

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: P533439

Luminaire Tested: **GALN-SA8D-760-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-760-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36849 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

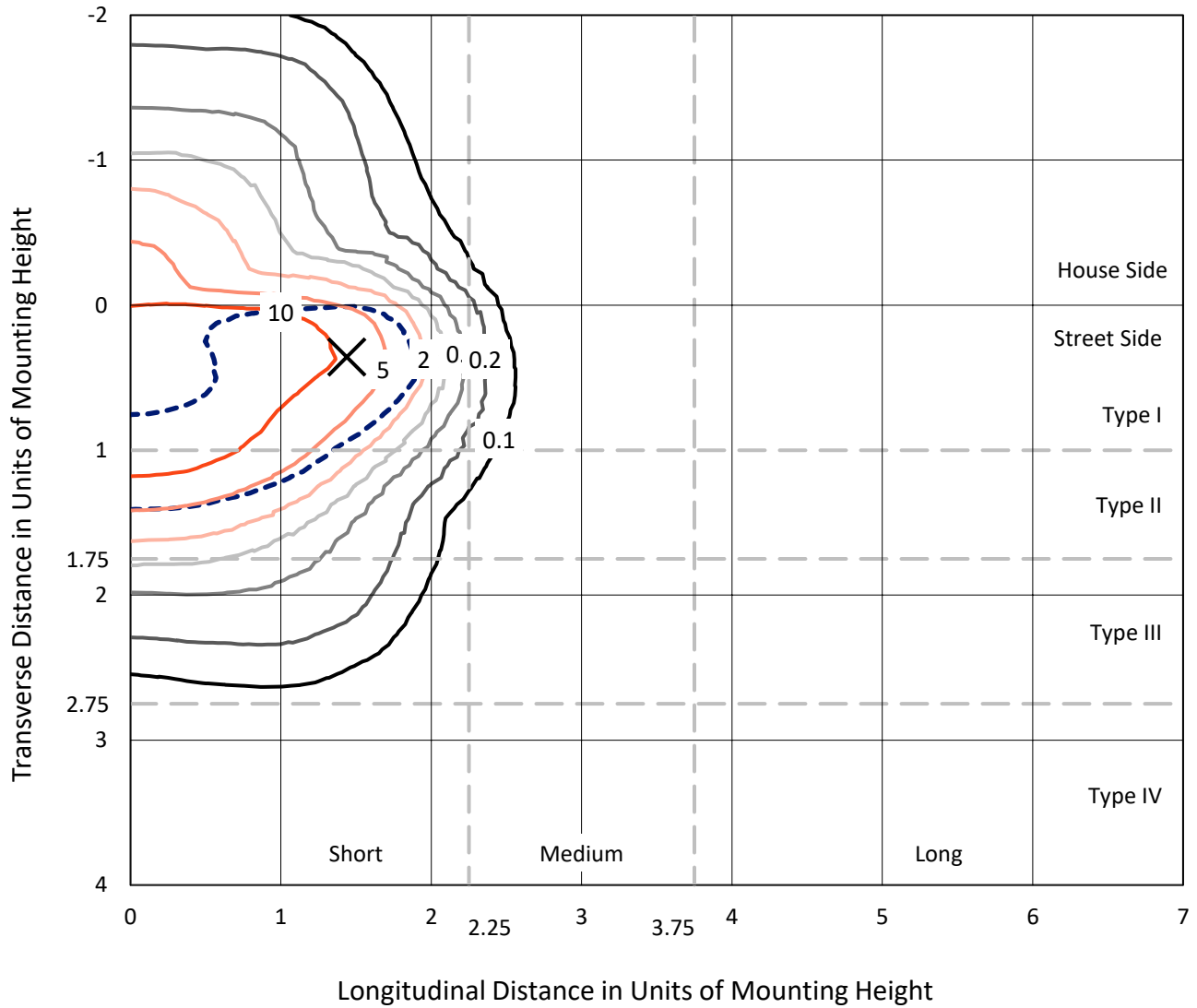
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

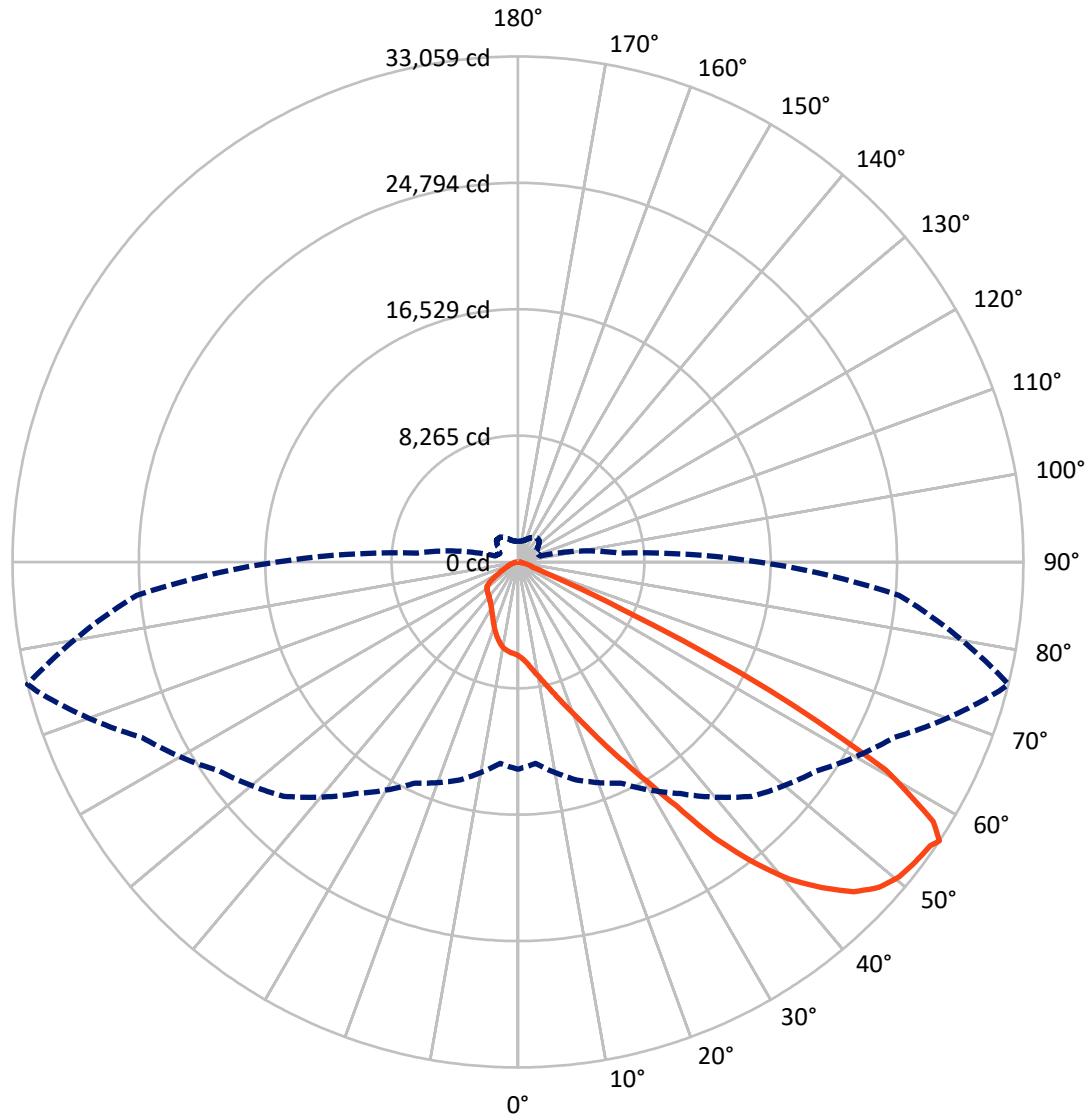
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5788.8 | 0.0 | 5788.8 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 31060.2 | 0.0 | 31060.2 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 36849.0 | 0.0 | 36849.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 617.9 | 1.7 |
| 10°-20° | 1985.0 | 5.4 |
| 20°-30° | 3599.3 | 9.8 |
| 30°-40° | 6207.2 | 16.8 |
| 40°-50° | 10083.8 | 27.4 |
| 50°-60° | 10628.7 | 28.8 |
| 60°-70° | 3247.5 | 8.8 |
| 70°-80° | 416.3 | 1.1 |
| 80°-90° | 63.3 | 0.2 |
| 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° | 36849.0 | 100.0 |
| 0°-180° | 36849.0 | 100.0 |

Coefficient of Utilization

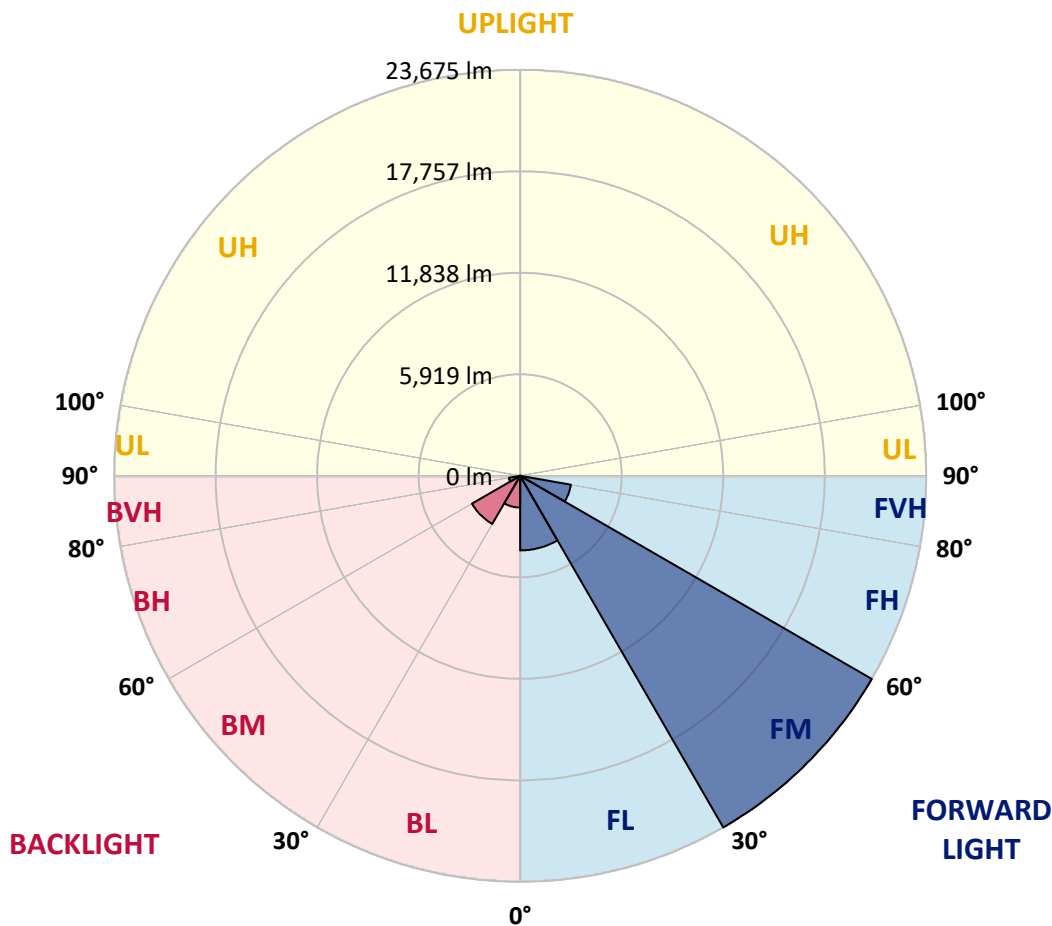


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4350.4 | 11.8 | | | |
| FM (30°-60°) | 23675.4 | 64.2 | | | |
| FH (60°-80°) | 3003.4 | 8.2 | | | G2/5000 |
| FVH (80°-90°) | 31.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1851.8 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 3244.3 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 660.4 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 32.3 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 |
| 2.5° | 7064.1 | 6901.1 | 6907.9 | 6894.3 | 6873.9 | 6799.2 | 6575.1 | 6541.1 | 6391.7 | 6350.9 | 6215.1 |
| 5° | 7913.2 | 7770.5 | 7852.1 | 7729.8 | 7614.3 | 7546.4 | 7179.6 | 7009.8 | 6772.1 | 6683.8 | 6493.6 |
| 7.5° | 8443.0 | 8375.1 | 8347.9 | 8354.7 | 8246.0 | 8076.2 | 7913.2 | 7539.6 | 7220.4 | 7152.4 | 6751.7 |
| 10° | 8701.1 | 8660.4 | 8701.1 | 8680.7 | 8728.3 | 8748.7 | 8463.4 | 8239.2 | 7770.5 | 7655.1 | 7030.2 |
| 12.5° | 8762.2 | 8843.8 | 8877.7 | 8966.0 | 9081.5 | 9278.5 | 9258.1 | 8952.4 | 8327.5 | 8252.8 | 7458.1 |
| 15° | 8911.7 | 8979.6 | 8945.6 | 9088.3 | 9305.6 | 9638.5 | 9815.1 | 9767.5 | 9095.1 | 8959.2 | 7953.9 |
| 17.5° | 9047.5 | 8925.3 | 9040.7 | 9326.0 | 9543.4 | 10052.8 | 10480.7 | 10677.7 | 9930.5 | 9774.3 | 8409.0 |
| 20° | 9230.9 | 9197.0 | 9176.6 | 9319.2 | 9706.4 | 10385.6 | 11234.7 | 11594.7 | 10867.9 | 10704.9 | 9061.1 |
| 22.5° | 9787.9 | 9794.7 | 9781.1 | 9570.5 | 9849.0 | 10616.6 | 11893.6 | 12783.4 | 11988.7 | 11852.8 | 9801.5 |
| 25° | 10521.5 | 10433.2 | 10365.3 | 10195.4 | 10161.5 | 10827.1 | 12559.2 | 14236.9 | 13333.6 | 13238.5 | 10603.0 |
| 27.5° | 11295.8 | 11295.8 | 11092.1 | 10935.8 | 10718.5 | 11350.2 | 13170.5 | 15649.8 | 14956.9 | 14827.9 | 11302.6 |
| 30° | 12138.1 | 12185.6 | 12158.5 | 11825.6 | 11689.8 | 11920.7 | 13795.4 | 17456.6 | 16818.1 | 16655.1 | 12457.3 |
| 32.5° | 13381.1 | 13279.2 | 13394.7 | 13116.2 | 12715.4 | 12919.2 | 14780.3 | 19073.2 | 19236.2 | 19005.2 | 13972.0 |
| 35° | 15024.9 | 14963.7 | 14889.0 | 14433.9 | 13958.5 | 14121.5 | 16172.8 | 21063.3 | 22272.4 | 22156.9 | 15500.3 |
| 37.5° | 16498.8 | 16464.9 | 16403.7 | 16091.3 | 15541.1 | 15738.1 | 17755.4 | 23135.0 | 25233.9 | 24853.5 | 17660.3 |
| 40° | 18047.5 | 18230.9 | 18033.9 | 17755.4 | 17252.8 | 17687.5 | 19616.6 | 24364.5 | 27726.7 | 27264.8 | 19310.9 |
| 42.5° | 20146.4 | 20003.7 | 20092.0 | 19582.6 | 19310.9 | 19786.4 | 21484.5 | 25593.9 | 29662.6 | 29112.4 | 21063.3 |
| 45° | 22381.1 | 22387.9 | 22150.1 | 21987.1 | 21280.7 | 21796.9 | 22632.4 | 26273.1 | 31204.5 | 30776.5 | 22387.9 |
| 47.5° | 23814.3 | 23807.5 | 24065.6 | 24323.7 | 23596.9 | 23087.5 | 23413.5 | 26918.4 | 31999.2 | 31802.2 | 22870.1 |
| 50° | 23590.1 | 23658.1 | 23990.9 | 24955.4 | 25335.8 | 24649.8 | 24147.1 | 26728.2 | 32359.2 | 32338.8 | 23284.5 |
| 52.5° | 20520.0 | 20744.1 | 21301.1 | 22693.5 | 24609.0 | 25458.1 | 24914.7 | 27081.4 | 32535.8 | 32569.7 | 23902.6 |
| 55° | 15622.6 | 15744.9 | 16804.5 | 18495.8 | 20615.0 | 23522.2 | 24609.0 | 27359.9 | 32671.6 | 32732.8 | 24649.8 |
| 56° | 13550.9 | 13224.9 | 14753.2 | 15955.4 | 18489.0 | 21667.9 | 23834.7 | 27142.6 | 32590.1 | 33058.8 | 25023.3 |
| 57.5° | 10229.4 | 10012.1 | 11248.3 | 12749.4 | 15187.9 | 18543.4 | 21430.1 | 26116.9 | 32039.9 | 32033.1 | 24486.7 |
| 60° | 6221.9 | 6004.5 | 6955.5 | 7838.5 | 9203.8 | 11418.1 | 14481.5 | 20798.4 | 27088.2 | 27658.8 | 19827.1 |
| 62.5° | 3701.9 | 3837.7 | 4775.1 | 5311.7 | 5753.2 | 5984.1 | 7492.1 | 12362.2 | 18074.7 | 18482.2 | 12301.1 |
| 65° | 2465.7 | 2513.2 | 3219.6 | 4102.6 | 4299.6 | 3423.4 | 3049.8 | 5006.0 | 7838.5 | 7587.2 | 5074.0 |
| 67.5° | 1521.5 | 1630.2 | 2160.0 | 3083.8 | 3416.6 | 2499.6 | 1446.8 | 1867.9 | 2160.0 | 2160.0 | 1467.2 |
| 70° | 923.8 | 978.1 | 1440.0 | 2098.9 | 2343.4 | 1609.8 | 1052.8 | 1052.8 | 1039.2 | 1018.9 | 876.2 |
| 72.5° | 441.5 | 475.5 | 733.6 | 1080.0 | 1100.4 | 849.1 | 815.1 | 889.8 | 869.4 | 862.6 | 726.8 |
| 75° | 190.2 | 203.8 | 258.1 | 339.6 | 387.2 | 360.0 | 495.8 | 638.5 | 658.9 | 638.5 | 523.0 |
| 77.5° | 61.1 | 67.9 | 95.1 | 122.3 | 129.1 | 156.2 | 210.6 | 264.9 | 305.7 | 285.3 | 258.1 |
| 80° | 6.8 | 13.6 | 27.2 | 61.1 | 95.1 | 122.3 | 156.2 | 176.6 | 197.0 | 197.0 | 183.4 |
| 82.5° | 6.8 | 6.8 | 27.2 | 54.3 | 88.3 | 115.5 | 149.4 | 169.8 | 197.0 | 203.8 | 190.2 |
| 85° | 0.0 | 6.8 | 20.4 | 47.5 | 74.7 | 74.7 | 67.9 | 67.9 | 47.5 | 47.5 | 47.5 |
| 87.5° | 0.0 | 0.0 | 6.8 | 6.8 | 6.8 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 |
| 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° | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 | 6133.6 |
| 2.5° | 6187.9 | 6174.3 | 5990.9 | 5875.5 | 5814.3 | 5692.1 | 5617.3 | 5563.0 | 5522.3 | 5474.7 | 5481.5 |
| 5° | 6269.4 | 6221.9 | 5916.2 | 5705.6 | 5454.3 | 5318.5 | 5203.0 | 5107.9 | 5046.8 | 5033.2 | 5006.0 |
| 7.5° | 6500.4 | 6249.0 | 5787.2 | 5406.8 | 5087.5 | 4951.7 | 4849.8 | 4788.7 | 4815.8 | 4754.7 | 4802.3 |
| 10° | 6677.0 | 6303.4 | 5630.9 | 5080.7 | 4761.5 | 4659.6 | 4605.3 | 4652.8 | 4720.7 | 4693.6 | 4659.6 |
| 12.5° | 6894.3 | 6357.7 | 5379.6 | 4768.3 | 4469.4 | 4394.7 | 4489.8 | 4578.1 | 4714.0 | 4768.3 | 4700.4 |
| 15° | 7138.9 | 6418.9 | 5060.4 | 4408.3 | 4218.1 | 4279.2 | 4442.3 | 4598.5 | 4734.3 | 4802.3 | 4843.0 |
| 17.5° | 7437.7 | 6398.5 | 4747.9 | 4123.0 | 3980.4 | 4157.0 | 4354.0 | 4496.6 | 4700.4 | 4802.3 | 4775.1 |
| 20° | 7716.2 | 6330.6 | 4401.5 | 3837.7 | 3844.5 | 4007.5 | 4170.6 | 4401.5 | 4510.2 | 4646.0 | 4598.5 |
| 22.5° | 7981.1 | 6208.3 | 4041.5 | 3640.7 | 3640.7 | 3892.1 | 3973.6 | 4123.0 | 4218.1 | 4286.0 | 4279.2 |
| 25° | 8354.7 | 5977.3 | 3742.6 | 3450.6 | 3532.1 | 3695.1 | 3763.0 | 3810.6 | 3769.8 | 3824.1 | 3830.9 |
| 27.5° | 8619.6 | 5739.6 | 3498.1 | 3280.7 | 3430.2 | 3552.4 | 3532.1 | 3504.9 | 3409.8 | 3335.1 | 3382.6 |
| 30° | 8904.9 | 5461.1 | 3287.5 | 3165.3 | 3246.8 | 3355.5 | 3274.0 | 3192.4 | 3043.0 | 2920.7 | 2927.5 |
| 32.5° | 9312.4 | 5332.1 | 3104.1 | 3029.4 | 3138.1 | 3151.7 | 3063.4 | 2941.1 | 2791.7 | 2676.2 | 2669.4 |
| 35° | 10073.2 | 5250.6 | 2947.9 | 2941.1 | 2961.5 | 2968.3 | 2880.0 | 2730.6 | 2669.4 | 2574.3 | 2608.3 |
| 37.5° | 10833.9 | 5209.8 | 2839.2 | 2812.1 | 2805.3 | 2812.1 | 2710.2 | 2567.5 | 2683.0 | 2676.2 | 2689.8 |
| 40° | 11805.3 | 5393.2 | 2683.0 | 2649.1 | 2655.8 | 2655.8 | 2526.8 | 2486.0 | 2689.8 | 2710.2 | 2717.0 |
| 42.5° | 12790.2 | 5624.1 | 2581.1 | 2472.4 | 2499.6 | 2499.6 | 2431.7 | 2384.1 | 2526.8 | 2390.9 | 2370.6 |
| 45° | 13646.0 | 5963.8 | 2472.4 | 2295.8 | 2363.8 | 2397.7 | 2377.4 | 2295.8 | 2207.5 | 1976.6 | 1976.6 |
| 47.5° | 13924.5 | 6262.6 | 2343.4 | 2126.0 | 2180.4 | 2329.8 | 2268.7 | 2098.9 | 1942.6 | 1752.4 | 1738.9 |
| 50° | 14413.6 | 6588.7 | 2241.5 | 1929.1 | 2044.5 | 2227.9 | 2166.8 | 1997.0 | 1820.4 | 1684.5 | 1691.3 |
| 52.5° | 14916.2 | 6962.2 | 2051.3 | 1698.1 | 1840.8 | 2146.4 | 2146.4 | 1956.2 | 1684.5 | 1589.4 | 1575.8 |
| 55° | 15670.2 | 6948.7 | 1711.7 | 1392.4 | 1643.8 | 2024.1 | 2058.1 | 1752.4 | 1507.9 | 1433.2 | 1433.2 |
| 56° | 15778.8 | 6636.2 | 1541.9 | 1304.1 | 1555.5 | 1990.2 | 1997.0 | 1698.1 | 1440.0 | 1358.5 | 1358.5 |
| 57.5° | 14963.7 | 5990.9 | 1351.7 | 1195.5 | 1446.8 | 1929.1 | 1935.8 | 1650.6 | 1385.7 | 1270.2 | 1256.6 |
| 60° | 11513.2 | 4055.1 | 1127.5 | 1066.4 | 1310.9 | 1738.9 | 1772.8 | 1501.1 | 1215.8 | 1127.5 | 1120.8 |
| 62.5° | 6500.4 | 2248.3 | 991.7 | 964.5 | 1127.5 | 1480.8 | 1582.6 | 1310.9 | 1032.5 | 984.9 | 998.5 |
| 65° | 2968.3 | 1236.2 | 835.5 | 781.1 | 910.2 | 1141.1 | 1277.0 | 1080.0 | 849.1 | 794.7 | 794.7 |
| 67.5° | 1086.8 | 842.3 | 713.2 | 618.1 | 638.5 | 740.4 | 828.7 | 699.6 | 563.8 | 482.3 | 502.6 |
| 70° | 774.3 | 706.4 | 624.9 | 536.6 | 495.8 | 482.3 | 475.5 | 394.0 | 278.5 | 217.4 | 230.9 |
| 72.5° | 624.9 | 584.1 | 523.0 | 455.1 | 387.2 | 326.0 | 278.5 | 203.8 | 129.1 | 88.3 | 81.5 |
| 75° | 448.3 | 427.9 | 380.4 | 326.0 | 271.7 | 230.9 | 190.2 | 129.1 | 67.9 | 34.0 | 34.0 |
| 77.5° | 230.9 | 230.9 | 224.2 | 203.8 | 169.8 | 135.8 | 108.7 | 74.7 | 40.8 | 13.6 | 13.6 |
| 80° | 176.6 | 190.2 | 197.0 | 176.6 | 156.2 | 122.3 | 88.3 | 54.3 | 27.2 | 6.8 | 6.8 |
| 82.5° | 169.8 | 197.0 | 210.6 | 183.4 | 156.2 | 115.5 | 88.3 | 54.3 | 27.2 | 6.8 | 6.8 |
| 85° | 40.8 | 40.8 | 61.1 | 67.9 | 88.3 | 95.1 | 74.7 | 47.5 | 20.4 | 6.8 | 6.8 |
| 87.5° | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | 13.6 | 6.8 | 6.8 | 6.8 | 6.8 | 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)