

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: P530000

Luminaire Tested: **GALN-SA5B-722-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-722-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

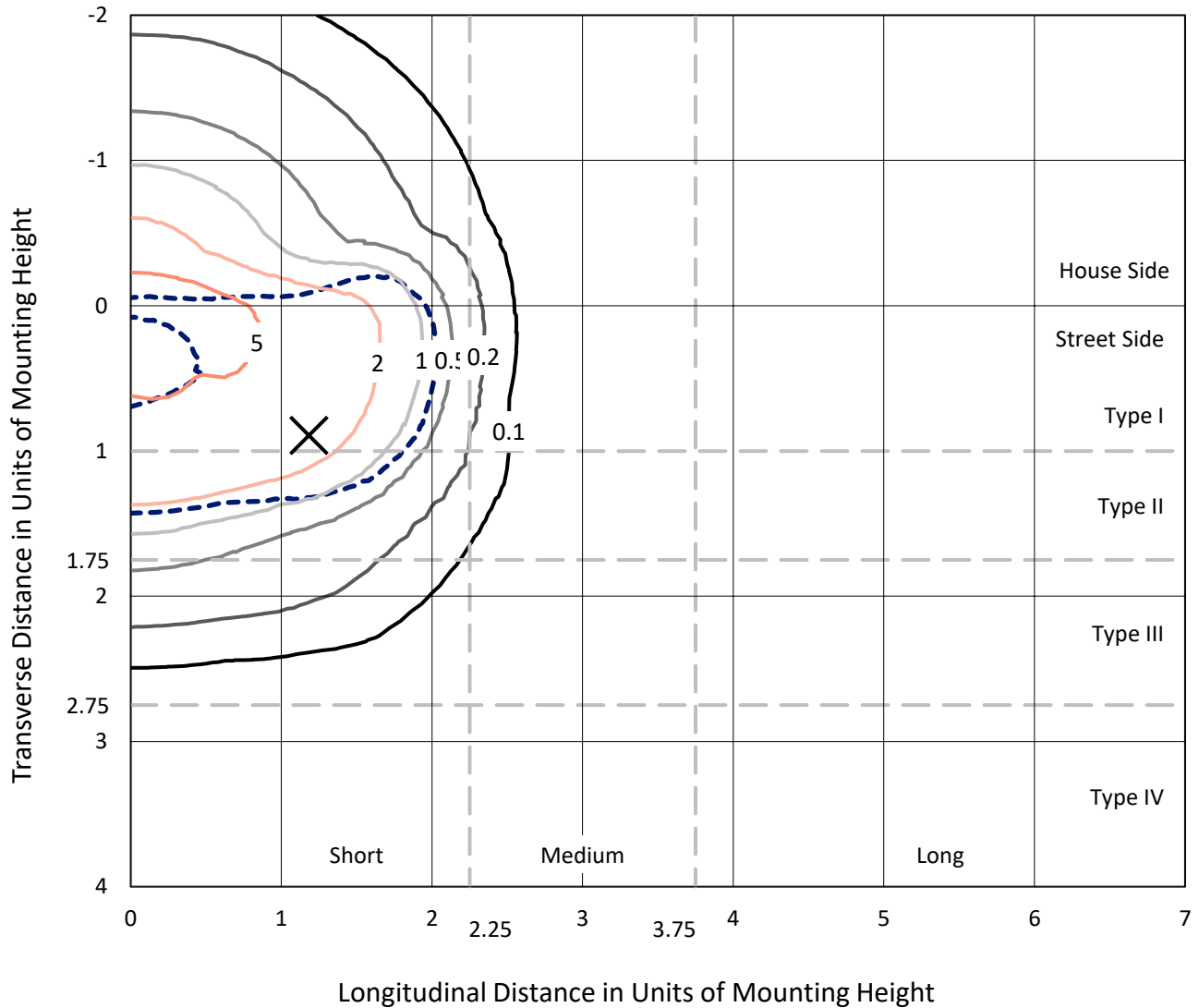
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

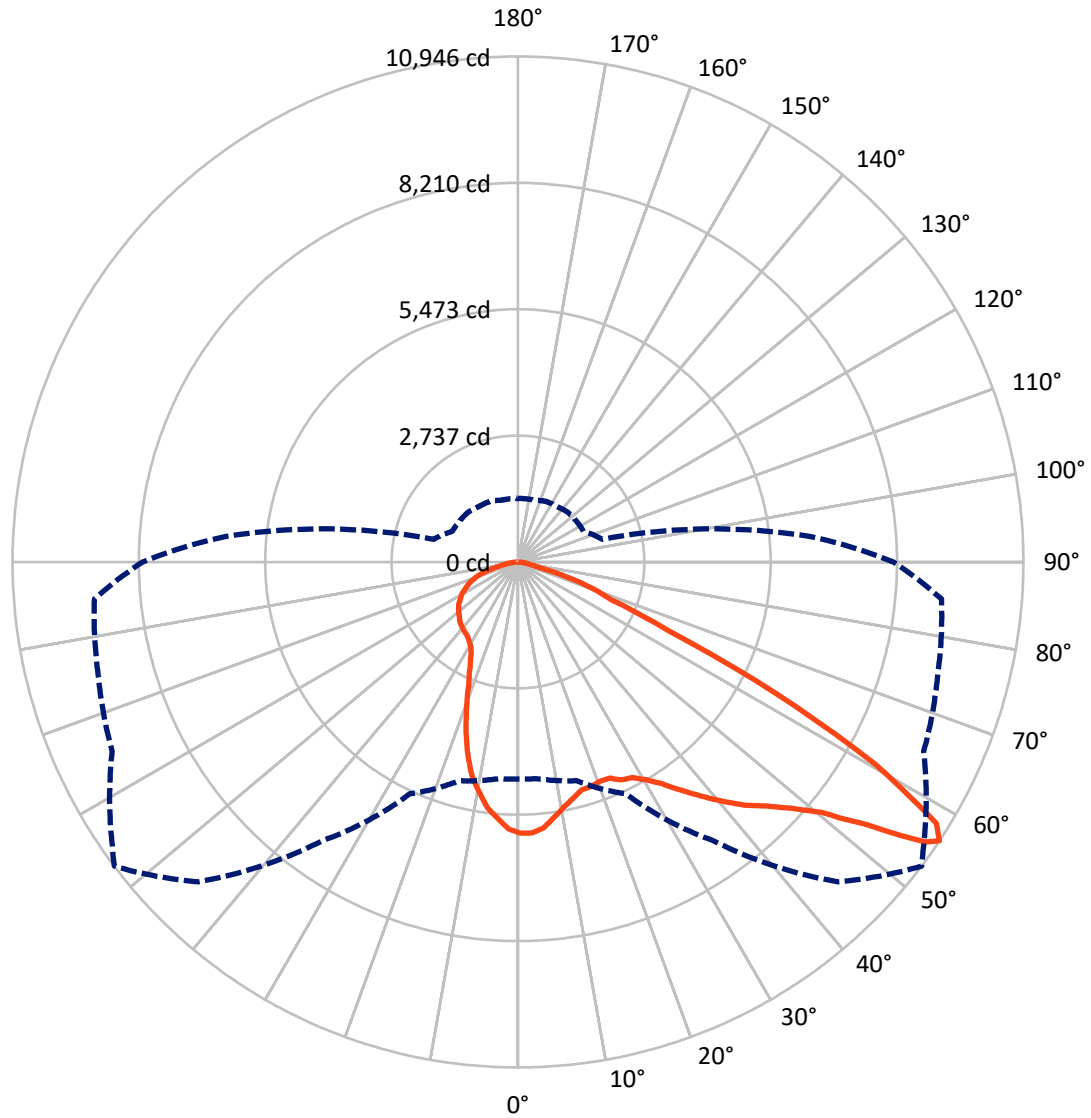
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5181.3 | 0.0 | 5181.3 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 12573.7 | 0.0 | 12573.7 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 17755.0 | 0.0 | 17755.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 520.0 | 2.9 |
| 10°-20° | 1298.8 | 7.3 |
| 20°-30° | 1915.2 | 10.8 |
| 30°-40° | 2736.4 | 15.4 |
| 40°-50° | 3766.3 | 21.2 |
| 50°-60° | 4450.8 | 25.1 |
| 60°-70° | 2372.0 | 13.4 |
| 70°-80° | 601.7 | 3.4 |
| 80°-90° | 93.8 | 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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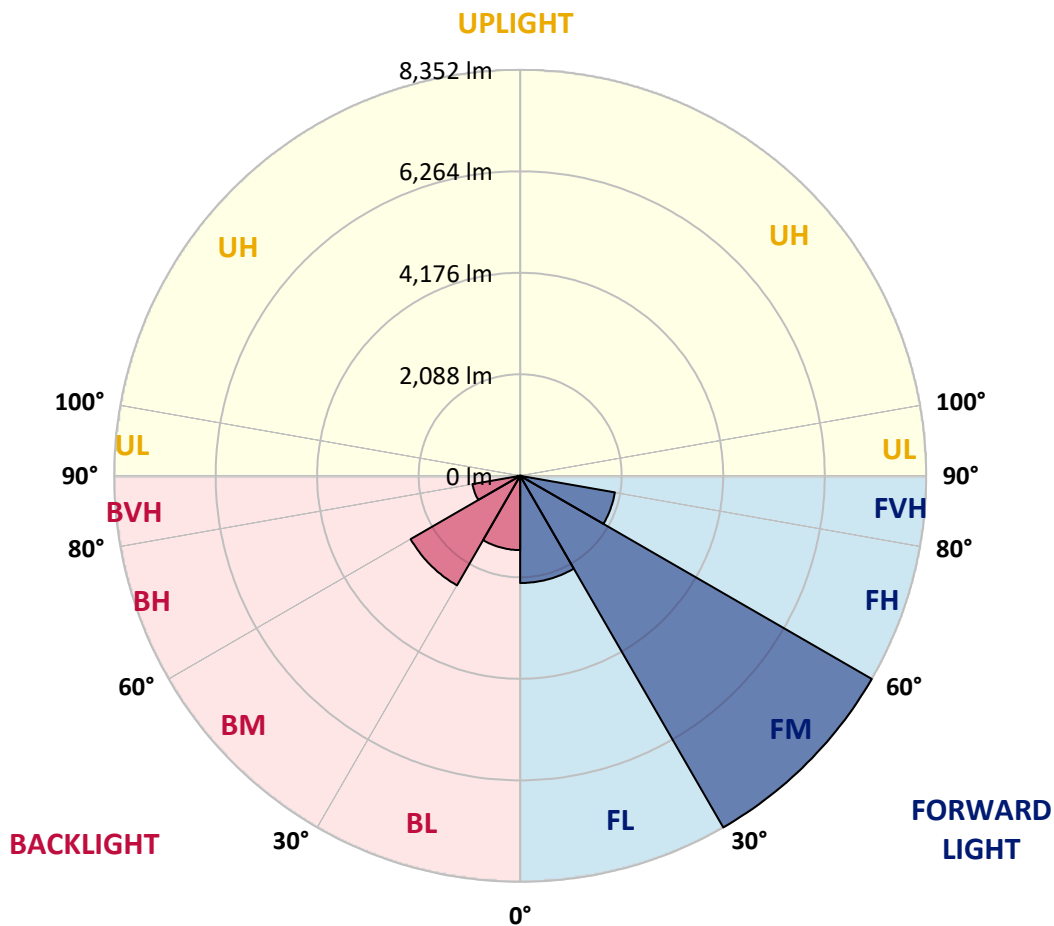
CATALOG NUMBER: GALN-SA5B-722-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2205.8 | 12.4 | | | |
| FM (30°-60°) | 8351.6 | 47.0 | | | |
| FH (60°-80°) | 1978.6 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 37.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1528.2 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 2601.9 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 995.1 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 56.1 | 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° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|
| 0° | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 |
| 2.5° | 5801.2 | 5751.1 | 5780.7 | 5769.3 | 5862.7 | 5890.0 | 5876.3 | 5887.7 | 5940.1 | 5915.1 | 5862.7 |
| 5° | 5420.8 | 5491.4 | 5505.1 | 5539.2 | 5593.9 | 5701.0 | 5785.2 | 5808.0 | 5833.1 | 5949.2 | 5937.8 |
| 7.5° | 5074.6 | 5122.4 | 5097.4 | 5197.6 | 5316.0 | 5489.1 | 5591.6 | 5609.8 | 5839.9 | 5903.7 | 5951.5 |
| 10° | 4855.9 | 4808.1 | 4922.0 | 4949.3 | 5083.7 | 5281.9 | 5404.9 | 5480.0 | 5689.6 | 5942.4 | 5972.0 |
| 12.5° | 4653.2 | 4637.3 | 4705.6 | 4783.1 | 4933.4 | 5138.4 | 5263.6 | 5293.3 | 5616.7 | 5883.2 | 6022.1 |
| 15° | 4502.9 | 4484.7 | 4553.0 | 4610.0 | 4785.3 | 4967.5 | 5127.0 | 5211.3 | 5537.0 | 5849.0 | 5978.8 |
| 17.5° | 4384.5 | 4382.2 | 4420.9 | 4523.4 | 4703.3 | 4855.9 | 5113.3 | 5117.9 | 5496.0 | 5901.4 | 6015.3 |
| 20° | 4377.6 | 4375.4 | 4382.2 | 4496.1 | 4660.1 | 4846.8 | 5070.0 | 5111.0 | 5496.0 | 5864.9 | 6017.5 |
| 22.5° | 4434.6 | 4398.1 | 4439.1 | 4512.0 | 4630.5 | 4862.8 | 5086.0 | 5177.1 | 5628.1 | 6044.9 | 6120.0 |
| 25° | 4525.7 | 4534.8 | 4557.6 | 4582.6 | 4651.0 | 4899.2 | 5227.2 | 5302.4 | 5782.9 | 6199.8 | 6261.3 |
| 27.5° | 4692.0 | 4687.4 | 4696.5 | 4710.2 | 4769.4 | 4933.4 | 5284.1 | 5477.7 | 6106.4 | 6475.4 | 6413.9 |
| 30° | 4935.7 | 4919.7 | 4956.2 | 5004.0 | 4949.3 | 5042.7 | 5473.2 | 5619.0 | 6407.0 | 6753.2 | 6584.7 |
| 32.5° | 5156.6 | 5215.8 | 5284.1 | 5304.6 | 5238.6 | 5256.8 | 5723.7 | 5871.8 | 6657.6 | 7094.9 | 6794.2 |
| 35° | 5432.2 | 5480.0 | 5571.1 | 5634.9 | 5623.5 | 5568.8 | 6065.4 | 6261.3 | 7019.7 | 7345.4 | 7015.2 |
| 37.5° | 5701.0 | 5757.9 | 5908.2 | 6097.3 | 5992.5 | 5967.4 | 6429.8 | 6591.5 | 7131.3 | 7479.8 | 7176.9 |
| 40° | 6133.7 | 6131.4 | 6391.1 | 6489.0 | 6582.4 | 6539.1 | 6807.9 | 6862.6 | 7190.5 | 7450.2 | 7181.4 |
| 42.5° | 6641.6 | 6609.7 | 6873.9 | 7026.5 | 7147.3 | 7151.8 | 7201.9 | 7183.7 | 7217.9 | 7299.9 | 7133.6 |
| 45° | 7124.5 | 7192.8 | 7459.3 | 7732.6 | 7853.3 | 7867.0 | 7534.5 | 7500.3 | 7265.7 | 7256.6 | 7042.5 |
| 47.5° | 7714.4 | 7730.3 | 7949.0 | 8308.9 | 8589.0 | 8493.3 | 7964.9 | 7889.8 | 7475.2 | 7545.8 | 7195.1 |
| 50° | 7748.6 | 7867.0 | 8062.9 | 8486.5 | 9347.5 | 9322.4 | 8523.0 | 8381.7 | 7812.3 | 7955.8 | 7621.0 |
| 52.5° | 7033.4 | 7006.0 | 7238.4 | 7930.8 | 9290.5 | 10146.9 | 9447.7 | 9110.6 | 8536.6 | 8427.3 | 8311.1 |
| 55° | 5359.3 | 5423.1 | 5628.1 | 6327.3 | 8067.4 | 10158.3 | 10707.2 | 10431.6 | 9311.0 | 9124.3 | 8989.9 |
| 56° | 4701.1 | 4710.2 | 4903.8 | 5541.5 | 7361.4 | 9796.2 | 10946.4 | 10723.2 | 9695.9 | 9411.2 | 9206.3 |
| 57.5° | 3897.1 | 3844.7 | 3944.9 | 4293.4 | 6213.4 | 9030.9 | 10684.4 | 10903.1 | 10146.9 | 9721.0 | 9436.3 |
| 60° | 3068.0 | 3056.6 | 3015.6 | 3079.4 | 3926.7 | 6803.3 | 8894.2 | 9386.2 | 10101.4 | 9429.5 | 9037.7 |
| 62.5° | 2505.4 | 2448.5 | 2530.5 | 2621.6 | 2728.6 | 4220.5 | 6249.9 | 6539.1 | 8019.6 | 7527.6 | 6789.7 |
| 65° | 1942.8 | 1915.5 | 2018.0 | 2314.1 | 2377.9 | 2680.8 | 3560.0 | 3783.2 | 4735.2 | 4651.0 | 4095.2 |
| 67.5° | 1337.0 | 1341.5 | 1430.4 | 1881.3 | 2204.8 | 2177.4 | 2179.7 | 2295.9 | 2471.2 | 1835.8 | 1598.9 |
| 70° | 847.3 | 845.0 | 892.8 | 1211.7 | 1774.3 | 1792.5 | 1701.4 | 1667.2 | 1580.7 | 956.6 | 1013.6 |
| 72.5° | 544.4 | 528.4 | 553.5 | 669.6 | 917.9 | 1061.4 | 1093.3 | 1113.8 | 915.6 | 751.6 | 815.4 |
| 75° | 307.5 | 291.5 | 282.4 | 312.0 | 362.1 | 419.1 | 460.1 | 473.8 | 530.7 | 569.4 | 603.6 |
| 77.5° | 93.4 | 84.3 | 102.5 | 136.7 | 179.9 | 241.4 | 293.8 | 302.9 | 357.6 | 403.1 | 437.3 |
| 80° | 41.0 | 45.6 | 63.8 | 91.1 | 127.5 | 170.8 | 207.3 | 220.9 | 257.4 | 291.5 | 300.6 |
| 82.5° | 25.1 | 27.3 | 43.3 | 61.5 | 88.8 | 120.7 | 148.0 | 152.6 | 189.0 | 216.4 | 223.2 |
| 85° | 9.1 | 11.4 | 22.8 | 36.4 | 56.9 | 77.4 | 77.4 | 84.3 | 77.4 | 77.4 | 84.3 |
| 87.5° | 0.0 | 0.0 | 2.3 | 4.6 | 4.6 | 6.8 | 9.1 | 9.1 | 11.4 | 13.7 | 15.9 |
| 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° | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 |
| 2.5° | 5890.0 | 5878.6 | 5860.4 | 5794.3 | 5787.5 | 5767.0 | 5653.1 | 5634.9 | 5653.1 | 5598.5 | 5603.0 |
| 5° | 5878.6 | 5912.8 | 5776.1 | 5710.1 | 5587.1 | 5498.2 | 5395.7 | 5343.4 | 5250.0 | 5190.8 | 5256.8 |
| 7.5° | 5928.7 | 5915.1 | 5744.2 | 5600.7 | 5416.2 | 5190.8 | 5010.8 | 4908.3 | 4744.3 | 4698.8 | 4733.0 |
| 10° | 5910.5 | 5837.6 | 5637.2 | 5448.1 | 5099.7 | 4901.5 | 4610.0 | 4327.5 | 4172.7 | 4092.9 | 4081.5 |
| 12.5° | 5885.4 | 5864.9 | 5530.1 | 5204.4 | 4837.7 | 4420.9 | 4010.9 | 3744.5 | 3491.6 | 3382.3 | 3398.3 |
| 15° | 5915.1 | 5742.0 | 5329.7 | 4917.4 | 4430.0 | 3883.4 | 3441.5 | 3097.6 | 2922.2 | 2851.6 | 2851.6 |
| 17.5° | 5901.4 | 5682.7 | 5234.0 | 4596.3 | 3979.1 | 3332.2 | 2847.1 | 2639.8 | 2566.9 | 2566.9 | 2587.4 |
| 20° | 5908.2 | 5721.5 | 5040.4 | 4275.1 | 3446.1 | 2806.1 | 2453.0 | 2377.9 | 2409.8 | 2421.1 | 2432.5 |
| 22.5° | 5946.9 | 5593.9 | 4851.4 | 3922.1 | 2951.8 | 2400.6 | 2227.5 | 2229.8 | 2286.8 | 2348.3 | 2336.9 |
| 25° | 5994.8 | 5543.8 | 4621.3 | 3571.4 | 2573.7 | 2202.5 | 2147.8 | 2141.0 | 2184.3 | 2216.2 | 2220.7 |
| 27.5° | 5953.8 | 5457.2 | 4386.7 | 3134.0 | 2264.0 | 2070.4 | 2059.0 | 2063.5 | 2077.2 | 2141.0 | 2120.5 |
| 30° | 6088.2 | 5482.3 | 4092.9 | 2767.3 | 2093.2 | 2027.1 | 2013.4 | 2006.6 | 2027.1 | 2045.3 | 2029.4 |
| 32.5° | 6254.4 | 5393.5 | 3874.3 | 2414.3 | 2008.9 | 1995.2 | 1967.9 | 1958.8 | 1970.2 | 1951.9 | 1961.1 |
| 35° | 6327.3 | 5377.5 | 3589.6 | 2161.5 | 1942.8 | 1931.4 | 1915.5 | 1913.2 | 1915.5 | 1899.6 | 1885.9 |
| 37.5° | 6368.3 | 5452.7 | 3263.9 | 2045.3 | 1901.8 | 1913.2 | 1876.8 | 1872.2 | 1831.2 | 1840.3 | 1847.2 |
| 40° | 6438.9 | 5336.5 | 2999.7 | 1933.7 | 1876.8 | 1854.0 | 1822.1 | 1815.3 | 1788.0 | 1772.0 | 1788.0 |
| 42.5° | 6336.4 | 5302.4 | 2740.0 | 1885.9 | 1840.3 | 1815.3 | 1792.5 | 1753.8 | 1744.7 | 1731.0 | 1721.9 |
| 45° | 6254.4 | 5106.5 | 2507.7 | 1826.7 | 1797.1 | 1783.4 | 1740.1 | 1699.1 | 1665.0 | 1678.6 | 1658.1 |
| 47.5° | 6315.9 | 5038.2 | 2277.6 | 1776.6 | 1737.8 | 1721.9 | 1678.6 | 1646.7 | 1612.6 | 1596.6 | 1592.1 |
| 50° | 6561.9 | 5165.7 | 2084.0 | 1740.1 | 1687.7 | 1678.6 | 1621.7 | 1585.2 | 1553.4 | 1542.0 | 1546.5 |
| 52.5° | 7149.5 | 5514.2 | 1951.9 | 1665.0 | 1639.9 | 1598.9 | 1567.0 | 1521.5 | 1501.0 | 1464.5 | 1487.3 |
| 55° | 7894.3 | 6081.3 | 1917.8 | 1594.4 | 1580.7 | 1544.2 | 1501.0 | 1466.8 | 1428.1 | 1398.5 | 1391.6 |
| 56° | 8133.5 | 6352.4 | 1890.4 | 1567.0 | 1544.2 | 1523.7 | 1466.8 | 1446.3 | 1384.8 | 1378.0 | 1373.4 |
| 57.5° | 8327.1 | 6591.5 | 1895.0 | 1514.6 | 1491.9 | 1473.6 | 1439.5 | 1389.4 | 1348.4 | 1323.3 | 1334.7 |
| 60° | 7889.8 | 6170.1 | 1808.5 | 1434.9 | 1430.4 | 1396.2 | 1348.4 | 1325.6 | 1275.5 | 1245.9 | 1239.0 |
| 62.5° | 5864.9 | 4188.6 | 1466.8 | 1332.4 | 1330.1 | 1293.7 | 1239.0 | 1214.0 | 1204.9 | 1163.9 | 1163.9 |
| 65° | 3377.8 | 2626.1 | 1268.6 | 1248.2 | 1229.9 | 1193.5 | 1138.8 | 1118.3 | 1095.5 | 1081.9 | 1070.5 |
| 67.5° | 1441.8 | 1362.0 | 1152.5 | 1150.2 | 1129.7 | 1084.2 | 1029.5 | 997.6 | 968.0 | 940.7 | 954.3 |
| 70° | 1045.4 | 1061.4 | 1040.9 | 1029.5 | 1004.4 | 947.5 | 899.7 | 861.0 | 815.4 | 797.2 | 810.8 |
| 72.5° | 829.1 | 863.2 | 892.8 | 895.1 | 865.5 | 799.5 | 747.1 | 694.7 | 644.6 | 619.5 | 630.9 |
| 75° | 628.6 | 651.4 | 681.0 | 687.8 | 644.6 | 599.0 | 548.9 | 494.2 | 455.5 | 425.9 | 430.5 |
| 77.5° | 453.3 | 448.7 | 476.0 | 471.5 | 451.0 | 419.1 | 373.5 | 323.4 | 280.2 | 252.8 | 255.1 |
| 80° | 309.8 | 316.6 | 332.5 | 330.3 | 305.2 | 284.7 | 250.5 | 209.5 | 177.7 | 154.9 | 150.3 |
| 82.5° | 216.4 | 227.8 | 241.4 | 230.0 | 209.5 | 189.0 | 164.0 | 134.4 | 109.3 | 91.1 | 86.6 |
| 85° | 77.4 | 88.8 | 102.5 | 109.3 | 116.2 | 111.6 | 93.4 | 75.2 | 54.7 | 45.6 | 43.3 |
| 87.5° | 15.9 | 18.2 | 20.5 | 20.5 | 20.5 | 18.2 | 15.9 | 15.9 | 13.7 | 6.8 | 6.8 |
| 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)