

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: P534291

Luminaire Tested: **GALN-SA9D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38205 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

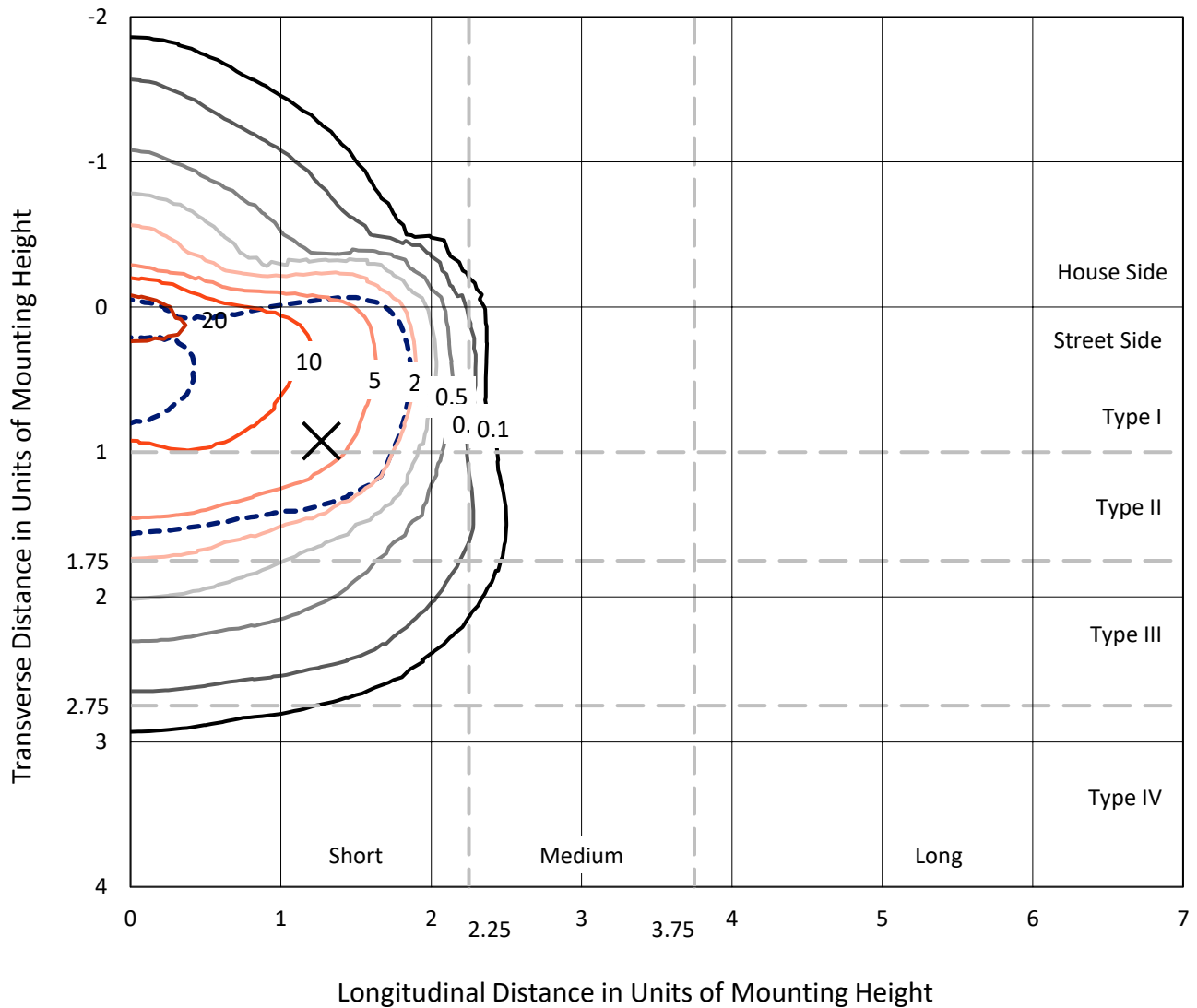
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534291
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Iso-Footcandle Lines of Horizontal Illumination

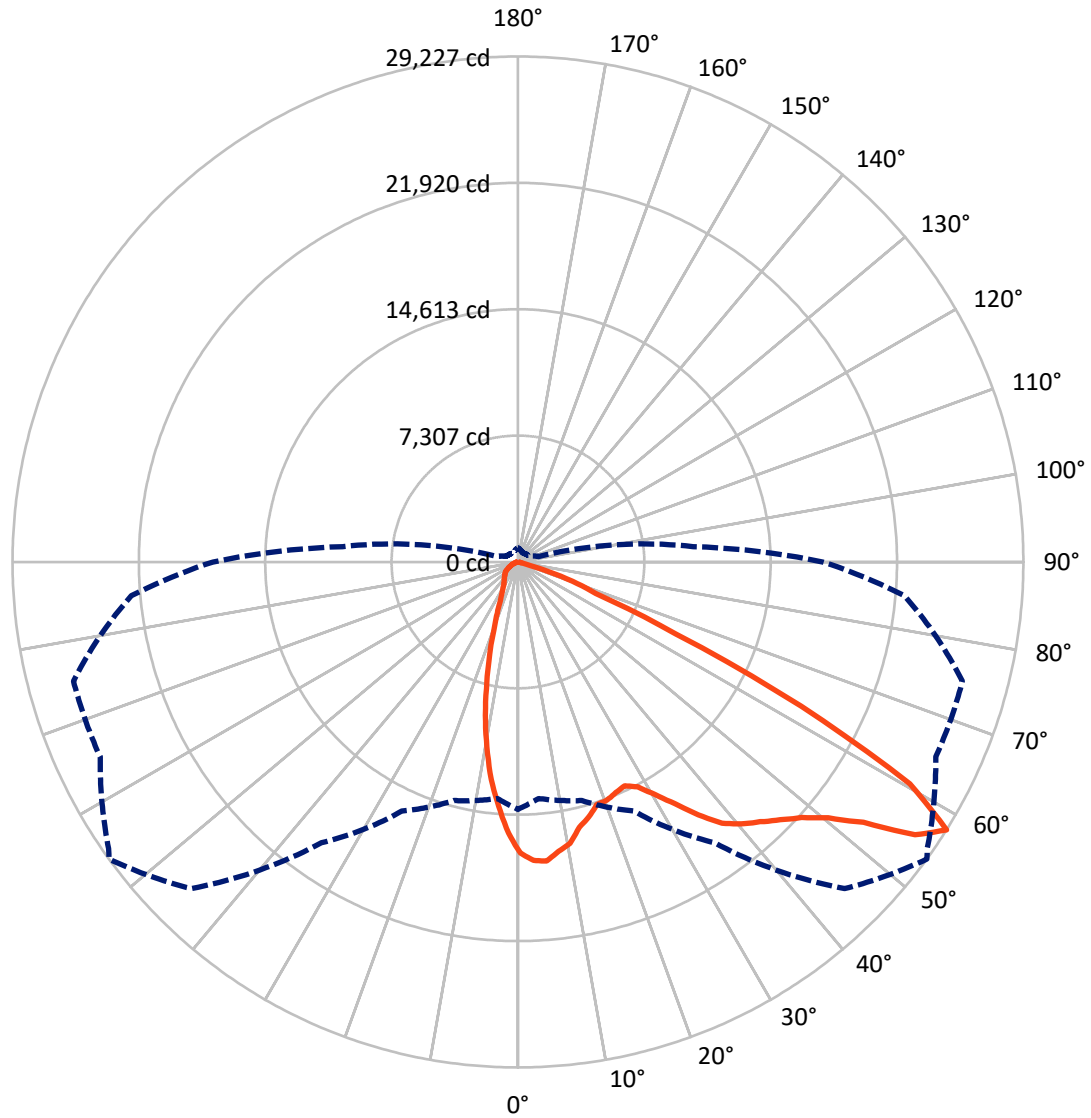
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 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 | 5399.0 | 0.0 | 5399.0 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 32806.0 | 0.0 | 32806.0 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 38205.0 | 0.0 | 38205.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1408.4 | 3.7 |
| 10°-20° | 3006.8 | 7.9 |
| 20°-30° | 3984.6 | 10.4 |
| 30°-40° | 5790.8 | 15.2 |
| 40°-50° | 8586.9 | 22.5 |
| 50°-60° | 10737.6 | 28.1 |
| 60°-70° | 4235.5 | 11.1 |
| 70°-80° | 421.7 | 1.1 |
| 80°-90° | 32.8 | 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° | 38205.0 | 100.0 |
| 0°-180° | 38205.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P534291

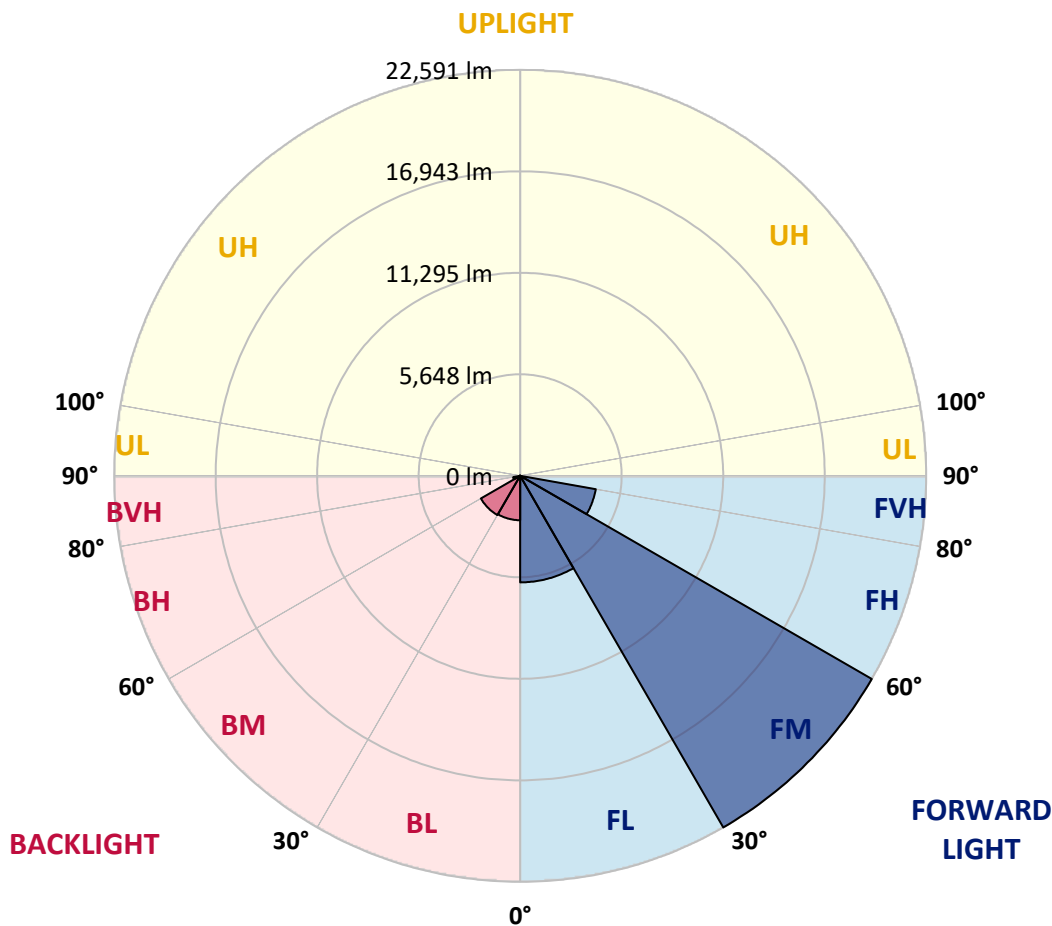
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5930.5 | 15.5 | | | |
| FM (30°-60°) | 22590.5 | 59.1 | | | |
| FH (60°-80°) | 4270.0 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 14.9 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2469.2 | 6.5 | B3/2500 | | |
| BM (30°-60°) | 2524.7 | 6.6 | B3/5000 | | |
| BH (60°-80°) | 387.2 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.9 | 0.0 | | | 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





REPORT NUMBER: P534291

CATALOG NUMBER: GALN-SA9D-735-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 |
| 2.5° | 17810.2 | 17625.5 | 17639.7 | 17575.8 | 17490.5 | 17554.4 | 17277.4 | 17341.3 | 17334.2 | 16957.7 | 16709.0 |
| 5° | 17362.6 | 17561.5 | 17355.5 | 17526.0 | 17362.6 | 17540.2 | 17369.7 | 17241.9 | 17035.8 | 16758.8 | 16297.0 |
| 7.5° | 16602.5 | 16410.7 | 16467.5 | 16680.6 | 16716.1 | 17114.0 | 16900.9 | 17064.3 | 16979.0 | 16432.0 | 15799.7 |
| 10° | 15075.1 | 15032.5 | 15316.6 | 15600.8 | 15948.9 | 16375.1 | 16538.5 | 16446.2 | 16382.3 | 16176.2 | 15330.8 |
| 12.5° | 13902.9 | 14023.7 | 14016.6 | 14485.4 | 15075.1 | 15316.6 | 15742.9 | 15728.7 | 16083.9 | 15700.3 | 14890.4 |
| 15° | 12787.5 | 12851.5 | 13149.8 | 13441.1 | 14094.7 | 14783.8 | 15309.5 | 15380.6 | 15806.8 | 15536.9 | 14549.4 |
| 17.5° | 12105.5 | 12013.2 | 12247.6 | 12595.7 | 13263.5 | 14165.7 | 14748.3 | 14918.8 | 15501.3 | 15444.5 | 14158.6 |
| 20° | 11430.6 | 11430.6 | 11622.4 | 12034.5 | 12645.5 | 13661.3 | 14698.6 | 14648.8 | 15501.3 | 15337.9 | 13739.5 |
| 22.5° | 11203.3 | 11317.0 | 11366.7 | 11679.3 | 12403.9 | 13277.7 | 14485.4 | 14577.8 | 15622.1 | 15288.2 | 13554.8 |
| 25° | 11515.9 | 11366.7 | 11380.9 | 11629.6 | 12311.6 | 13093.0 | 14329.1 | 14535.2 | 15842.3 | 15536.9 | 13405.6 |
| 27.5° | 11565.6 | 11714.8 | 11757.4 | 11927.9 | 12382.6 | 13149.8 | 14719.9 | 15139.0 | 16389.4 | 16119.4 | 13448.2 |
| 30° | 11999.0 | 12148.2 | 12141.1 | 12432.3 | 12744.9 | 13611.6 | 15593.7 | 15678.9 | 17518.9 | 16851.1 | 13711.1 |
| 32.5° | 12524.7 | 12681.0 | 12730.7 | 13071.7 | 13320.3 | 14457.0 | 16659.3 | 16879.5 | 18605.9 | 18002.0 | 14400.2 |
| 35° | 13178.3 | 13121.4 | 13348.8 | 13689.8 | 14222.6 | 15693.1 | 17959.4 | 18328.8 | 19778.1 | 19493.9 | 15110.6 |
| 37.5° | 13995.2 | 13924.2 | 14144.4 | 14698.6 | 15423.2 | 17156.6 | 19160.0 | 19401.5 | 20630.6 | 20879.2 | 16424.9 |
| 40° | 14570.7 | 14599.1 | 15266.9 | 16012.8 | 16780.1 | 18549.0 | 19920.1 | 20154.6 | 21227.3 | 22172.2 | 17419.5 |
| 42.5° | 15529.8 | 15707.4 | 16510.1 | 17419.5 | 18222.2 | 19593.3 | 20538.2 | 20765.5 | 21504.4 | 23209.4 | 18762.2 |
| 45° | 16922.2 | 16844.0 | 17732.0 | 18747.9 | 19636.0 | 20680.3 | 21269.9 | 21191.8 | 21667.8 | 24239.5 | 19607.6 |
| 47.5° | 18712.4 | 18726.6 | 19316.3 | 20183.0 | 21106.5 | 21625.1 | 22086.9 | 21809.9 | 22008.8 | 25326.4 | 20737.1 |
| 50° | 19934.3 | 20040.9 | 20516.9 | 21404.9 | 21866.7 | 22662.4 | 23252.0 | 23081.5 | 23017.6 | 25980.0 | 21447.5 |
| 52.5° | 20246.9 | 20566.6 | 20822.4 | 21930.6 | 23010.5 | 24267.9 | 25020.9 | 25383.3 | 24246.6 | 26200.2 | 22349.8 |
| 55° | 17888.3 | 18172.5 | 19074.7 | 20595.0 | 23443.8 | 26811.2 | 27848.4 | 27855.5 | 25852.1 | 27180.6 | 22982.0 |
| 57.5° | 14300.7 | 13725.3 | 14279.4 | 15892.1 | 19820.7 | 26704.6 | 29226.6 | 28892.7 | 26654.9 | 26605.2 | 22435.0 |
| 60° | 9889.0 | 9746.9 | 9782.5 | 10421.8 | 13718.2 | 21241.5 | 26043.9 | 26477.3 | 24545.0 | 23060.2 | 17760.5 |
| 62.5° | 7835.9 | 7715.1 | 7558.9 | 7487.8 | 8517.9 | 13235.1 | 18371.4 | 18982.4 | 17163.7 | 14954.3 | 10528.4 |
| 65° | 6138.0 | 6067.0 | 6088.3 | 6372.5 | 6365.4 | 7509.1 | 10045.3 | 9796.7 | 7843.0 | 5797.0 | 3310.6 |
| 67.5° | 4141.7 | 4248.3 | 4333.6 | 5193.2 | 5633.6 | 5228.7 | 4852.2 | 4710.1 | 2550.4 | 1072.7 | 731.7 |
| 70° | 2330.2 | 2344.4 | 2436.7 | 3246.6 | 4276.7 | 4056.5 | 3346.1 | 3346.1 | 1271.6 | 390.7 | 419.1 |
| 72.5° | 1271.6 | 1229.0 | 1143.8 | 1399.5 | 1903.9 | 1932.3 | 1491.9 | 1300.1 | 376.5 | 255.8 | 234.4 |
| 75° | 618.1 | 611.0 | 525.7 | 433.4 | 412.0 | 341.0 | 262.9 | 241.5 | 170.5 | 163.4 | 142.1 |
| 77.5° | 127.9 | 120.8 | 63.9 | 63.9 | 71.0 | 78.1 | 99.5 | 99.5 | 120.8 | 120.8 | 99.5 |
| 80° | 0.0 | 0.0 | 7.1 | 28.4 | 49.7 | 71.0 | 85.3 | 85.3 | 99.5 | 99.5 | 78.1 |
| 82.5° | 0.0 | 0.0 | 7.1 | 21.3 | 42.6 | 63.9 | 78.1 | 85.3 | 99.5 | 106.6 | 85.3 |
| 85° | 0.0 | 0.0 | 0.0 | 14.2 | 35.5 | 49.7 | 42.6 | 42.6 | 35.5 | 28.4 | 14.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



REPORT NUMBER: P534291

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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 | 16829.8 |
| 2.5° | 16581.2 | 16567.0 | 16240.2 | 16055.5 | 15721.6 | 15430.3 | 15195.9 | 15025.4 | 15025.4 | 14918.8 | 14819.3 |
| 5° | 16112.3 | 15991.5 | 15295.3 | 14847.7 | 14215.5 | 13746.6 | 13426.9 | 13178.3 | 12787.5 | 12894.1 | 12475.0 |
| 7.5° | 15529.8 | 15224.3 | 14300.7 | 13618.7 | 12744.9 | 12077.1 | 11395.1 | 10791.3 | 10208.7 | 9945.9 | 10087.9 |
| 10° | 14904.6 | 14371.8 | 13128.5 | 12048.7 | 10961.8 | 9739.8 | 8944.2 | 7978.0 | 7381.2 | 7345.7 | 7189.4 |
| 12.5° | 14243.9 | 13640.0 | 12126.8 | 10635.0 | 9207.0 | 7736.5 | 6521.6 | 5619.4 | 5214.5 | 4766.9 | 4852.2 |
| 15° | 13746.6 | 12851.5 | 11011.5 | 9214.1 | 7317.3 | 5832.5 | 4610.6 | 3914.4 | 3530.8 | 3424.2 | 3388.7 |
| 17.5° | 13206.7 | 12247.6 | 9874.8 | 7700.9 | 5740.2 | 4198.6 | 3317.7 | 2983.8 | 2834.6 | 2834.6 | 2813.3 |
| 20° | 12645.5 | 11565.6 | 8745.3 | 6294.3 | 4305.1 | 3132.9 | 2657.0 | 2550.4 | 2543.3 | 2536.2 | 2536.2 |
| 22.5° | 12276.0 | 10784.2 | 7722.3 | 5001.3 | 3246.6 | 2507.8 | 2308.9 | 2266.2 | 2294.7 | 2379.9 | 2379.9 |
| 25° | 11885.3 | 10031.1 | 6592.7 | 3857.6 | 2514.9 | 2152.6 | 2038.9 | 2067.3 | 2138.4 | 2216.5 | 2188.1 |
| 27.5° | 11487.5 | 9540.9 | 5527.1 | 3026.4 | 2060.2 | 1882.6 | 1840.0 | 1903.9 | 1982.1 | 2053.1 | 2031.8 |
| 30° | 11395.1 | 9015.2 | 4518.3 | 2294.7 | 1768.9 | 1641.1 | 1669.5 | 1726.3 | 1804.5 | 1832.9 | 1861.3 |
| 32.5° | 11537.2 | 8603.2 | 3701.3 | 1882.6 | 1541.6 | 1506.1 | 1506.1 | 1534.5 | 1584.2 | 1648.2 | 1626.9 |
| 35° | 11942.1 | 8368.7 | 2926.9 | 1634.0 | 1413.7 | 1378.2 | 1371.1 | 1399.5 | 1427.9 | 1449.3 | 1427.9 |
| 37.5° | 12560.2 | 8184.0 | 2394.1 | 1449.3 | 1328.5 | 1271.6 | 1257.4 | 1250.3 | 1278.8 | 1285.9 | 1300.1 |
| 40° | 13348.8 | 8283.5 | 2031.8 | 1335.6 | 1243.2 | 1179.3 | 1136.7 | 1136.7 | 1136.7 | 1158.0 | 1165.1 |
| 42.5° | 14201.3 | 8418.5 | 1754.7 | 1271.6 | 1165.1 | 1086.9 | 1044.3 | 1030.1 | 1044.3 | 1072.7 | 1065.6 |
| 45° | 15096.4 | 8681.3 | 1577.1 | 1172.2 | 1094.0 | 994.6 | 937.8 | 923.5 | 959.1 | 1015.9 | 1008.8 |
| 47.5° | 15934.7 | 9057.8 | 1442.1 | 1108.3 | 1023.0 | 930.6 | 859.6 | 845.4 | 909.3 | 987.5 | 994.6 |
| 50° | 16773.0 | 9711.4 | 1392.4 | 1058.5 | 973.3 | 866.7 | 802.8 | 788.6 | 859.6 | 959.1 | 980.4 |
| 52.5° | 17739.2 | 10414.7 | 1356.9 | 994.6 | 916.4 | 817.0 | 745.9 | 731.7 | 809.9 | 937.8 | 944.9 |
| 55° | 18371.4 | 11011.5 | 1328.5 | 880.9 | 809.9 | 738.8 | 682.0 | 674.9 | 760.1 | 873.8 | 902.2 |
| 57.5° | 17632.6 | 10180.3 | 1229.0 | 767.3 | 689.1 | 653.6 | 603.9 | 603.9 | 674.9 | 781.5 | 802.8 |
| 60° | 13370.1 | 6699.2 | 873.8 | 618.1 | 582.5 | 561.2 | 539.9 | 539.9 | 596.8 | 674.9 | 682.0 |
| 62.5° | 7828.8 | 3608.9 | 561.2 | 497.3 | 497.3 | 476.0 | 440.5 | 440.5 | 497.3 | 539.9 | 547.0 |
| 65° | 2323.1 | 1158.0 | 454.7 | 426.3 | 419.1 | 383.6 | 348.1 | 341.0 | 383.6 | 404.9 | 397.8 |
| 67.5° | 667.8 | 532.8 | 376.5 | 355.2 | 348.1 | 291.3 | 270.0 | 262.9 | 270.0 | 255.8 | 248.6 |
| 70° | 397.8 | 362.3 | 291.3 | 298.4 | 262.9 | 213.1 | 191.8 | 184.7 | 170.5 | 149.2 | 135.0 |
| 72.5° | 220.2 | 220.2 | 213.1 | 227.3 | 184.7 | 142.1 | 120.8 | 99.5 | 78.1 | 63.9 | 56.8 |
| 75° | 135.0 | 142.1 | 149.2 | 156.3 | 120.8 | 92.4 | 78.1 | 49.7 | 28.4 | 14.2 | 14.2 |
| 77.5° | 92.4 | 99.5 | 106.6 | 113.7 | 99.5 | 85.3 | 63.9 | 35.5 | 7.1 | 0.0 | 0.0 |
| 80° | 71.0 | 78.1 | 92.4 | 99.5 | 106.6 | 113.7 | 85.3 | 35.5 | 7.1 | 0.0 | 0.0 |
| 82.5° | 78.1 | 85.3 | 106.6 | 99.5 | 99.5 | 99.5 | 78.1 | 35.5 | 7.1 | 0.0 | 0.0 |
| 85° | 14.2 | 21.3 | 35.5 | 35.5 | 49.7 | 63.9 | 49.7 | 14.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)