

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: STREETWORKS

Report Number: P528629

Luminaire Tested: **GLAN-SA3D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528629
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: STREETWORKS
Catalog Number: GLAN-SA3D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 11393 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

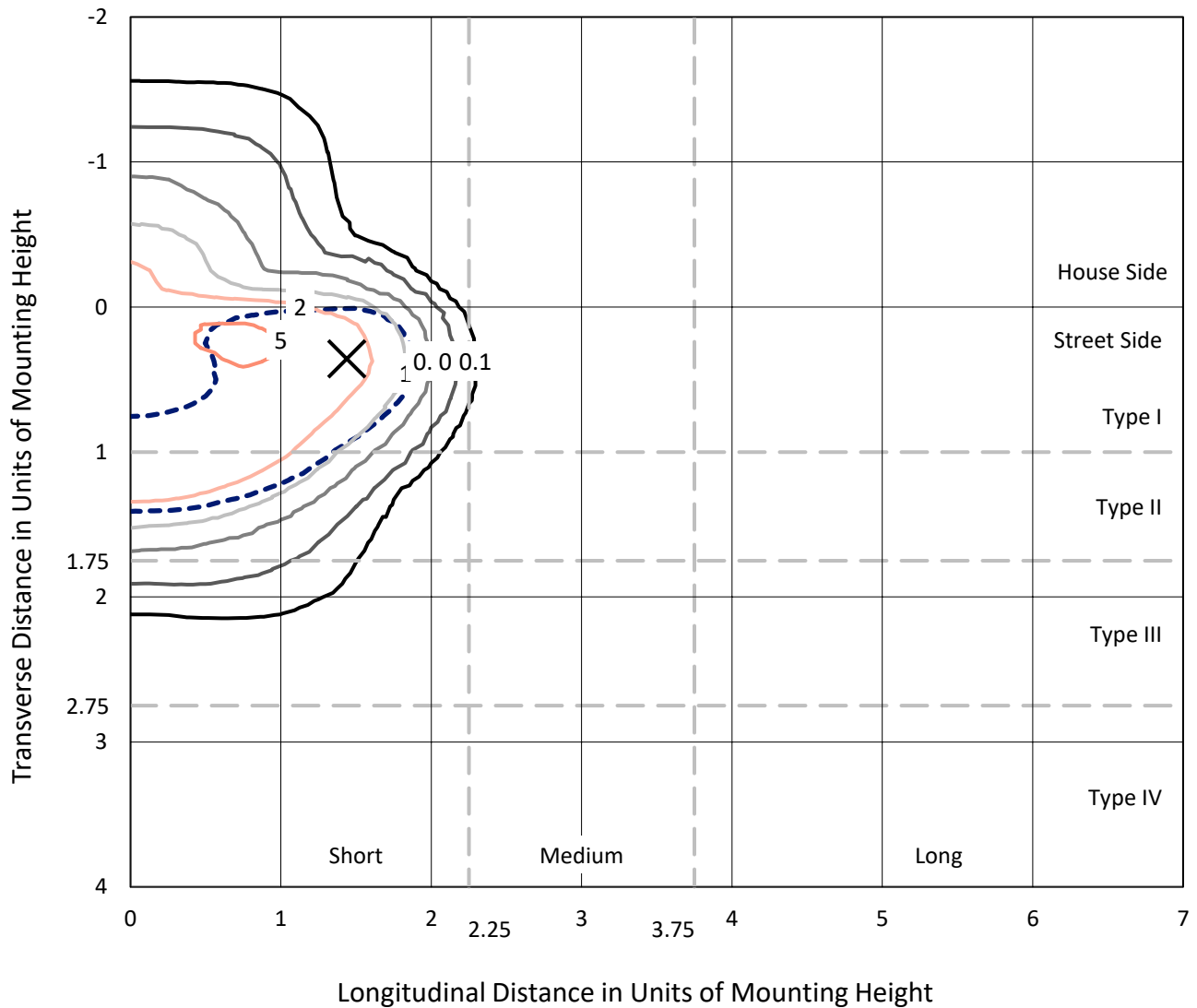
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

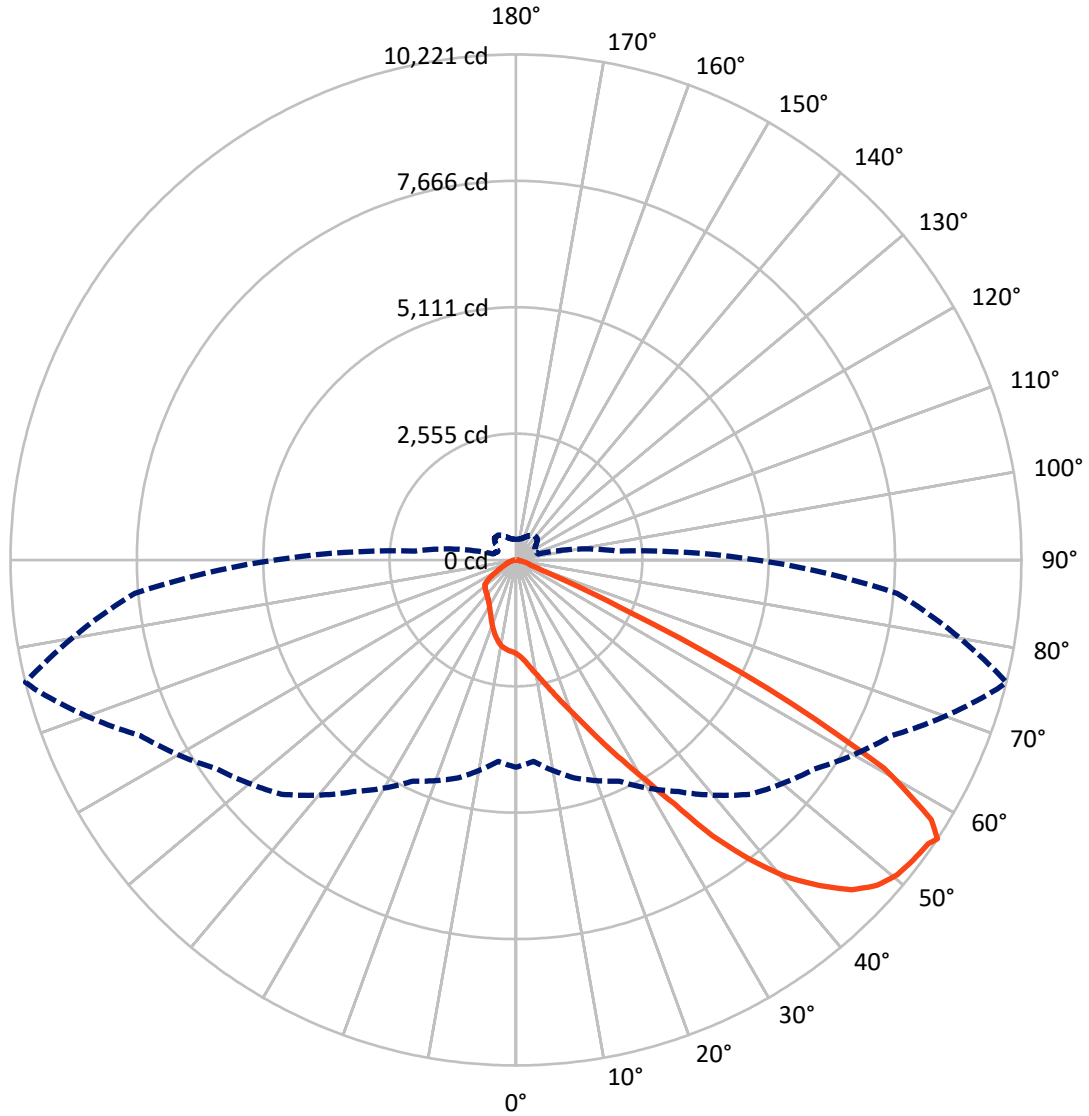
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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 | 1789.8 | 0.0 | 1789.8 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 9603.2 | 0.0 | 9603.2 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 11393.0 | 0.0 | 11393.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 191.0 | 1.7 |
| 10°-20° | 613.7 | 5.4 |
| 20°-30° | 1112.8 | 9.8 |
| 30°-40° | 1919.1 | 16.8 |
| 40°-50° | 3117.7 | 27.4 |
| 50°-60° | 3286.2 | 28.8 |
| 60°-70° | 1004.1 | 8.8 |
| 70°-80° | 128.7 | 1.1 |
| 80°-90° | 19.6 | 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° | 11393.0 | 100.0 |
| 0°-180° | 11393.0 | 100.0 |

Coefficient of Utilization

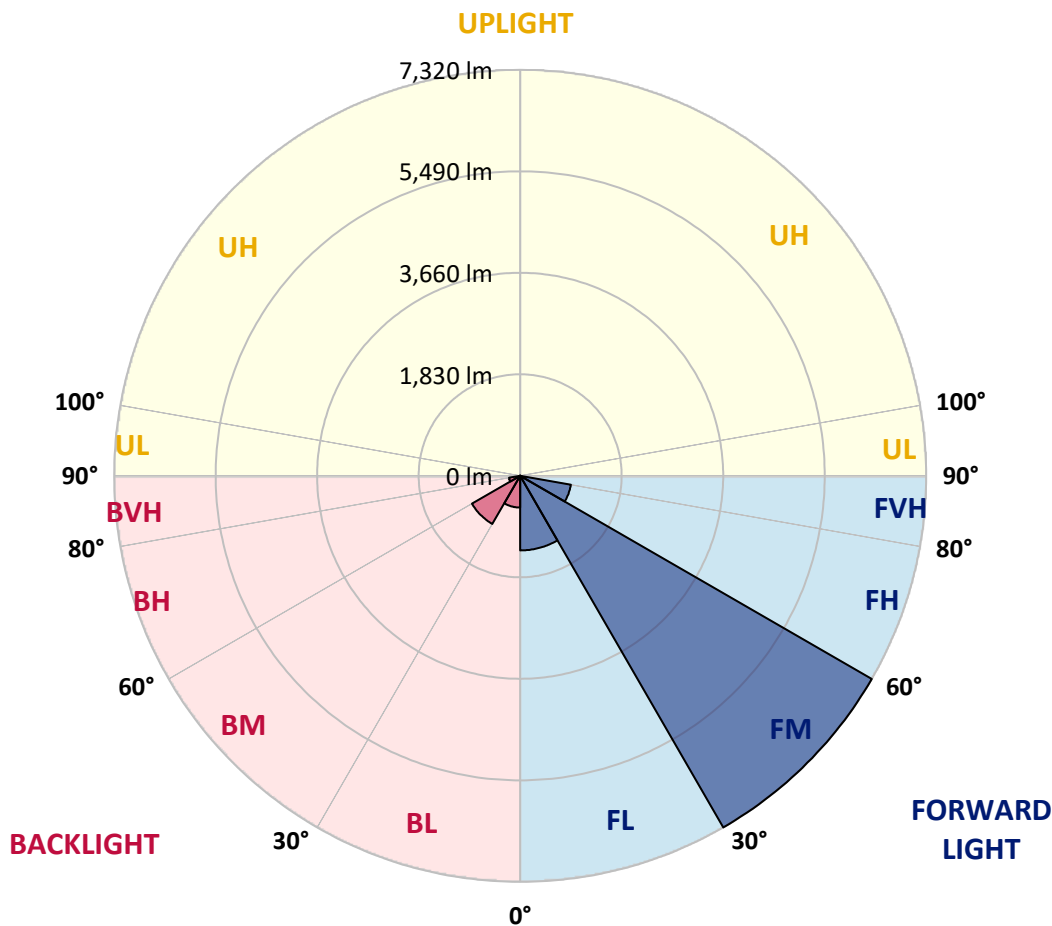


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1345.0 | 11.8 | | | |
| FM (30°-60°) | 7320.0 | 64.3 | | | |
| FH (60°-80°) | 928.6 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 9.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 572.6 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1003.0 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 204.2 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.0 | 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° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 |
| 2.5° | 2184.1 | 2133.7 | 2135.8 | 2131.6 | 2125.3 | 2102.2 | 2032.9 | 2022.4 | 1976.2 | 1963.6 | 1921.6 |
| 5° | 2446.6 | 2402.5 | 2427.7 | 2389.9 | 2354.2 | 2333.2 | 2219.8 | 2167.3 | 2093.8 | 2066.5 | 2007.7 |
| 7.5° | 2610.4 | 2589.4 | 2581.0 | 2583.1 | 2549.5 | 2497.0 | 2446.6 | 2331.1 | 2232.4 | 2211.4 | 2087.5 |
| 10° | 2690.2 | 2677.6 | 2690.2 | 2683.9 | 2698.6 | 2704.9 | 2616.7 | 2547.4 | 2402.5 | 2366.8 | 2173.6 |
| 12.5° | 2709.1 | 2734.3 | 2744.8 | 2772.1 | 2807.8 | 2868.7 | 2862.4 | 2767.9 | 2574.7 | 2551.6 | 2305.9 |
| 15° | 2755.3 | 2776.3 | 2765.8 | 2809.9 | 2877.1 | 2980.0 | 3034.6 | 3019.9 | 2812.0 | 2770.0 | 2459.2 |
| 17.5° | 2797.3 | 2759.5 | 2795.2 | 2883.4 | 2950.6 | 3108.1 | 3240.4 | 3301.3 | 3070.3 | 3022.0 | 2599.9 |
| 20° | 2854.0 | 2843.5 | 2837.2 | 2881.3 | 3001.0 | 3211.0 | 3473.6 | 3584.9 | 3360.1 | 3309.7 | 2801.5 |
| 22.5° | 3026.2 | 3028.3 | 3024.1 | 2959.0 | 3045.1 | 3282.4 | 3677.3 | 3952.4 | 3706.7 | 3664.7 | 3030.4 |
| 25° | 3253.0 | 3225.7 | 3204.7 | 3152.2 | 3141.7 | 3347.5 | 3883.1 | 4401.8 | 4122.5 | 4093.1 | 3278.2 |
| 27.5° | 3492.5 | 3492.5 | 3429.4 | 3381.1 | 3313.9 | 3509.3 | 4072.1 | 4838.6 | 4624.4 | 4584.5 | 3494.6 |
| 30° | 3752.9 | 3767.6 | 3759.2 | 3656.3 | 3614.3 | 3685.7 | 4265.3 | 5397.2 | 5199.8 | 5149.4 | 3851.6 |
| 32.5° | 4137.2 | 4105.7 | 4141.4 | 4055.3 | 3931.4 | 3994.4 | 4569.8 | 5897.1 | 5947.5 | 5876.1 | 4319.9 |
| 35° | 4645.4 | 4626.5 | 4603.4 | 4462.7 | 4315.7 | 4366.1 | 5000.3 | 6512.4 | 6886.2 | 6850.5 | 4792.4 |
| 37.5° | 5101.1 | 5090.6 | 5071.7 | 4975.1 | 4805.0 | 4865.9 | 5489.6 | 7152.9 | 7801.8 | 7684.2 | 5460.2 |
| 40° | 5579.9 | 5636.6 | 5575.7 | 5489.6 | 5334.2 | 5468.6 | 6065.1 | 7533.0 | 8572.6 | 8429.8 | 5970.6 |
| 42.5° | 6228.9 | 6184.8 | 6212.1 | 6054.6 | 5970.6 | 6117.6 | 6642.6 | 7913.1 | 9171.1 | 9001.0 | 6512.4 |
| 45° | 6919.8 | 6921.9 | 6848.4 | 6798.0 | 6579.6 | 6739.2 | 6997.5 | 8123.2 | 9647.8 | 9515.5 | 6921.9 |
| 47.5° | 7362.9 | 7360.8 | 7440.6 | 7520.4 | 7295.7 | 7138.2 | 7239.0 | 8322.7 | 9893.5 | 9832.6 | 7071.0 |
| 50° | 7293.6 | 7314.6 | 7417.5 | 7715.7 | 7833.3 | 7621.2 | 7465.8 | 8263.9 | 10004.8 | 9998.5 | 7199.1 |
| 52.5° | 6344.4 | 6413.7 | 6585.9 | 7016.4 | 7608.6 | 7871.1 | 7703.1 | 8373.1 | 10059.4 | 10069.9 | 7390.2 |
| 55° | 4830.2 | 4868.0 | 5195.6 | 5718.5 | 6373.8 | 7272.6 | 7608.6 | 8459.2 | 10101.4 | 10120.3 | 7621.2 |
| 56° | 4189.7 | 4088.9 | 4561.4 | 4933.1 | 5716.4 | 6699.3 | 7369.2 | 8392.0 | 10076.2 | 10221.1 | 7736.7 |
| 57.5° | 3162.7 | 3095.5 | 3477.8 | 3941.9 | 4695.8 | 5733.2 | 6625.8 | 8074.8 | 9906.1 | 9904.0 | 7570.8 |
| 60° | 1923.7 | 1856.5 | 2150.5 | 2423.5 | 2845.6 | 3530.3 | 4477.4 | 6430.5 | 8375.2 | 8551.6 | 6130.2 |
| 62.5° | 1144.5 | 1186.6 | 1476.4 | 1642.3 | 1778.8 | 1850.2 | 2316.4 | 3822.2 | 5588.3 | 5714.3 | 3803.3 |
| 65° | 762.3 | 777.0 | 995.4 | 1268.5 | 1329.4 | 1058.4 | 942.9 | 1547.8 | 2423.5 | 2345.8 | 1568.8 |
| 67.5° | 470.4 | 504.0 | 667.8 | 953.4 | 1056.3 | 772.8 | 447.3 | 577.5 | 667.8 | 667.8 | 453.6 |
| 70° | 285.6 | 302.4 | 445.2 | 648.9 | 724.5 | 497.7 | 325.5 | 325.5 | 321.3 | 315.0 | 270.9 |
| 72.5° | 136.5 | 147.0 | 226.8 | 333.9 | 340.2 | 262.5 | 252.0 | 275.1 | 268.8 | 266.7 | 224.7 |
| 75° | 58.8 | 63.0 | 79.8 | 105.0 | 119.7 | 111.3 | 153.3 | 197.4 | 203.7 | 197.4 | 161.7 |
| 77.5° | 18.9 | 21.0 | 29.4 | 37.8 | 39.9 | 48.3 | 65.1 | 81.9 | 94.5 | 88.2 | 79.8 |
| 80° | 2.1 | 4.2 | 8.4 | 18.9 | 29.4 | 37.8 | 48.3 | 54.6 | 60.9 | 60.9 | 56.7 |
| 82.5° | 2.1 | 2.1 | 8.4 | 16.8 | 27.3 | 35.7 | 46.2 | 52.5 | 60.9 | 63.0 | 58.8 |
| 85° | 0.0 | 2.1 | 6.3 | 14.7 | 23.1 | 23.1 | 21.0 | 21.0 | 14.7 | 14.7 | 14.7 |
| 87.5° | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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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CATALOG NUMBER: GLAN-SA3D-727-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 | 1896.4 |
| 2.5° | 1913.2 | 1909.0 | 1852.3 | 1816.6 | 1797.7 | 1759.9 | 1736.8 | 1720.0 | 1707.4 | 1692.7 | 1694.8 |
| 5° | 1938.4 | 1923.7 | 1829.2 | 1764.1 | 1686.4 | 1644.4 | 1608.7 | 1579.3 | 1560.4 | 1556.2 | 1547.8 |
| 7.5° | 2009.8 | 1932.1 | 1789.3 | 1671.7 | 1573.0 | 1531.0 | 1499.5 | 1480.6 | 1489.0 | 1470.1 | 1484.8 |
| 10° | 2064.4 | 1948.9 | 1741.0 | 1570.9 | 1472.2 | 1440.7 | 1423.9 | 1438.6 | 1459.6 | 1451.2 | 1440.7 |
| 12.5° | 2131.6 | 1965.7 | 1663.3 | 1474.3 | 1381.9 | 1358.8 | 1388.2 | 1415.5 | 1457.5 | 1474.3 | 1453.3 |
| 15° | 2207.2 | 1984.6 | 1564.6 | 1363.0 | 1304.2 | 1323.1 | 1373.5 | 1421.8 | 1463.8 | 1484.8 | 1497.4 |
| 17.5° | 2299.6 | 1978.3 | 1468.0 | 1274.8 | 1230.7 | 1285.3 | 1346.2 | 1390.3 | 1453.3 | 1484.8 | 1476.4 |
| 20° | 2385.7 | 1957.3 | 1360.9 | 1186.6 | 1188.7 | 1239.1 | 1289.5 | 1360.9 | 1394.5 | 1436.5 | 1421.8 |
| 22.5° | 2467.6 | 1919.5 | 1249.6 | 1125.6 | 1125.6 | 1203.4 | 1228.6 | 1274.8 | 1304.2 | 1325.2 | 1323.1 |
| 25° | 2583.1 | 1848.1 | 1157.2 | 1066.8 | 1092.0 | 1142.4 | 1163.5 | 1178.2 | 1165.6 | 1182.4 | 1184.5 |
| 27.5° | 2665.0 | 1774.6 | 1081.5 | 1014.3 | 1060.5 | 1098.3 | 1092.0 | 1083.6 | 1054.2 | 1031.1 | 1045.8 |
| 30° | 2753.2 | 1688.5 | 1016.4 | 978.6 | 1003.8 | 1037.4 | 1012.2 | 987.0 | 940.8 | 903.0 | 905.1 |
| 32.5° | 2879.2 | 1648.6 | 959.7 | 936.6 | 970.2 | 974.4 | 947.1 | 909.3 | 863.1 | 827.4 | 825.3 |
| 35° | 3114.4 | 1623.4 | 911.4 | 909.3 | 915.6 | 917.7 | 890.4 | 844.2 | 825.3 | 795.9 | 806.4 |
| 37.5° | 3349.6 | 1610.8 | 877.8 | 869.4 | 867.3 | 869.4 | 837.9 | 793.8 | 829.5 | 827.4 | 831.6 |
| 40° | 3650.0 | 1667.5 | 829.5 | 819.0 | 821.1 | 821.1 | 781.2 | 768.6 | 831.6 | 837.9 | 840.0 |
| 42.5° | 3954.5 | 1738.9 | 798.0 | 764.4 | 772.8 | 772.8 | 751.8 | 737.1 | 781.2 | 739.2 | 732.9 |
| 45° | 4219.1 | 1843.9 | 764.4 | 709.8 | 730.8 | 741.3 | 735.0 | 709.8 | 682.5 | 611.1 | 611.1 |
| 47.5° | 4305.2 | 1936.3 | 724.5 | 657.3 | 674.1 | 720.3 | 701.4 | 648.9 | 600.6 | 541.8 | 537.6 |
| 50° | 4456.4 | 2037.1 | 693.0 | 596.4 | 632.1 | 688.8 | 669.9 | 617.4 | 562.8 | 520.8 | 522.9 |
| 52.5° | 4611.8 | 2152.6 | 634.2 | 525.0 | 569.1 | 663.6 | 663.6 | 604.8 | 520.8 | 491.4 | 487.2 |
| 55° | 4844.9 | 2148.4 | 529.2 | 430.5 | 508.2 | 625.8 | 636.3 | 541.8 | 466.2 | 443.1 | 443.1 |
| 56° | 4878.5 | 2051.8 | 476.7 | 403.2 | 480.9 | 615.3 | 617.4 | 525.0 | 445.2 | 420.0 | 420.0 |
| 57.5° | 4626.5 | 1852.3 | 417.9 | 369.6 | 447.3 | 596.4 | 598.5 | 510.3 | 428.4 | 392.7 | 388.5 |
| 60° | 3559.7 | 1253.8 | 348.6 | 329.7 | 405.3 | 537.6 | 548.1 | 464.1 | 375.9 | 348.6 | 346.5 |
| 62.5° | 2009.8 | 695.1 | 306.6 | 298.2 | 348.6 | 457.8 | 489.3 | 405.3 | 319.2 | 304.5 | 308.7 |
| 65° | 917.7 | 382.2 | 258.3 | 241.5 | 281.4 | 352.8 | 394.8 | 333.9 | 262.5 | 245.7 | 245.7 |
| 67.5° | 336.0 | 260.4 | 220.5 | 191.1 | 197.4 | 228.9 | 256.2 | 216.3 | 174.3 | 149.1 | 155.4 |
| 70° | 239.4 | 218.4 | 193.2 | 165.9 | 153.3 | 149.1 | 147.0 | 121.8 | 86.1 | 67.2 | 71.4 |
| 72.5° | 193.2 | 180.6 | 161.7 | 140.7 | 119.7 | 100.8 | 86.1 | 63.0 | 39.9 | 27.3 | 25.2 |
| 75° | 138.6 | 132.3 | 117.6 | 100.8 | 84.0 | 71.4 | 58.8 | 39.9 | 21.0 | 10.5 | 10.5 |
| 77.5° | 71.4 | 71.4 | 69.3 | 63.0 | 52.5 | 42.0 | 33.6 | 23.1 | 12.6 | 4.2 | 4.2 |
| 80° | 54.6 | 58.8 | 60.9 | 54.6 | 48.3 | 37.8 | 27.3 | 16.8 | 8.4 | 2.1 | 2.1 |
| 82.5° | 52.5 | 60.9 | 65.1 | 56.7 | 48.3 | 35.7 | 27.3 | 16.8 | 8.4 | 2.1 | 2.1 |
| 85° | 12.6 | 12.6 | 18.9 | 21.0 | 27.3 | 29.4 | 23.1 | 14.7 | 6.3 | 2.1 | 2.1 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 2.1 | 2.1 | 2.1 | 2.1 | 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)