

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: P528796

Luminaire Tested: **GALN-SA3D-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-830-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16530 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

Input Watts (W): 184  
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



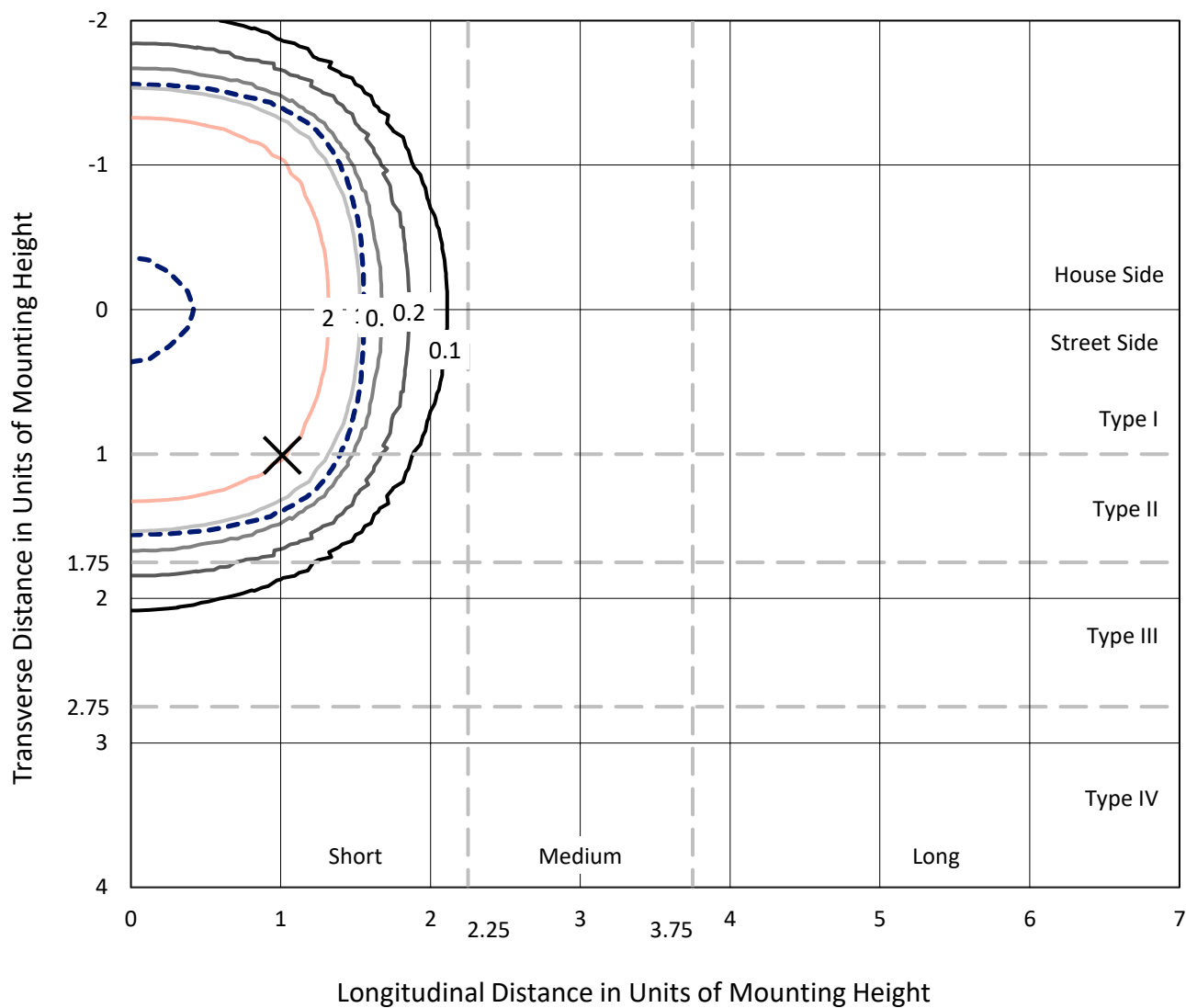
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

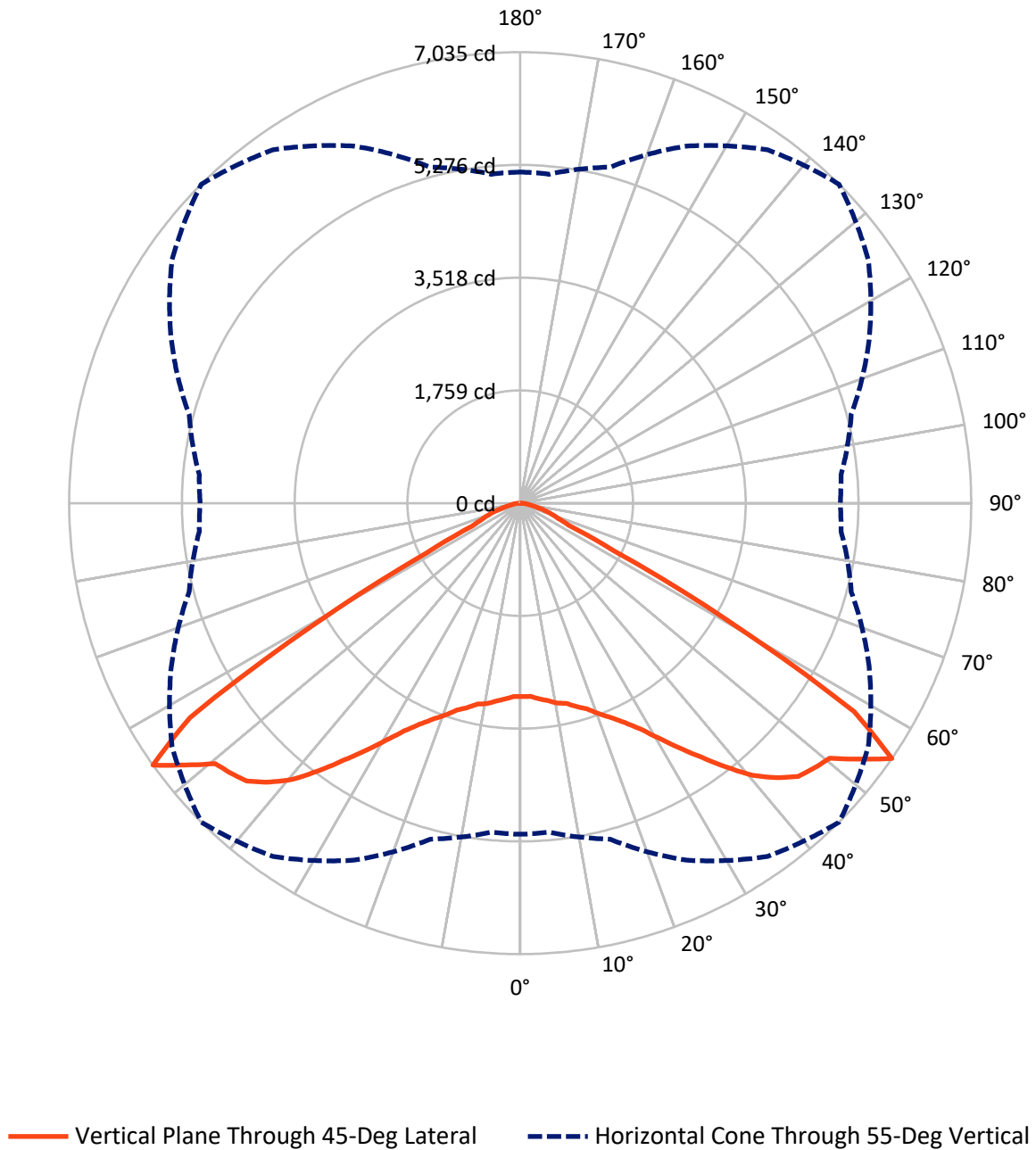


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8265.0   | 0.0    | 8265.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8265.0   | 0.0    | 8265.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16530.0  | 0.0    | 16530.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.8   | 1.8       |
| 10°-20°   | 934.2   | 5.7       |
| 20°-30°   | 1742.0  | 10.5      |
| 30°-40°   | 2916.7  | 17.6      |
| 40°-50°   | 4538.6  | 27.5      |
| 50°-60°   | 4712.5  | 28.5      |
| 60°-70°   | 999.4   | 6.0       |
| 70°-80°   | 329.1   | 2.0       |
| 80°-90°   | 62.7    | 0.4       |
| 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°    | 16530.0 | 100.0     |
| 0°-180°   | 16530.0 | 100.0     |

**Coefficient of Utilization**



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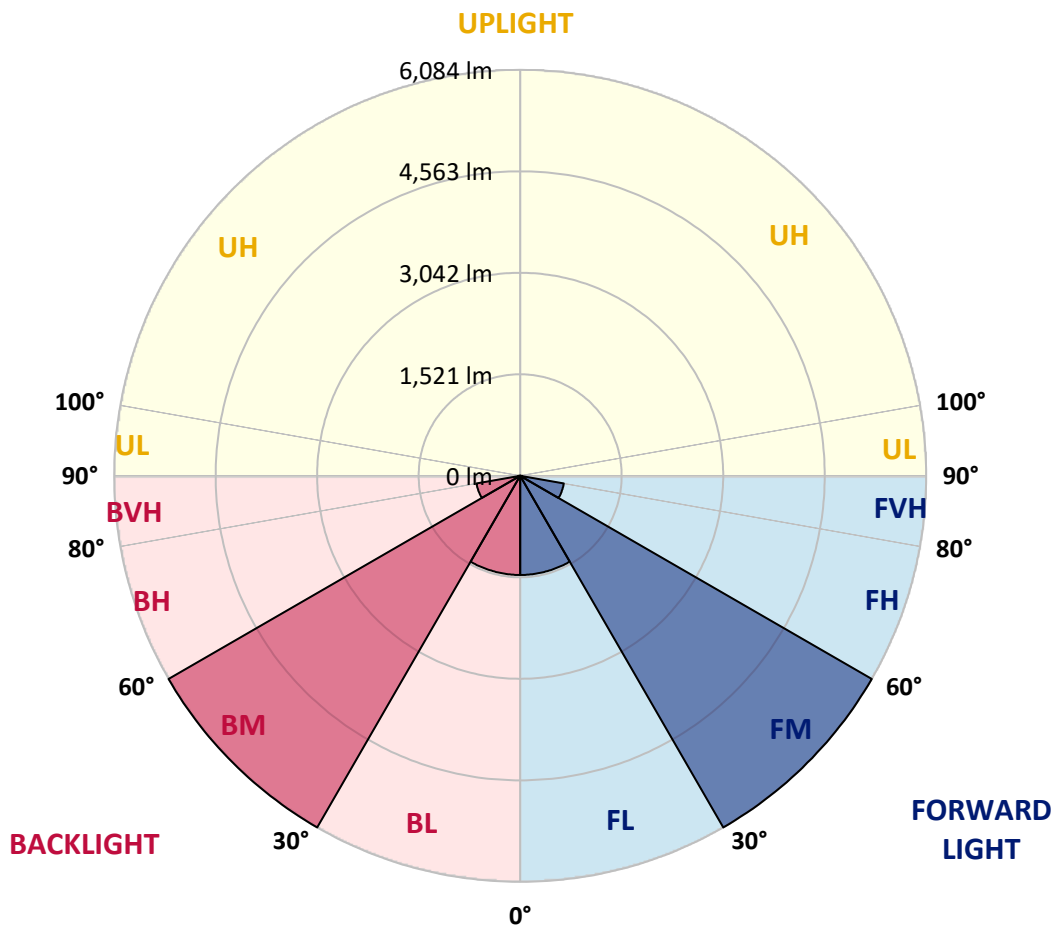
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1485.5 | 9.0       |                         |      |         |
| FM   | (30°-60°)   | 6083.9 | 36.8      |                         |      |         |
| FH   | (60°-80°)   | 664.2  | 4.0       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 31.3   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1485.5 | 9.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6083.9 | 36.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 664.2  | 4.0       | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 31.3   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G1**

Type V Short



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CATALOG NUMBER: GALN-SA3D-830-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3018.1 | 3018.1 | 3018.1 | 3018.1 | 3018.1 | 3018.1 | 3018.1 | 3018.1 | 3018.1 | 3018.1 | 3018.1 |
| 2.5°  | 3054.1 | 3040.1 | 3016.1 | 3034.1 | 3048.1 | 3018.1 | 3030.1 | 3036.1 | 3032.1 | 3016.1 | 3022.1 |
| 5°    | 3098.0 | 3090.0 | 3070.1 | 3084.0 | 3066.1 | 3066.1 | 3054.1 | 3038.1 | 3062.1 | 3058.1 | 3068.1 |
| 7.5°  | 3098.0 | 3088.0 | 3128.0 | 3102.0 | 3110.0 | 3110.0 | 3090.0 | 3074.1 | 3086.0 | 3068.1 | 3058.1 |
| 10°   | 3159.9 | 3173.9 | 3156.0 | 3161.9 | 3158.0 | 3171.9 | 3142.0 | 3132.0 | 3122.0 | 3116.0 | 3104.0 |
| 12.5° | 3233.9 | 3223.9 | 3229.9 | 3225.9 | 3239.8 | 3203.9 | 3185.9 | 3163.9 | 3181.9 | 3156.0 | 3173.9 |
| 15°   | 3293.8 | 3287.8 | 3293.8 | 3309.8 | 3295.8 | 3293.8 | 3261.8 | 3239.8 | 3211.9 | 3217.9 | 3189.9 |
| 17.5° | 3375.7 | 3369.7 | 3371.7 | 3385.7 | 3383.7 | 3373.7 | 3349.7 | 3307.8 | 3297.8 | 3281.8 | 3263.8 |
| 20°   | 3497.5 | 3487.5 | 3483.5 | 3489.5 | 3499.5 | 3507.5 | 3459.6 | 3443.6 | 3409.6 | 3383.7 | 3353.7 |
| 22.5° | 3601.4 | 3597.4 | 3613.4 | 3587.4 | 3609.4 | 3633.3 | 3587.4 | 3579.4 | 3495.5 | 3481.5 | 3449.6 |
| 25°   | 3745.2 | 3739.2 | 3729.2 | 3767.2 | 3793.1 | 3791.1 | 3747.2 | 3703.3 | 3639.3 | 3623.4 | 3623.4 |
| 27.5° | 3897.0 | 3863.0 | 3915.0 | 3925.0 | 3970.9 | 3984.9 | 3946.9 | 3883.0 | 3823.1 | 3789.1 | 3797.1 |
| 30°   | 4086.8 | 4054.8 | 4066.8 | 4138.7 | 4198.6 | 4250.6 | 4154.7 | 4060.8 | 3976.9 | 3917.0 | 3907.0 |
| 32.5° | 4276.5 | 4244.6 | 4280.5 | 4350.4 | 4470.3 | 4548.2 | 4454.3 | 4290.5 | 4192.6 | 4104.7 | 4122.7 |
| 35°   | 4430.3 | 4454.3 | 4512.2 | 4618.1 | 4741.9 | 4867.8 | 4718.0 | 4592.1 | 4452.3 | 4354.4 | 4368.4 |
| 37.5° | 4678.0 | 4751.9 | 4797.9 | 4919.7 | 5095.5 | 5225.3 | 5069.5 | 4905.7 | 4755.9 | 4628.1 | 4584.1 |
| 40°   | 5001.6 | 5051.5 | 5103.5 | 5247.3 | 5455.0 | 5584.8 | 5437.0 | 5223.3 | 5075.5 | 4943.7 | 4937.7 |
| 42.5° | 5357.1 | 5405.1 | 5459.0 | 5634.8 | 5758.6 | 5856.5 | 5720.7 | 5606.8 | 5443.0 | 5339.2 | 5333.2 |
| 45°   | 5770.6 | 5736.6 | 5796.6 | 5912.4 | 6016.3 | 6080.2 | 5992.3 | 5936.4 | 5818.5 | 5722.7 | 5712.7 |
| 47.5° | 6046.3 | 6016.3 | 6124.2 | 6228.0 | 6244.0 | 6174.1 | 6192.1 | 6244.0 | 6120.2 | 5962.4 | 6012.3 |
| 50°   | 6206.0 | 6206.0 | 6278.0 | 6373.8 | 6343.9 | 6254.0 | 6395.8 | 6399.8 | 6276.0 | 6136.1 | 6136.1 |
| 52.5° | 5928.4 | 5990.3 | 6194.1 | 6507.7 | 6607.5 | 6633.5 | 6601.5 | 6465.7 | 6142.1 | 5856.5 | 5842.5 |
| 55°   | 5165.4 | 5151.4 | 5427.0 | 6146.1 | 6727.4 | 7035.0 | 6627.5 | 6002.3 | 5345.1 | 5023.6 | 4991.6 |
| 57.5° | 3359.7 | 3375.7 | 3787.1 | 4520.2 | 5568.9 | 6142.1 | 5455.0 | 4576.1 | 3787.1 | 3343.7 | 3385.7 |
| 60°   | 1512.1 | 1566.0 | 1815.7 | 2363.0 | 3263.8 | 3731.2 | 3271.8 | 2482.8 | 1905.6 | 1653.9 | 1675.9 |
| 62.5° | 868.9  | 878.9  | 888.9  | 1054.6 | 1390.2 | 1643.9 | 1444.1 | 1114.6 | 982.7  | 938.8  | 938.8  |
| 65°   | 733.1  | 727.1  | 729.1  | 743.0  | 779.0  | 830.9  | 809.0  | 779.0  | 783.0  | 779.0  | 773.0  |
| 67.5° | 623.2  | 631.2  | 625.2  | 635.2  | 637.2  | 645.2  | 659.2  | 671.1  | 673.1  | 677.1  | 673.1  |
| 70°   | 511.3  | 513.3  | 517.3  | 525.3  | 527.3  | 533.3  | 553.3  | 563.3  | 569.3  | 569.3  | 577.3  |
| 72.5° | 391.5  | 389.5  | 393.5  | 401.5  | 411.5  | 413.5  | 431.4  | 445.4  | 453.4  | 443.4  | 445.4  |
| 75°   | 257.7  | 259.7  | 265.7  | 271.7  | 285.6  | 299.6  | 305.6  | 319.6  | 321.6  | 325.6  | 315.6  |
| 77.5° | 153.8  | 157.8  | 163.8  | 175.8  | 187.8  | 199.7  | 213.7  | 223.7  | 227.7  | 223.7  | 211.7  |
| 80°   | 99.9   | 99.9   | 107.9  | 117.8  | 131.8  | 141.8  | 149.8  | 157.8  | 163.8  | 157.8  | 153.8  |
| 82.5° | 61.9   | 61.9   | 71.9   | 83.9   | 93.9   | 99.9   | 111.9  | 121.8  | 127.8  | 123.8  | 117.8  |
| 85°   | 32.0   | 34.0   | 41.9   | 51.9   | 59.9   | 63.9   | 61.9   | 55.9   | 49.9   | 47.9   | 43.9   |
| 87.5° | 10.0   | 10.0   | 12.0   | 12.0   | 10.0   | 10.0   | 12.0   | 10.0   | 12.0   | 12.0   | 12.0   |
| 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)