

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: P528468

Luminaire Tested: **GALN-SA3C-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17755 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

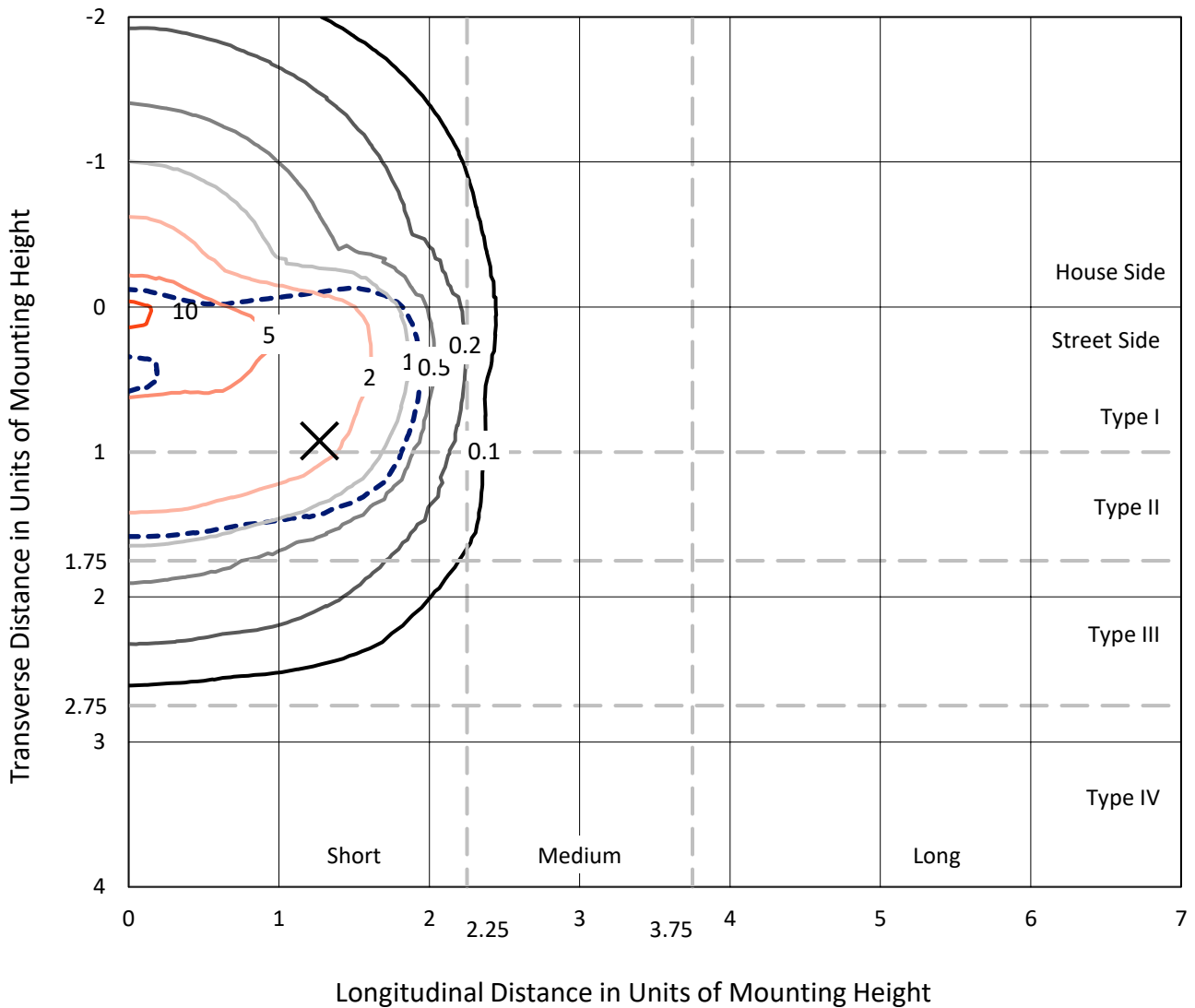
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

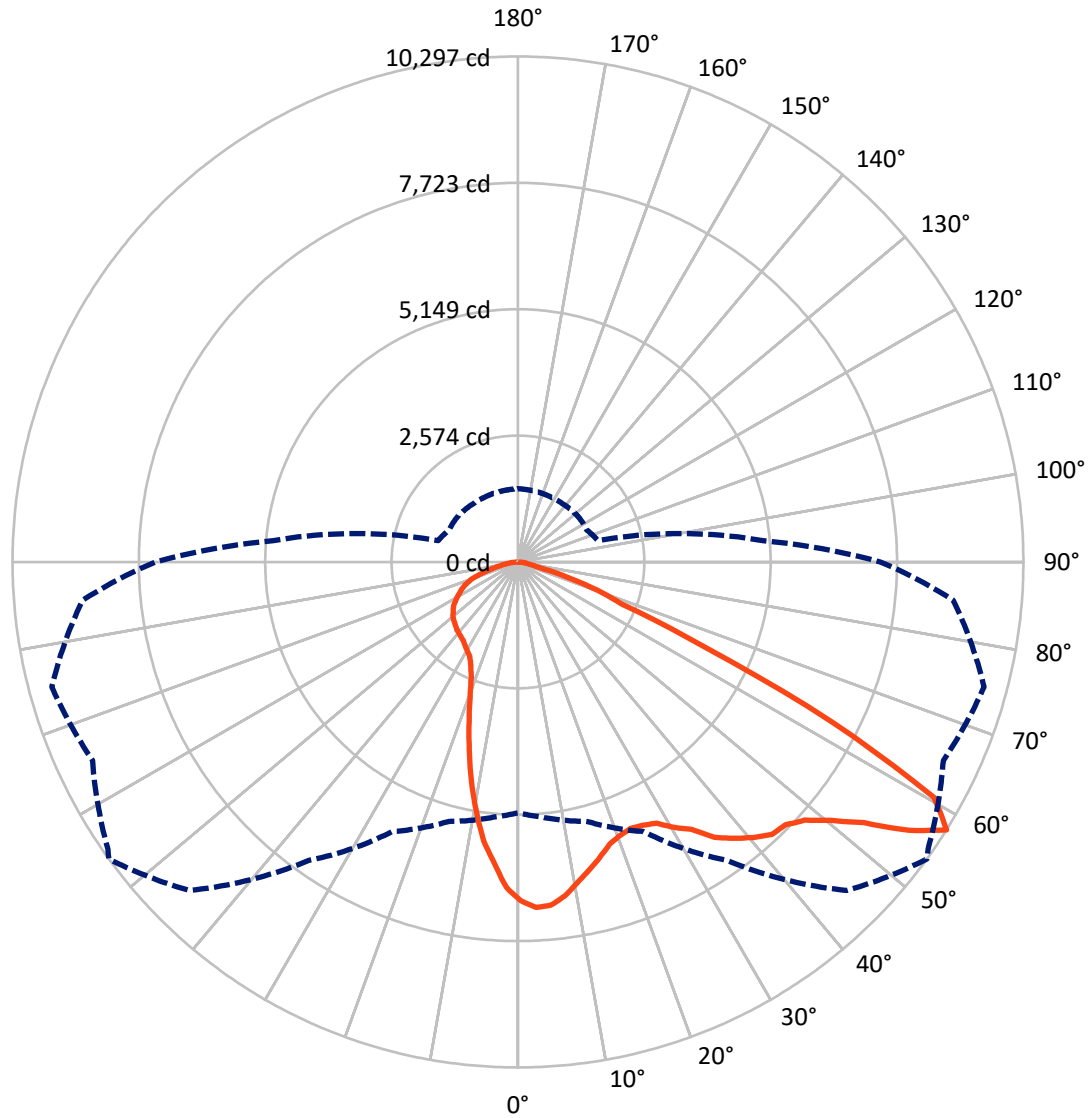
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4912.0 | 0.0 | 4912.0 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 12843.0 | 0.0 | 12843.0 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 17755.0 | 0.0 | 17755.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 595.2 | 3.4 |
| 10°-20° | 1378.0 | 7.8 |
| 20°-30° | 1936.1 | 10.9 |
| 30°-40° | 2706.7 | 15.2 |
| 40°-50° | 3664.4 | 20.6 |
| 50°-60° | 4463.4 | 25.1 |
| 60°-70° | 2324.7 | 13.1 |
| 70°-80° | 595.7 | 3.4 |
| 80°-90° | 90.9 | 0.5 |
| 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° | 17755.0 | 100.0 |
| 0°-180° | 17755.0 | 100.0 |

Coefficient of Utilization



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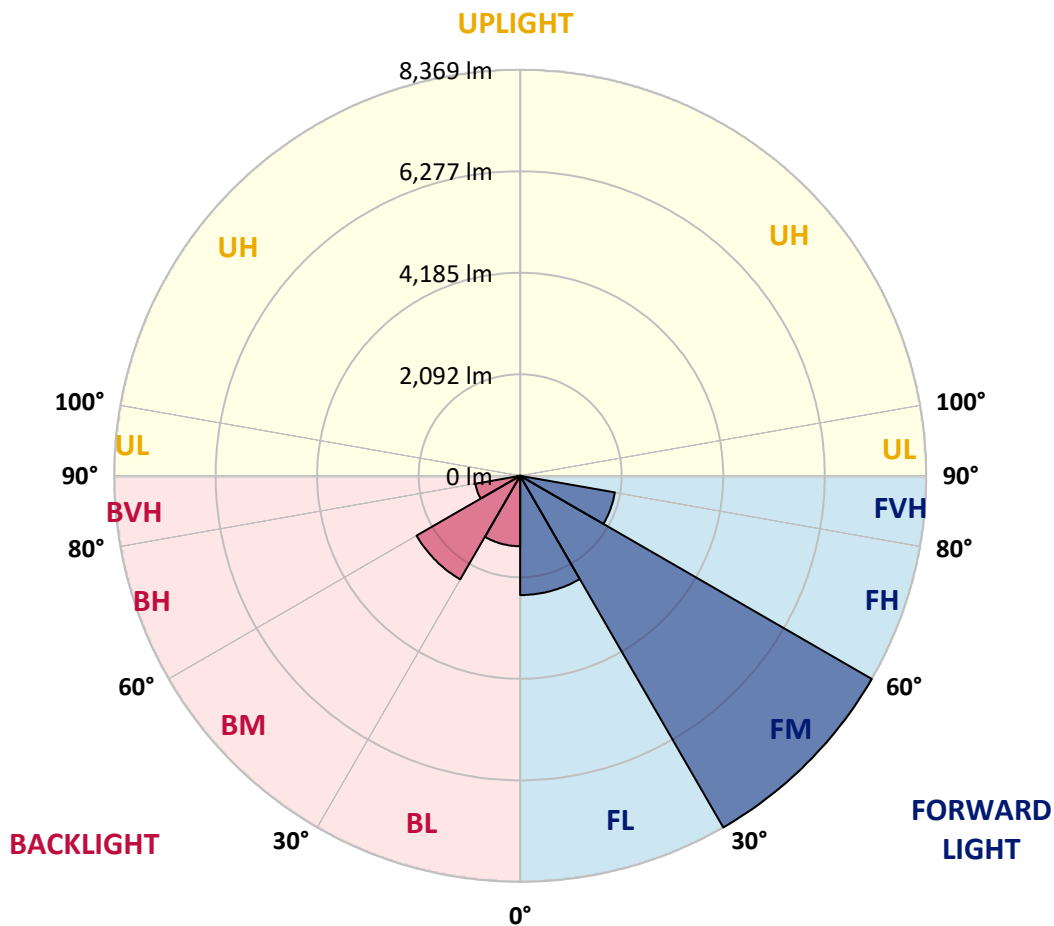
CATALOG NUMBER: GALN-SA3C-740-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2457.5 | 13.8 | | | |
| FM (30°-60°) | 8369.2 | 47.1 | | | |
| FH (60°-80°) | 1981.9 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 34.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1451.8 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 2465.3 | 13.9 | B2/2500 | | |
| BH (60°-80°) | 938.4 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 56.5 | 0.3 | | | 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° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 |
| 2.5° | 7097.4 | 7070.0 | 7074.6 | 7111.1 | 7065.5 | 7047.2 | 7047.2 | 6958.2 | 6965.1 | 6903.4 | 6887.5 |
| 5° | 6933.1 | 6869.2 | 6912.6 | 6967.3 | 6976.5 | 6994.7 | 7024.4 | 7001.6 | 6937.7 | 6871.5 | 6764.2 |
| 7.5° | 6504.1 | 6561.1 | 6577.1 | 6615.9 | 6698.1 | 6773.4 | 6866.9 | 6803.0 | 6800.8 | 6734.6 | 6670.7 |
| 10° | 6127.5 | 6093.3 | 6180.0 | 6237.1 | 6374.0 | 6499.5 | 6643.3 | 6636.4 | 6670.7 | 6595.4 | 6485.8 |
| 12.5° | 5753.3 | 5725.9 | 5766.9 | 5897.0 | 6088.7 | 6271.3 | 6442.5 | 6378.6 | 6561.1 | 6547.4 | 6312.4 |
| 15° | 5356.2 | 5376.7 | 5436.0 | 5557.0 | 5808.0 | 6027.1 | 6243.9 | 6246.2 | 6408.2 | 6463.0 | 6148.1 |
| 17.5° | 5077.7 | 5054.9 | 5130.2 | 5310.5 | 5534.2 | 5796.6 | 6043.1 | 6093.3 | 6342.0 | 6374.0 | 6097.9 |
| 20° | 4870.1 | 4902.0 | 5000.1 | 5091.4 | 5349.3 | 5666.5 | 5945.0 | 5963.2 | 6328.4 | 6415.1 | 6018.0 |
| 22.5° | 4819.9 | 4801.6 | 4833.6 | 4981.9 | 5194.1 | 5538.7 | 5892.5 | 5960.9 | 6326.1 | 6401.4 | 5867.4 |
| 25° | 4767.4 | 4826.7 | 4824.4 | 4972.8 | 5127.9 | 5436.0 | 5935.8 | 6011.1 | 6447.0 | 6472.1 | 5887.9 |
| 27.5° | 4886.0 | 4879.2 | 4943.1 | 4954.5 | 5146.2 | 5463.4 | 6027.1 | 6084.2 | 6647.8 | 6627.3 | 5903.9 |
| 30° | 5004.7 | 4970.5 | 5009.3 | 5143.9 | 5232.9 | 5620.9 | 6278.1 | 6273.6 | 6908.0 | 6894.3 | 5954.1 |
| 32.5° | 5150.8 | 5134.8 | 5159.9 | 5278.6 | 5429.2 | 5830.8 | 6490.4 | 6625.0 | 7172.7 | 7259.5 | 6127.5 |
| 35° | 5178.2 | 5244.3 | 5303.7 | 5463.4 | 5677.9 | 6170.9 | 6889.8 | 7001.6 | 7478.5 | 7750.1 | 6458.4 |
| 37.5° | 5351.6 | 5376.7 | 5515.9 | 5798.9 | 5995.2 | 6625.0 | 7143.1 | 7213.8 | 7757.0 | 8065.1 | 6807.6 |
| 40° | 5536.5 | 5566.1 | 5776.1 | 6072.8 | 6342.0 | 6921.7 | 7380.4 | 7403.2 | 7846.0 | 8307.0 | 7035.8 |
| 42.5° | 5787.5 | 5814.9 | 6022.5 | 6394.5 | 6755.1 | 7175.0 | 7590.4 | 7615.5 | 7839.1 | 8585.4 | 7398.7 |
| 45° | 6047.6 | 6113.8 | 6358.0 | 6780.2 | 7104.3 | 7471.7 | 7638.3 | 7741.0 | 7903.0 | 8834.1 | 7693.1 |
| 47.5° | 6412.8 | 6474.4 | 6675.2 | 7088.3 | 7467.1 | 7731.9 | 7859.7 | 7960.1 | 8055.9 | 9050.9 | 7882.5 |
| 50° | 6800.8 | 6812.2 | 7056.4 | 7430.6 | 7709.0 | 8026.3 | 8272.7 | 8307.0 | 8256.8 | 9302.0 | 8204.3 |
| 52.5° | 7086.0 | 7122.5 | 7311.9 | 7677.1 | 8092.4 | 8482.7 | 8820.4 | 8857.0 | 8758.8 | 9395.5 | 8313.8 |
| 55° | 6613.6 | 6593.1 | 6901.2 | 7387.3 | 8350.3 | 9162.8 | 9653.4 | 9680.8 | 9124.0 | 9685.4 | 8672.1 |
| 57.5° | 5112.0 | 5210.1 | 5472.6 | 6059.1 | 7419.2 | 9464.0 | 10297.0 | 10198.8 | 9562.1 | 9831.4 | 8900.3 |
| 60° | 3715.3 | 3692.5 | 3868.2 | 4260.7 | 5591.2 | 8156.3 | 9735.6 | 9836.0 | 9203.8 | 8861.5 | 7339.3 |
| 62.5° | 3026.1 | 2994.2 | 3007.8 | 3021.5 | 3608.0 | 5413.2 | 7207.0 | 7204.7 | 7088.3 | 6369.4 | 4949.9 |
| 65° | 2419.1 | 2494.4 | 2501.2 | 2603.9 | 2679.2 | 3233.8 | 4176.3 | 4399.9 | 3831.7 | 3142.5 | 2279.8 |
| 67.5° | 1823.4 | 1796.0 | 1887.3 | 2252.5 | 2394.0 | 2334.6 | 2279.8 | 2305.0 | 1638.6 | 1182.1 | 1113.7 |
| 70° | 1074.9 | 1063.5 | 1173.0 | 1570.1 | 1971.8 | 1855.4 | 1718.4 | 1720.7 | 1125.1 | 826.1 | 919.7 |
| 72.5° | 588.8 | 586.5 | 609.3 | 796.5 | 1120.5 | 1163.9 | 1031.5 | 1063.5 | 670.9 | 668.7 | 718.9 |
| 75° | 328.6 | 321.8 | 314.9 | 351.4 | 403.9 | 426.8 | 435.9 | 440.5 | 461.0 | 515.8 | 536.3 |
| 77.5° | 121.0 | 116.4 | 116.4 | 134.6 | 171.2 | 214.5 | 271.6 | 276.1 | 326.3 | 374.3 | 394.8 |
| 80° | 41.1 | 45.6 | 61.6 | 84.4 | 114.1 | 152.9 | 184.9 | 189.4 | 230.5 | 262.4 | 269.3 |
| 82.5° | 25.1 | 27.4 | 41.1 | 59.3 | 82.2 | 107.3 | 136.9 | 139.2 | 171.2 | 191.7 | 200.8 |
| 85° | 11.4 | 13.7 | 22.8 | 36.5 | 52.5 | 70.7 | 73.0 | 73.0 | 70.7 | 73.0 | 68.5 |
| 87.5° | 0.0 | 0.0 | 4.6 | 4.6 | 4.6 | 6.8 | 9.1 | 6.8 | 11.4 | 13.7 | 13.7 |
| 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: GALN-SA3C-740-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 | 6901.2 |
| 2.5° | 6839.5 | 6814.4 | 6736.9 | 6668.4 | 6647.8 | 6556.6 | 6421.9 | 6437.9 | 6339.8 | 6385.4 | 6337.5 |
| 5° | 6746.0 | 6661.5 | 6463.0 | 6378.6 | 6157.2 | 6056.8 | 5988.3 | 5817.2 | 5737.3 | 5721.3 | 5652.8 |
| 7.5° | 6506.4 | 6453.9 | 6205.1 | 5976.9 | 5741.8 | 5541.0 | 5283.1 | 5107.4 | 4981.9 | 4947.7 | 4847.2 |
| 10° | 6316.9 | 6200.6 | 5855.9 | 5509.1 | 5173.6 | 4824.4 | 4489.0 | 4226.5 | 4098.7 | 3950.4 | 3900.2 |
| 12.5° | 6129.8 | 5954.1 | 5488.5 | 5043.5 | 4609.9 | 4169.5 | 3763.2 | 3443.7 | 3165.3 | 3099.1 | 3076.3 |
| 15° | 6013.4 | 5707.6 | 5159.9 | 4623.6 | 4007.4 | 3432.3 | 3026.1 | 2816.2 | 2645.0 | 2574.2 | 2624.5 |
| 17.5° | 5860.5 | 5504.5 | 4845.0 | 4130.7 | 3452.9 | 2923.4 | 2583.4 | 2453.3 | 2391.7 | 2398.5 | 2378.0 |
| 20° | 5668.8 | 5312.8 | 4431.9 | 3683.4 | 2957.6 | 2535.4 | 2341.5 | 2293.5 | 2302.7 | 2318.6 | 2311.8 |
| 22.5° | 5531.9 | 5080.0 | 4132.9 | 3226.9 | 2556.0 | 2320.9 | 2241.1 | 2206.8 | 2236.5 | 2250.2 | 2238.8 |
| 25° | 5426.9 | 4881.5 | 3770.1 | 2823.0 | 2323.2 | 2200.0 | 2163.5 | 2161.2 | 2206.8 | 2225.1 | 2213.7 |
| 27.5° | 5331.1 | 4696.6 | 3409.5 | 2514.9 | 2168.0 | 2106.4 | 2095.0 | 2122.4 | 2152.0 | 2170.3 | 2186.3 |
| 30° | 5274.0 | 4555.1 | 3071.7 | 2257.0 | 2090.4 | 2060.8 | 2040.2 | 2065.3 | 2081.3 | 2099.6 | 2090.4 |
| 32.5° | 5328.8 | 4454.7 | 2745.4 | 2111.0 | 2026.5 | 1996.9 | 2024.3 | 2008.3 | 2035.7 | 2051.6 | 2026.5 |
| 35° | 5499.9 | 4365.7 | 2512.6 | 2033.4 | 1953.5 | 1964.9 | 1969.5 | 1962.6 | 1974.0 | 1960.4 | 1990.0 |
| 37.5° | 5668.8 | 4333.8 | 2298.1 | 1967.2 | 1919.3 | 1919.3 | 1914.7 | 1901.0 | 1923.8 | 1919.3 | 1933.0 |
| 40° | 5883.3 | 4354.3 | 2115.5 | 1896.5 | 1887.3 | 1882.8 | 1864.5 | 1862.2 | 1853.1 | 1855.4 | 1859.9 |
| 42.5° | 6070.5 | 4399.9 | 2010.6 | 1850.8 | 1857.7 | 1866.8 | 1832.6 | 1805.2 | 1816.6 | 1793.8 | 1793.8 |
| 45° | 6269.0 | 4441.0 | 1917.0 | 1818.9 | 1812.0 | 1809.7 | 1782.3 | 1766.4 | 1757.2 | 1759.5 | 1780.1 |
| 47.5° | 6581.7 | 4500.4 | 1846.2 | 1775.5 | 1780.1 | 1745.8 | 1739.0 | 1718.4 | 1727.6 | 1741.3 | 1743.5 |
| 50° | 6803.0 | 4625.9 | 1791.5 | 1725.3 | 1741.3 | 1718.4 | 1677.4 | 1668.2 | 1668.2 | 1691.1 | 1686.5 |
| 52.5° | 6958.2 | 4801.6 | 1739.0 | 1670.5 | 1677.4 | 1659.1 | 1645.4 | 1624.9 | 1611.2 | 1643.1 | 1659.1 |
| 55° | 7432.9 | 5093.7 | 1725.3 | 1624.9 | 1622.6 | 1604.3 | 1579.2 | 1558.7 | 1551.8 | 1556.4 | 1588.4 |
| 57.5° | 7387.3 | 5002.4 | 1681.9 | 1545.0 | 1540.4 | 1515.3 | 1490.2 | 1483.4 | 1481.1 | 1485.7 | 1494.8 |
| 60° | 5997.4 | 3694.8 | 1501.6 | 1453.7 | 1446.9 | 1442.3 | 1417.2 | 1389.8 | 1376.1 | 1389.8 | 1378.4 |
| 62.5° | 3968.6 | 2473.8 | 1323.6 | 1344.2 | 1348.7 | 1337.3 | 1296.3 | 1268.9 | 1273.4 | 1289.4 | 1264.3 |
| 65° | 1948.9 | 1453.7 | 1200.4 | 1255.2 | 1259.7 | 1227.8 | 1189.0 | 1157.0 | 1141.1 | 1154.8 | 1143.3 |
| 67.5° | 1113.7 | 1111.4 | 1100.0 | 1157.0 | 1154.8 | 1122.8 | 1061.2 | 1033.8 | 1006.4 | 1011.0 | 1004.1 |
| 70° | 944.8 | 963.1 | 985.9 | 1020.1 | 1017.8 | 981.3 | 908.3 | 887.7 | 849.0 | 844.4 | 833.0 |
| 72.5° | 744.0 | 775.9 | 826.1 | 851.2 | 830.7 | 785.1 | 737.1 | 702.9 | 668.7 | 648.1 | 655.0 |
| 75° | 552.3 | 597.9 | 625.3 | 641.3 | 609.3 | 584.2 | 545.4 | 504.4 | 463.3 | 445.0 | 438.2 |
| 77.5° | 401.7 | 415.3 | 440.5 | 451.9 | 431.3 | 406.2 | 383.4 | 342.3 | 303.5 | 278.4 | 271.6 |
| 80° | 280.7 | 289.8 | 308.1 | 308.1 | 308.1 | 296.7 | 267.0 | 225.9 | 200.8 | 178.0 | 173.4 |
| 82.5° | 196.3 | 205.4 | 223.6 | 214.5 | 212.2 | 198.5 | 180.3 | 148.3 | 121.0 | 105.0 | 100.4 |
| 85° | 68.5 | 75.3 | 91.3 | 109.5 | 116.4 | 114.1 | 102.7 | 82.2 | 63.9 | 52.5 | 47.9 |
| 87.5° | 16.0 | 16.0 | 18.3 | 16.0 | 16.0 | 18.3 | 16.0 | 16.0 | 16.0 | 11.4 | 9.1 |
| 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)