

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: P533299

Luminaire Tested: **GALN-SA8D-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533299
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-SA8D-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 33761 lumens
Efficiency: N/A
Efficacy: 68.5 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

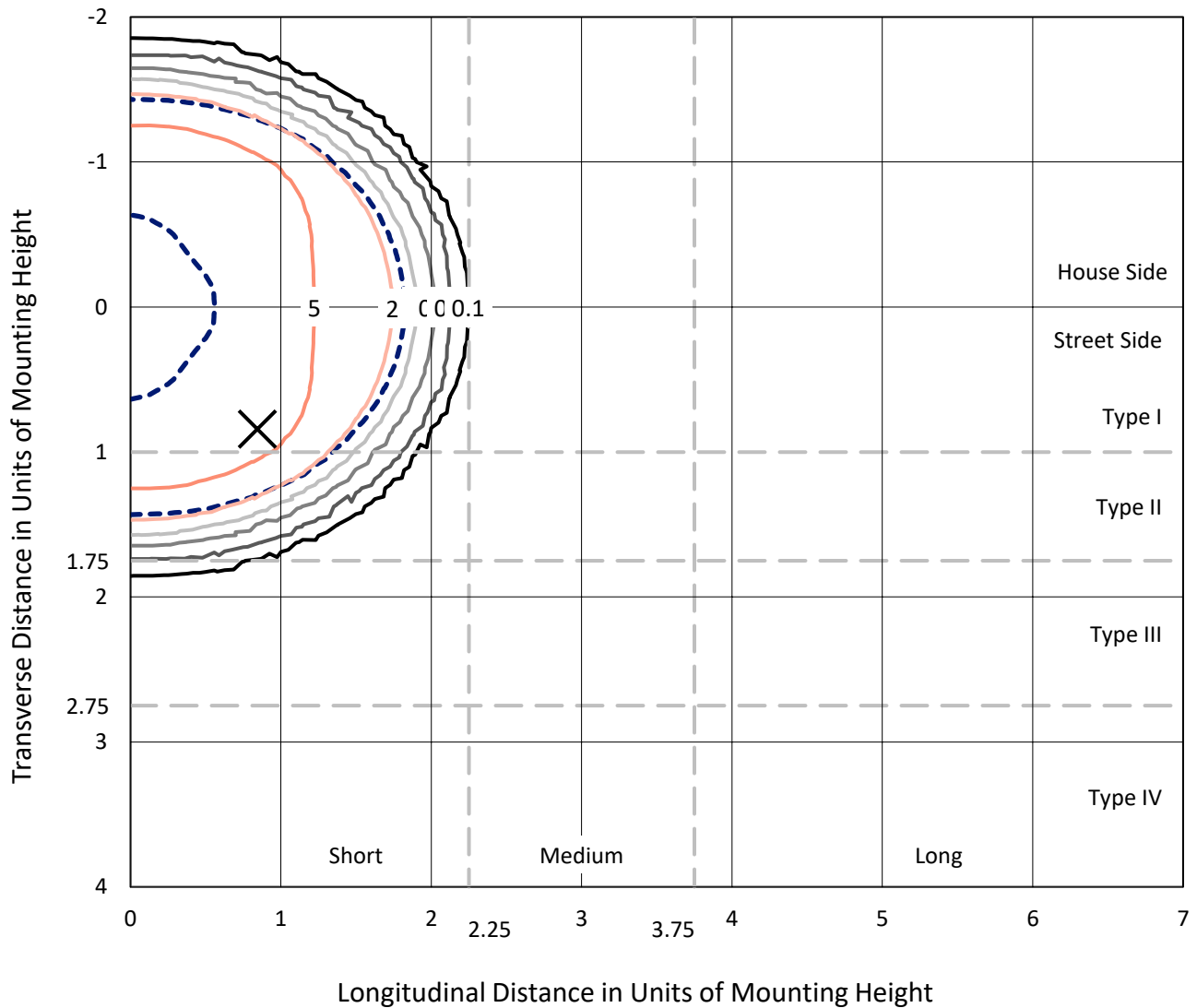
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

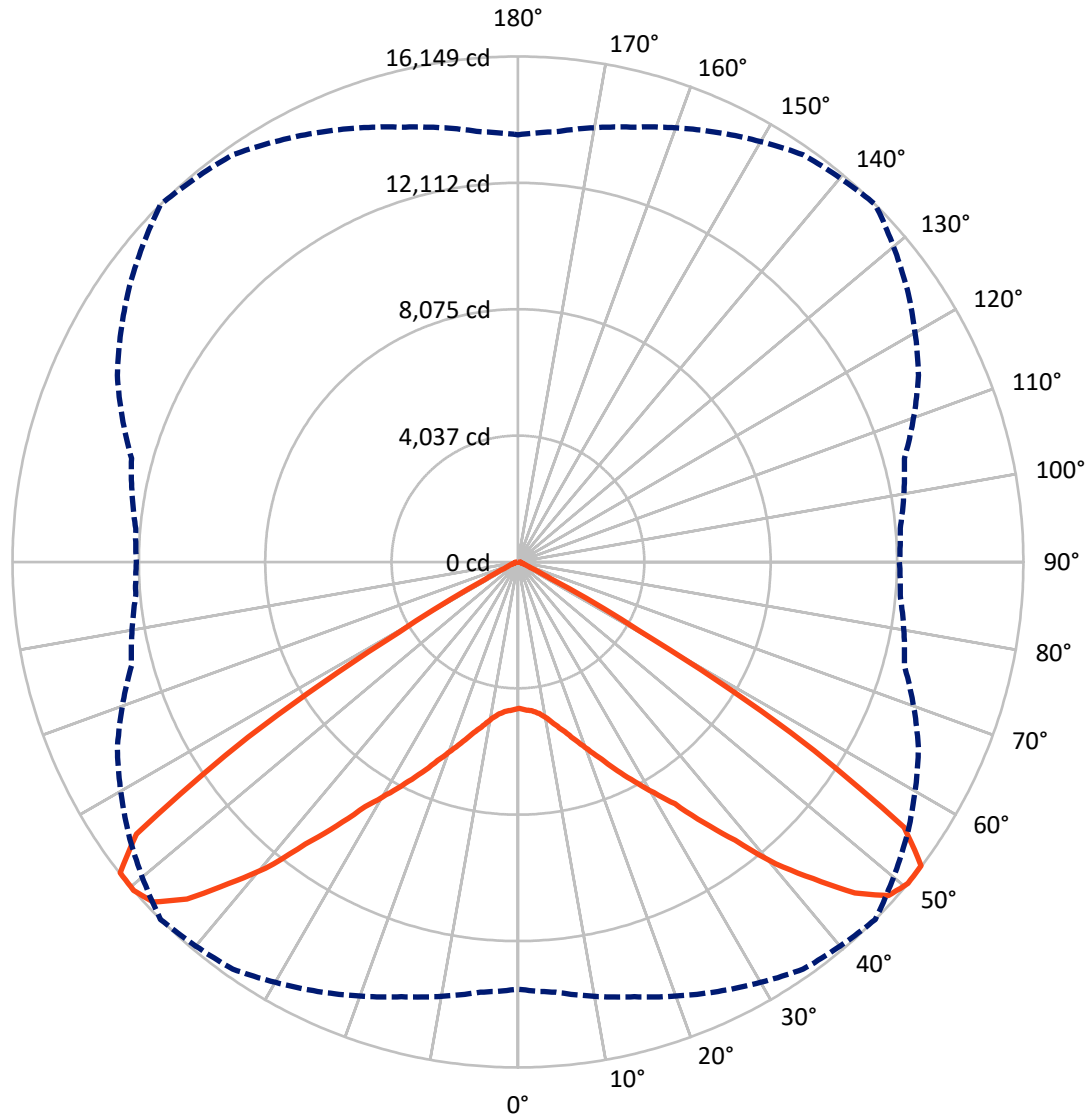
× Max cd
 - - - 1/2 Max cd



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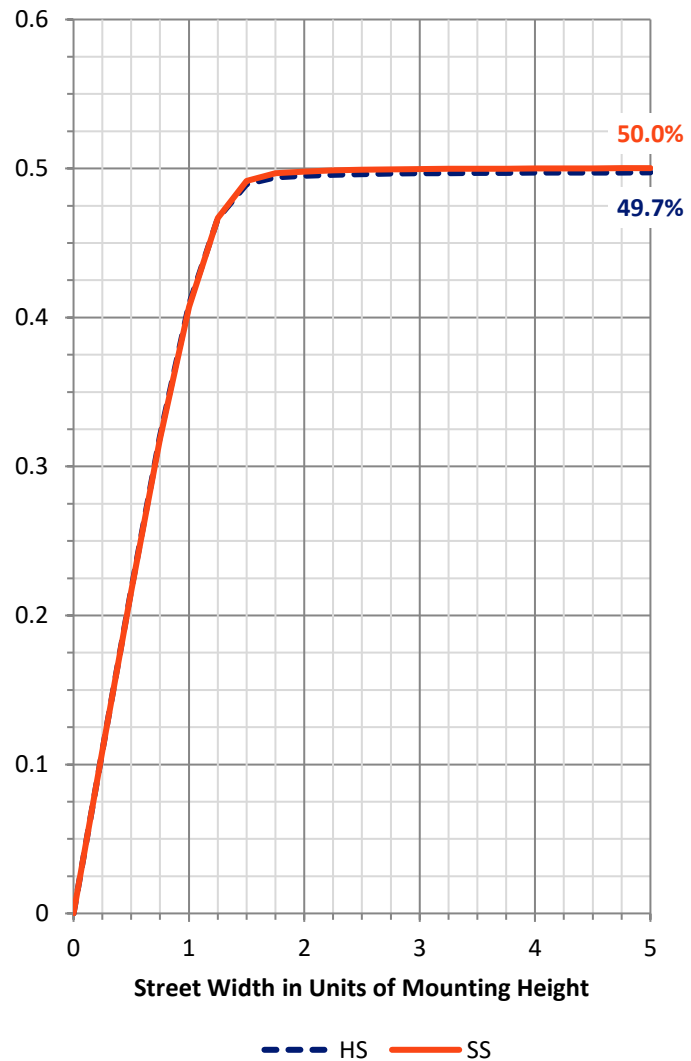
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16880.5 | 0.0 | 16880.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16880.5 | 0.0 | 16880.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33761.0 | 0.0 | 33761.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 465.6 | 1.4 |
| 10°-20° | 1604.9 | 4.8 |
| 20°-30° | 3277.8 | 9.7 |
| 30°-40° | 6250.8 | 18.5 |
| 40°-50° | 10533.5 | 31.2 |
| 50°-60° | 10045.6 | 29.8 |
| 60°-70° | 1402.3 | 4.2 |
| 70°-80° | 134.1 | 0.4 |
| 80°-90° | 46.3 | 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° | 33761.0 | 100.0 |
| 0°-180° | 33761.0 | 100.0 |



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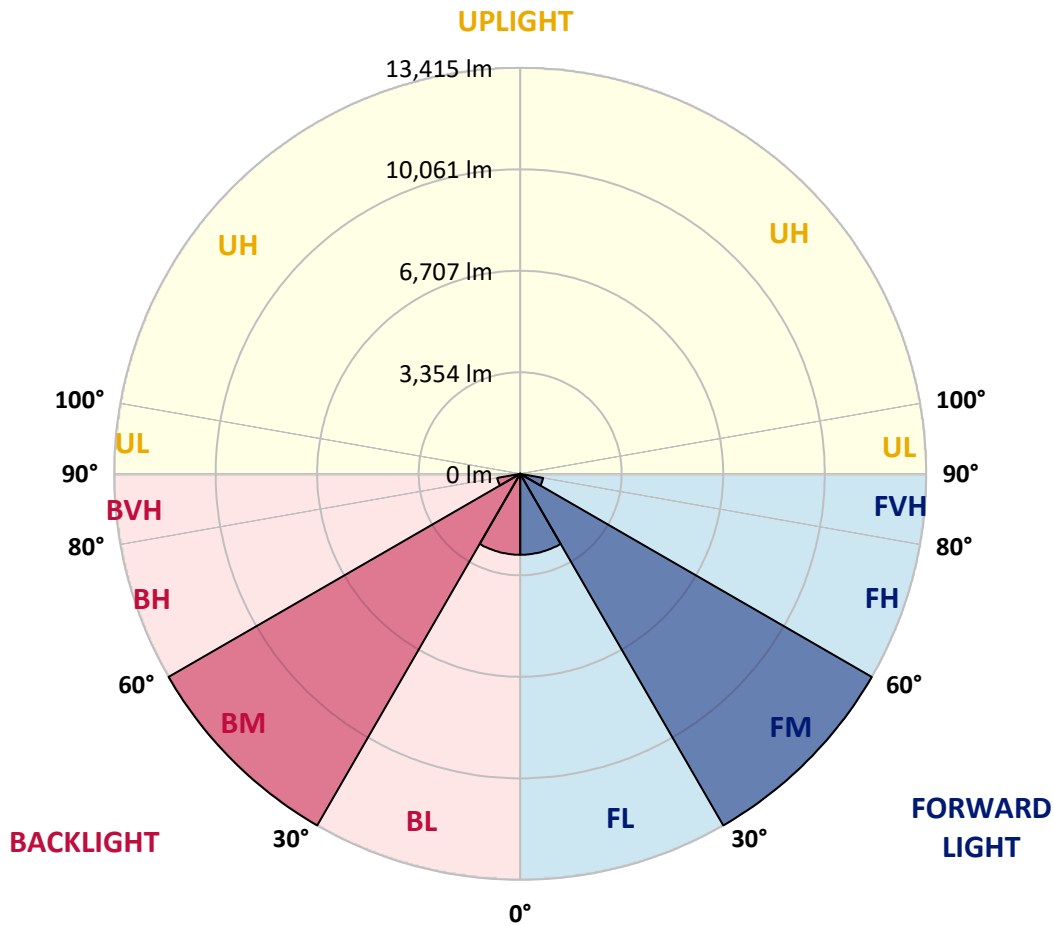
CATALOG NUMBER: GALN-SA8D-727-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2674.2 | 7.9 | | | |
| FM (30°-60°) | 13414.9 | 39.7 | | | |
| FH (60°-80°) | 768.2 | 2.3 | | | G1/1800 |
| FVH (80°-90°) | 23.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2674.2 | 7.9 | B4/5000 | | |
| BM (30°-60°) | 13414.9 | 39.7 | B5 | | |
| BH (60°-80°) | 768.2 | 2.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 23.2 | 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° | 4680.6 | 4680.6 | 4680.6 | 4680.6 | 4680.6 | 4680.6 | 4680.6 | 4680.6 | 4680.6 | 4680.6 | 4680.6 |
| 2.5° | 4663.6 | 4663.6 | 4657.9 | 4703.3 | 4680.6 | 4731.7 | 4726.0 | 4743.1 | 4760.1 | 4754.4 | 4799.9 |
| 5° | 4623.8 | 4618.1 | 4618.1 | 4669.2 | 4720.4 | 4777.2 | 4828.3 | 4862.4 | 4919.2 | 4919.2 | 4976.0 |
| 7.5° | 4663.6 | 4635.1 | 4674.9 | 4697.6 | 4794.2 | 4890.8 | 4976.0 | 5044.1 | 5174.8 | 5220.2 | 5203.2 |
| 10° | 4674.9 | 4709.0 | 4737.4 | 4805.6 | 4924.8 | 5072.5 | 5146.4 | 5316.8 | 5464.5 | 5566.7 | 5589.4 |
| 12.5° | 4748.8 | 4799.9 | 4879.4 | 5044.1 | 5152.1 | 5345.2 | 5447.4 | 5612.2 | 5816.7 | 5930.3 | 6009.8 |
| 15° | 4890.8 | 4907.8 | 5010.1 | 5220.2 | 5453.1 | 5629.2 | 5788.3 | 5907.5 | 6106.4 | 6237.0 | 6242.7 |
| 17.5° | 5072.5 | 5146.4 | 5288.4 | 5487.2 | 5731.5 | 5992.7 | 6117.7 | 6248.4 | 6322.2 | 6498.3 | 6538.1 |
| 20° | 5436.1 | 5447.4 | 5583.8 | 5845.1 | 6151.8 | 6390.4 | 6481.3 | 6549.4 | 6521.0 | 6702.8 | 6736.9 |
| 22.5° | 5776.9 | 5788.3 | 5958.7 | 6310.8 | 6640.3 | 6844.8 | 6884.6 | 6844.8 | 6759.6 | 6890.2 | 6901.6 |
| 25° | 6123.4 | 6225.6 | 6350.6 | 6702.8 | 7111.8 | 7384.4 | 7390.1 | 7282.2 | 7106.1 | 7128.8 | 7185.6 |
| 27.5° | 6663.0 | 6736.9 | 6867.5 | 7191.3 | 7640.0 | 7946.8 | 7895.7 | 7765.0 | 7537.8 | 7554.8 | 7537.8 |
| 30° | 7293.5 | 7361.7 | 7469.6 | 7884.3 | 8213.8 | 8548.9 | 8622.7 | 8497.8 | 8157.0 | 8083.1 | 8168.3 |
| 32.5° | 8054.7 | 8151.3 | 8350.1 | 8730.7 | 9009.0 | 9213.5 | 9264.6 | 9219.2 | 8901.1 | 8872.7 | 8929.5 |
| 35° | 8980.6 | 9111.2 | 9293.0 | 9628.2 | 9855.4 | 10224.6 | 10224.6 | 10071.2 | 9781.5 | 9815.6 | 9809.9 |
| 37.5° | 9957.6 | 10150.7 | 10434.8 | 10775.6 | 11082.3 | 11281.1 | 11218.7 | 11088.0 | 10798.3 | 10724.5 | 10798.3 |
| 40° | 11184.6 | 11281.1 | 11639.0 | 12082.1 | 12457.0 | 12684.2 | 12417.2 | 12133.2 | 11440.2 | 11548.1 | 11746.9 |
| 42.5° | 12303.6 | 12457.0 | 12729.6 | 13218.1 | 13644.2 | 13831.6 | 13513.5 | 12951.2 | 12116.1 | 12030.9 | 12178.6 |
| 45° | 13257.9 | 13422.6 | 13780.5 | 14479.2 | 14927.9 | 15092.6 | 14388.3 | 13479.4 | 12525.1 | 12309.3 | 12371.8 |
| 47.5° | 13894.1 | 13979.3 | 14479.2 | 15143.8 | 15552.7 | 15927.6 | 14916.5 | 13843.0 | 12718.3 | 12309.3 | 12286.6 |
| 50° | 13649.8 | 13797.5 | 14382.6 | 15138.1 | 15882.2 | 16149.2 | 15183.5 | 14121.3 | 12780.7 | 12258.2 | 12190.0 |
| 52.5° | 12121.8 | 12377.4 | 13030.7 | 14047.5 | 15172.2 | 16126.5 | 15552.7 | 14030.4 | 12758.0 | 12309.3 | 12411.5 |
| 55° | 8435.3 | 8441.0 | 9236.2 | 10735.8 | 12723.9 | 14973.3 | 15013.1 | 14132.7 | 12905.7 | 12627.4 | 12633.1 |
| 57.5° | 3391.2 | 3561.6 | 4169.4 | 5674.6 | 7509.4 | 10281.4 | 12224.1 | 13110.2 | 12922.7 | 12854.6 | 13030.7 |
| 60° | 857.7 | 863.4 | 1050.9 | 1601.9 | 2641.4 | 4407.9 | 6401.7 | 8662.5 | 9974.7 | 10423.4 | 10485.9 |
| 62.5° | 437.4 | 443.1 | 488.5 | 568.0 | 721.4 | 1181.5 | 2101.7 | 3334.4 | 4743.1 | 5458.8 | 5646.2 |
| 65° | 357.9 | 357.9 | 386.3 | 426.0 | 431.7 | 454.4 | 545.3 | 778.2 | 1130.4 | 1283.8 | 1300.8 |
| 67.5° | 272.7 | 272.7 | 295.4 | 318.1 | 329.5 | 323.8 | 312.4 | 323.8 | 391.9 | 374.9 | 363.5 |
| 70° | 170.4 | 176.1 | 187.5 | 210.2 | 221.5 | 227.2 | 232.9 | 244.3 | 278.3 | 289.7 | 278.3 |
| 72.5° | 102.2 | 102.2 | 107.9 | 125.0 | 142.0 | 153.4 | 170.4 | 181.8 | 198.8 | 227.2 | 221.5 |
| 75° | 45.4 | 45.4 | 56.8 | 73.8 | 90.9 | 107.9 | 125.0 | 142.0 | 153.4 | 170.4 | 176.1 |
| 77.5° | 11.4 | 17.0 | 28.4 | 51.1 | 68.2 | 90.9 | 113.6 | 130.6 | 142.0 | 142.0 | 136.3 |
| 80° | 5.7 | 5.7 | 22.7 | 39.8 | 73.8 | 96.6 | 125.0 | 136.3 | 153.4 | 142.0 | 125.0 |
| 82.5° | 5.7 | 5.7 | 22.7 | 39.8 | 68.2 | 96.6 | 130.6 | 147.7 | 159.0 | 142.0 | 119.3 |
| 85° | 0.0 | 5.7 | 17.0 | 34.1 | 56.8 | 68.2 | 56.8 | 39.8 | 22.7 | 22.7 | 17.0 |
| 87.5° | 0.0 | 0.0 | 5.7 | 5.7 | 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)