 1700.3 | 2840.8 | 3817.7 | 4219.2 | 4463.4 | 2839.9 |
| 60°   | 203.0  | 198.5  | 233.2  | 281.7  | 422.6  | 783.8  | 1554.0 | 2374.4 | 2793.3 | 3118.9 | 1954.6 |
| 62.5° | 146.3  | 144.5  | 161.9  | 179.3  | 223.2  | 341.2  | 653.0  | 956.7  | 1192.7 | 1440.5 | 875.3  |
| 65°   | 118.0  | 122.6  | 134.5  | 143.6  | 164.6  | 189.3  | 230.5  | 266.2  | 326.5  | 338.4  | 193.0  |
| 67.5° | 96.0   | 99.7   | 110.7  | 120.7  | 124.4  | 102.4  | 106.1  | 93.3   | 93.3   | 83.2   | 66.8   |
| 70°   | 70.4   | 71.3   | 84.1   | 96.0   | 76.8   | 41.2   | 72.3   | 72.3   | 64.9   | 62.2   | 56.7   |
| 72.5° | 52.1   | 53.0   | 63.1   | 59.5   | 30.2   | 25.6   | 53.0   | 58.5   | 53.0   | 50.3   | 45.7   |
| 75°   | 38.4   | 39.3   | 32.9   | 13.7   | 12.8   | 16.5   | 31.1   | 40.2   | 38.4   | 37.5   | 34.8   |
| 77.5° | 7.3    | 5.5    | 4.6    | 6.4    | 9.1    | 13.7   | 20.1   | 24.7   | 25.6   | 27.4   | 25.6   |
| 80°   | 0.9    | 0.9    | 2.7    | 5.5    | 10.1   | 14.6   | 21.0   | 23.8   | 24.7   | 25.6   | 23.8   |
| 82.5° | 0.0    | 0.9    | 2.7    | 5.5    | 10.1   | 13.7   | 18.3   | 21.0   | 22.9   | 23.8   | 22.9   |
| 85°   | 0.0    | 0.9    | 1.8    | 4.6    | 8.2    | 10.1   | 9.1    | 6.4    | 5.5    | 6.4    | 4.6    |
| 87.5° | 0.0    | 0.0    | 0.9    | 0.9    | 1.8    | 1.8    | 1.8    | 1.8    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 576.2  | 576.2 | 576.2 | 576.2 | 576.2 | 576.2 | 576.2 | 576.2 | 576.2 | 576.2 | 576.2 |
| 2.5°  | 583.5  | 579.9 | 567.1 | 553.4 | 541.5 | 546.9 | 541.5 | 536.9 | 538.7 | 536.9 | 535.1 |
| 5°    | 615.5  | 599.1 | 571.6 | 559.8 | 549.7 | 548.8 | 546.0 | 545.1 | 546.0 | 546.0 | 537.8 |
| 7.5°  | 645.7  | 619.2 | 589.9 | 577.1 | 565.2 | 566.2 | 559.8 | 559.8 | 558.8 | 554.3 | 552.4 |
| 10°   | 691.5  | 655.8 | 618.3 | 595.4 | 580.8 | 578.0 | 571.6 | 565.2 | 565.2 | 565.2 | 556.1 |
| 12.5° | 741.8  | 696.9 | 645.7 | 619.2 | 601.8 | 588.1 | 578.0 | 576.2 | 566.2 | 564.3 | 559.8 |
| 15°   | 785.7  | 729.0 | 664.0 | 627.4 | 605.5 | 587.2 | 571.6 | 561.6 | 557.0 | 554.3 | 550.6 |
| 17.5° | 828.7  | 756.4 | 674.1 | 627.4 | 603.7 | 582.6 | 566.2 | 557.0 | 546.0 | 547.9 | 540.5 |
| 20°   | 886.3  | 785.7 | 676.8 | 615.5 | 586.3 | 566.2 | 544.2 | 539.6 | 533.2 | 527.7 | 529.6 |
| 22.5° | 942.1  | 806.7 | 668.6 | 600.9 | 558.8 | 535.1 | 524.1 | 518.6 | 515.9 | 511.3 | 504.9 |
| 25°   | 992.4  | 829.6 | 655.8 | 574.4 | 529.6 | 512.2 | 502.1 | 501.2 | 494.8 | 494.8 | 482.9 |
| 27.5° | 1043.6 | 837.8 | 633.8 | 543.3 | 504.0 | 493.9 | 489.3 | 487.5 | 484.8 | 478.4 | 470.1 |
| 30°   | 1102.1 | 840.5 | 601.8 | 511.3 | 481.1 | 470.1 | 476.5 | 481.1 | 469.2 | 457.3 | 461.0 |
| 32.5° | 1150.6 | 834.1 | 563.4 | 481.1 | 464.6 | 459.1 | 471.9 | 476.5 | 462.8 | 450.0 | 443.6 |
| 35°   | 1209.1 | 818.6 | 525.9 | 457.3 | 448.2 | 459.1 | 470.1 | 470.1 | 442.7 | 427.1 | 423.5 |
| 37.5° | 1297.9 | 801.2 | 491.2 | 437.2 | 430.8 | 453.7 | 468.3 | 458.2 | 415.2 | 396.0 | 391.5 |
| 40°   | 1393.0 | 790.2 | 457.3 | 417.1 | 421.6 | 444.5 | 452.7 | 421.6 | 377.7 | 365.9 | 362.2 |
| 42.5° | 1531.1 | 768.3 | 427.1 | 399.7 | 413.4 | 431.7 | 431.7 | 375.9 | 359.4 | 353.0 | 352.1 |
| 45°   | 1703.0 | 752.7 | 400.6 | 385.1 | 401.5 | 406.1 | 391.5 | 352.1 | 340.2 | 338.4 | 339.3 |
| 47.5° | 1787.2 | 722.6 | 373.2 | 367.7 | 379.6 | 380.5 | 342.1 | 332.9 | 322.9 | 320.1 | 318.3 |
| 50°   | 1774.4 | 668.6 | 337.5 | 344.8 | 361.3 | 352.1 | 311.9 | 313.7 | 304.6 | 303.7 | 299.1 |
| 52.5° | 1684.7 | 583.5 | 301.8 | 319.2 | 337.5 | 311.0 | 287.2 | 285.4 | 285.4 | 273.5 | 268.9 |
| 55°   | 1493.6 | 470.1 | 258.8 | 280.8 | 302.7 | 261.6 | 255.2 | 253.4 | 248.8 | 237.8 | 235.1 |
| 57.5° | 1182.6 | 344.8 | 194.8 | 218.6 | 257.0 | 222.3 | 221.3 | 213.1 | 201.2 | 193.0 | 193.0 |
| 60°   | 703.4  | 198.5 | 122.6 | 133.5 | 170.1 | 180.2 | 200.3 | 196.6 | 176.5 | 163.7 | 160.1 |
| 62.5° | 321.0  | 102.4 | 77.7  | 79.6  | 91.5  | 117.1 | 157.3 | 182.0 | 153.7 | 131.7 | 129.9 |
| 65°   | 107.9  | 75.9  | 64.0  | 61.3  | 63.1  | 70.4  | 94.2  | 129.0 | 122.6 | 101.5 | 97.9  |
| 67.5° | 65.9   | 67.7  | 60.4  | 55.8  | 55.8  | 54.9  | 54.0  | 58.5  | 72.3  | 70.4  | 71.3  |
| 70°   | 56.7   | 62.2  | 55.8  | 50.3  | 48.5  | 45.7  | 38.4  | 32.0  | 27.4  | 32.0  | 33.8  |
| 72.5° | 45.7   | 49.4  | 47.6  | 43.0  | 38.4  | 34.8  | 27.4  | 21.0  | 15.5  | 13.7  | 13.7  |
| 75°   | 33.8   | 36.6  | 38.4  | 32.9  | 29.3  | 24.7  | 20.1  | 13.7  | 8.2   | 5.5   | 5.5   |
| 77.5° | 24.7   | 27.4  | 28.4  | 25.6  | 22.0  | 17.4  | 12.8  | 9.1   | 4.6   | 1.8   | 1.8   |
| 80°   | 21.0   | 24.7  | 27.4  | 25.6  | 22.9  | 16.5  | 11.9  | 6.4   | 3.7   | 0.9   | 0.9   |
| 82.5° | 20.1   | 24.7  | 27.4  | 24.7  | 22.0  | 15.5  | 11.9  | 7.3   | 2.7   | 0.9   | 0.9   |
| 85°   | 4.6    | 6.4   | 8.2   | 10.1  | 11.9  | 11.9  | 9.1   | 5.5   | 2.7   | 0.9   | 0.9   |
| 87.5° | 1.8    | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 0.9   | 0.9   | 0.0   |
| 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)