

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: P532461

Luminaire Tested: **GALN-SA7D-750-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-750-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37015 lumens
Efficiency: N/A
Efficacy: 85.5 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

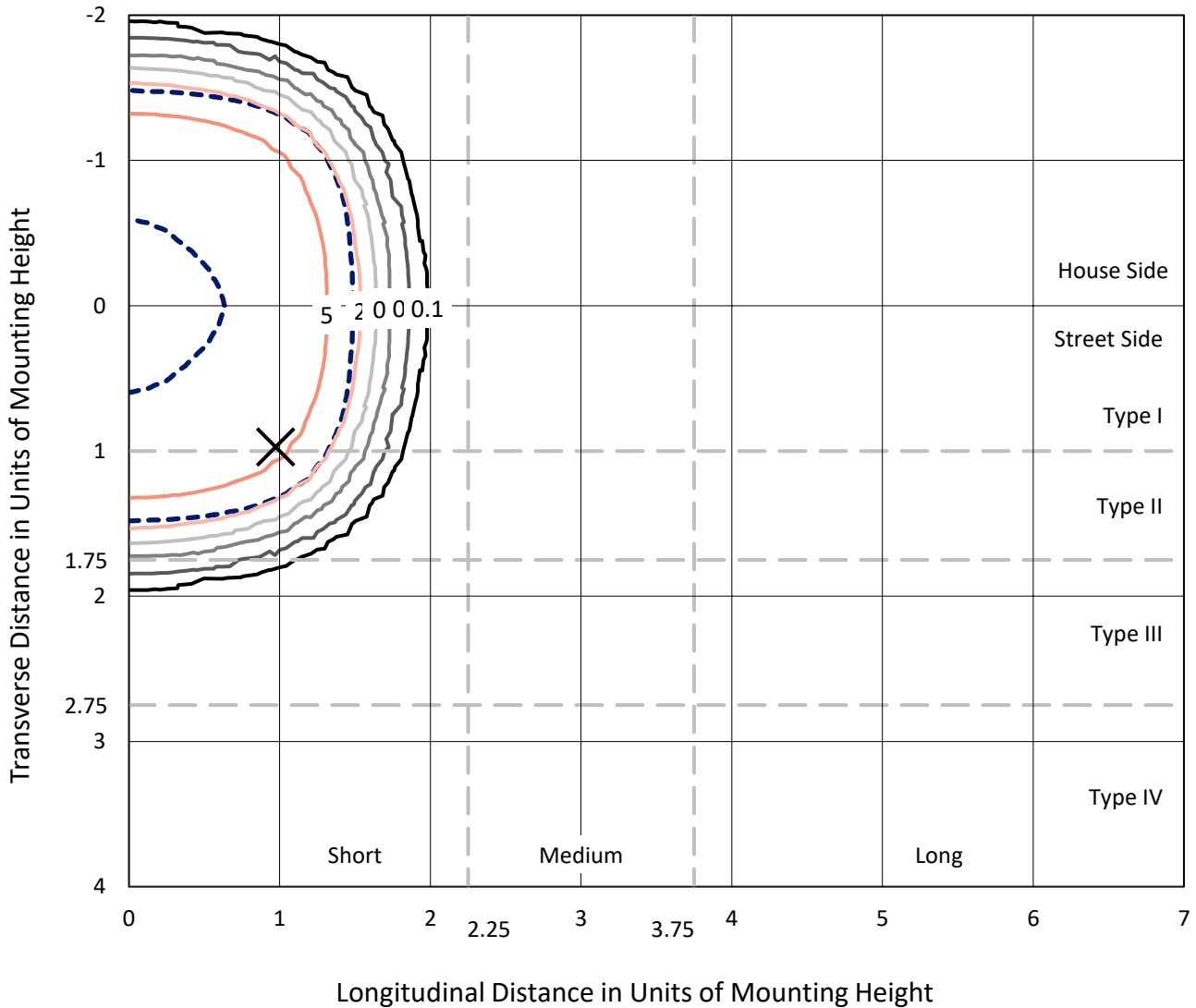
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

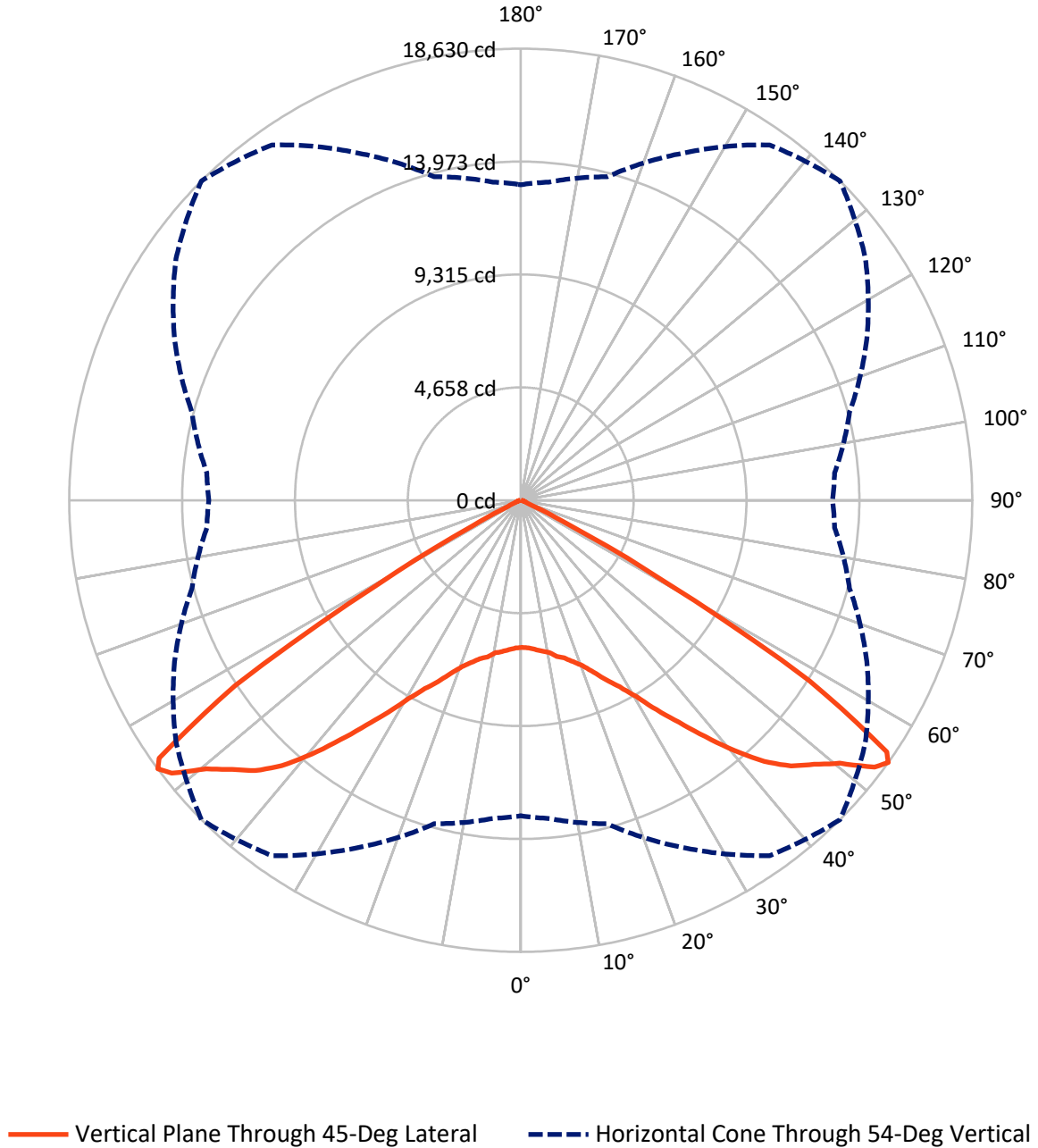
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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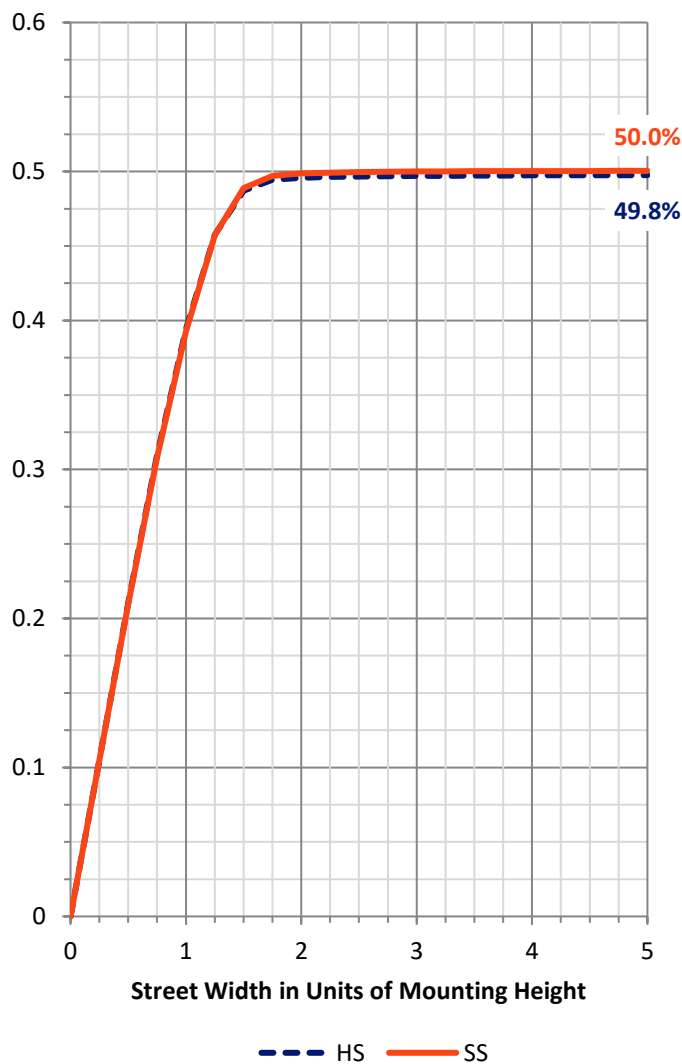
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18507.5 | 0.0 | 18507.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18507.5 | 0.0 | 18507.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37015.0 | 0.0 | 37015.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 594.0 | 1.6 |
| 10°-20° | 1923.7 | 5.2 |
| 20°-30° | 3770.4 | 10.2 |
| 30°-40° | 6780.0 | 18.3 |
| 40°-50° | 11606.0 | 31.4 |
| 50°-60° | 11229.9 | 30.3 |
| 60°-70° | 961.3 | 2.6 |
| 70°-80° | 113.9 | 0.3 |
| 80°-90° | 35.7 | 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° | 37015.0 | 100.0 |
| 0°-180° | 37015.0 | 100.0 |

Coefficient of Utilization



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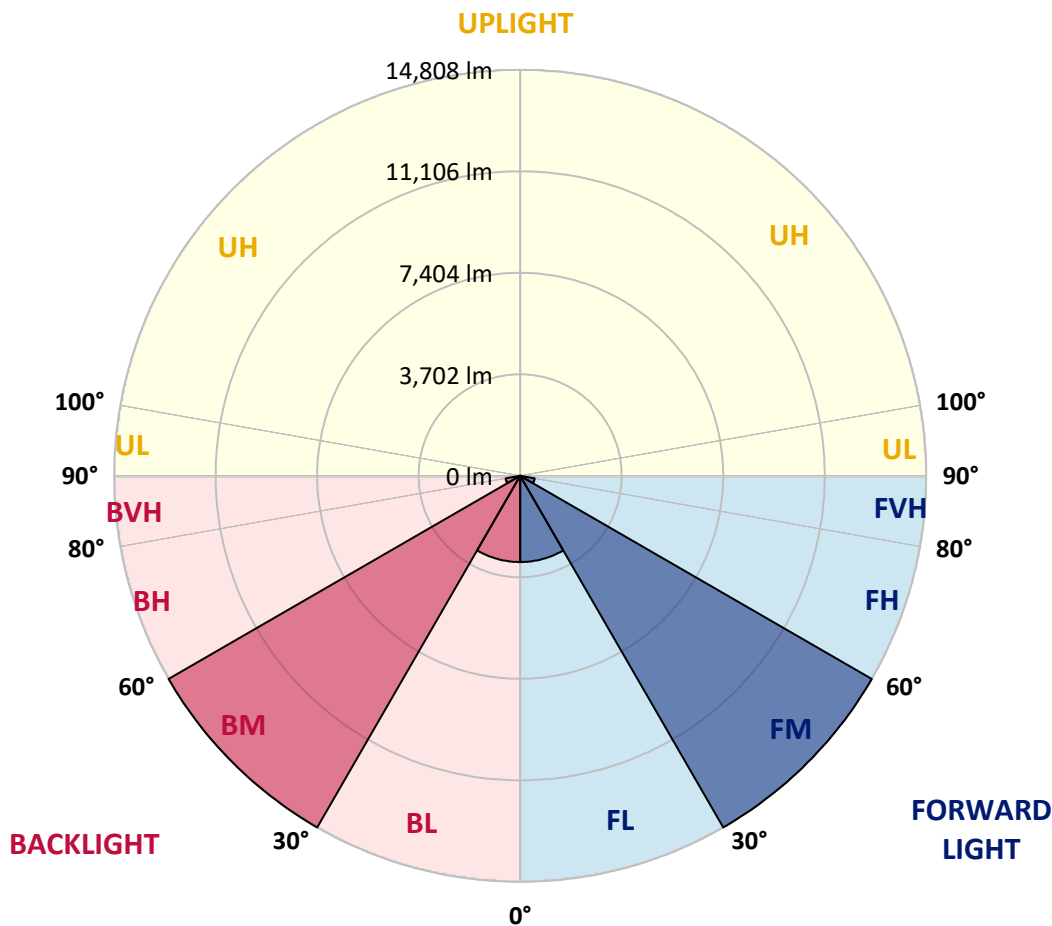
CATALOG NUMBER: GALN-SA7D-750-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3144.1 | 8.5 | | | |
| FM (30°-60°) | 14807.9 | 40.0 | | | |
| FH (60°-80°) | 537.6 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 17.9 | 0.0 | | | G1/100 |
| BL (0°-30°) | 3144.1 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 14807.9 | 40.0 | B5 | | |
| BH (60°-80°) | 537.6 | 1.5 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 17.9 | 0.0 | | | 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° | 6069.3 | 6069.3 | 6069.3 | 6069.3 | 6069.3 | 6069.3 | 6069.3 | 6069.3 | 6069.3 | 6069.3 | 6069.3 |
| 2.5° | 6098.6 | 6133.8 | 6110.4 | 6127.9 | 6127.9 | 6098.6 | 6116.2 | 6045.9 | 6092.8 | 6057.6 | 6063.4 |
| 5° | 6192.5 | 6186.6 | 6186.6 | 6192.5 | 6169.0 | 6180.7 | 6157.3 | 6133.8 | 6116.2 | 6092.8 | 6163.1 |
| 7.5° | 6309.7 | 6309.7 | 6268.7 | 6280.4 | 6268.7 | 6286.3 | 6239.4 | 6192.5 | 6174.9 | 6157.3 | 6145.5 |
| 10° | 6421.2 | 6409.4 | 6391.8 | 6444.6 | 6403.6 | 6380.1 | 6356.6 | 6327.3 | 6262.8 | 6239.4 | 6215.9 |
| 12.5° | 6585.3 | 6579.5 | 6556.0 | 6608.8 | 6585.3 | 6608.8 | 6520.8 | 6444.6 | 6432.9 | 6356.6 | 6397.7 |
| 15° | 6778.9 | 6831.6 | 6790.6 | 6790.6 | 6778.9 | 6749.5 | 6714.4 | 6679.2 | 6573.6 | 6544.3 | 6550.2 |
| 17.5° | 7031.0 | 7013.4 | 7019.3 | 7019.3 | 7077.9 | 7001.7 | 6931.3 | 6843.4 | 6790.6 | 6773.0 | 6714.4 |
| 20° | 7271.4 | 7294.9 | 7289.0 | 7330.1 | 7365.3 | 7283.2 | 7206.9 | 7195.2 | 7048.6 | 7072.1 | 6990.0 |
| 22.5° | 7693.7 | 7676.1 | 7705.4 | 7734.7 | 7711.2 | 7699.5 | 7629.1 | 7541.2 | 7412.2 | 7353.5 | 7341.8 |
| 25° | 8139.3 | 8110.0 | 8057.2 | 8127.6 | 8162.8 | 8215.6 | 8080.7 | 8033.8 | 7834.4 | 7746.4 | 7752.3 |
| 27.5° | 8520.5 | 8561.5 | 8620.2 | 8649.5 | 8737.5 | 8719.9 | 8626.0 | 8473.6 | 8321.1 | 8221.4 | 8156.9 |
| 30° | 9042.4 | 9065.8 | 9165.5 | 9206.6 | 9359.0 | 9400.1 | 9253.5 | 9077.6 | 8807.8 | 8678.8 | 8602.6 |
| 32.5° | 9523.2 | 9687.4 | 9681.6 | 9886.8 | 10133.1 | 10303.2 | 10039.3 | 9769.5 | 9499.8 | 9347.3 | 9212.4 |
| 35° | 10303.2 | 10273.8 | 10443.9 | 10660.9 | 11059.6 | 11253.1 | 10965.8 | 10655.0 | 10244.5 | 9998.2 | 9892.7 |
| 37.5° | 11030.3 | 11042.0 | 11270.7 | 11616.7 | 12074.1 | 12373.2 | 12121.0 | 11610.8 | 11188.6 | 10872.0 | 10725.4 |
| 40° | 12085.8 | 12109.3 | 12343.9 | 12736.7 | 13252.8 | 13575.3 | 13282.1 | 12766.1 | 12203.1 | 11956.8 | 11956.8 |
| 42.5° | 13323.2 | 13422.8 | 13575.3 | 13915.4 | 14378.7 | 14736.4 | 14472.5 | 14067.9 | 13499.1 | 13182.4 | 13229.3 |
| 45° | 14595.7 | 14642.6 | 14742.3 | 15246.6 | 15463.5 | 15639.5 | 15393.2 | 15205.5 | 14824.4 | 14437.3 | 14372.8 |
| 47.5° | 15786.1 | 15803.7 | 16096.9 | 16255.2 | 16425.2 | 16278.6 | 16437.0 | 16190.7 | 15762.6 | 15387.3 | 15311.1 |
| 50° | 16313.8 | 16284.5 | 16700.9 | 17181.7 | 17310.7 | 17052.7 | 16917.8 | 16753.6 | 16102.7 | 15651.2 | 15451.8 |
| 52.5° | 14777.4 | 14947.5 | 15721.6 | 17058.6 | 18067.2 | 18284.2 | 17498.4 | 16741.9 | 15528.0 | 14648.4 | 14513.6 |
| 54° | 13018.2 | 13176.6 | 13815.7 | 15797.8 | 17897.1 | 18630.1 | 17363.5 | 15756.7 | 14044.4 | 13000.6 | 12865.8 |
| 55° | 11276.6 | 11100.7 | 12261.8 | 14284.9 | 17099.6 | 18325.2 | 16829.9 | 14484.2 | 12525.6 | 11569.8 | 11382.1 |
| 57.5° | 6104.5 | 6133.8 | 7113.1 | 9024.8 | 12015.5 | 14050.3 | 12408.4 | 9798.9 | 7400.4 | 6327.3 | 6233.5 |
| 60° | 1935.1 | 1982.1 | 2410.1 | 3647.4 | 5740.9 | 6855.1 | 5875.8 | 3934.8 | 2720.9 | 2181.4 | 2093.5 |
| 62.5° | 604.0 | 627.5 | 686.1 | 1020.3 | 1571.6 | 2245.9 | 1759.2 | 1055.5 | 785.8 | 721.3 | 733.0 |
| 65° | 369.4 | 369.4 | 375.3 | 398.8 | 469.1 | 545.4 | 527.8 | 463.3 | 445.7 | 433.9 | 428.1 |
| 67.5° | 240.4 | 234.6 | 246.3 | 263.9 | 275.6 | 281.5 | 299.1 | 316.7 | 310.8 | 299.1 | 299.1 |
| 70° | 146.6 | 140.7 | 152.5 | 175.9 | 181.8 | 193.5 | 211.1 | 234.6 | 228.7 | 217.0 | 222.8 |
| 72.5° | 82.1 | 82.1 | 88.0 | 105.6 | 123.1 | 134.9 | 152.5 | 170.1 | 175.9 | 170.1 | 170.1 |
| 75° | 29.3 | 35.2 | 46.9 | 64.5 | 76.2 | 93.8 | 111.4 | 129.0 | 146.6 | 134.9 | 129.0 |
| 77.5° | 11.7 | 11.7 | 23.5 | 41.0 | 58.6 | 76.2 | 105.6 | 123.1 | 134.9 | 123.1 | 111.4 |
| 80° | 5.9 | 5.9 | 17.6 | 35.2 | 52.8 | 70.4 | 88.0 | 105.6 | 111.4 | 99.7 | 88.0 |
| 82.5° | 5.9 | 5.9 | 17.6 | 35.2 | 52.8 | 64.5 | 93.8 | 105.6 | 117.3 | 105.6 | 88.0 |
| 85° | 0.0 | 5.9 | 17.6 | 35.2 | 46.9 | 52.8 | 52.8 | 35.2 | 29.3 | 17.6 | 17.6 |
| 87.5° | 0.0 | 0.0 | 5.9 | 0.0 | 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)