

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: P532881

Luminaire Tested: **GLAN-SA8B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31930 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

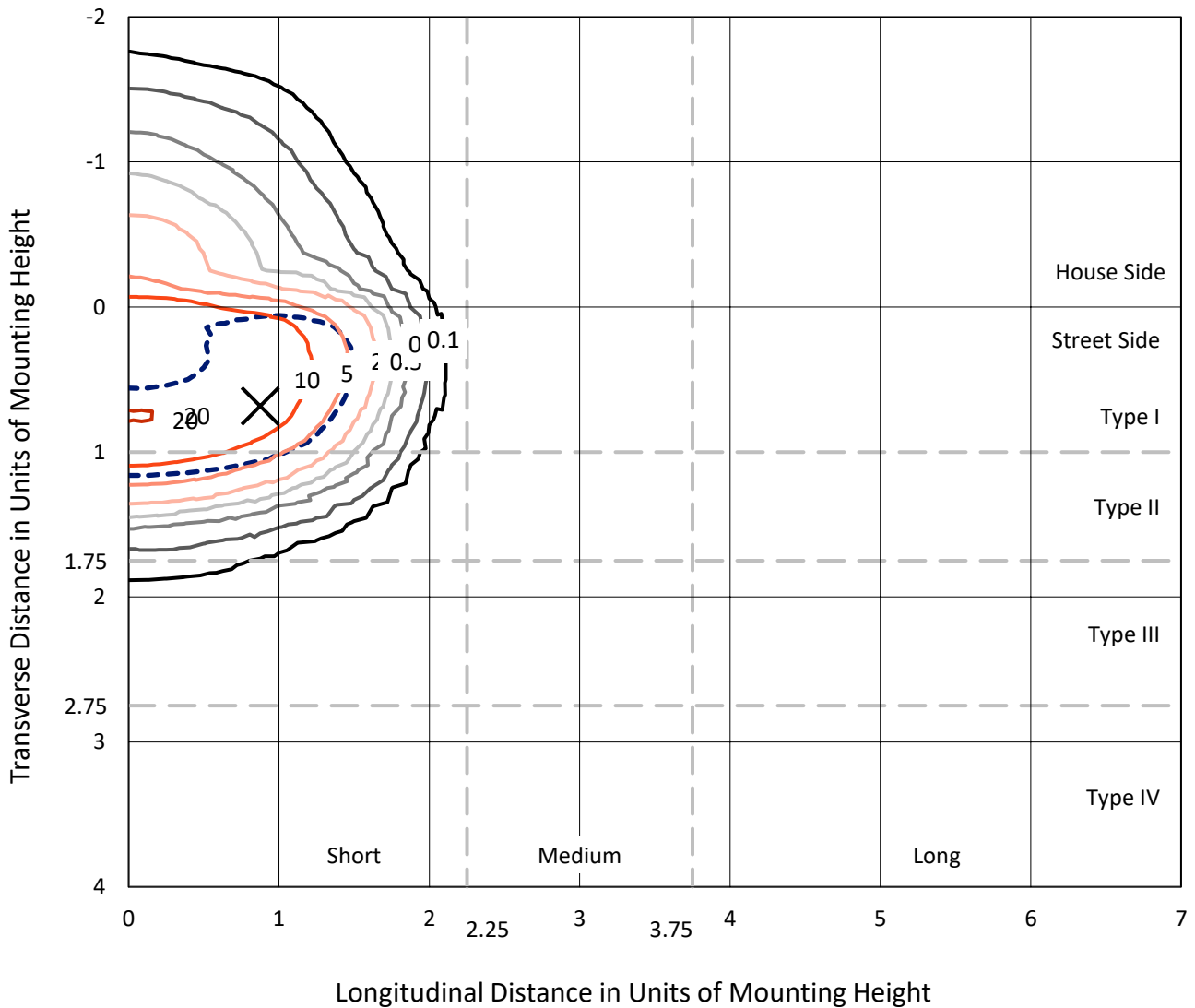
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

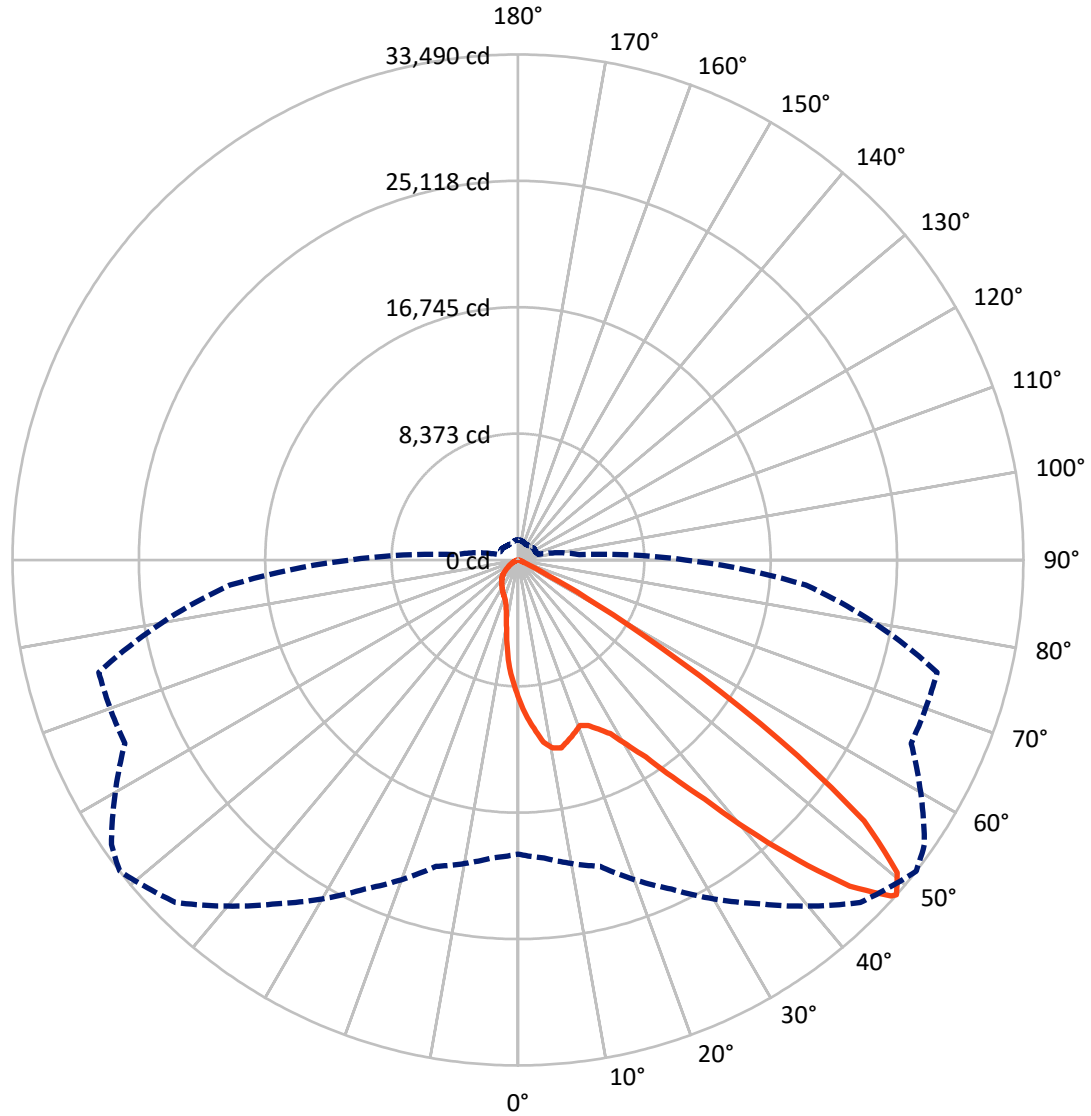
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3887.7 | 0.0 | 3887.7 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 28042.3 | 0.0 | 28042.3 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 31930.0 | 0.0 | 31930.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 844.0 | 2.6 |
| 10°-20° | 2205.6 | 6.9 |
| 20°-30° | 3765.9 | 11.8 |
| 30°-40° | 6934.8 | 21.7 |
| 40°-50° | 10769.8 | 33.7 |
| 50°-60° | 6481.6 | 20.3 |
| 60°-70° | 749.7 | 2.3 |
| 70°-80° | 145.1 | 0.5 |
| 80°-90° | 33.6 | 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° | 31930.0 | 100.0 |
| 0°-180° | 31930.0 | 100.0 |

Coefficient of Utilization



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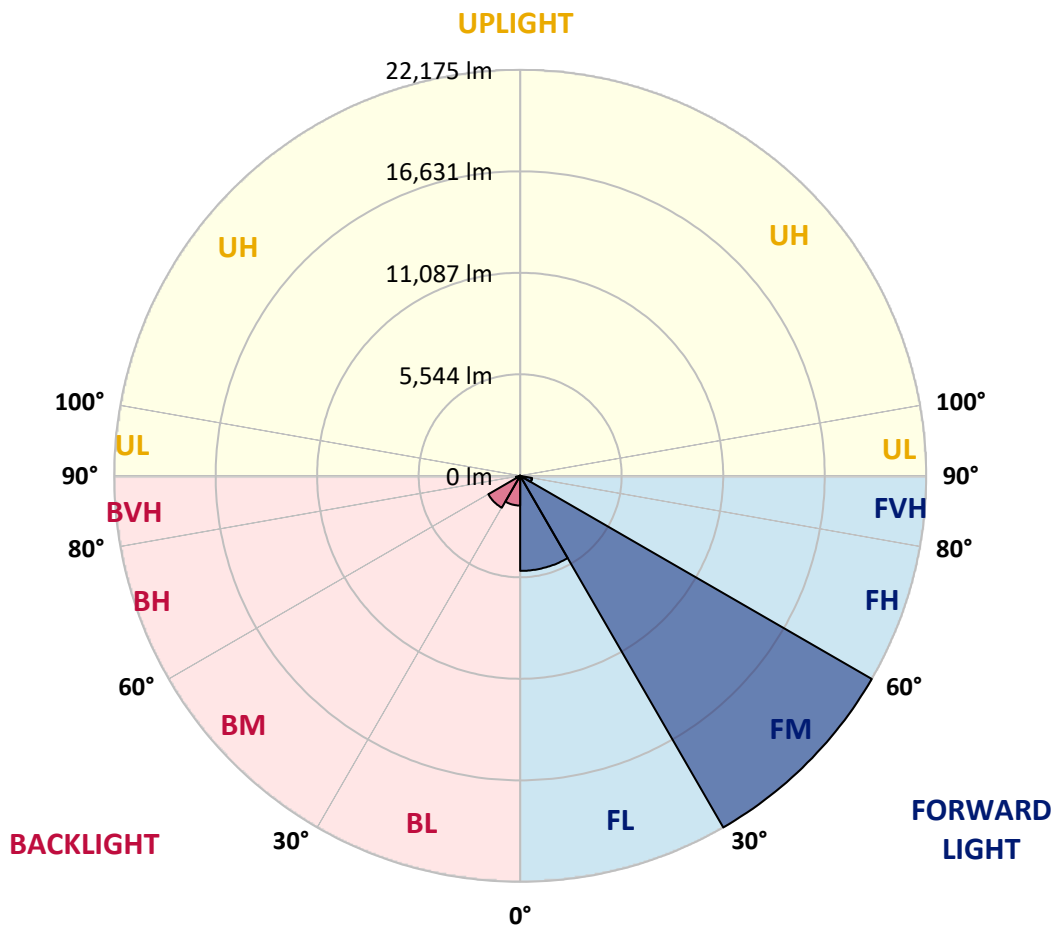
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5191.4 | 16.3 | | | |
| FM (30°-60°) | 22174.8 | 69.4 | | | |
| FH (60°-80°) | 660.1 | 2.1 | | | G1/1800 |
| FVH (80°-90°) | 16.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1624.0 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2011.5 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 234.6 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.6 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 |
| 2.5° | 11175.8 | 10919.8 | 10943.1 | 10775.5 | 10677.8 | 10519.5 | 10305.4 | 10263.5 | 10030.8 | 9714.2 | 9393.1 |
| 5° | 12181.2 | 12120.7 | 12199.8 | 11957.8 | 11967.1 | 11706.4 | 11203.7 | 11213.0 | 10677.8 | 10161.1 | 9663.0 |
| 7.5° | 12246.4 | 12106.7 | 12185.9 | 12400.0 | 12525.7 | 12479.1 | 12195.2 | 11948.5 | 11441.1 | 10682.4 | 9956.3 |
| 10° | 10966.3 | 11231.7 | 11315.4 | 11669.2 | 12171.9 | 12702.5 | 12669.9 | 12683.9 | 12260.3 | 11268.9 | 10207.6 |
| 12.5° | 10198.3 | 10021.5 | 10305.4 | 10519.5 | 11278.2 | 12306.9 | 12777.0 | 12879.4 | 12912.0 | 11836.8 | 10459.0 |
| 15° | 9849.2 | 9849.2 | 9895.8 | 9956.3 | 10505.5 | 11455.1 | 12413.9 | 12711.8 | 13414.7 | 12581.5 | 10854.6 |
| 17.5° | 10068.0 | 10058.7 | 10123.9 | 9998.2 | 10203.0 | 10933.8 | 12078.8 | 12418.6 | 13977.9 | 13312.3 | 11166.5 |
| 20° | 10733.6 | 10766.2 | 10724.3 | 10361.2 | 10375.2 | 10924.5 | 11706.4 | 12241.7 | 14359.6 | 13945.3 | 11580.8 |
| 22.5° | 11659.9 | 11678.5 | 11441.1 | 11045.5 | 10929.1 | 11199.1 | 11920.5 | 12330.2 | 14666.8 | 14704.0 | 11706.4 |
| 25° | 12730.5 | 12656.0 | 12609.4 | 12050.9 | 11697.1 | 11929.9 | 12404.6 | 12642.0 | 14857.6 | 15355.7 | 12064.8 |
| 27.5° | 14215.3 | 14066.3 | 13782.4 | 13284.4 | 13023.7 | 12693.2 | 13033.0 | 13424.0 | 15402.2 | 16268.0 | 12455.8 |
| 30° | 16407.6 | 16277.3 | 15723.4 | 15081.1 | 14396.8 | 14071.0 | 14178.1 | 14392.2 | 16384.4 | 17324.6 | 12972.5 |
| 32.5° | 19707.8 | 19433.1 | 18632.5 | 17408.4 | 16477.4 | 15579.1 | 15551.2 | 15779.2 | 17264.1 | 18786.2 | 13586.9 |
| 35° | 23343.0 | 23259.3 | 22081.6 | 20820.2 | 19018.9 | 17631.8 | 17655.1 | 17776.1 | 18949.1 | 20703.9 | 14392.2 |
| 37.5° | 25758.8 | 26219.6 | 25470.2 | 24115.7 | 22603.0 | 20620.1 | 20117.4 | 20159.3 | 21262.4 | 22975.3 | 15844.4 |
| 40° | 27625.3 | 27234.3 | 27322.8 | 27006.3 | 25972.9 | 24623.1 | 23510.6 | 23291.8 | 23938.8 | 25488.8 | 17287.4 |
| 42.5° | 26810.8 | 26829.4 | 27374.0 | 28123.4 | 28379.4 | 28281.6 | 27145.9 | 26731.6 | 26228.9 | 27546.2 | 18660.5 |
| 45° | 24511.4 | 24990.8 | 25698.3 | 27681.2 | 29422.0 | 31055.8 | 30832.4 | 30143.5 | 27811.5 | 29175.3 | 19451.8 |
| 47.5° | 20843.5 | 20824.9 | 21983.9 | 24562.6 | 28430.6 | 32256.7 | 33271.4 | 32787.3 | 28933.3 | 28993.8 | 19288.9 |
| 48° | 19489.0 | 19824.1 | 21020.4 | 24055.2 | 27802.2 | 32079.8 | 33490.2 | 32880.4 | 28742.4 | 28751.7 | 19149.2 |
| 50° | 14406.1 | 14345.6 | 15835.1 | 19558.8 | 24832.5 | 30143.5 | 32568.6 | 33043.3 | 28737.8 | 27527.6 | 18171.7 |
| 52.5° | 7610.3 | 7871.0 | 8955.5 | 12297.6 | 17557.3 | 24669.6 | 28728.5 | 29468.6 | 27723.1 | 25526.1 | 16766.0 |
| 55° | 3235.0 | 2923.1 | 3756.3 | 5553.0 | 9877.2 | 16482.1 | 21076.2 | 22724.0 | 23440.8 | 22589.0 | 14666.8 |
| 57.5° | 1154.4 | 1261.4 | 1452.2 | 2089.9 | 4151.9 | 9020.7 | 12567.5 | 13847.6 | 16240.1 | 16575.2 | 9993.5 |
| 60° | 740.1 | 754.1 | 814.6 | 958.9 | 1559.3 | 3477.0 | 5962.6 | 6982.0 | 8066.5 | 8327.2 | 4664.0 |
| 62.5° | 572.5 | 577.2 | 605.1 | 628.4 | 740.1 | 1349.8 | 2238.9 | 2653.1 | 2755.6 | 2369.2 | 1224.2 |
| 65° | 479.4 | 484.1 | 493.4 | 493.4 | 526.0 | 633.0 | 782.0 | 861.1 | 837.8 | 828.5 | 693.5 |
| 67.5° | 367.7 | 377.0 | 395.6 | 395.6 | 414.3 | 386.3 | 432.9 | 460.8 | 521.3 | 633.0 | 591.1 |
| 70° | 288.6 | 293.2 | 307.2 | 316.5 | 316.5 | 279.3 | 311.9 | 339.8 | 381.7 | 470.1 | 465.5 |
| 72.5° | 223.4 | 232.7 | 242.0 | 242.0 | 228.1 | 190.8 | 223.4 | 246.7 | 274.6 | 325.8 | 316.5 |
| 75° | 172.2 | 172.2 | 176.9 | 144.3 | 111.7 | 97.7 | 135.0 | 162.9 | 204.8 | 214.1 | 176.9 |
| 77.5° | 46.5 | 51.2 | 46.5 | 41.9 | 46.5 | 69.8 | 88.4 | 102.4 | 130.3 | 130.3 | 116.4 |
| 80° | 0.0 | 4.7 | 14.0 | 27.9 | 46.5 | 65.2 | 79.1 | 88.4 | 102.4 | 111.7 | 107.1 |
| 82.5° | 0.0 | 4.7 | 14.0 | 27.9 | 41.9 | 51.2 | 69.8 | 74.5 | 83.8 | 97.7 | 97.7 |
| 85° | 0.0 | 4.7 | 9.3 | 18.6 | 27.9 | 32.6 | 32.6 | 27.9 | 27.9 | 23.3 | 18.6 |
| 87.5° | 0.0 | 0.0 | 4.7 | 9.3 | 9.3 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| 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° | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 | 9220.9 |
| 2.5° | 9267.4 | 9123.1 | 8904.3 | 8559.9 | 8229.4 | 8015.3 | 7810.5 | 7582.4 | 7456.7 | 7447.4 | 7377.6 |
| 5° | 9379.1 | 9053.3 | 8532.0 | 7940.8 | 7307.8 | 6763.2 | 6214.0 | 5855.5 | 5534.4 | 5357.5 | 5324.9 |
| 7.5° | 9439.6 | 9016.0 | 8173.6 | 7182.1 | 6102.2 | 5213.2 | 4598.8 | 4147.3 | 3970.4 | 3840.1 | 3835.4 |
| 10° | 9565.3 | 8950.9 | 7638.3 | 6176.7 | 4840.8 | 3942.5 | 3518.9 | 3314.1 | 3216.4 | 3179.1 | 3123.3 |
| 12.5° | 9658.4 | 8829.9 | 7089.0 | 5143.4 | 3826.1 | 3267.6 | 3081.4 | 3034.8 | 3039.5 | 3058.1 | 3034.8 |
| 15° | 9788.7 | 8722.8 | 6348.9 | 4221.8 | 3211.7 | 2941.7 | 2941.7 | 2951.0 | 3016.2 | 3025.5 | 3020.9 |
| 17.5° | 9779.4 | 8513.3 | 5585.6 | 3477.0 | 2839.3 | 2802.1 | 2816.1 | 2904.5 | 2946.4 | 2960.4 | 2927.8 |
| 20° | 9891.1 | 8317.9 | 4798.9 | 2969.7 | 2629.9 | 2685.7 | 2778.8 | 2802.1 | 2853.3 | 2862.6 | 2825.4 |
| 22.5° | 9858.5 | 7829.1 | 4068.2 | 2569.4 | 2471.6 | 2578.7 | 2671.8 | 2699.7 | 2685.7 | 2657.8 | 2653.1 |
| 25° | 9798.0 | 7410.2 | 3397.9 | 2304.0 | 2355.3 | 2471.6 | 2560.1 | 2508.9 | 2480.9 | 2485.6 | 2490.2 |
| 27.5° | 9691.0 | 6879.6 | 2844.0 | 2117.9 | 2197.0 | 2369.2 | 2364.6 | 2345.9 | 2373.9 | 2350.6 | 2373.9 |
| 30° | 9672.4 | 6348.9 | 2387.8 | 1950.3 | 2080.6 | 2206.3 | 2215.6 | 2248.2 | 2280.8 | 2238.9 | 2280.8 |
| 32.5° | 9700.3 | 5767.1 | 2062.0 | 1847.9 | 2010.8 | 2015.5 | 2117.9 | 2150.4 | 2127.2 | 2034.1 | 2043.4 |
| 35° | 9914.4 | 5320.3 | 1824.6 | 1792.0 | 1899.1 | 1903.8 | 2001.5 | 1959.6 | 1857.2 | 1801.3 | 1833.9 |
| 37.5° | 10365.9 | 4947.9 | 1712.9 | 1740.8 | 1750.1 | 1810.7 | 1815.3 | 1731.5 | 1740.8 | 1736.2 | 1754.8 |
| 40° | 10943.1 | 4664.0 | 1633.8 | 1694.3 | 1685.0 | 1726.9 | 1559.3 | 1605.9 | 1647.7 | 1661.7 | 1671.0 |
| 42.5° | 11338.7 | 4459.2 | 1582.6 | 1619.8 | 1601.2 | 1526.7 | 1433.6 | 1480.2 | 1512.8 | 1564.0 | 1573.3 |
| 45° | 11515.6 | 4296.2 | 1522.1 | 1489.5 | 1489.5 | 1354.5 | 1317.3 | 1326.6 | 1401.0 | 1456.9 | 1447.6 |
| 47.5° | 11227.0 | 4138.0 | 1415.0 | 1317.3 | 1349.8 | 1238.1 | 1196.2 | 1196.2 | 1275.4 | 1345.2 | 1331.2 |
| 48° | 11115.3 | 4072.8 | 1419.7 | 1280.0 | 1303.3 | 1219.5 | 1177.6 | 1168.3 | 1256.8 | 1321.9 | 1321.9 |
| 50° | 10561.4 | 3830.8 | 1298.6 | 1177.6 | 1131.1 | 1121.8 | 1093.8 | 1103.2 | 1159.0 | 1219.5 | 1219.5 |
| 52.5° | 9481.5 | 3309.5 | 1098.5 | 1010.1 | 926.3 | 982.1 | 996.1 | 977.5 | 1005.4 | 1061.3 | 1056.6 |
| 55° | 7912.9 | 2541.4 | 879.7 | 837.8 | 772.7 | 833.2 | 861.1 | 837.8 | 809.9 | 851.8 | 851.8 |
| 57.5° | 5068.9 | 1368.5 | 702.9 | 712.2 | 647.0 | 707.5 | 730.8 | 674.9 | 623.7 | 656.3 | 651.7 |
| 60° | 2285.4 | 819.2 | 577.2 | 563.2 | 521.3 | 591.1 | 628.4 | 563.2 | 493.4 | 516.7 | 539.9 |
| 62.5° | 856.5 | 581.8 | 437.5 | 428.2 | 418.9 | 484.1 | 502.7 | 451.5 | 381.7 | 395.6 | 400.3 |
| 65° | 628.4 | 512.0 | 349.1 | 316.5 | 335.1 | 381.7 | 372.4 | 321.2 | 274.6 | 274.6 | 283.9 |
| 67.5° | 535.3 | 446.8 | 283.9 | 246.7 | 246.7 | 251.4 | 232.7 | 204.8 | 190.8 | 200.1 | 209.5 |
| 70° | 418.9 | 353.8 | 223.4 | 190.8 | 172.2 | 153.6 | 135.0 | 130.3 | 116.4 | 130.3 | 125.7 |
| 72.5° | 270.0 | 237.4 | 172.2 | 144.3 | 130.3 | 107.1 | 88.4 | 83.8 | 69.8 | 65.2 | 65.2 |
| 75° | 144.3 | 144.3 | 135.0 | 116.4 | 102.4 | 83.8 | 69.8 | 55.9 | 37.2 | 27.9 | 27.9 |
| 77.5° | 102.4 | 111.7 | 121.0 | 111.7 | 93.1 | 69.8 | 55.9 | 37.2 | 18.6 | 9.3 | 9.3 |
| 80° | 97.7 | 111.7 | 121.0 | 107.1 | 93.1 | 69.8 | 51.2 | 27.9 | 14.0 | 4.7 | 4.7 |
| 82.5° | 88.4 | 102.4 | 111.7 | 97.7 | 83.8 | 60.5 | 46.5 | 27.9 | 14.0 | 4.7 | 4.7 |
| 85° | 18.6 | 23.3 | 27.9 | 27.9 | 32.6 | 41.9 | 32.6 | 23.3 | 9.3 | 4.7 | 4.7 |
| 87.5° | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 9.3 | 9.3 | 4.7 | 4.7 | 4.7 |
| 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)