

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: STREETWORKS

Report Number: P533351

Luminaire Tested: **GLAN-SA8D-735-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533351
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: STREETWORKS
Catalog Number: GLAN-SA8D-735-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 37607 lumens
Efficiency: N/A
Efficacy: 76.3 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

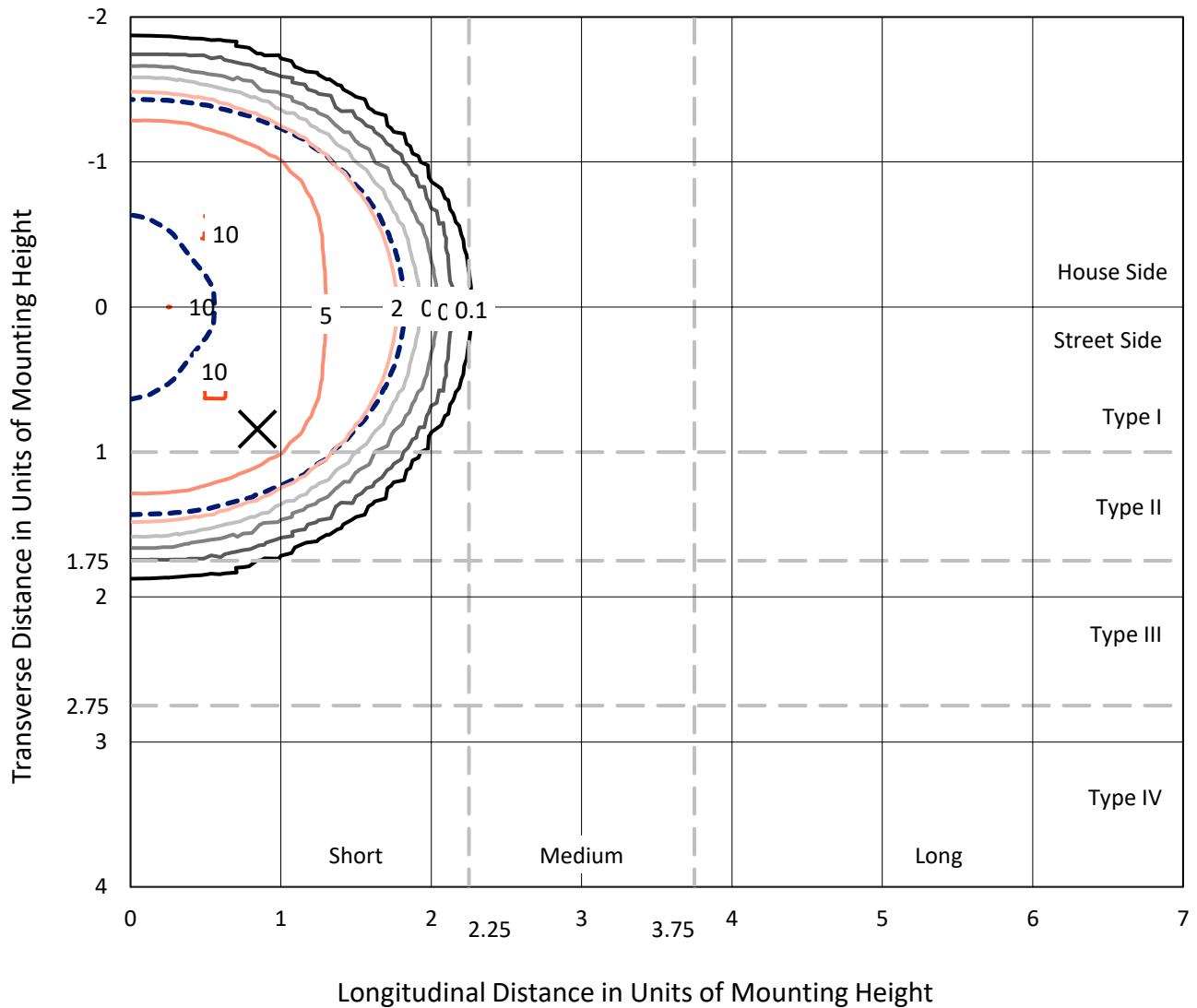
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

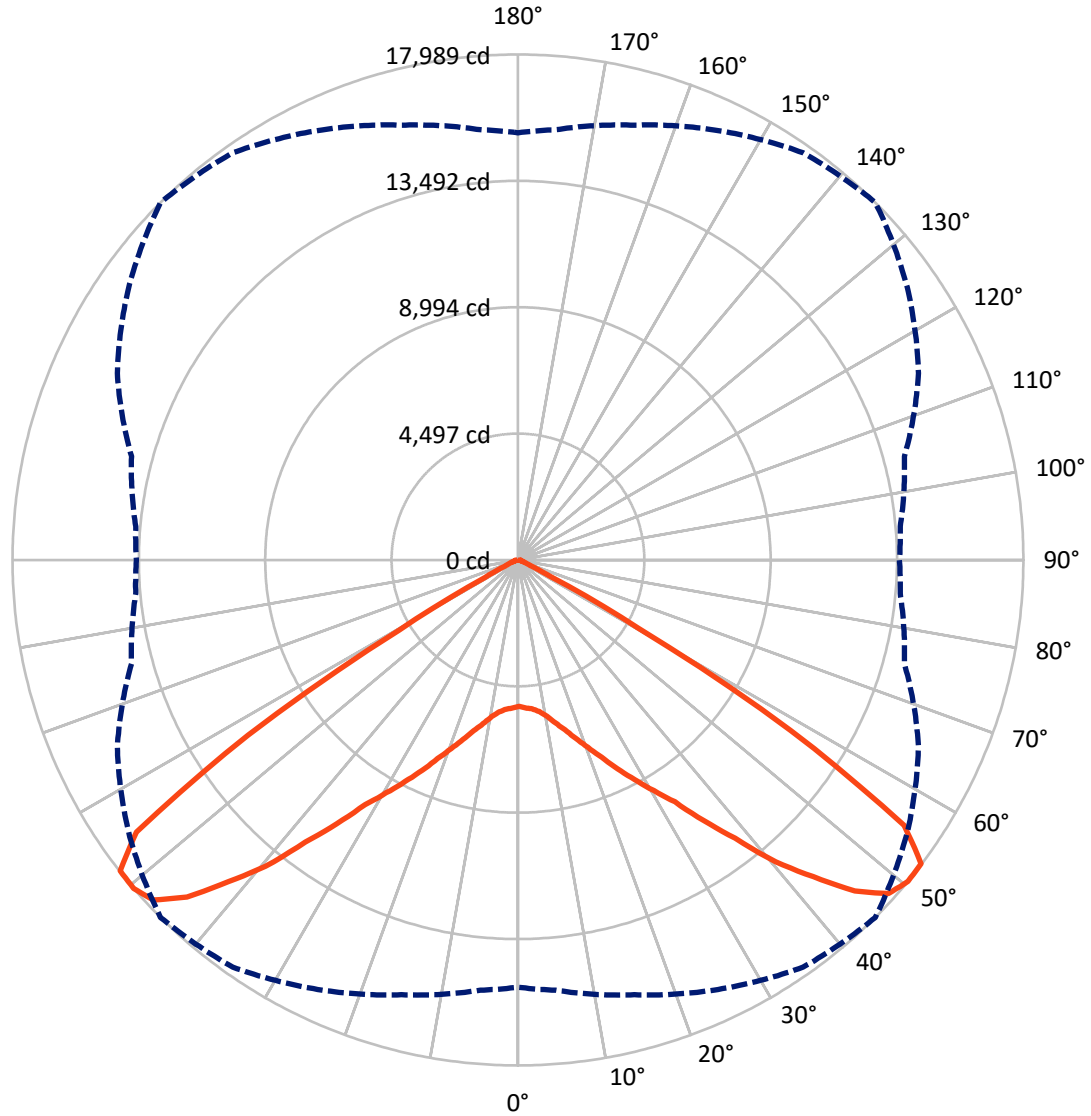
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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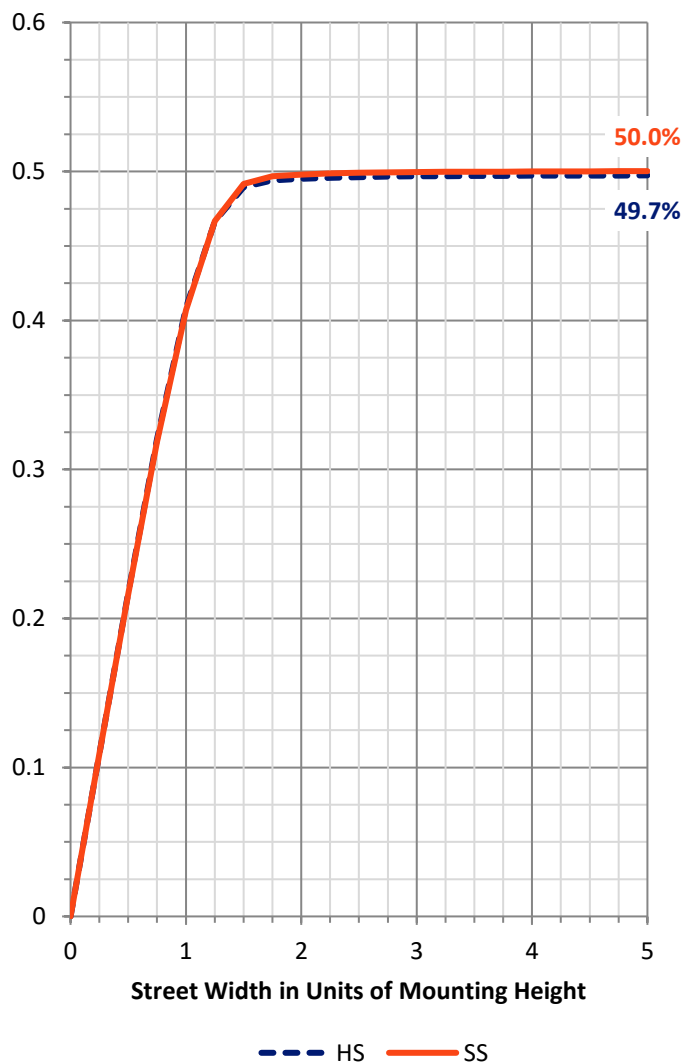
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18803.5 | 0.0 | 18803.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18803.5 | 0.0 | 18803.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37607.0 | 0.0 | 37607.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 518.7 | 1.4 |
| 10°-20° | 1787.7 | 4.8 |
| 20°-30° | 3651.2 | 9.7 |
| 30°-40° | 6962.9 | 18.5 |
| 40°-50° | 11733.5 | 31.2 |
| 50°-60° | 11190.0 | 29.8 |
| 60°-70° | 1562.1 | 4.2 |
| 70°-80° | 149.4 | 0.4 |
| 80°-90° | 51.6 | 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° | 37607.0 | 100.0 |
| 0°-180° | 37607.0 | 100.0 |

Coefficient of Utilization



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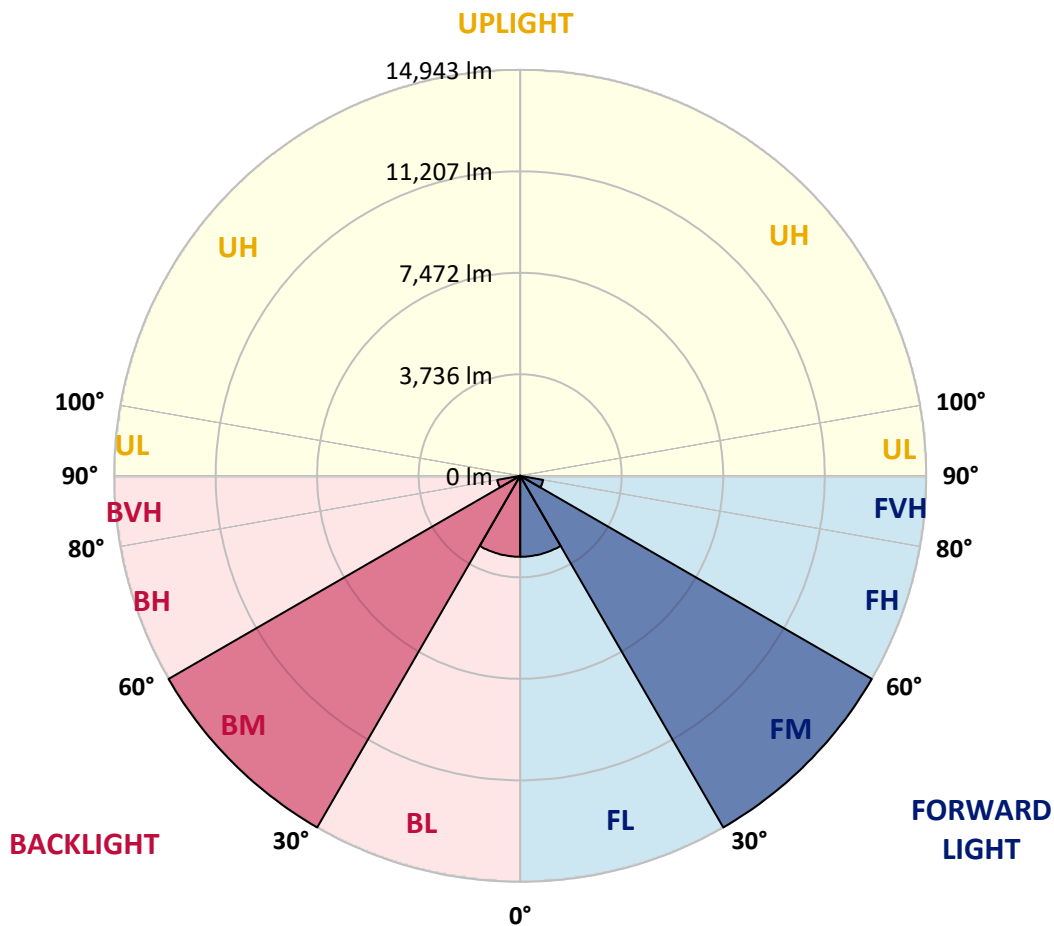
CATALOG NUMBER: GLAN-SA8D-735-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2978.8 | 7.9 | | | |
| FM (30°-60°) | 14943.2 | 39.7 | | | |
| FH (60°-80°) | 855.7 | 2.3 | | | G1/1800 |
| FVH (80°-90°) | 25.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2978.8 | 7.9 | B4/5000 | | |
| BM (30°-60°) | 14943.2 | 39.7 | B5 | | |
| BH (60°-80°) | 855.7 | 2.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 25.8 | 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° | 5213.8 | 5213.8 | 5213.8 | 5213.8 | 5213.8 | 5213.8 | 5213.8 | 5213.8 | 5213.8 | 5213.8 | 5213.8 |
| 2.5° | 5194.8 | 5194.8 | 5188.5 | 5239.1 | 5213.8 | 5270.7 | 5264.4 | 5283.4 | 5302.4 | 5296.1 | 5346.7 |
| 5° | 5150.5 | 5144.2 | 5144.2 | 5201.1 | 5258.1 | 5321.4 | 5378.3 | 5416.3 | 5479.5 | 5479.5 | 5542.8 |
| 7.5° | 5194.8 | 5163.2 | 5207.5 | 5232.8 | 5340.3 | 5447.9 | 5542.8 | 5618.8 | 5764.3 | 5814.9 | 5795.9 |
| 10° | 5207.5 | 5245.4 | 5277.1 | 5353.0 | 5485.9 | 5650.4 | 5732.6 | 5922.5 | 6087.0 | 6200.9 | 6226.2 |
| 12.5° | 5289.7 | 5346.7 | 5435.3 | 5618.8 | 5739.0 | 5954.1 | 6068.0 | 6251.5 | 6479.3 | 6605.8 | 6694.4 |
| 15° | 5447.9 | 5466.9 | 5580.8 | 5814.9 | 6074.3 | 6270.5 | 6447.6 | 6580.5 | 6802.0 | 6947.5 | 6953.8 |
| 17.5° | 5650.4 | 5732.6 | 5890.8 | 6112.3 | 6384.4 | 6675.4 | 6814.6 | 6960.2 | 7042.4 | 7238.6 | 7282.9 |
| 20° | 6055.3 | 6068.0 | 6219.9 | 6510.9 | 6852.6 | 7118.4 | 7219.6 | 7295.5 | 7263.9 | 7466.4 | 7504.3 |
| 22.5° | 6435.0 | 6447.6 | 6637.5 | 7029.8 | 7396.8 | 7624.5 | 7668.8 | 7624.5 | 7529.6 | 7675.2 | 7687.8 |
| 25° | 6821.0 | 6934.9 | 7074.1 | 7466.4 | 7921.9 | 8225.7 | 8232.0 | 8111.8 | 7915.6 | 7940.9 | 8004.2 |
| 27.5° | 7422.1 | 7504.3 | 7649.9 | 8010.5 | 8510.4 | 8852.1 | 8795.1 | 8649.6 | 8396.5 | 8415.5 | 8396.5 |
| 30° | 8124.4 | 8200.3 | 8320.6 | 8782.5 | 9149.5 | 9522.8 | 9605.0 | 9465.8 | 9086.2 | 9003.9 | 9098.8 |
| 32.5° | 8972.3 | 9079.9 | 9301.3 | 9725.2 | 10035.3 | 10263.1 | 10320.0 | 10269.4 | 9915.1 | 9883.4 | 9946.7 |
| 35° | 10003.7 | 10149.2 | 10351.7 | 10725.0 | 10978.1 | 11389.4 | 11389.4 | 11218.5 | 10895.8 | 10933.8 | 10927.5 |
| 37.5° | 11092.0 | 11307.1 | 11623.5 | 12003.1 | 12344.8 | 12566.3 | 12496.7 | 12351.1 | 12028.4 | 11946.2 | 12028.4 |
| 40° | 12458.7 | 12566.3 | 12964.9 | 13458.4 | 13876.0 | 14129.1 | 13831.7 | 13515.4 | 12743.4 | 12863.7 | 13085.1 |
| 42.5° | 13705.2 | 13876.0 | 14179.8 | 14723.9 | 15198.5 | 15407.3 | 15052.9 | 14426.5 | 13496.4 | 13401.5 | 13566.0 |
| 45° | 14768.2 | 14951.7 | 15350.3 | 16128.6 | 16628.5 | 16812.0 | 16027.4 | 15015.0 | 13952.0 | 13711.5 | 13781.1 |
| 47.5° | 15476.9 | 15571.8 | 16128.6 | 16868.9 | 17324.5 | 17742.1 | 16615.8 | 15419.9 | 14167.1 | 13711.5 | 13686.2 |
| 50° | 15204.8 | 15369.3 | 16021.0 | 16862.6 | 17691.5 | 17988.9 | 16913.2 | 15730.0 | 14236.7 | 13654.6 | 13578.7 |
| 52.5° | 13502.7 | 13787.5 | 14515.1 | 15647.7 | 16900.5 | 17963.6 | 17324.5 | 15628.7 | 14211.4 | 13711.5 | 13825.4 |
| 55° | 9396.2 | 9402.6 | 10288.4 | 11958.8 | 14173.4 | 16679.1 | 16723.4 | 15742.6 | 14375.9 | 14065.9 | 14072.2 |
| 57.5° | 3777.5 | 3967.3 | 4644.3 | 6321.1 | 8364.9 | 11452.6 | 13616.6 | 14603.7 | 14394.9 | 14319.0 | 14515.1 |
| 60° | 955.4 | 961.8 | 1170.6 | 1784.3 | 2942.3 | 4910.1 | 7131.0 | 9649.3 | 11111.0 | 11610.8 | 11680.4 |
| 62.5° | 487.2 | 493.5 | 544.2 | 632.7 | 803.6 | 1316.1 | 2341.1 | 3714.2 | 5283.4 | 6080.7 | 6289.5 |
| 65° | 398.6 | 398.6 | 430.3 | 474.6 | 480.9 | 506.2 | 607.4 | 866.9 | 1259.2 | 1430.0 | 1449.0 |
| 67.5° | 303.7 | 303.7 | 329.0 | 354.3 | 367.0 | 360.7 | 348.0 | 360.7 | 436.6 | 417.6 | 405.0 |
| 70° | 189.8 | 196.2 | 208.8 | 234.1 | 246.8 | 253.1 | 259.4 | 272.1 | 310.0 | 322.7 | 310.0 |
| 72.5° | 113.9 | 113.9 | 120.2 | 139.2 | 158.2 | 170.8 | 189.8 | 202.5 | 221.5 | 253.1 | 246.8 |
| 75° | 50.6 | 50.6 | 63.3 | 82.3 | 101.2 | 120.2 | 139.2 | 158.2 | 170.8 | 189.8 | 196.2 |
| 77.5° | 12.7 | 19.0 | 31.6 | 56.9 | 75.9 | 101.2 | 126.5 | 145.5 | 158.2 | 158.2 | 151.9 |
| 80° | 6.3 | 6.3 | 25.3 | 44.3 | 82.3 | 107.6 | 139.2 | 151.9 | 170.8 | 158.2 | 139.2 |
| 82.5° | 6.3 | 6.3 | 25.3 | 44.3 | 75.9 | 107.6 | 145.5 | 164.5 | 177.2 | 158.2 | 132.9 |
| 85° | 0.0 | 6.3 | 19.0 | 38.0 | 63.3 | 75.9 | 63.3 | 44.3 | 25.3 | 25.3 | 19.0 |
| 87.5° | 0.0 | 0.0 | 6.3 | 6.3 | 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)