

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: P532701

Luminaire Tested: **GALN-SA8A-750-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-750-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23865 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

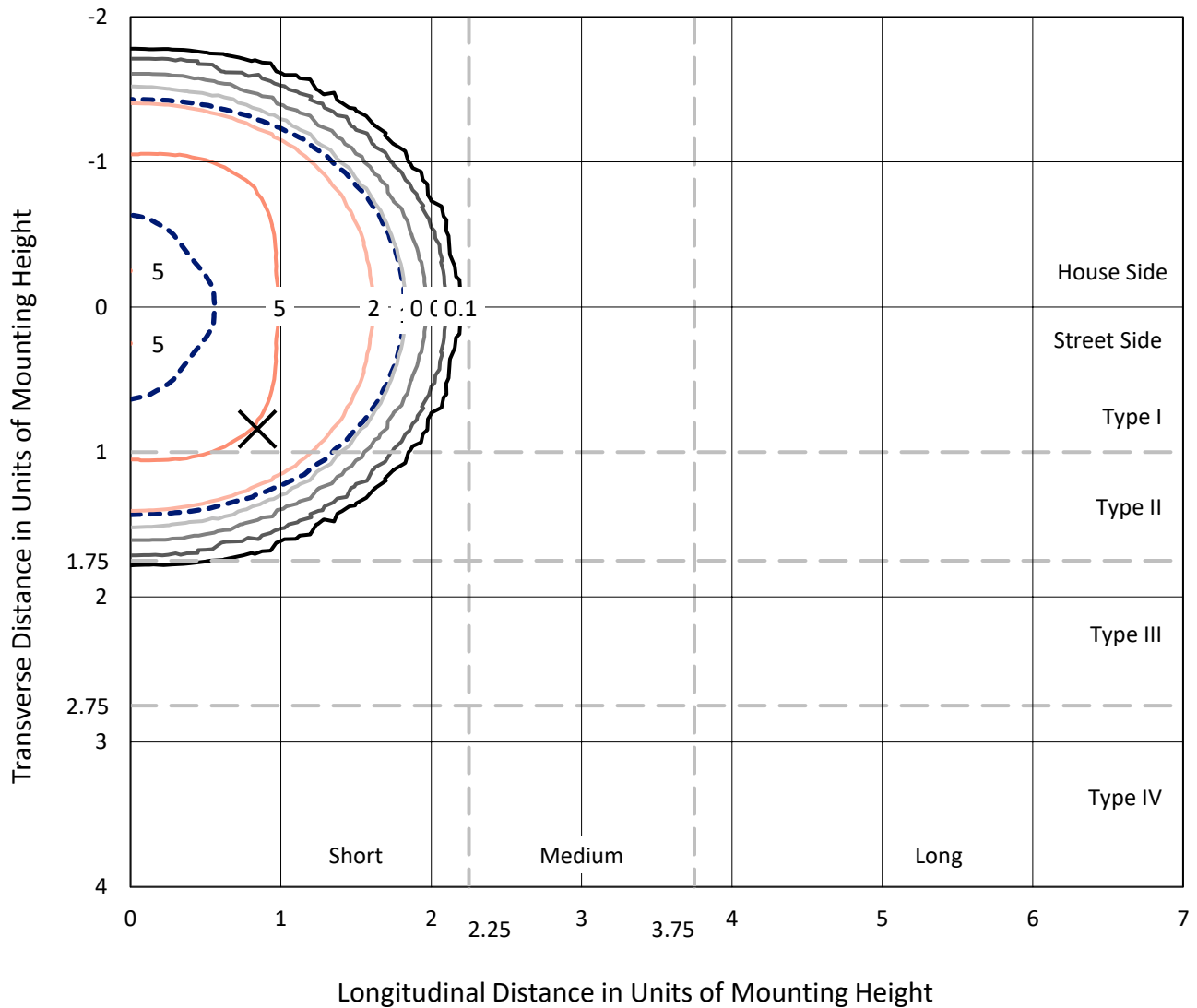
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

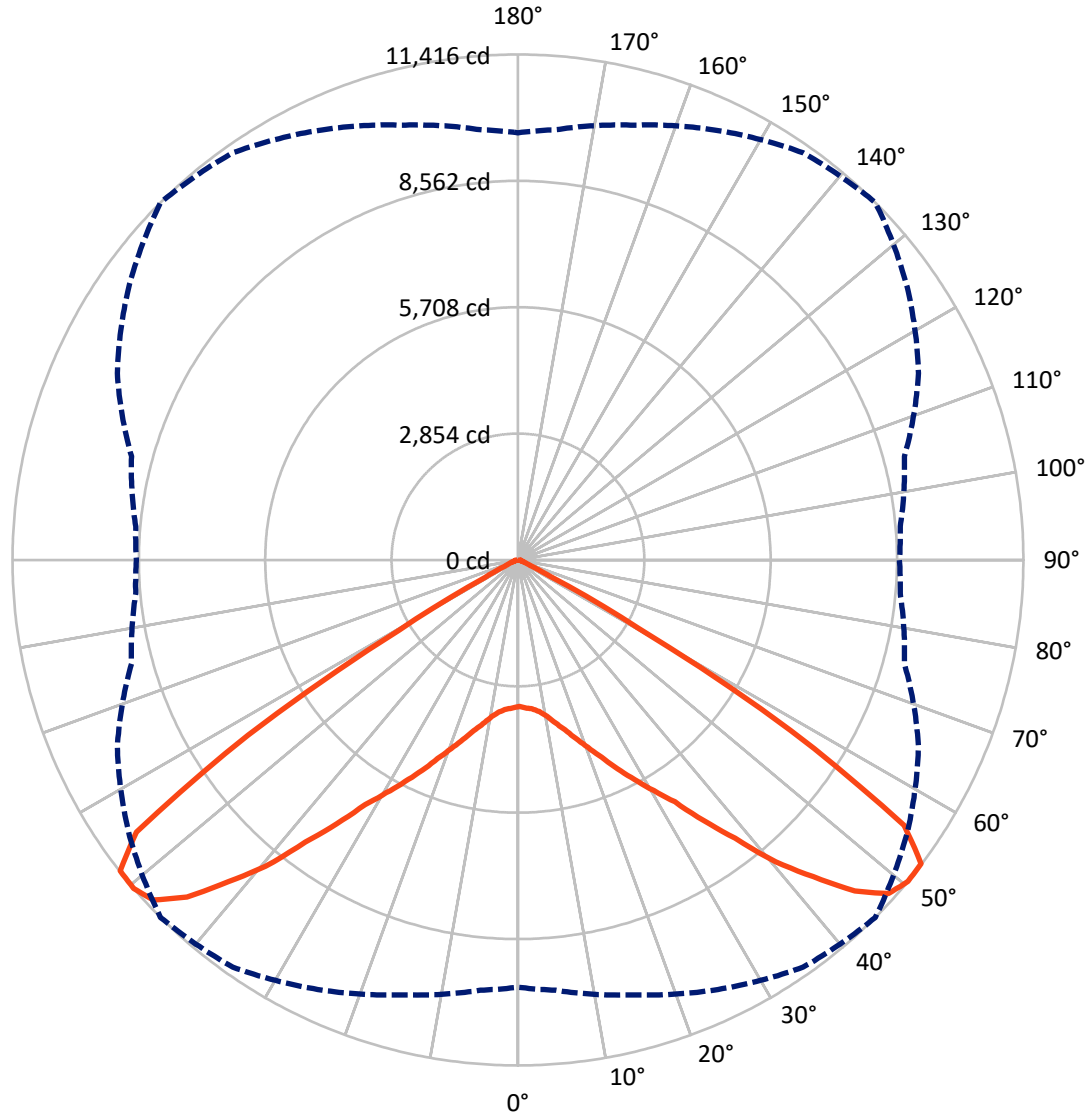
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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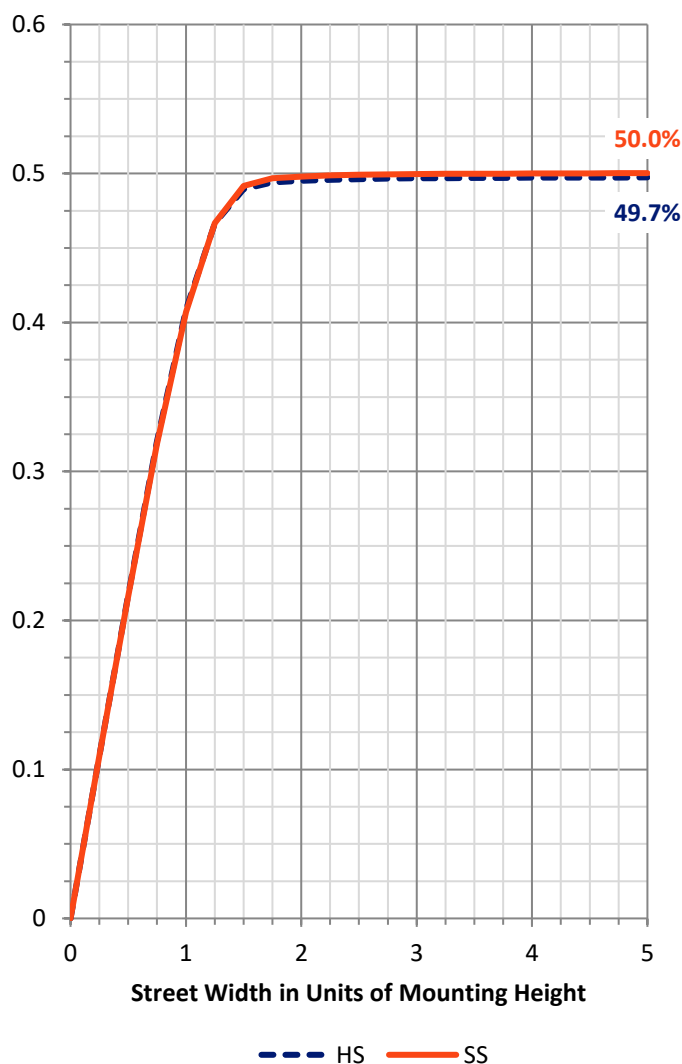
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11932.5  | 0.0    | 11932.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11932.5  | 0.0    | 11932.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23865.0  | 0.0    | 23865.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 329.2   | 1.4       |
| 10°-20°   | 1134.5  | 4.8       |
| 20°-30°   | 2317.0  | 9.7       |
| 30°-40°   | 4418.6  | 18.5      |
| 40°-50°   | 7445.9  | 31.2      |
| 50°-60°   | 7101.0  | 29.8      |
| 60°-70°   | 991.3   | 4.2       |
| 70°-80°   | 94.8    | 0.4       |
| 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°    | 23865.0 | 100.0     |
| 0°-180°   | 23865.0 | 100.0     |

**Coefficient of Utilization**



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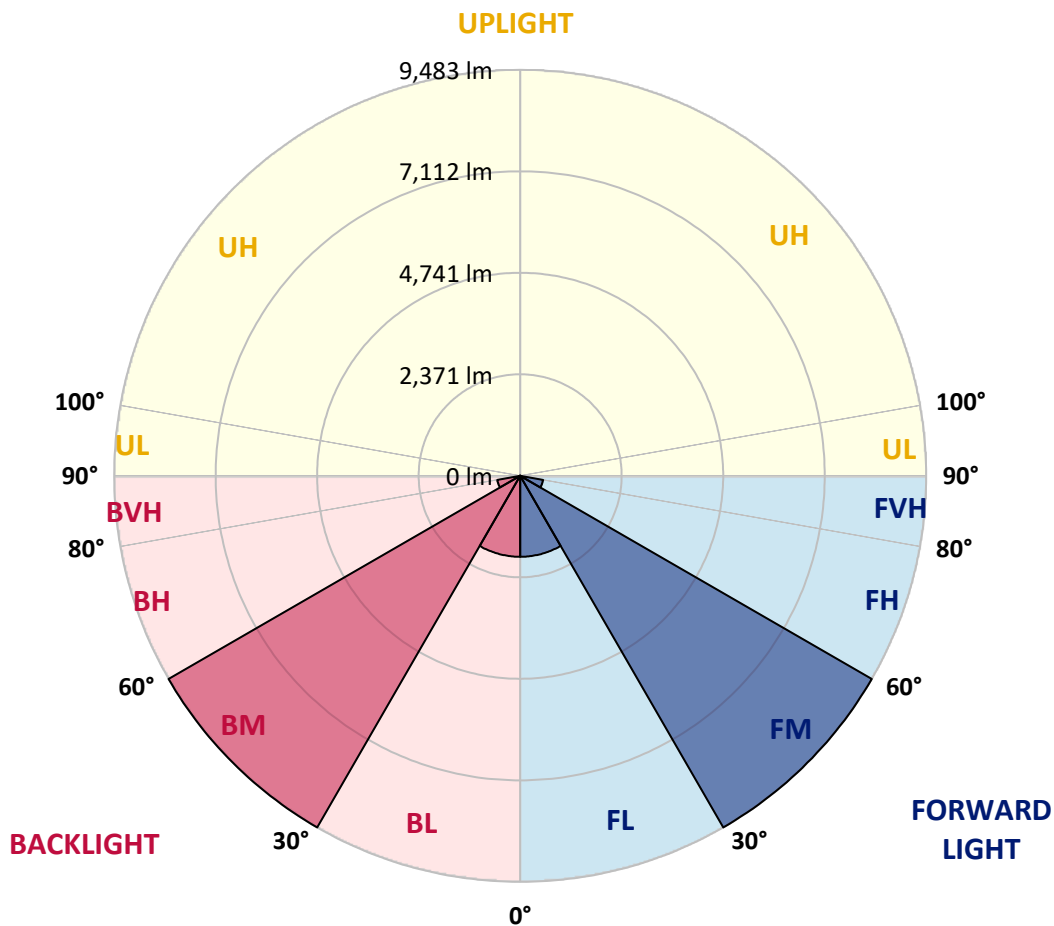
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1890.3 | 7.9       |                         |      |        |
| FM (30°-60°)   | 9482.8 | 39.7      |                         |      |        |
| FH (60°-80°)   | 543.0  | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 16.4   | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 1890.3 | 7.9       | B3/2500                 |      |        |
| BM (30°-60°)   | 9482.8 | 39.7      | B5                      |      |        |
| BH (60°-80°)   | 543.0  | 2.3       | B2/1000                 |      | G0/660 |
| BVH (80°-90°)  | 16.4   | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3308.6 | 3308.6 | 3308.6  | 3308.6  | 3308.6  | 3308.6  | 3308.6  | 3308.6 | 3308.6 | 3308.6 | 3308.6 |
| 2.5°  | 3296.6 | 3296.6 | 3292.6  | 3324.7  | 3308.6  | 3344.8  | 3340.7  | 3352.8 | 3364.8 | 3360.8 | 3392.9 |
| 5°    | 3268.5 | 3264.5 | 3264.5  | 3300.6  | 3336.7  | 3376.9  | 3413.0  | 3437.1 | 3477.3 | 3477.3 | 3517.4 |
| 7.5°  | 3296.6 | 3276.5 | 3304.6  | 3320.7  | 3388.9  | 3457.2  | 3517.4  | 3565.6 | 3658.0 | 3690.1 | 3678.0 |
| 10°   | 3304.6 | 3328.7 | 3348.8  | 3397.0  | 3481.3  | 3585.7  | 3637.9  | 3758.3 | 3862.7 | 3935.0 | 3951.1 |
| 12.5° | 3356.8 | 3392.9 | 3449.2  | 3565.6  | 3641.9  | 3778.4  | 3850.7  | 3967.1 | 4111.7 | 4192.0 | 4248.2 |
| 15°   | 3457.2 | 3469.2 | 3541.5  | 3690.1  | 3854.7  | 3979.2  | 4091.6  | 4175.9 | 4316.5 | 4408.8 | 4412.8 |
| 17.5° | 3585.7 | 3637.9 | 3738.3  | 3878.8  | 4051.5  | 4236.2  | 4324.5  | 4416.8 | 4469.0 | 4593.5 | 4621.6 |
| 20°   | 3842.7 | 3850.7 | 3947.1  | 4131.8  | 4348.6  | 4517.2  | 4581.5  | 4629.7 | 4609.6 | 4738.1 | 4762.2 |
| 22.5° | 4083.6 | 4091.6 | 4212.1  | 4461.0  | 4693.9  | 4838.5  | 4866.6  | 4838.5 | 4778.2 | 4870.6 | 4878.6 |
| 25°   | 4328.5 | 4400.8 | 4489.1  | 4738.1  | 5027.2  | 5219.9  | 5223.9  | 5147.6 | 5023.2 | 5039.2 | 5079.4 |
| 27.5° | 4710.0 | 4762.2 | 4854.5  | 5083.4  | 5400.6  | 5617.4  | 5581.3  | 5488.9 | 5328.3 | 5340.4 | 5328.3 |
| 30°   | 5155.7 | 5203.8 | 5280.1  | 5573.3  | 5806.1  | 6043.0  | 6095.2  | 6006.9 | 5766.0 | 5713.8 | 5774.0 |
| 32.5° | 5693.7 | 5762.0 | 5902.5  | 6171.5  | 6368.3  | 6512.8  | 6549.0  | 6516.9 | 6292.0 | 6271.9 | 6312.1 |
| 35°   | 6348.2 | 6440.6 | 6569.1  | 6806.0  | 6966.6  | 7227.6  | 7227.6  | 7119.2 | 6914.4 | 6938.5 | 6934.4 |
| 37.5° | 7038.8 | 7175.4 | 7376.1  | 7617.1  | 7833.9  | 7974.4  | 7930.2  | 7837.9 | 7633.1 | 7580.9 | 7633.1 |
| 40°   | 7906.2 | 7974.4 | 8227.4  | 8540.6  | 8805.6  | 8966.2  | 8777.5  | 8576.7 | 8086.8 | 8163.1 | 8303.7 |
| 42.5° | 8697.2 | 8805.6 | 8998.3  | 9343.6  | 9644.8  | 9777.3  | 9552.4  | 9154.9 | 8564.7 | 8504.4 | 8608.8 |
| 45°   | 9371.7 | 9488.2 | 9741.2  | 10235.0 | 10552.2 | 10668.7 | 10170.8 | 9528.3 | 8853.8 | 8701.2 | 8745.4 |
| 47.5° | 9821.5 | 9881.7 | 10235.0 | 10704.8 | 10993.9 | 11258.9 | 10544.2 | 9785.3 | 8990.3 | 8701.2 | 8685.1 |
| 50°   | 9648.8 | 9753.2 | 10166.8 | 10700.8 | 11226.8 | 11415.5 | 10732.9 | 9982.1 | 9034.5 | 8665.1 | 8616.9 |
| 52.5° | 8568.7 | 8749.4 | 9211.1  | 9929.9  | 10724.9 | 11399.5 | 10993.9 | 9917.8 | 9018.4 | 8701.2 | 8773.5 |
| 55°   | 5962.7 | 5966.8 | 6528.9  | 7588.9  | 8994.3  | 10584.4 | 10612.5 | 9990.1 | 9122.8 | 8926.0 | 8930.1 |
| 57.5° | 2397.1 | 2517.6 | 2947.2  | 4011.3  | 5308.2  | 7267.7  | 8641.0  | 9267.3 | 9134.8 | 9086.7 | 9211.1 |
| 60°   | 606.3  | 610.3  | 742.8   | 1132.3  | 1867.1  | 3115.9  | 4525.3  | 6123.4 | 7050.9 | 7368.1 | 7412.3 |
| 62.5° | 309.2  | 313.2  | 345.3   | 401.5   | 509.9   | 835.2   | 1485.7  | 2357.0 | 3352.8 | 3858.7 | 3991.2 |
| 65°   | 253.0  | 253.0  | 273.0   | 301.1   | 305.2   | 321.2   | 385.5   | 550.1  | 799.0  | 907.5  | 919.5  |
| 67.5° | 192.7  | 192.7  | 208.8   | 224.9   | 232.9   | 228.9   | 220.8   | 228.9  | 277.1  | 265.0  | 257.0  |
| 70°   | 120.5  | 124.5  | 132.5   | 148.6   | 156.6   | 160.6   | 164.6   | 172.7  | 196.8  | 204.8  | 196.8  |
| 72.5° | 72.3   | 72.3   | 76.3    | 88.3    | 100.4   | 108.4   | 120.5   | 128.5  | 140.5  | 160.6  | 156.6  |
| 75°   | 32.1   | 32.1   | 40.2    | 52.2    | 64.2    | 76.3    | 88.3    | 100.4  | 108.4  | 120.5  | 124.5  |
| 77.5° | 8.0    | 12.0   | 20.1    | 36.1    | 48.2    | 64.2    | 80.3    | 92.4   | 100.4  | 100.4  | 96.4   |
| 80°   | 4.0    | 4.0    | 16.1    | 28.1    | 52.2    | 68.3    | 88.3    | 96.4   | 108.4  | 100.4  | 88.3   |
| 82.5° | 4.0    | 4.0    | 16.1    | 28.1    | 48.2    | 68.3    | 92.4    | 104.4  | 112.4  | 100.4  | 84.3   |
| 85°   | 0.0    | 4.0    | 12.0    | 24.1    | 40.2    | 48.2    | 40.2    | 28.1   | 16.1   | 16.1   | 12.0   |
| 87.5° | 0.0    | 0.0    | 4.0     | 4.0     | 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)