

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: P531505

Luminaire Tested: **GALN-SA6D-740-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531505
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-SA6D-740-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA 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: 29645 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

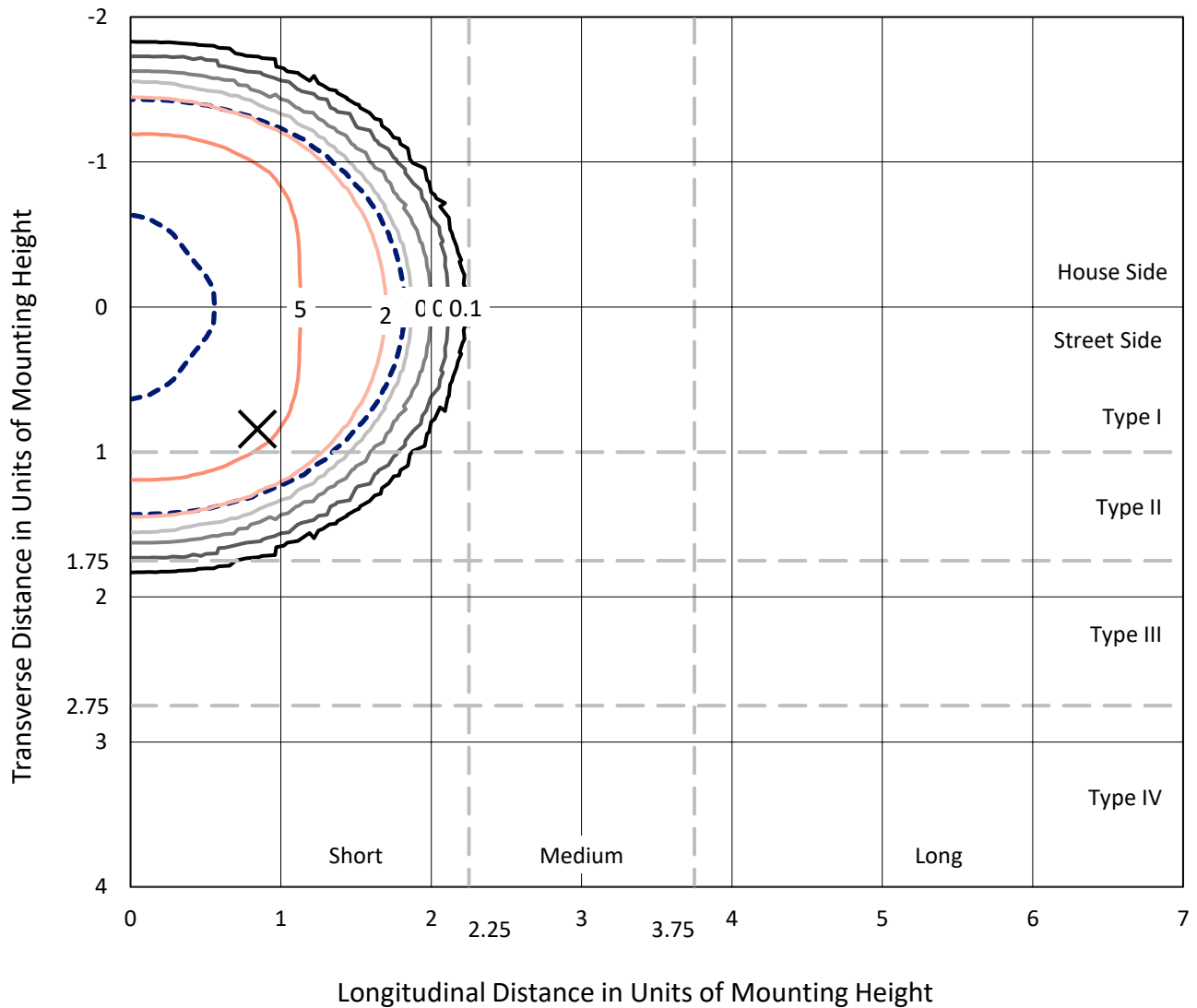
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

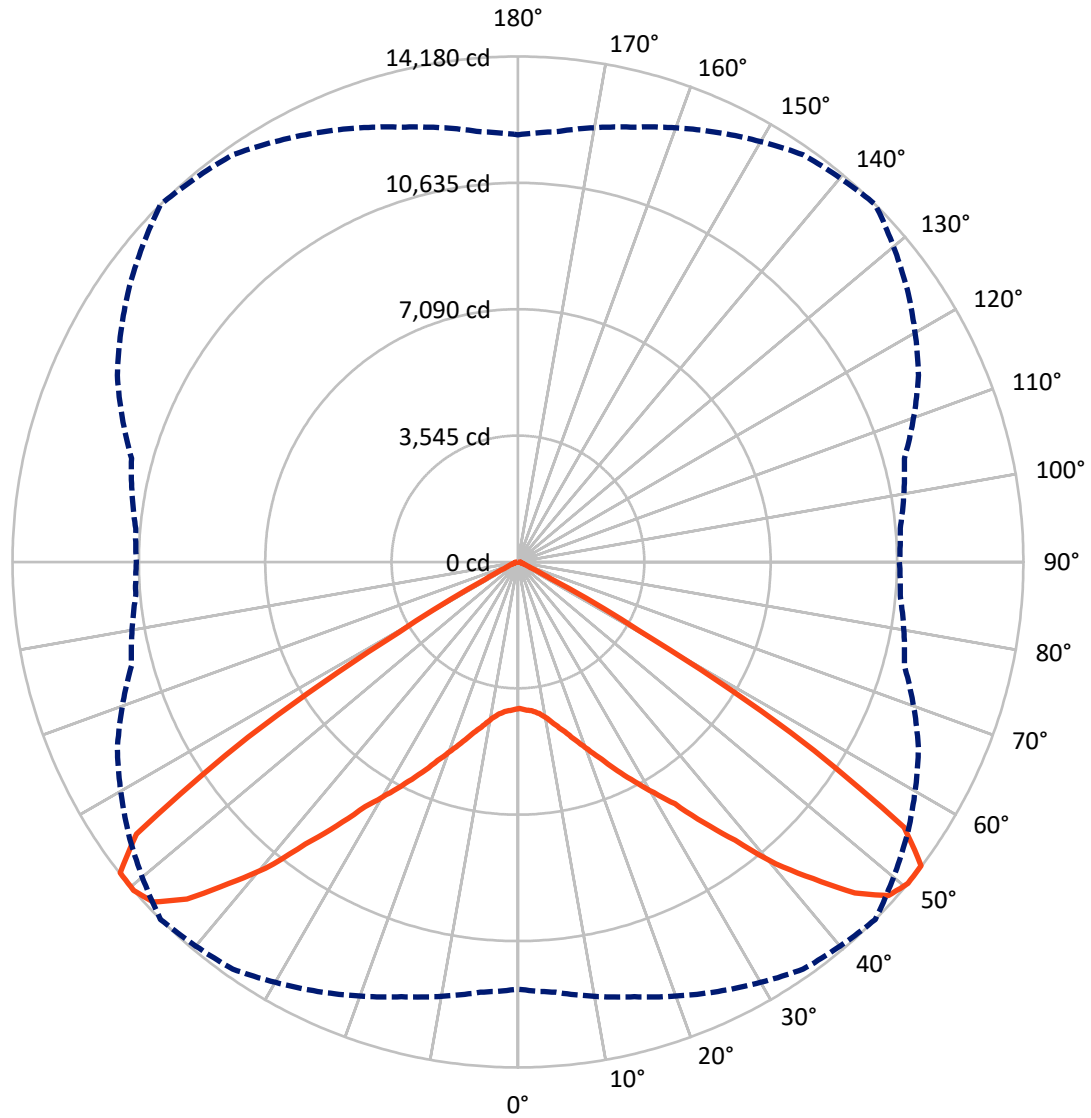
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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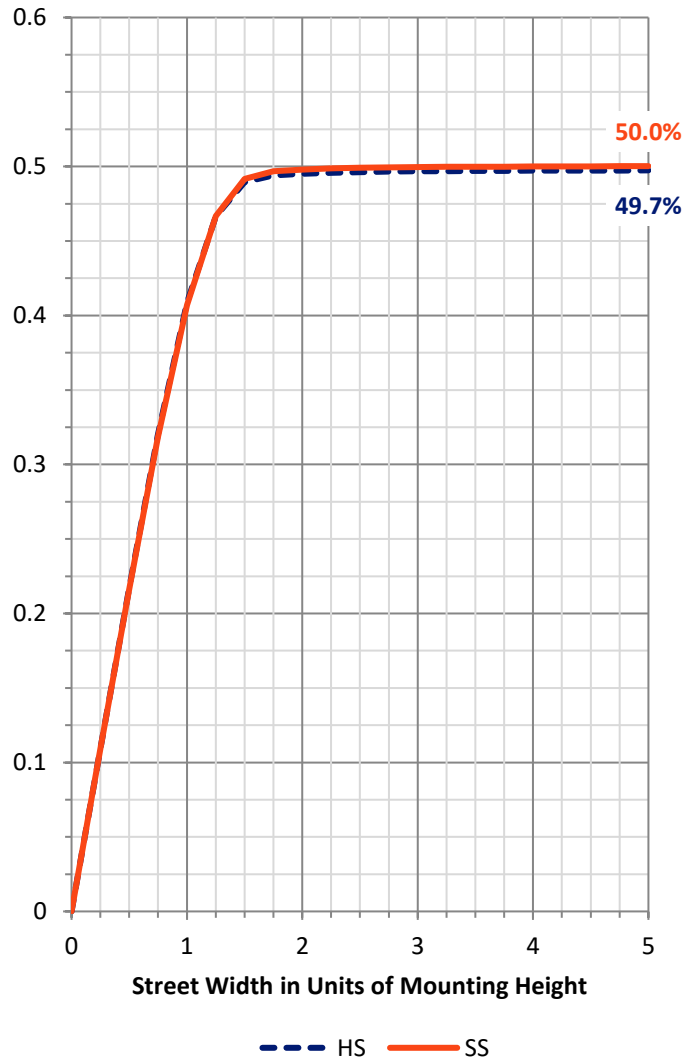
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14822.5 | 0.0 | 14822.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14822.5 | 0.0 | 14822.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29645.0 | 0.0 | 29645.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 408.9 | 1.4 |
| 10°-20° | 1409.2 | 4.8 |
| 20°-30° | 2878.2 | 9.7 |
| 30°-40° | 5488.7 | 18.5 |
| 40°-50° | 9249.3 | 31.2 |
| 50°-60° | 8820.9 | 29.8 |
| 60°-70° | 1231.3 | 4.2 |
| 70°-80° | 117.8 | 0.4 |
| 80°-90° | 40.7 | 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° | 29645.0 | 100.0 |
| 0°-180° | 29645.0 | 100.0 |

Coefficient of Utilization



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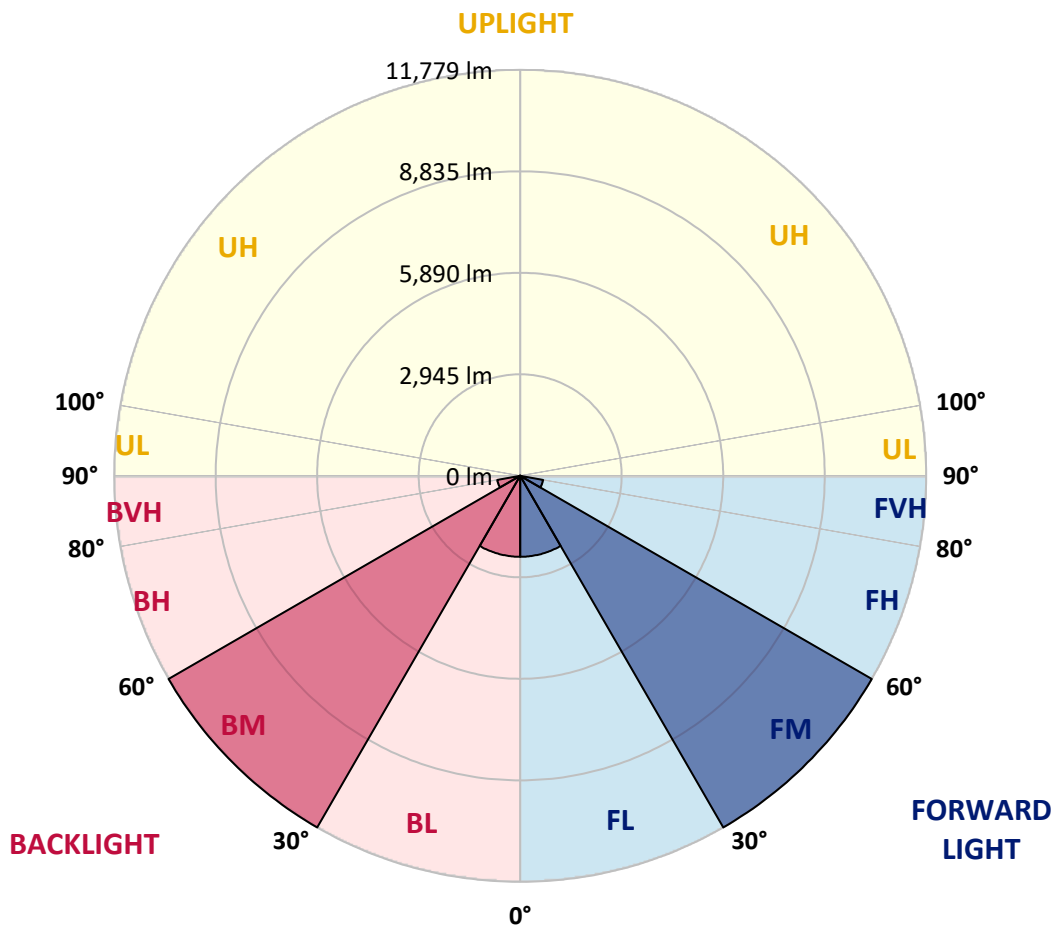
CATALOG NUMBER: GALN-SA6D-740-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2348.2 | 7.9 | | | |
| FM (30°-60°) | 11779.4 | 39.7 | | | |
| FH (60°-80°) | 674.6 | 2.3 | | | G1/1800 |
| FVH (80°-90°) | 20.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2348.2 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 11779.4 | 39.7 | B5 | | |
| BH (60°-80°) | 674.6 | 2.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 20.4 | 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° | 4110.0 | 4110.0 | 4110.0 | 4110.0 | 4110.0 | 4110.0 | 4110.0 | 4110.0 | 4110.0 | 4110.0 | 4110.0 |
| 2.5° | 4095.0 | 4095.0 | 4090.0 | 4129.9 | 4110.0 | 4154.8 | 4149.9 | 4164.8 | 4179.8 | 4174.8 | 4214.7 |
| 5° | 4060.1 | 4055.1 | 4055.1 | 4100.0 | 4144.9 | 4194.7 | 4239.6 | 4269.6 | 4319.4 | 4319.4 | 4369.3 |
| 7.5° | 4095.0 | 4070.1 | 4105.0 | 4124.9 | 4209.7 | 4294.5 | 4369.3 | 4429.2 | 4543.9 | 4583.8 | 4568.8 |
| 10° | 4105.0 | 4134.9 | 4159.8 | 4219.7 | 4324.4 | 4454.1 | 4519.0 | 4668.6 | 4798.3 | 4888.1 | 4908.0 |
| 12.5° | 4169.8 | 4214.7 | 4284.5 | 4429.2 | 4523.9 | 4693.5 | 4783.3 | 4928.0 | 5107.5 | 5207.3 | 5277.1 |
| 15° | 4294.5 | 4309.5 | 4399.2 | 4583.8 | 4788.3 | 4942.9 | 5082.6 | 5187.3 | 5361.9 | 5476.6 | 5481.6 |
| 17.5° | 4454.1 | 4519.0 | 4643.6 | 4818.2 | 5032.7 | 5262.1 | 5371.9 | 5486.6 | 5551.4 | 5706.1 | 5741.0 |
| 20° | 4773.3 | 4783.3 | 4903.0 | 5132.5 | 5401.8 | 5611.3 | 5691.1 | 5750.9 | 5726.0 | 5885.6 | 5915.5 |
| 22.5° | 5072.6 | 5082.6 | 5232.2 | 5541.5 | 5830.7 | 6010.3 | 6045.2 | 6010.3 | 5935.5 | 6050.2 | 6060.2 |
| 25° | 5376.9 | 5466.6 | 5576.4 | 5885.6 | 6244.7 | 6484.1 | 6489.1 | 6394.4 | 6239.7 | 6259.7 | 6309.6 |
| 27.5° | 5850.7 | 5915.5 | 6030.3 | 6314.6 | 6708.6 | 6977.9 | 6933.1 | 6818.3 | 6618.8 | 6633.8 | 6618.8 |
| 30° | 6404.3 | 6464.2 | 6559.0 | 6923.1 | 7212.4 | 7506.6 | 7571.5 | 7461.8 | 7162.5 | 7097.6 | 7172.5 |
| 32.5° | 7072.7 | 7157.5 | 7332.1 | 7666.3 | 7910.7 | 8090.2 | 8135.1 | 8095.2 | 7815.9 | 7791.0 | 7840.8 |
| 35° | 7885.7 | 8000.4 | 8160.1 | 8454.3 | 8653.8 | 8978.1 | 8978.1 | 8843.4 | 8589.0 | 8618.9 | 8613.9 |
| 37.5° | 8743.6 | 8913.2 | 9162.6 | 9461.9 | 9731.2 | 9905.8 | 9850.9 | 9736.2 | 9481.8 | 9417.0 | 9481.8 |
| 40° | 9821.0 | 9905.8 | 10220.0 | 10609.1 | 10938.3 | 11137.8 | 10903.3 | 10654.0 | 10045.4 | 10140.2 | 10314.8 |
| 42.5° | 10803.6 | 10938.3 | 11177.7 | 11606.6 | 11980.7 | 12145.3 | 11866.0 | 11372.2 | 10639.0 | 10564.2 | 10693.9 |
| 45° | 11641.5 | 11786.2 | 12100.4 | 12713.9 | 13108.0 | 13252.6 | 12634.1 | 11836.1 | 10998.1 | 10808.6 | 10863.4 |
| 47.5° | 12200.2 | 12275.0 | 12713.9 | 13297.5 | 13656.6 | 13985.8 | 13098.0 | 12155.3 | 11167.7 | 10808.6 | 10788.6 |
| 50° | 11985.7 | 12115.4 | 12629.1 | 13292.5 | 13945.9 | 14180.3 | 13332.4 | 12399.7 | 11222.6 | 10763.7 | 10703.8 |
| 52.5° | 10644.0 | 10868.4 | 11442.0 | 12334.8 | 13322.4 | 14160.4 | 13656.6 | 12319.9 | 11202.6 | 10808.6 | 10898.4 |
| 55° | 7406.9 | 7411.9 | 8110.2 | 9427.0 | 11172.7 | 13147.9 | 13182.8 | 12409.7 | 11332.3 | 11087.9 | 11092.9 |
| 57.5° | 2977.7 | 3127.4 | 3661.1 | 4982.8 | 6593.9 | 9027.9 | 10733.8 | 11511.9 | 11347.3 | 11287.4 | 11442.0 |
| 60° | 753.2 | 758.1 | 922.7 | 1406.6 | 2319.3 | 3870.5 | 5621.3 | 7606.4 | 8758.6 | 9152.6 | 9207.5 |
| 62.5° | 384.1 | 389.0 | 429.0 | 498.8 | 633.5 | 1037.5 | 1845.5 | 2927.8 | 4164.8 | 4793.3 | 4957.9 |
| 65° | 314.2 | 314.2 | 339.2 | 374.1 | 379.1 | 399.0 | 478.8 | 683.3 | 992.6 | 1127.2 | 1142.2 |
| 67.5° | 239.4 | 239.4 | 259.4 | 279.3 | 289.3 | 284.3 | 274.3 | 284.3 | 344.2 | 329.2 | 319.2 |
| 70° | 149.6 | 154.6 | 164.6 | 184.5 | 194.5 | 199.5 | 204.5 | 214.5 | 244.4 | 254.4 | 244.4 |
| 72.5° | 89.8 | 89.8 | 94.8 | 109.7 | 124.7 | 134.7 | 149.6 | 159.6 | 174.6 | 199.5 | 194.5 |
| 75° | 39.9 | 39.9 | 49.9 | 64.8 | 79.8 | 94.8 | 109.7 | 124.7 | 134.7 | 149.6 | 154.6 |
| 77.5° | 10.0 | 15.0 | 24.9 | 44.9 | 59.9 | 79.8 | 99.8 | 114.7 | 124.7 | 124.7 | 119.7 |
| 80° | 5.0 | 5.0 | 20.0 | 34.9 | 64.8 | 84.8 | 109.7 | 119.7 | 134.7 | 124.7 | 109.7 |
| 82.5° | 5.0 | 5.0 | 20.0 | 34.9 | 59.9 | 84.8 | 114.7 | 129.7 | 139.7 | 124.7 | 104.7 |
| 85° | 0.0 | 5.0 | 15.0 | 29.9 | 49.9 | 59.9 | 49.9 | 34.9 | 20.0 | 20.0 | 15.0 |
| 87.5° | 0.0 | 0.0 | 5.0 | 5.0 | 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)