

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: P530246

Luminaire Tested: **GALN-SA5C-722-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-722-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22067 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

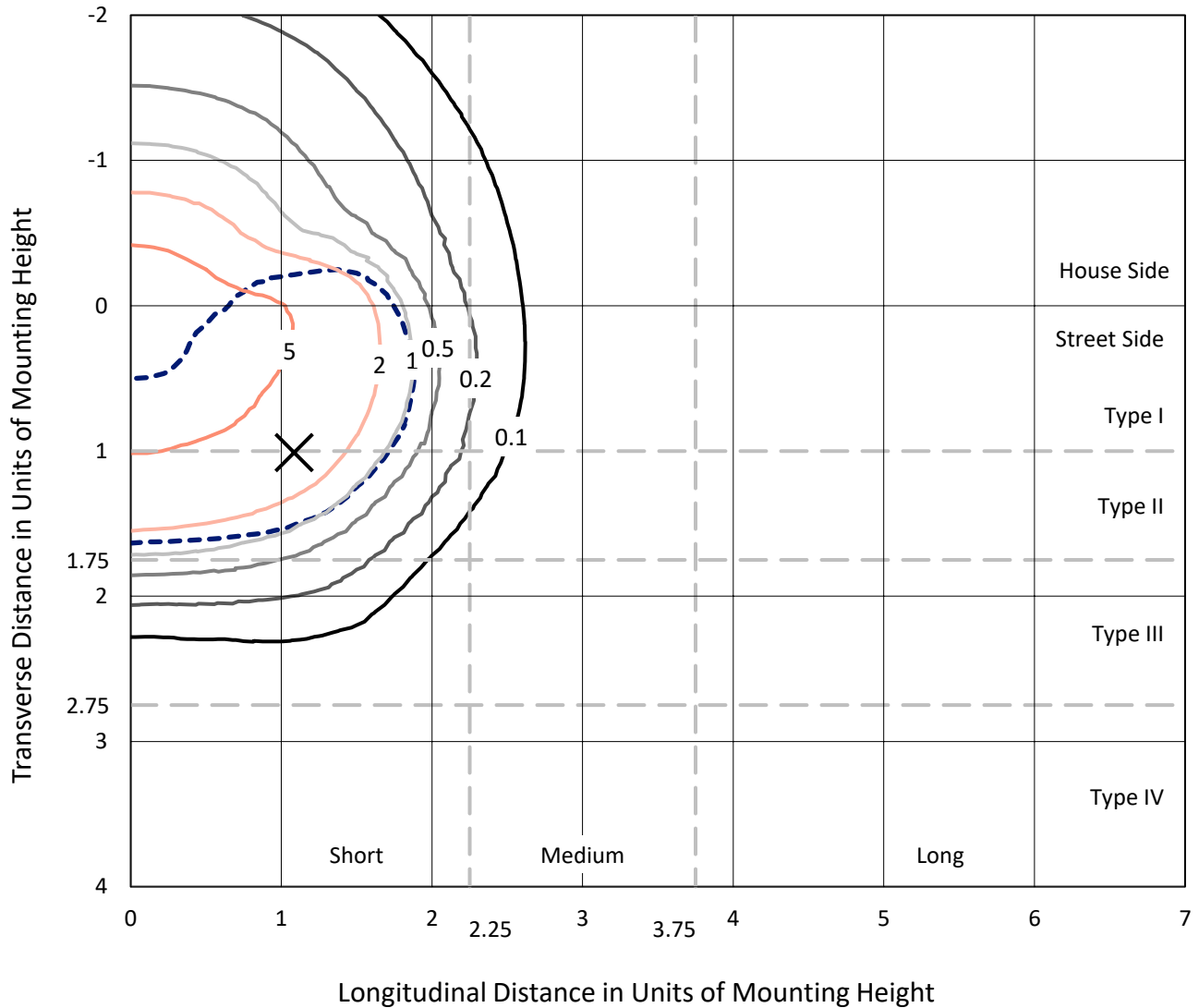
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530246
 CATALOG NUMBER: GALN-SA5C-722-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

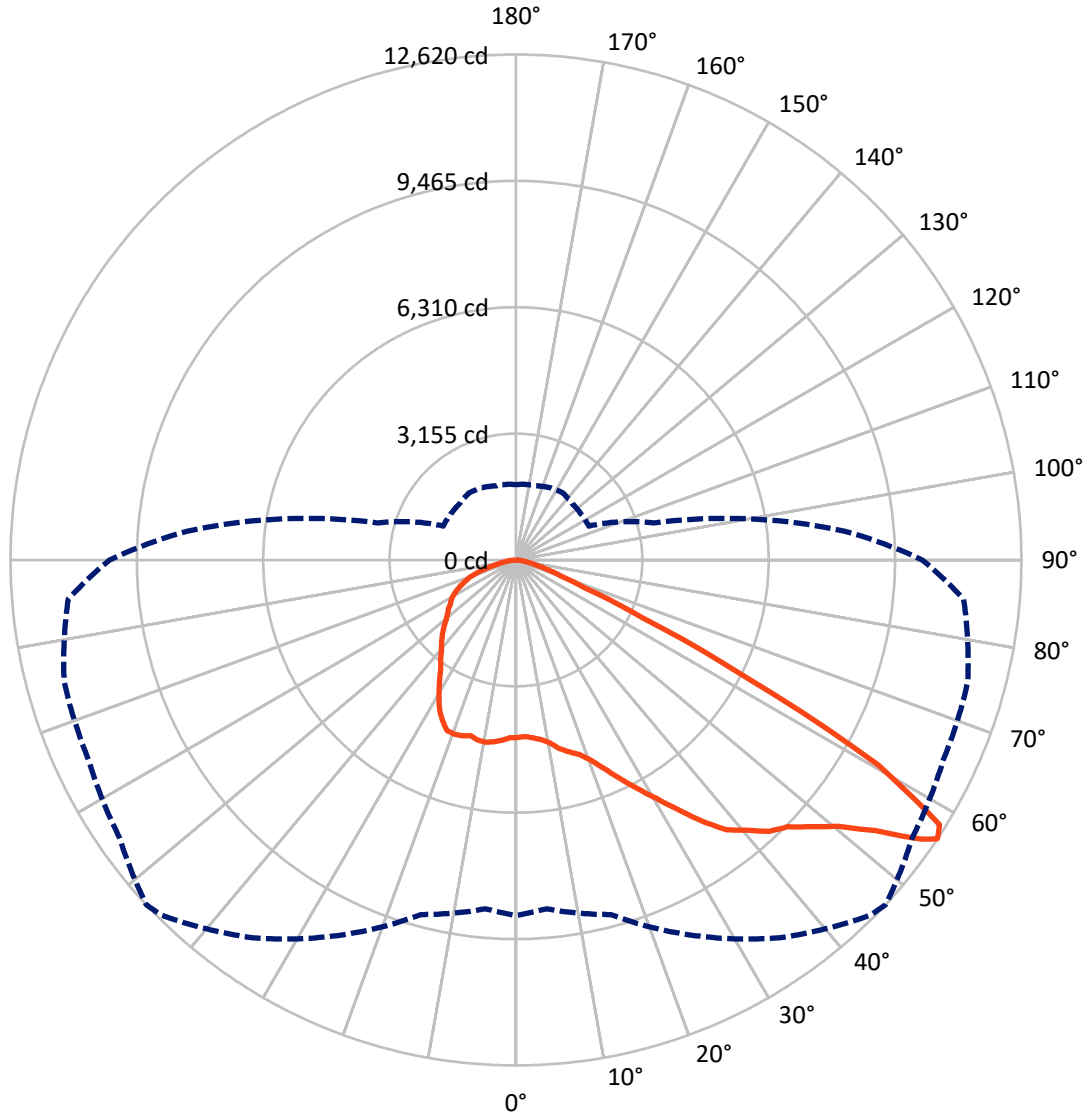
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P530246
CATALOG NUMBER: GALN-SA5C-722-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P530246
 CATALOG NUMBER: GALN-SA5C-722-U-T3-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6992.8 | 0.0 | 6992.8 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 15074.2 | 0.0 | 15074.2 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 22067.0 | 0.0 | 22067.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 431.9 | 2.0 |
| 10°-20° | 1362.4 | 6.2 |
| 20°-30° | 2408.4 | 10.9 |
| 30°-40° | 3617.4 | 16.4 |
| 40°-50° | 4964.5 | 22.5 |
| 50°-60° | 5914.5 | 26.8 |
| 60°-70° | 2531.1 | 11.5 |
| 70°-80° | 716.3 | 3.2 |
| 80°-90° | 120.5 | 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° | 22067.0 | 100.0 |
| 0°-180° | 22067.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P530246

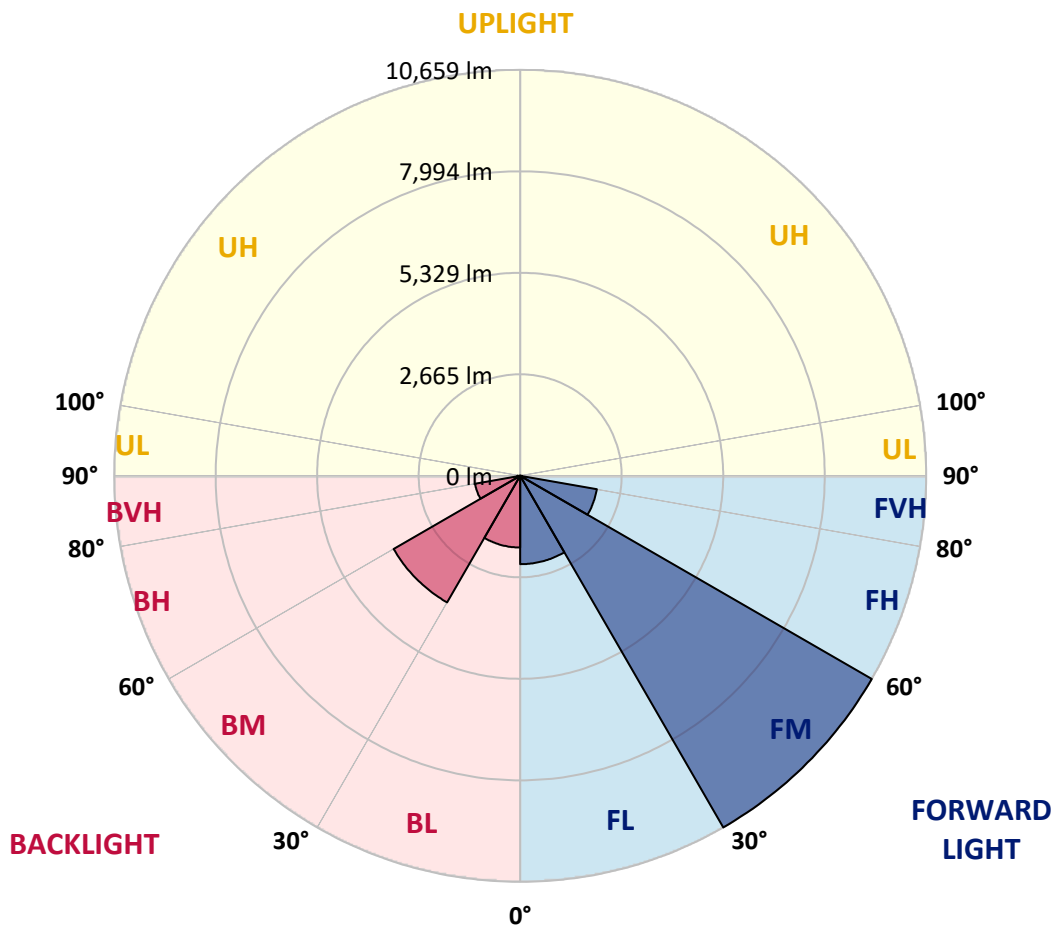
CATALOG NUMBER: GALN-SA5C-722-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2320.0 | 10.5 | | | |
| FM (30°-60°) | 10658.9 | 48.3 | | | |
| FH (60°-80°) | 2044.2 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 51.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1882.7 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 3837.5 | 17.4 | B3/5000 | | |
| BH (60°-80°) | 1203.1 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 69.4 | 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-G3

Type II Short





REPORT NUMBER: P530246

CATALOG NUMBER: GALN-SA5C-722-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 |
| 2.5° | 4415.7 | 4407.3 | 4401.6 | 4446.7 | 4429.8 | 4432.6 | 4415.7 | 4432.6 | 4443.8 | 4418.5 | 4455.1 |
| 5° | 4407.3 | 4432.6 | 4410.1 | 4424.1 | 4460.7 | 4449.5 | 4460.7 | 4494.5 | 4486.1 | 4477.6 | 4466.4 |
| 7.5° | 4486.1 | 4488.9 | 4505.8 | 4511.4 | 4522.6 | 4511.4 | 4528.3 | 4559.2 | 4550.8 | 4502.9 | 4508.6 |
| 10° | 4598.6 | 4604.3 | 4607.1 | 4638.0 | 4657.7 | 4660.6 | 4640.9 | 4612.7 | 4609.9 | 4674.6 | 4629.6 |
| 12.5° | 4728.1 | 4714.0 | 4747.8 | 4759.1 | 4781.6 | 4806.9 | 4832.2 | 4773.1 | 4809.7 | 4812.5 | 4759.1 |
| 15° | 4916.7 | 4930.7 | 4891.3 | 4891.3 | 4899.8 | 4902.6 | 4972.9 | 4944.8 | 4939.2 | 4908.2 | 4930.7 |
| 17.5° | 5198.1 | 5102.4 | 5099.6 | 5060.2 | 5054.6 | 5077.1 | 5102.4 | 5124.9 | 5200.9 | 5139.0 | 5018.0 |
| 20° | 5403.5 | 5426.1 | 5344.4 | 5296.6 | 5305.0 | 5355.7 | 5330.4 | 5431.7 | 5485.2 | 5383.8 | 5265.6 |
| 22.5° | 5766.6 | 5690.6 | 5710.3 | 5603.4 | 5611.8 | 5665.3 | 5662.5 | 5766.6 | 5797.5 | 5637.1 | 5465.5 |
| 25° | 6011.4 | 5991.7 | 6008.6 | 5924.2 | 5935.4 | 5977.7 | 6045.2 | 6216.9 | 6166.2 | 5988.9 | 5592.1 |
| 27.5° | 6368.9 | 6329.5 | 6315.4 | 6284.4 | 6273.2 | 6385.7 | 6464.5 | 6647.5 | 6610.9 | 6352.0 | 5817.2 |
| 30° | 6734.7 | 6709.4 | 6723.5 | 6596.8 | 6641.8 | 6881.1 | 6903.6 | 7154.1 | 7137.2 | 6681.2 | 6067.7 |
| 32.5° | 6988.0 | 7002.1 | 7027.4 | 6957.1 | 7156.9 | 7348.2 | 7424.2 | 7708.5 | 7722.6 | 7246.9 | 6551.8 |
| 35° | 7396.1 | 7348.2 | 7362.3 | 7443.9 | 7536.8 | 7885.8 | 8009.6 | 8198.2 | 8316.4 | 7840.8 | 7016.2 |
| 37.5° | 7652.2 | 7702.9 | 7643.8 | 7773.2 | 8015.2 | 8434.6 | 8547.2 | 8741.3 | 8865.2 | 8426.1 | 7649.4 |
| 40° | 8051.8 | 7970.2 | 8012.4 | 8105.3 | 8353.0 | 8899.0 | 8868.0 | 9067.8 | 9107.2 | 8924.3 | 8240.4 |
| 42.5° | 8482.4 | 8443.0 | 8383.9 | 8595.0 | 8803.3 | 9200.1 | 9262.0 | 9169.1 | 9368.9 | 9411.2 | 9084.7 |
| 45° | 8997.5 | 9045.3 | 9053.7 | 9059.4 | 9242.3 | 9588.5 | 9504.0 | 9422.4 | 9653.2 | 9960.0 | 9608.2 |
| 47.5° | 9475.9 | 9323.9 | 9433.7 | 9585.7 | 9844.6 | 9847.4 | 9945.9 | 9751.7 | 9996.5 | 10269.5 | 10081.0 |
| 50° | 9636.3 | 9563.1 | 9709.5 | 9996.5 | 10396.2 | 10438.4 | 10449.7 | 10173.8 | 10300.5 | 10517.2 | 10244.2 |
| 52.5° | 9574.4 | 9549.1 | 9923.4 | 10368.0 | 10953.4 | 11167.3 | 11223.6 | 10883.1 | 10953.4 | 10854.9 | 10604.4 |
| 55° | 9278.9 | 9354.9 | 9732.0 | 10638.2 | 11536.0 | 12197.4 | 12304.3 | 11873.7 | 11426.2 | 11502.2 | 11226.4 |
| 56° | 8873.6 | 8741.3 | 9163.5 | 10331.5 | 11510.7 | 12532.3 | 12619.5 | 12082.0 | 11778.0 | 11679.5 | 11220.8 |
| 57.5° | 7528.4 | 7356.7 | 7911.1 | 9295.8 | 10871.8 | 12405.6 | 12470.4 | 12169.2 | 11718.9 | 11519.1 | 10401.8 |
| 60° | 4407.3 | 4491.7 | 5195.3 | 6411.1 | 8386.7 | 10171.0 | 10387.7 | 10607.3 | 10306.1 | 9411.2 | 7742.3 |
| 62.5° | 2127.6 | 2074.2 | 2577.9 | 3675.5 | 5110.8 | 6492.7 | 6428.0 | 7044.3 | 7382.0 | 6686.9 | 4888.5 |
| 65° | 1114.5 | 1108.9 | 1407.2 | 2006.6 | 2808.7 | 3411.0 | 3470.1 | 3802.2 | 4266.5 | 3444.8 | 2482.3 |
| 67.5° | 819.0 | 841.5 | 990.6 | 1410.0 | 1806.8 | 1843.4 | 1835.0 | 2001.0 | 2046.0 | 1730.8 | 1525.4 |
| 70° | 641.7 | 652.9 | 762.7 | 1072.3 | 1345.3 | 1204.5 | 1179.2 | 1198.9 | 1331.2 | 1387.5 | 1319.9 |
| 72.5° | 464.4 | 475.6 | 568.5 | 723.3 | 841.5 | 821.8 | 838.7 | 948.4 | 1111.7 | 1170.8 | 1100.4 |
| 75° | 309.6 | 318.0 | 368.7 | 441.9 | 498.1 | 537.5 | 568.5 | 695.1 | 847.1 | 880.9 | 847.1 |
| 77.5° | 213.9 | 222.3 | 256.1 | 312.4 | 318.0 | 343.3 | 354.6 | 413.7 | 506.6 | 548.8 | 526.3 |
| 80° | 121.0 | 121.0 | 137.9 | 160.4 | 197.0 | 230.8 | 236.4 | 284.2 | 326.5 | 354.6 | 360.2 |
| 82.5° | 56.3 | 59.1 | 73.2 | 98.5 | 129.5 | 160.4 | 166.0 | 197.0 | 228.0 | 256.1 | 264.5 |
| 85° | 28.1 | 31.0 | 42.2 | 59.1 | 78.8 | 95.7 | 92.9 | 95.7 | 101.3 | 95.7 | 98.5 |
| 87.5° | 8.4 | 8.4 | 11.3 | 14.1 | 11.3 | 14.1 | 14.1 | 16.9 | 19.7 | 22.5 | 25.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P530246

CATALOG NUMBER: GALN-SA5C-722-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 | 4432.6 |
| 2.5° | 4457.9 | 4466.4 | 4410.1 | 4463.5 | 4443.8 | 4441.0 | 4480.4 | 4474.8 | 4488.9 | 4483.2 | 4449.5 |
| 5° | 4460.7 | 4441.0 | 4500.1 | 4446.7 | 4472.0 | 4525.5 | 4488.9 | 4573.3 | 4531.1 | 4559.2 | 4497.3 |
| 7.5° | 4548.0 | 4553.6 | 4542.3 | 4564.9 | 4553.6 | 4578.9 | 4559.2 | 4578.9 | 4545.2 | 4548.0 | 4604.3 |
| 10° | 4624.0 | 4607.1 | 4626.8 | 4598.6 | 4618.3 | 4609.9 | 4564.9 | 4550.8 | 4562.0 | 4548.0 | 4584.6 |
| 12.5° | 4764.7 | 4733.7 | 4719.7 | 4685.9 | 4663.4 | 4578.9 | 4508.6 | 4469.2 | 4522.6 | 4531.1 | 4514.2 |
| 15° | 4908.2 | 4911.0 | 4846.3 | 4770.3 | 4629.6 | 4502.9 | 4519.8 | 4533.9 | 4533.9 | 4556.4 | 4514.2 |
| 17.5° | 4998.3 | 4998.3 | 4939.2 | 4787.2 | 4643.7 | 4570.5 | 4553.6 | 4508.6 | 4469.2 | 4463.5 | 4460.7 |
| 20° | 5155.9 | 5108.0 | 4972.9 | 4784.4 | 4638.0 | 4604.3 | 4477.6 | 4370.7 | 4289.1 | 4260.9 | 4258.1 |
| 22.5° | 5336.0 | 5215.0 | 5026.4 | 4790.0 | 4629.6 | 4581.8 | 4345.3 | 4184.9 | 4038.6 | 3976.7 | 3985.1 |
| 25° | 5502.0 | 5307.9 | 5057.4 | 4764.7 | 4598.6 | 4367.9 | 4103.3 | 3881.0 | 3729.0 | 3678.3 | 3653.0 |
| 27.5° | 5617.4 | 5406.4 | 5057.4 | 4787.2 | 4483.2 | 4128.6 | 3858.5 | 3574.2 | 3441.9 | 3408.2 | 3413.8 |
| 30° | 5772.2 | 5530.2 | 5144.6 | 4739.4 | 4252.5 | 3819.1 | 3495.4 | 3309.7 | 3230.9 | 3202.7 | 3222.4 |
| 32.5° | 6135.3 | 5853.8 | 5265.6 | 4624.0 | 3979.5 | 3509.5 | 3247.8 | 3143.6 | 3028.2 | 2971.9 | 2952.2 |
| 35° | 6529.3 | 6160.6 | 5383.8 | 4429.8 | 3672.7 | 3228.1 | 3064.8 | 2969.1 | 2831.2 | 2769.3 | 2780.6 |
| 37.5° | 7086.5 | 6554.6 | 5392.3 | 4108.9 | 3340.6 | 3070.4 | 2921.3 | 2772.1 | 2659.6 | 2563.9 | 2535.7 |
| 40° | 7837.9 | 7092.1 | 5372.6 | 3771.2 | 3073.3 | 2884.7 | 2774.9 | 2589.2 | 2462.5 | 2395.0 | 2409.1 |
| 42.5° | 8499.3 | 7722.6 | 5291.0 | 3388.5 | 2831.2 | 2758.1 | 2634.2 | 2451.3 | 2327.5 | 2257.1 | 2251.5 |
| 45° | 9056.6 | 8186.9 | 5136.2 | 3062.0 | 2628.6 | 2617.3 | 2473.8 | 2333.1 | 2234.6 | 2169.9 | 2198.0 |
| 47.5° | 9571.6 | 8561.2 | 4902.6 | 2735.5 | 2442.8 | 2465.4 | 2327.5 | 2240.2 | 2178.3 | 2119.2 | 2116.4 |
| 50° | 9757.3 | 8555.6 | 4697.1 | 2465.4 | 2293.7 | 2282.4 | 2276.8 | 2183.9 | 2119.2 | 2068.5 | 2091.1 |
| 52.5° | 10066.9 | 8651.3 | 4474.8 | 2279.6 | 2158.6 | 2161.4 | 2181.1 | 2113.6 | 2040.4 | 2009.4 | 2037.6 |
| 55° | 10511.6 | 8665.4 | 3985.1 | 2062.9 | 2046.0 | 2065.7 | 2065.7 | 2020.7 | 1958.8 | 1933.5 | 1919.4 |
| 56° | 10148.5 | 8246.0 | 3574.2 | 2006.6 | 1989.7 | 1989.7 | 2043.2 | 1992.6 | 1916.6 | 1896.9 | 1880.0 |
| 57.5° | 9360.5 | 7224.4 | 2991.6 | 1939.1 | 1913.8 | 1953.2 | 1981.3 | 1927.8 | 1857.5 | 1829.3 | 1846.2 |
| 60° | 6456.1 | 4888.5 | 2248.7 | 1792.7 | 1792.7 | 1857.5 | 1880.0 | 1801.2 | 1770.2 | 1767.4 | 1744.9 |
| 62.5° | 3768.4 | 2848.1 | 1759.0 | 1660.5 | 1666.1 | 1719.6 | 1736.4 | 1691.4 | 1652.0 | 1699.9 | 1722.4 |
| 65° | 1998.2 | 1699.9 | 1508.5 | 1519.7 | 1522.6 | 1564.8 | 1637.9 | 1635.1 | 1632.3 | 1646.4 | 1649.2 |
| 67.5° | 1446.6 | 1412.8 | 1370.6 | 1359.3 | 1365.0 | 1395.9 | 1469.1 | 1525.4 | 1522.6 | 1488.8 | 1463.5 |
| 70° | 1289.0 | 1241.1 | 1215.8 | 1218.6 | 1196.1 | 1232.7 | 1291.8 | 1328.4 | 1263.6 | 1224.2 | 1207.4 |
| 72.5° | 1072.3 | 1058.2 | 1041.3 | 1044.1 | 999.1 | 990.6 | 923.1 | 923.1 | 906.2 | 895.0 | 914.7 |
| 75° | 819.0 | 813.3 | 821.8 | 807.7 | 759.9 | 709.2 | 669.8 | 633.2 | 576.9 | 554.4 | 543.2 |
| 77.5° | 517.8 | 534.7 | 554.4 | 523.5 | 503.8 | 467.2 | 427.8 | 391.2 | 346.2 | 320.8 | 320.8 |
| 80° | 351.8 | 365.9 | 379.9 | 374.3 | 351.8 | 318.0 | 287.1 | 247.7 | 216.7 | 197.0 | 194.2 |
| 82.5° | 267.4 | 278.6 | 298.3 | 275.8 | 253.3 | 225.1 | 199.8 | 171.7 | 143.5 | 121.0 | 121.0 |
| 85° | 95.7 | 109.8 | 121.0 | 132.3 | 140.7 | 143.5 | 123.8 | 101.3 | 81.6 | 64.7 | 61.9 |
| 87.5° | 25.3 | 28.1 | 31.0 | 28.1 | 28.1 | 28.1 | 31.0 | 28.1 | 25.3 | 19.7 | 19.7 |
| 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)