

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: P529531

Luminaire Tested: **GALN-SA4D-722-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-722-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13131 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

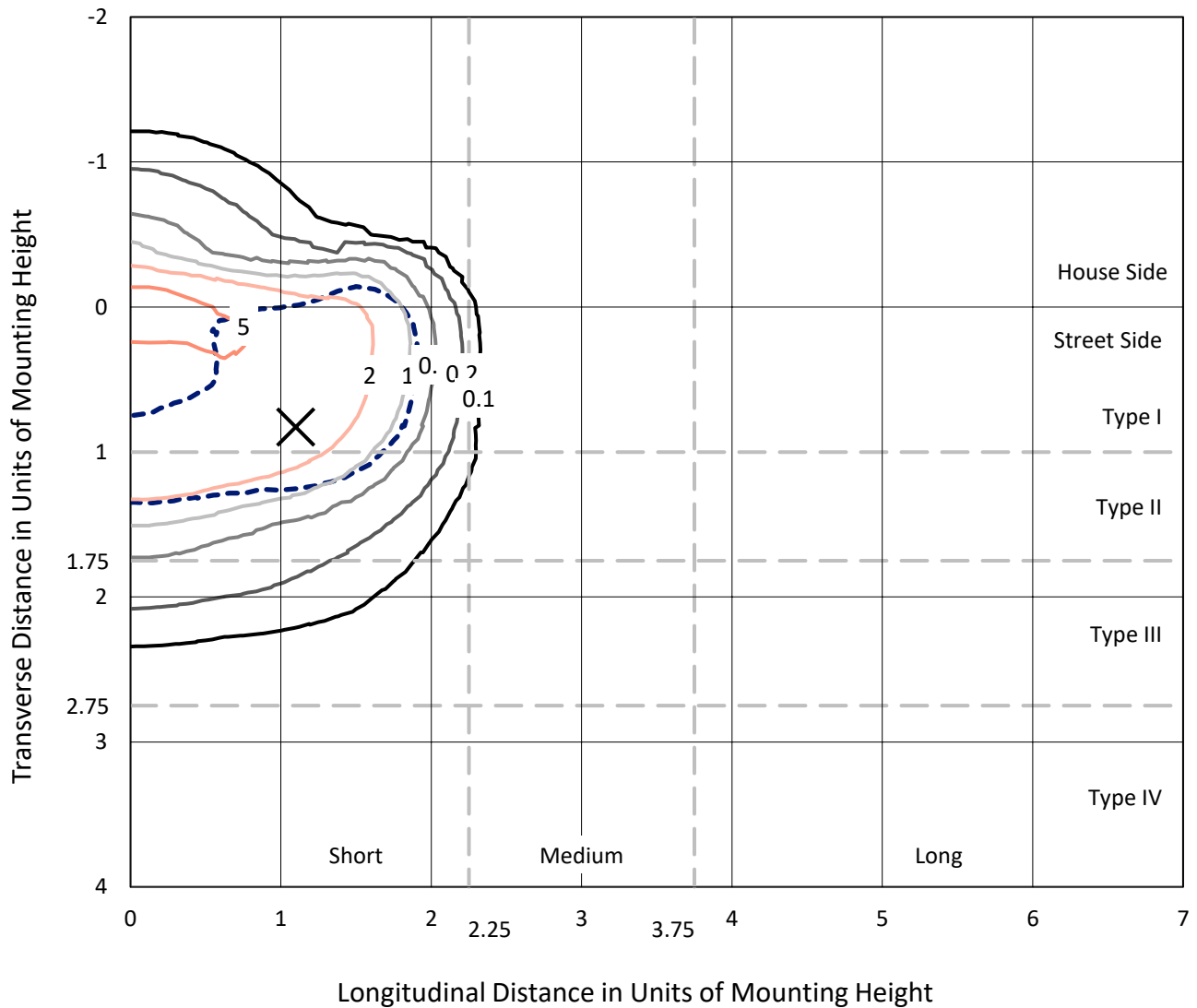
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

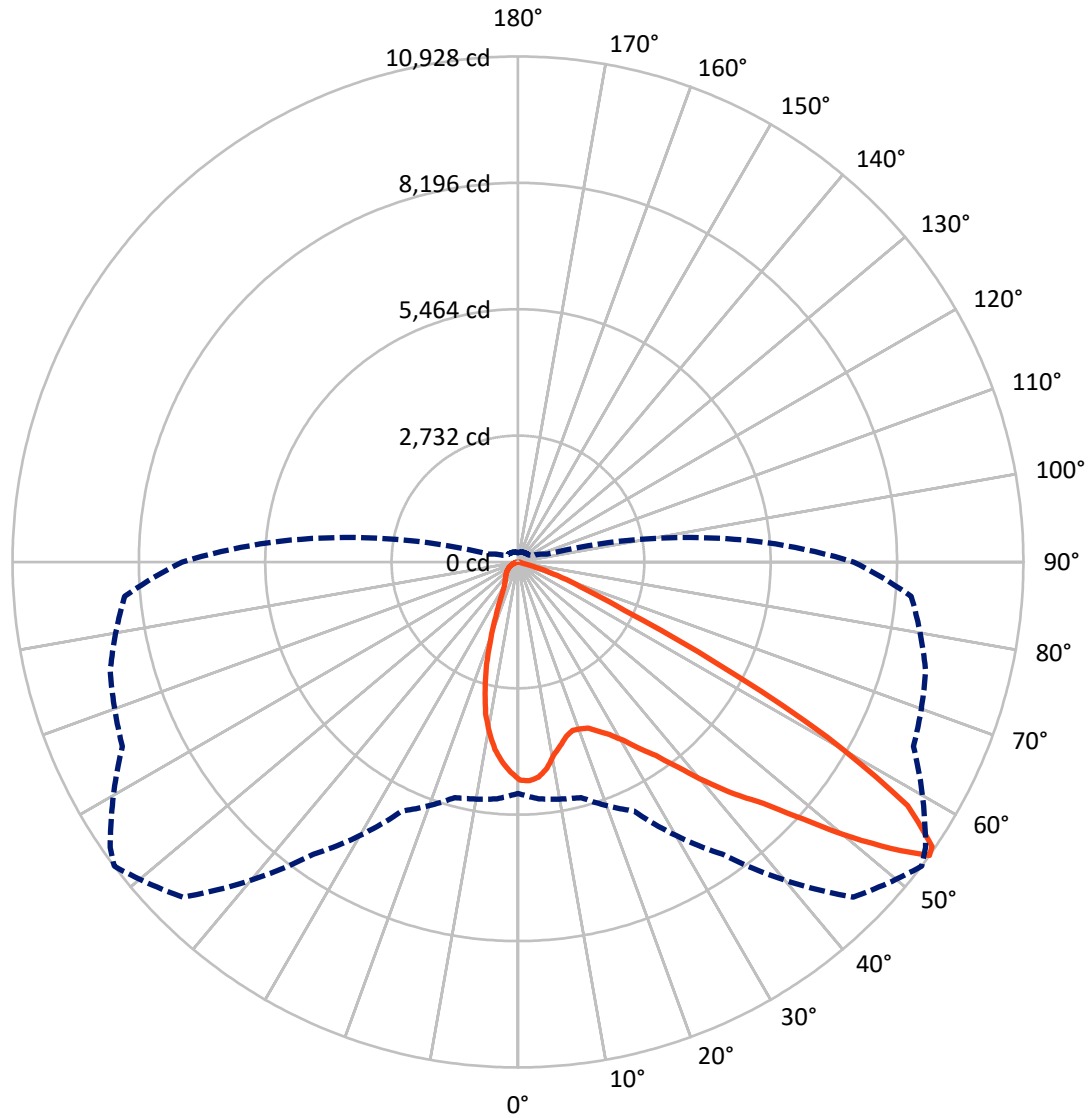
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2172.5 | 0.0 | 2172.5 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 10958.4 | 0.0 | 10958.4 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 13131.0 | 0.0 | 13131.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 404.7 | 3.1 |
| 10°-20° | 927.8 | 7.1 |
| 20°-30° | 1318.5 | 10.0 |
| 30°-40° | 2034.9 | 15.5 |
| 40°-50° | 3190.5 | 24.3 |
| 50°-60° | 3706.2 | 28.2 |
| 60°-70° | 1400.4 | 10.7 |
| 70°-80° | 133.2 | 1.0 |
| 80°-90° | 15.0 | 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° | 13131.0 | 100.0 |
| 0°-180° | 13131.0 | 100.0 |

Coefficient of Utilization

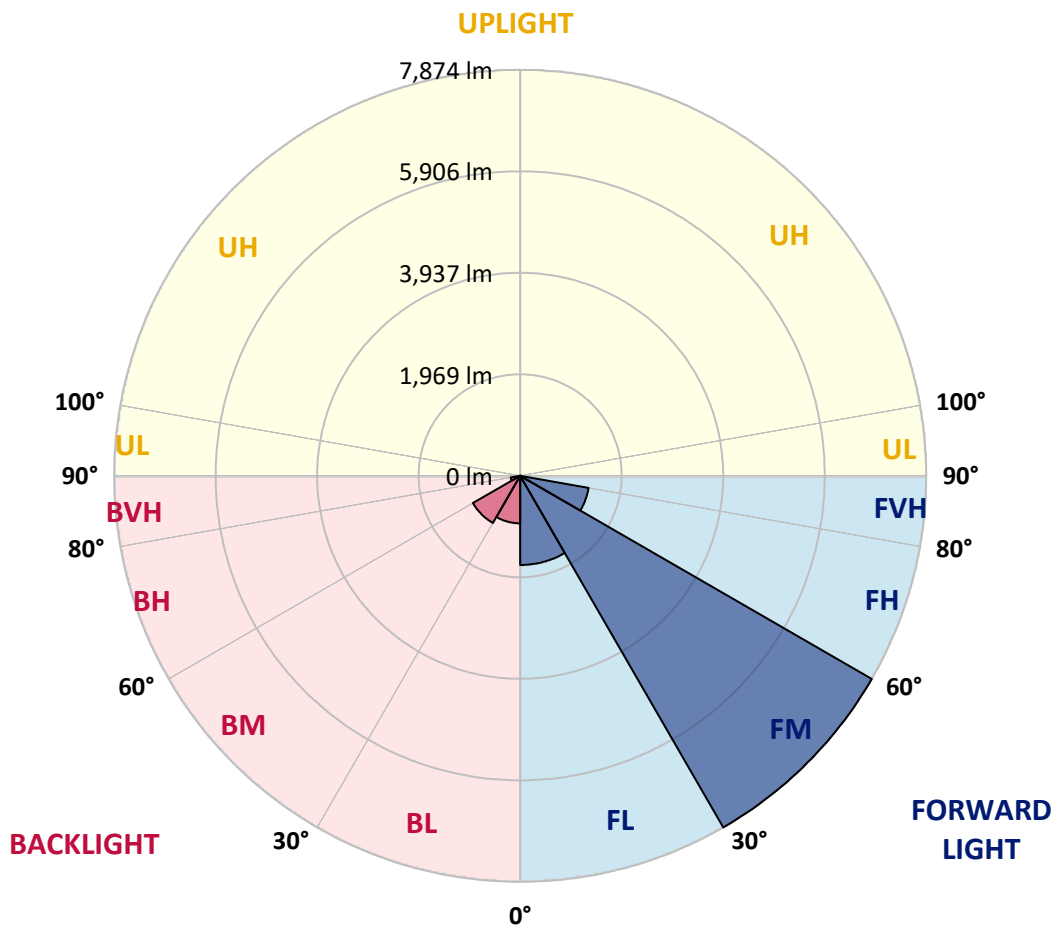


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1729.0 | 13.2 | | | |
| FM (30°-60°) | 7874.2 | 60.0 | | | |
| FH (60°-80°) | 1347.4 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 7.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 921.9 | 7.0 | B2/1000 | | |
| BM (30°-60°) | 1057.2 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 186.1 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0° | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 |
| 2.5° | 4692.0 | 4650.4 | 4692.0 | 4696.9 | 4726.2 | 4753.1 | 4736.0 | 4775.1 | 4753.1 | 4728.7 | 4721.3 |
| 5° | 4312.8 | 4369.1 | 4371.5 | 4459.6 | 4440.0 | 4601.5 | 4672.4 | 4652.8 | 4772.7 | 4765.4 | 4748.2 |
| 7.5° | 3972.8 | 3950.7 | 3980.1 | 4082.8 | 4212.5 | 4398.4 | 4501.2 | 4498.7 | 4670.0 | 4792.3 | 4780.0 |
| 10° | 3657.2 | 3654.7 | 3715.9 | 3796.6 | 3906.7 | 4102.4 | 4244.3 | 4315.2 | 4581.9 | 4767.8 | 4794.7 |
| 12.5° | 3444.4 | 3434.6 | 3500.6 | 3566.7 | 3740.4 | 3892.0 | 4073.1 | 4107.3 | 4413.1 | 4682.2 | 4726.2 |
| 15° | 3304.9 | 3326.9 | 3331.8 | 3459.0 | 3569.1 | 3769.7 | 3911.6 | 3982.5 | 4334.8 | 4613.7 | 4782.5 |
| 17.5° | 3280.5 | 3309.8 | 3312.3 | 3417.5 | 3534.9 | 3703.7 | 3828.4 | 3923.8 | 4268.8 | 4647.9 | 4784.9 |
| 20° | 3329.4 | 3312.3 | 3326.9 | 3393.0 | 3508.0 | 3669.4 | 3850.4 | 3882.3 | 4246.7 | 4665.1 | 4811.8 |
| 22.5° | 3468.8 | 3463.9 | 3427.2 | 3481.1 | 3561.8 | 3730.6 | 3901.8 | 3950.7 | 4310.4 | 4753.1 | 4833.9 |
| 25° | 3622.9 | 3649.9 | 3615.6 | 3608.3 | 3664.5 | 3830.9 | 4058.4 | 4122.0 | 4523.2 | 4912.1 | 4902.4 |
| 27.5° | 3911.6 | 3884.7 | 3884.7 | 3850.4 | 3835.8 | 3916.5 | 4227.2 | 4332.4 | 4760.5 | 5117.6 | 4980.6 |
| 30° | 4188.0 | 4217.4 | 4195.4 | 4207.6 | 4109.8 | 4102.4 | 4466.9 | 4596.6 | 5181.2 | 5430.7 | 5147.0 |
| 32.5° | 4625.9 | 4586.8 | 4623.5 | 4591.7 | 4462.0 | 4329.9 | 4792.3 | 4926.8 | 5690.1 | 5790.4 | 5396.5 |
| 35° | 4990.4 | 4973.3 | 5129.9 | 5125.0 | 4914.6 | 4784.9 | 5137.2 | 5337.8 | 6044.8 | 6220.9 | 5690.1 |
| 37.5° | 5509.0 | 5477.2 | 5655.8 | 5741.4 | 5553.1 | 5359.8 | 5631.3 | 5863.7 | 6375.0 | 6565.8 | 5990.9 |
| 40° | 6042.3 | 6123.0 | 6362.8 | 6504.7 | 6304.1 | 6047.2 | 6235.6 | 6306.5 | 6595.2 | 6790.9 | 6196.4 |
| 42.5° | 6717.5 | 6834.9 | 7079.5 | 7201.9 | 7184.7 | 6905.9 | 6849.6 | 6847.1 | 6754.2 | 6727.3 | 6348.1 |
| 45° | 7365.8 | 7321.7 | 7698.5 | 7965.1 | 8180.4 | 8099.6 | 7441.6 | 7368.2 | 7006.2 | 6822.7 | 6387.2 |
| 47.5° | 7649.5 | 7634.8 | 7891.7 | 8366.3 | 9100.2 | 9200.5 | 8302.7 | 8018.9 | 7431.8 | 7223.9 | 6600.1 |
| 50° | 7282.6 | 7358.4 | 7612.8 | 8138.8 | 9264.1 | 10029.8 | 9359.5 | 8977.9 | 7928.4 | 7713.1 | 7104.0 |
| 52.5° | 6083.9 | 6135.3 | 6377.5 | 7045.3 | 8706.3 | 10519.0 | 10372.2 | 10152.1 | 8840.9 | 8483.7 | 7982.2 |
| 54° | 5002.6 | 5139.6 | 5271.7 | 5942.0 | 7713.1 | 10247.5 | 10927.5 | 10758.8 | 9435.3 | 9124.6 | 8535.1 |
| 55° | 4356.8 | 4437.6 | 4533.0 | 5200.8 | 7025.7 | 9787.6 | 10863.9 | 10878.6 | 9834.1 | 9325.2 | 8906.9 |
| 57.5° | 3182.6 | 3238.9 | 3141.0 | 3437.0 | 4824.1 | 7948.0 | 9936.8 | 10333.1 | 10372.2 | 9626.1 | 9134.4 |
| 60° | 2431.6 | 2456.1 | 2346.0 | 2392.5 | 2999.1 | 5455.2 | 7686.2 | 8163.2 | 9357.0 | 8412.8 | 7737.6 |
| 62.5° | 1886.1 | 1891.0 | 1888.5 | 1969.3 | 2067.1 | 3209.5 | 4806.9 | 5230.2 | 6450.8 | 5973.8 | 5254.6 |
| 65° | 1389.5 | 1367.5 | 1406.6 | 1651.2 | 1763.8 | 2018.2 | 2531.9 | 2840.1 | 3505.5 | 2960.0 | 2116.0 |
| 67.5° | 900.2 | 907.6 | 946.7 | 1228.0 | 1511.8 | 1548.5 | 1558.3 | 1533.8 | 1536.3 | 846.4 | 530.8 |
| 70° | 540.6 | 552.9 | 540.6 | 694.7 | 1081.3 | 1110.6 | 1015.2 | 990.7 | 773.0 | 200.6 | 198.1 |
| 72.5° | 320.5 | 303.3 | 271.5 | 298.4 | 450.1 | 538.2 | 484.4 | 481.9 | 303.3 | 117.4 | 117.4 |
| 75° | 134.5 | 122.3 | 100.3 | 90.5 | 119.9 | 115.0 | 115.0 | 102.7 | 80.7 | 78.3 | 73.4 |
| 77.5° | 26.9 | 26.9 | 19.6 | 22.0 | 29.4 | 34.2 | 41.6 | 41.6 | 48.9 | 48.9 | 46.5 |
| 80° | 0.0 | 2.4 | 7.3 | 14.7 | 22.0 | 31.8 | 36.7 | 36.7 | 41.6 | 41.6 | 34.2 |
| 82.5° | 0.0 | 2.4 | 7.3 | 14.7 | 19.6 | 29.4 | 36.7 | 36.7 | 41.6 | 44.0 | 36.7 |
| 85° | 0.0 | 2.4 | 7.3 | 12.2 | 19.6 | 24.5 | 24.5 | 22.0 | 17.1 | 14.7 | 9.8 |
| 87.5° | 0.0 | 0.0 | 2.4 | 4.9 | 2.4 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 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° | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 | 4716.4 |
| 2.5° | 4738.5 | 4736.0 | 4677.3 | 4581.9 | 4559.9 | 4479.1 | 4469.4 | 4420.4 | 4447.3 | 4356.8 | 4347.0 |
| 5° | 4699.3 | 4670.0 | 4599.0 | 4537.9 | 4359.3 | 4232.1 | 4131.8 | 4009.5 | 3938.5 | 3950.7 | 3904.3 |
| 7.5° | 4755.6 | 4679.7 | 4555.0 | 4342.2 | 4124.4 | 3901.8 | 3782.0 | 3532.4 | 3441.9 | 3307.4 | 3287.8 |
| 10° | 4696.9 | 4640.6 | 4447.3 | 4095.1 | 3794.2 | 3473.7 | 3192.4 | 2916.0 | 2705.6 | 2615.1 | 2595.5 |
| 12.5° | 4692.0 | 4594.1 | 4271.2 | 3879.8 | 3444.4 | 2984.5 | 2575.9 | 2231.0 | 2023.1 | 1905.7 | 1878.7 |
| 15° | 4616.1 | 4498.7 | 4073.1 | 3547.1 | 2945.3 | 2372.9 | 1927.7 | 1595.0 | 1436.0 | 1367.5 | 1387.0 |
| 17.5° | 4623.5 | 4447.3 | 3874.9 | 3194.8 | 2453.6 | 1741.8 | 1316.1 | 1144.9 | 1103.3 | 1120.4 | 1120.4 |
| 20° | 4616.1 | 4332.4 | 3635.2 | 2788.8 | 1878.7 | 1208.5 | 966.3 | 905.1 | 932.0 | 985.9 | 973.6 |
| 22.5° | 4577.0 | 4278.5 | 3415.0 | 2360.7 | 1382.1 | 895.3 | 775.5 | 777.9 | 819.5 | 885.6 | 900.2 |
| 25° | 4606.4 | 4158.7 | 3136.1 | 1927.7 | 1007.9 | 714.3 | 672.7 | 689.9 | 733.9 | 782.8 | 792.6 |
| 27.5° | 4584.3 | 4073.1 | 2845.0 | 1497.1 | 736.3 | 614.0 | 611.6 | 631.1 | 650.7 | 687.4 | 687.4 |
| 30° | 4608.8 | 3994.8 | 2558.8 | 1113.1 | 606.7 | 562.6 | 552.9 | 567.5 | 587.1 | 594.4 | 592.0 |
| 32.5° | 4699.3 | 3936.1 | 2228.6 | 831.7 | 535.7 | 513.7 | 513.7 | 513.7 | 511.3 | 521.1 | 523.5 |
| 35° | 4897.5 | 3945.9 | 1937.5 | 643.4 | 489.3 | 472.1 | 464.8 | 455.0 | 450.1 | 455.0 | 457.5 |
| 37.5° | 5112.7 | 3941.0 | 1636.6 | 548.0 | 455.0 | 440.3 | 423.2 | 408.5 | 406.1 | 411.0 | 403.6 |
| 40° | 5208.1 | 3987.4 | 1357.7 | 491.7 | 423.2 | 406.1 | 379.2 | 366.9 | 369.4 | 374.3 | 369.4 |
| 42.5° | 5337.8 | 4002.1 | 1176.7 | 447.7 | 393.9 | 366.9 | 349.8 | 335.1 | 332.7 | 340.0 | 337.6 |
| 45° | 5335.3 | 3918.9 | 985.9 | 423.2 | 366.9 | 337.6 | 315.6 | 303.3 | 303.3 | 308.2 | 310.7 |
| 47.5° | 5491.9 | 3906.7 | 846.4 | 401.2 | 347.4 | 318.0 | 291.1 | 281.3 | 278.9 | 278.9 | 274.0 |
| 50° | 5856.4 | 4078.0 | 738.8 | 376.7 | 322.9 | 296.0 | 274.0 | 261.8 | 252.0 | 247.1 | 244.6 |
| 52.5° | 6568.3 | 4611.2 | 655.6 | 347.4 | 296.0 | 274.0 | 254.4 | 244.6 | 232.4 | 220.2 | 217.7 |
| 54° | 7258.1 | 5161.7 | 650.7 | 322.9 | 274.0 | 259.3 | 242.2 | 237.3 | 222.6 | 205.5 | 200.6 |
| 55° | 7568.8 | 5482.1 | 667.8 | 303.3 | 259.3 | 249.5 | 234.8 | 230.0 | 215.3 | 195.7 | 193.3 |
| 57.5° | 7825.7 | 5606.9 | 658.1 | 252.0 | 234.8 | 232.4 | 220.2 | 212.8 | 195.7 | 168.8 | 163.9 |
| 60° | 6299.2 | 4239.4 | 472.1 | 222.6 | 215.3 | 210.4 | 200.6 | 195.7 | 173.7 | 144.3 | 141.9 |
| 62.5° | 3980.1 | 2438.9 | 300.9 | 195.7 | 188.4 | 181.0 | 168.8 | 163.9 | 144.3 | 115.0 | 107.6 |
| 65° | 1695.3 | 1010.3 | 203.0 | 173.7 | 161.5 | 149.2 | 139.4 | 132.1 | 115.0 | 85.6 | 83.2 |
| 67.5° | 440.3 | 359.6 | 168.8 | 151.7 | 134.5 | 117.4 | 110.1 | 97.9 | 78.3 | 58.7 | 56.3 |
| 70° | 198.1 | 181.0 | 141.9 | 127.2 | 107.6 | 90.5 | 80.7 | 68.5 | 51.4 | 39.1 | 36.7 |
| 72.5° | 117.4 | 115.0 | 107.6 | 95.4 | 80.7 | 68.5 | 58.7 | 46.5 | 34.2 | 22.0 | 22.0 |
| 75° | 73.4 | 70.9 | 73.4 | 66.0 | 56.3 | 51.4 | 44.0 | 31.8 | 19.6 | 9.8 | 9.8 |
| 77.5° | 44.0 | 44.0 | 44.0 | 41.6 | 39.1 | 39.1 | 31.8 | 19.6 | 9.8 | 2.4 | 2.4 |
| 80° | 34.2 | 34.2 | 36.7 | 34.2 | 34.2 | 34.2 | 26.9 | 14.7 | 4.9 | 0.0 | 0.0 |
| 82.5° | 34.2 | 36.7 | 41.6 | 39.1 | 34.2 | 29.4 | 24.5 | 14.7 | 4.9 | 0.0 | 0.0 |
| 85° | 9.8 | 7.3 | 12.2 | 17.1 | 24.5 | 22.0 | 17.1 | 12.2 | 4.9 | 0.0 | 0.0 |
| 87.5° | 4.9 | 4.9 | 4.9 | 4.9 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 | 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)