

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: P647117

Luminaire Tested: **GALN-SA8C-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38316.1 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

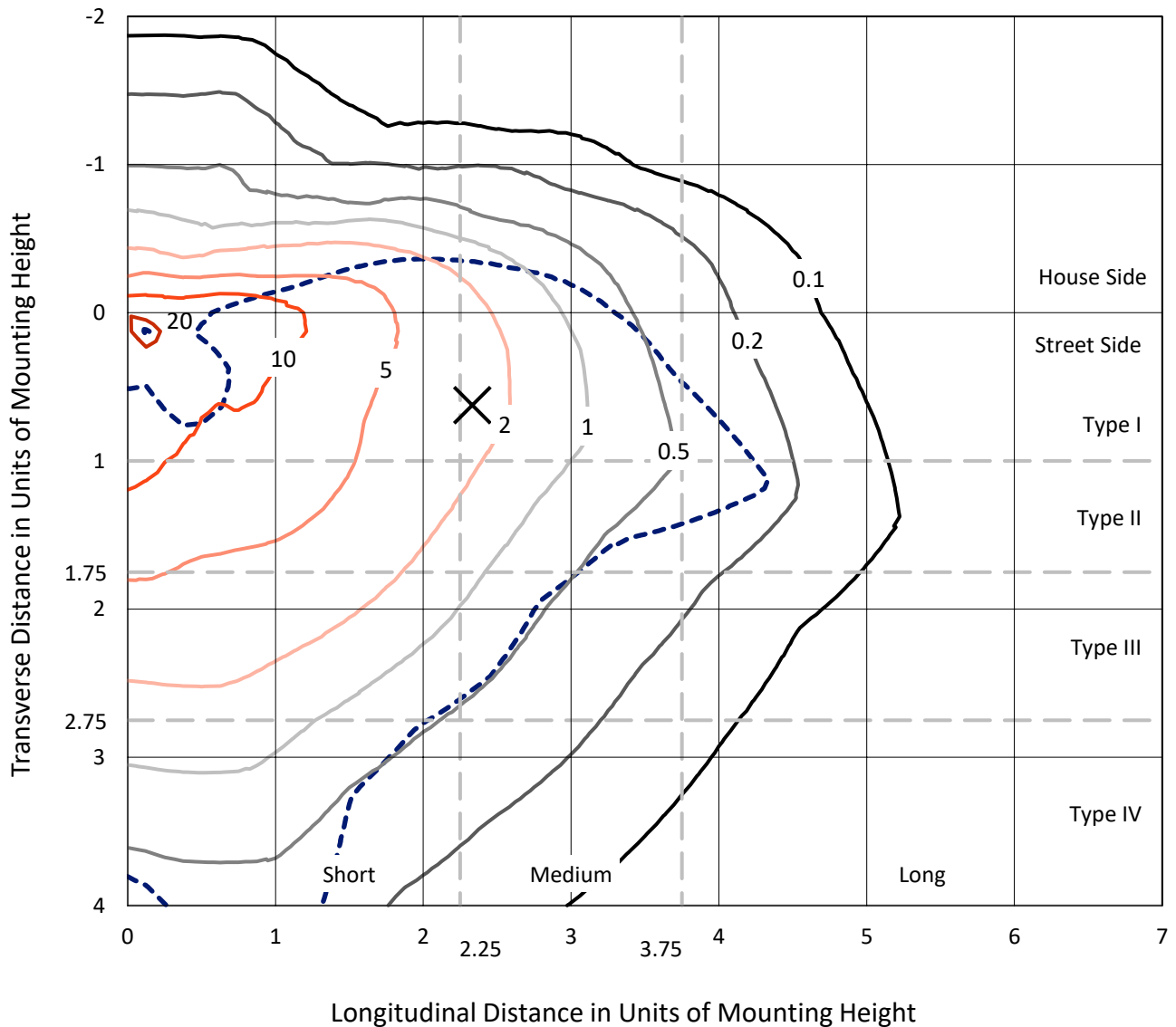
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

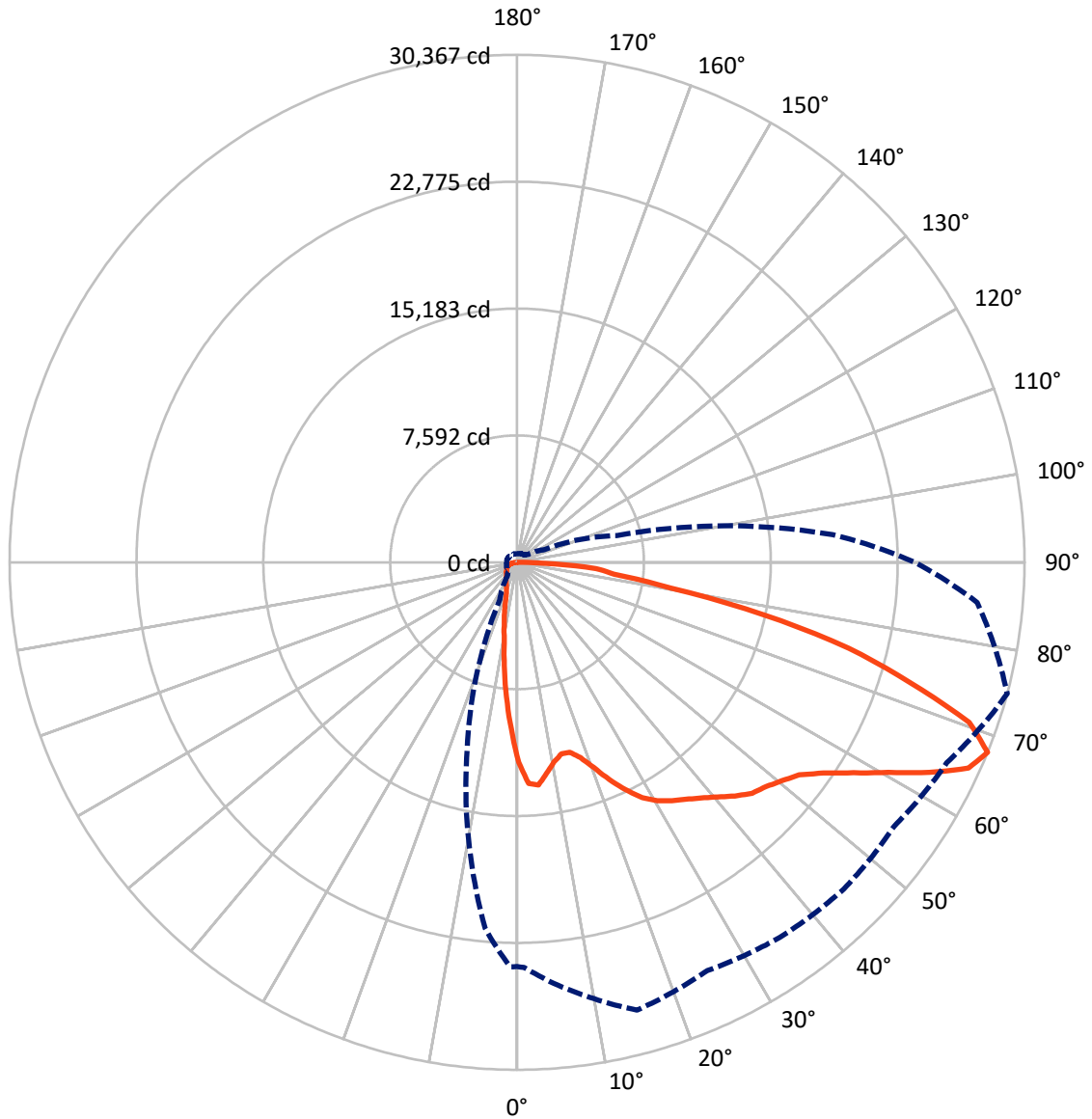
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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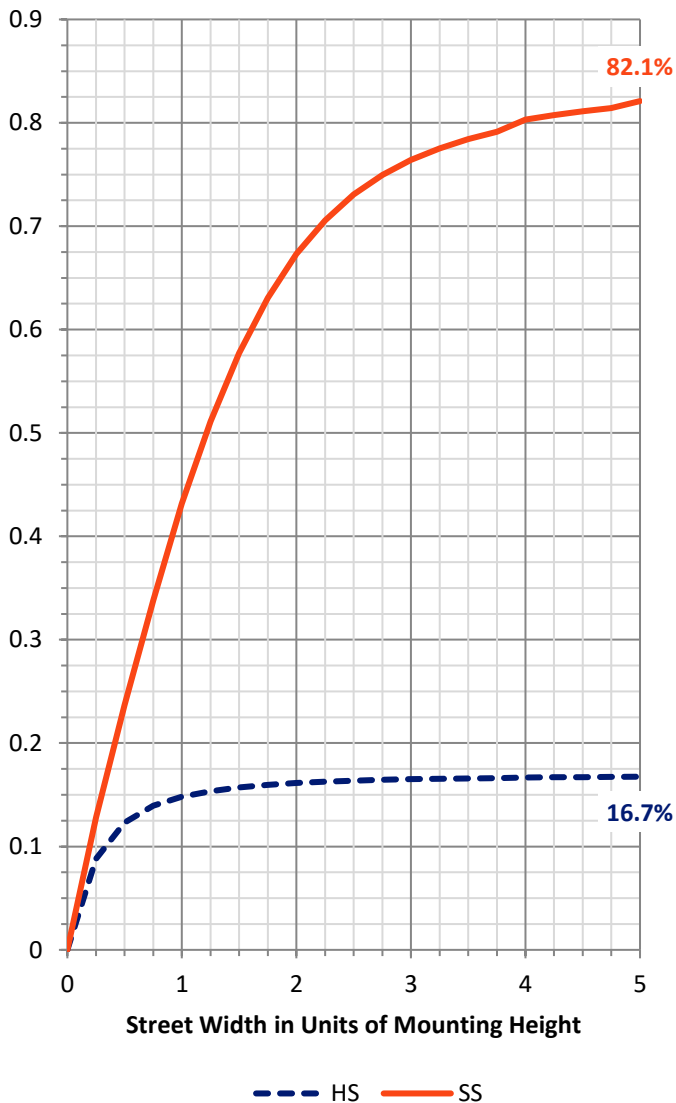
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6476.2   | 0.0    | 6476.2  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 31839.9  | 0.0    | 31839.9 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 38316.1  | 0.0    | 38316.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 908.0   | 2.4       |
| 10°-20°   | 1893.6  | 4.9       |
| 20°-30°   | 2724.9  | 7.1       |
| 30°-40°   | 3924.6  | 10.2      |
| 40°-50°   | 5513.0  | 14.4      |
| 50°-60°   | 7688.7  | 20.1      |
| 60°-70°   | 9141.3  | 23.9      |
| 70°-80°   | 5383.7  | 14.1      |
| 80°-90°   | 1138.5  | 3.0       |
| 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°    | 38316.1 | 100.0     |
| 0°-180°   | 38316.1 | 100.0     |

**Coefficient of Utilization**

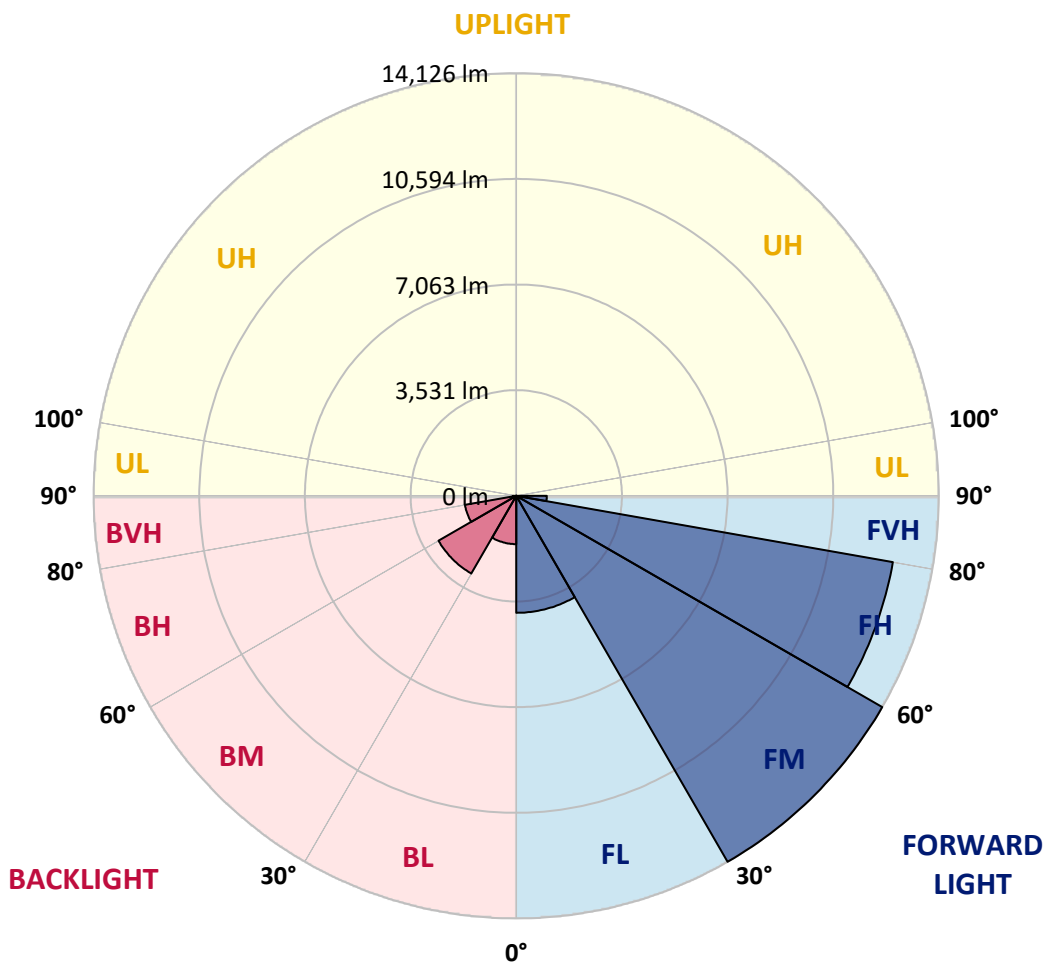


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3911.0  | 10.2      |                         |      |         |
| FM (30°-60°)   | 14125.7 | 36.9      |                         |      |         |
| FH (60°-80°)   | 12782.4 | 33.4      |                         |      | G5      |
| FVH (80°-90°)  | 1020.7  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1615.4  | 4.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 3000.5  | 7.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 1742.6  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 117.8   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 |
| 2.5°  | 12907.0 | 12924.2 | 13034.8 | 13356.6 | 13577.8 | 13658.9 | 13715.3 | 13609.7 | 13506.5 | 13255.9 | 12877.5 |
| 5°    | 12867.7 | 12968.4 | 13255.9 | 13978.3 | 14548.3 | 14794.0 | 14867.8 | 14550.8 | 14027.4 | 13383.7 | 12609.7 |
| 7.5°  | 12115.8 | 12251.0 | 12693.2 | 13904.6 | 14909.5 | 15484.5 | 15408.3 | 14835.8 | 13892.3 | 12744.8 | 11663.7 |
| 10°   | 11223.9 | 11373.8 | 11907.0 | 13371.4 | 14666.3 | 15457.4 | 15457.4 | 14759.6 | 13506.5 | 12142.8 | 10897.1 |
| 12.5° | 10516.2 | 10673.5 | 11282.9 | 12823.4 | 14160.1 | 14909.5 | 15034.9 | 14435.3 | 13228.9 | 11762.0 | 10393.4 |
| 15°   | 10282.8 | 10435.2 | 11091.2 | 12491.7 | 13624.4 | 14081.5 | 14123.3 | 13926.7 | 13093.7 | 11789.0 | 10371.3 |
| 17.5° | 10572.8 | 10769.4 | 11432.7 | 12590.0 | 13133.0 | 13160.1 | 13192.0 | 13346.8 | 13108.5 | 12282.9 | 10818.5 |
| 20°   | 11410.7 | 11622.0 | 12314.9 | 12907.0 | 12703.1 | 12422.9 | 12440.1 | 12838.2 | 13283.0 | 13098.7 | 11887.3 |
| 22.5° | 12619.5 | 12803.8 | 13513.9 | 13464.8 | 12521.3 | 11943.8 | 11823.5 | 12378.8 | 13540.9 | 14115.8 | 13025.0 |
| 25°   | 13924.2 | 14140.4 | 14956.2 | 14292.8 | 12572.9 | 11658.8 | 11582.6 | 12108.5 | 13808.8 | 15066.8 | 14339.5 |
| 27.5° | 15418.1 | 15629.5 | 16273.2 | 15128.2 | 12843.2 | 11636.7 | 11545.8 | 12083.9 | 14049.5 | 15946.4 | 15595.0 |
| 30°   | 16528.7 | 16722.8 | 17160.2 | 15830.9 | 13174.8 | 11784.2 | 11671.1 | 12278.0 | 14255.9 | 16548.4 | 16818.7 |
| 32.5° | 17401.0 | 17602.5 | 17840.8 | 16268.3 | 13612.2 | 12051.9 | 11843.1 | 12631.8 | 14526.2 | 17007.9 | 17725.3 |
| 35°   | 18310.1 | 18548.4 | 18531.3 | 16656.5 | 14020.1 | 12361.5 | 12157.6 | 13142.9 | 14951.3 | 17408.4 | 18875.2 |
| 37.5° | 19462.5 | 19558.3 | 19435.5 | 17005.4 | 14509.0 | 12919.3 | 12806.3 | 13902.1 | 15555.7 | 17892.4 | 20219.3 |
| 40°   | 20632.0 | 20823.7 | 20192.2 | 17428.0 | 15103.6 | 13968.5 | 13956.2 | 15025.0 | 16273.2 | 18460.0 | 21521.5 |
| 42.5° | 21634.5 | 21796.7 | 20899.8 | 17796.6 | 15823.6 | 15248.6 | 15341.9 | 16531.2 | 17214.3 | 19118.5 | 22568.2 |
| 45°   | 22388.9 | 22533.8 | 21553.4 | 18152.8 | 16772.0 | 16727.8 | 17278.1 | 18145.5 | 18401.0 | 19710.6 | 23182.5 |
| 47.5° | 23030.1 | 23170.2 | 22008.0 | 18693.4 | 17944.0 | 18494.4 | 19452.6 | 19828.6 | 19415.8 | 20049.7 | 23870.5 |
| 50°   | 23570.7 | 23612.5 | 22320.0 | 19337.1 | 19398.6 | 20659.1 | 21587.9 | 21831.1 | 20418.3 | 20536.2 | 24467.5 |
| 52.5° | 24133.4 | 24079.3 | 22858.1 | 20148.0 | 20971.1 | 22713.2 | 23388.8 | 23642.0 | 21379.0 | 21135.8 | 25337.3 |
| 55°   | 25393.9 | 25445.5 | 24064.6 | 21170.1 | 22560.8 | 24730.4 | 25619.9 | 25376.6 | 22442.9 | 22239.0 | 26443.0 |
| 57.5° | 26917.3 | 26873.0 | 25762.4 | 22769.7 | 24180.1 | 26607.7 | 27271.0 | 26880.4 | 23863.1 | 23755.0 | 27563.5 |
| 60°   | 27509.4 | 27568.3 | 27182.6 | 24489.7 | 25777.1 | 28251.4 | 28929.6 | 28322.7 | 25565.8 | 25516.7 | 28408.6 |
| 62.5° | 26914.8 | 27246.4 | 27506.9 | 26020.4 | 27138.4 | 29460.3 | 30133.5 | 29440.6 | 27342.3 | 27698.5 | 29000.8 |
| 65°   | 25730.5 | 25801.7 | 26688.7 | 27317.7 | 27794.4 | 29659.3 | 30010.7 | 29642.1 | 28826.4 | 29686.3 | 28973.8 |
| 67.5° | 24192.4 | 24253.7 | 25293.1 | 27742.8 | 26949.1 | 27398.8 | 27644.5 | 27536.4 | 28366.9 | 30366.9 | 27639.6 |
| 70°   | 22727.9 | 22678.8 | 23777.1 | 26659.3 | 23460.2 | 22777.1 | 22981.0 | 22641.9 | 24477.4 | 28703.5 | 25022.8 |
| 72.5° | 19877.7 | 20054.7 | 21234.0 | 23646.8 | 18575.5 | 17464.9 | 17909.6 | 17032.4 | 18826.1 | 24583.0 | 20310.2 |
| 75°   | 15570.5 | 15612.2 | 17580.4 | 19845.8 | 14012.6 | 12260.8 | 12862.8 | 12496.7 | 14420.6 | 20506.7 | 14024.9 |
| 77.5° | 10781.6 | 10688.3 | 12803.8 | 15157.7 | 9992.9  | 8975.7  | 8985.6  | 8811.1  | 10069.1 | 15098.7 | 9528.6  |
| 80°   | 6847.9  | 6705.4  | 8014.9  | 9363.9  | 6867.5  | 7346.7  | 7105.9  | 7098.5  | 6555.4  | 9314.7  | 5761.9  |
| 82.5° | 3700.4  | 3857.6  | 5064.1  | 5869.9  | 4926.4  | 5678.3  | 5204.1  | 5051.8  | 4498.9  | 5830.6  | 3685.6  |
| 85°   | 1685.6  | 1833.0  | 2700.3  | 3992.8  | 3742.1  | 3783.9  | 2528.3  | 2982.9  | 3722.5  | 4734.8  | 1968.1  |
| 87.5° | 164.6   | 211.3   | 557.7   | 1884.6  | 1277.7  | 1007.4  | 375.9   | 724.8   | 936.2   | 1683.1  | 157.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 |
| 2.5°  | 12722.7 | 12594.9 | 12160.1 | 11801.3 | 11420.4 | 11130.5 | 10752.2 | 10499.1 | 10324.6 | 10061.7 | 10029.8 |
| 5°    | 12137.9 | 11825.9 | 11069.1 | 10297.6 | 9631.8  | 9130.5  | 8621.8  | 8155.0  | 7879.8  | 7793.8  | 7683.3  |
| 7.5°  | 11152.7 | 10626.9 | 9653.8  | 8769.3  | 8005.2  | 7258.2  | 6683.2  | 6275.4  | 6002.6  | 5842.9  | 5651.3  |
| 10°   | 10341.8 | 9732.5  | 8548.2  | 7464.6  | 6835.6  | 6371.2  | 5865.1  | 5427.7  | 5091.1  | 4803.5  | 4646.3  |
| 12.5° | 9796.3  | 9108.4  | 7776.6  | 6897.0  | 6410.5  | 5916.7  | 5324.5  | 4833.1  | 4336.7  | 4010.0  | 3869.9  |
| 15°   | 9631.8  | 8904.4  | 7538.3  | 6614.5  | 5916.7  | 5270.5  | 4607.0  | 3965.7  | 3474.3  | 3164.7  | 3061.5  |
| 17.5° | 10034.7 | 9155.1  | 7535.8  | 6238.5  | 5336.8  | 4565.2  | 3715.1  | 3113.1  | 2609.4  | 2378.4  | 2304.8  |
| 20°   | 10786.5 | 9636.6  | 7558.0  | 5867.5  | 4707.8  | 3621.7  | 2702.8  | 2208.9  | 1968.1  | 1869.8  | 1833.0  |
| 22.5° | 11835.7 | 10371.3 | 7624.3  | 5501.4  | 4019.8  | 2781.4  | 2024.6  | 1774.0  | 1688.0  | 1670.8  | 1663.4  |
| 25°   | 13128.2 | 11280.4 | 7847.9  | 5172.1  | 3439.9  | 2122.9  | 1692.9  | 1579.9  | 1530.8  | 1513.5  | 1511.1  |
| 27.5° | 14317.4 | 12454.9 | 8118.1  | 4889.6  | 2879.7  | 1830.5  | 1530.8  | 1434.9  | 1385.8  | 1383.3  | 1388.3  |
| 30°   | 15391.1 | 13437.8 | 8344.2  | 4572.6  | 2454.6  | 1626.6  | 1425.1  | 1329.3  | 1282.6  | 1280.1  | 1294.8  |
| 32.5° | 16319.9 | 14246.1 | 8511.3  | 4260.5  | 2218.7  | 1501.2  | 1329.3  | 1226.1  | 1186.8  | 1179.4  | 1186.8  |
| 35°   | 17312.5 | 15052.0 | 8435.1  | 4017.3  | 2083.6  | 1398.0  | 1258.0  | 1157.3  | 1110.6  | 1088.4  | 1088.4  |
| 37.5° | 18445.2 | 15882.5 | 8304.9  | 3815.9  | 2022.2  | 1312.1  | 1196.6  | 1098.3  | 1051.6  | 1029.5  | 1027.1  |
| 40°   | 19681.2 | 16713.0 | 8125.5  | 3636.5  | 1960.7  | 1260.5  | 1154.8  | 1051.6  | 995.1   | 973.0   | 968.1   |
| 42.5° | 20772.1 | 17423.1 | 7978.1  | 3518.6  | 1860.0  | 1270.3  | 1118.0  | 1017.2  | 945.9   | 916.5   | 914.0   |
| 45°   | 21720.5 | 18138.1 | 7951.1  | 3449.7  | 1776.5  | 1255.5  | 1108.1  | 990.2   | 906.6   | 874.7   | 869.8   |
| 47.5° | 22462.5 | 18882.6 | 8105.9  | 3410.4  | 1685.6  | 1176.9  | 1172.0  | 973.0   | 872.3   | 837.9   | 833.0   |
| 50°   | 23366.8 | 19939.2 | 8459.7  | 3329.3  | 1602.0  | 1103.2  | 1238.4  | 970.5   | 845.2   | 801.0   | 788.7   |
| 52.5° | 24570.7 | 21315.1 | 8938.8  | 3184.4  | 1481.6  | 1034.4  | 1181.9  | 970.5   | 813.3   | 769.1   | 754.3   |
| 55°   | 26391.4 | 23069.5 | 9408.1  | 2980.4  | 1312.1  | 943.5   | 1066.4  | 941.1   | 766.6   | 727.3   | 717.5   |
| 57.5° | 27597.9 | 24352.1 | 9707.9  | 2697.9  | 1100.7  | 877.2   | 918.9   | 894.3   | 719.9   | 678.2   | 678.2   |
| 60°   | 27659.2 | 24696.1 | 9565.4  | 2341.6  | 968.1   | 815.7   | 798.6   | 901.8   | 678.2   | 633.9   | 629.0   |
| 62.5° | 26951.6 | 23853.2 | 8823.3  | 2022.2  | 896.8   | 749.4   | 722.4   | 791.1   | 636.3   | 592.2   | 584.7   |
| 65°   | 25846.0 | 21703.4 | 7535.8  | 1869.8  | 857.5   | 690.4   | 651.1   | 648.6   | 592.2   | 550.4   | 540.6   |
| 67.5° | 23813.9 | 18966.1 | 6191.8  | 1781.4  | 837.9   | 624.1   | 587.2   | 575.0   | 540.6   | 506.1   | 501.3   |
| 70°   | 20818.8 | 15885.0 | 4965.7  | 1744.5  | 828.0   | 555.3   | 525.8   | 511.1   | 481.6   | 454.5   | 452.1   |
| 72.5° | 16197.1 | 12884.9 | 4098.4  | 1719.9  | 823.1   | 491.4   | 459.5   | 439.8   | 422.6   | 398.1   | 398.1   |
| 75°   | 11634.2 | 9479.4  | 3127.9  | 1550.4  | 761.7   | 422.6   | 388.2   | 375.9   | 351.3   | 331.7   | 336.6   |
| 77.5° | 7334.4  | 6383.5  | 2059.1  | 1140.0  | 589.7   | 339.0   | 309.6   | 302.2   | 282.6   | 255.6   | 272.7   |
| 80°   | 4953.5  | 4489.1  | 1201.5  | 717.5   | 371.0   | 248.1   | 238.3   | 235.9   | 213.8   | 184.3   | 186.7   |
| 82.5° | 3371.1  | 3307.2  | 624.1   | 407.9   | 213.8   | 144.9   | 140.1   | 144.9   | 120.4   | 98.3    | 98.3    |
| 85°   | 1317.0  | 1798.6  | 294.9   | 159.7   | 68.8    | 22.1    | 31.9    | 34.4    | 19.7    | 9.9     | 12.3    |
| 87.5° | 24.6    | 184.3   | 7.4     | 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     |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 |
| 2.5°  | 9980.7  | 9958.5  | 9995.4  | 9838.1  | 9870.0  | 9929.1  | 9958.5  | 9975.7  | 10218.9 | 10162.5 | 10317.3 |
| 5°    | 7786.5  | 7764.4  | 7906.9  | 7926.5  | 8000.2  | 7985.5  | 8056.8  | 8073.9  | 8162.4  | 8194.3  | 8410.6  |
| 7.5°  | 5663.5  | 5759.4  | 5921.5  | 6005.1  | 6130.4  | 6169.7  | 6132.8  | 6223.8  | 6039.5  | 6172.2  | 6211.5  |
| 10°   | 4550.5  | 4435.0  | 4366.2  | 4557.8  | 4582.4  | 4764.2  | 4690.6  | 4631.6  | 4739.7  | 4744.6  | 4847.8  |
| 12.5° | 3788.8  | 3540.6  | 3376.0  | 3430.1  | 3489.0  | 3567.7  | 3580.0  | 3697.9  | 3776.5  | 3850.2  | 3911.6  |
| 15°   | 2970.6  | 2884.6  | 2734.7  | 2661.0  | 2744.6  | 2776.5  | 2852.6  | 2951.0  | 3034.5  | 3056.6  | 3140.1  |
| 17.5° | 2280.2  | 2294.9  | 2270.3  | 2226.1  | 2277.7  | 2302.3  | 2307.2  | 2309.6  | 2331.8  | 2317.1  | 2439.9  |
| 20°   | 1835.4  | 1887.0  | 1948.5  | 1958.3  | 1975.5  | 1987.8  | 1965.6  | 1882.1  | 1884.6  | 1936.2  | 1975.5  |
| 22.5° | 1661.0  | 1670.8  | 1739.6  | 1761.8  | 1815.8  | 1793.7  | 1729.8  | 1690.5  | 1685.6  | 1697.9  | 1717.5  |
| 25°   | 1523.4  | 1538.1  | 1587.3  | 1621.7  | 1663.4  | 1624.1  | 1577.4  | 1540.6  | 1535.7  | 1548.0  | 1567.6  |
| 27.5° | 1400.6  | 1422.6  | 1466.9  | 1501.2  | 1540.6  | 1503.8  | 1459.5  | 1427.6  | 1425.1  | 1422.6  | 1434.9  |
| 30°   | 1302.3  | 1326.8  | 1358.7  | 1398.0  | 1425.1  | 1393.2  | 1351.4  | 1334.2  | 1331.7  | 1326.8  | 1331.7  |
| 32.5° | 1203.9  | 1243.2  | 1275.2  | 1294.8  | 1321.9  | 1297.4  | 1265.4  | 1255.5  | 1238.4  | 1223.6  | 1216.2  |
| 35°   | 1093.4  | 1135.2  | 1184.3  | 1208.9  | 1235.9  | 1211.3  | 1189.2  | 1147.5  | 1118.0  | 1115.5  | 1120.4  |
| 37.5° | 1029.5  | 1046.7  | 1086.0  | 1127.8  | 1154.8  | 1142.6  | 1100.7  | 1059.0  | 1051.6  | 1051.6  | 1056.6  |
| 40°   | 973.0   | 980.4   | 997.5   | 1051.6  | 1100.7  | 1063.9  | 1012.3  | 1000.0  | 1000.0  | 997.5   | 1000.0  |
| 42.5° | 916.5   | 923.9   | 923.9   | 965.6   | 1044.3  | 985.2   | 945.9   | 945.9   | 945.9   | 948.4   | 955.8   |
| 45°   | 864.9   | 867.3   | 864.9   | 894.3   | 968.1   | 918.9   | 891.9   | 899.3   | 904.2   | 909.1   | 914.0   |
| 47.5° | 820.7   | 823.1   | 820.7   | 845.2   | 882.1   | 862.4   | 847.7   | 857.5   | 867.3   | 874.7   | 879.6   |
| 50°   | 781.4   | 778.9   | 783.8   | 798.6   | 815.7   | 820.7   | 810.8   | 825.6   | 830.5   | 840.3   | 852.6   |
| 52.5° | 747.0   | 744.5   | 749.4   | 756.8   | 781.4   | 781.4   | 781.4   | 793.6   | 803.4   | 813.3   | 830.5   |
| 55°   | 707.7   | 710.1   | 717.5   | 727.3   | 759.2   | 754.3   | 756.8   | 766.6   | 776.4   | 791.1   | 801.0   |
| 57.5° | 670.8   | 675.7   | 685.5   | 700.2   | 732.2   | 729.8   | 732.2   | 737.1   | 749.4   | 756.8   | 766.6   |
| 60°   | 629.0   | 638.8   | 651.1   | 660.9   | 692.9   | 690.4   | 702.7   | 712.5   | 719.9   | 719.9   | 724.8   |
| 62.5° | 587.2   | 602.0   | 614.3   | 621.6   | 656.1   | 658.5   | 675.7   | 683.1   | 687.9   | 683.1   | 690.4   |
| 65°   | 545.4   | 567.6   | 572.5   | 582.3   | 616.7   | 619.2   | 638.8   | 656.1   | 651.1   | 646.2   | 658.5   |
| 67.5° | 503.7   | 530.7   | 528.3   | 540.6   | 575.0   | 579.9   | 597.0   | 626.6   | 616.7   | 611.8   | 621.6   |
| 70°   | 457.0   | 476.7   | 479.1   | 486.5   | 533.2   | 525.8   | 552.9   | 579.9   | 572.5   | 575.0   | 575.0   |
| 72.5° | 405.4   | 422.6   | 422.6   | 437.4   | 486.5   | 474.2   | 496.3   | 525.8   | 525.8   | 523.4   | 523.4   |
| 75°   | 344.0   | 353.8   | 363.6   | 385.8   | 437.4   | 422.6   | 437.4   | 464.4   | 469.3   | 464.4   | 464.4   |
| 77.5° | 277.7   | 292.4   | 297.3   | 326.8   | 363.6   | 361.2   | 375.9   | 388.2   | 398.1   | 393.1   | 393.1   |
| 80°   | 196.5   | 211.3   | 231.0   | 262.9   | 285.0   | 292.4   | 299.7   | 309.6   | 314.5   | 314.5   | 319.4   |
| 82.5° | 110.6   | 132.7   | 149.9   | 181.8   | 191.7   | 228.5   | 226.1   | 233.4   | 226.1   | 199.0   | 221.1   |
| 85°   | 24.6    | 46.7    | 66.3    | 83.5    | 95.8    | 132.7   | 140.1   | 157.2   | 130.2   | 120.4   | 120.4   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 19.7    | 39.3    | 54.0    | 46.7    | 39.3    | 39.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 | 11970.9 |
| 2.5°  | 10447.5 | 10661.2 | 10919.2 | 11364.0 | 11676.0 | 12012.6 | 12351.7 | 12712.9 | 12808.7 | 12907.0 |
| 5°    | 8469.6  | 8889.7  | 9118.2  | 9715.2  | 10341.8 | 11137.9 | 11789.0 | 12501.6 | 12798.9 | 12867.7 |
| 7.5°  | 6415.4  | 6700.4  | 7300.0  | 7904.4  | 8680.8  | 9516.3  | 10513.8 | 11624.4 | 11970.9 | 12115.8 |
| 10°   | 5086.1  | 5474.3  | 6000.2  | 6648.8  | 7329.4  | 8228.7  | 9354.1  | 10651.4 | 11142.8 | 11223.9 |
| 12.5° | 4329.4  | 4761.8  | 5334.3  | 6019.9  | 6663.6  | 7341.7  | 8476.9  | 9816.0  | 10341.8 | 10516.2 |
| 15°   | 3462.0  | 3985.4  | 4646.3  | 5368.7  | 6069.0  | 6811.0  | 7960.9  | 9472.0  | 10078.9 | 10282.8 |
| 17.5° | 2720.0  | 3142.6  | 3857.6  | 4641.4  | 5471.9  | 6410.5  | 7852.8  | 9636.6  | 10383.6 | 10572.8 |
| 20°   | 2081.1  | 2383.4  | 2985.3  | 3813.4  | 4786.4  | 6014.9  | 7879.8  | 10258.2 | 11152.7 | 11410.7 |
| 22.5° | 1798.6  | 1953.4  | 2319.5  | 3108.2  | 4196.6  | 5671.0  | 7990.4  | 11110.8 | 12189.5 | 12619.5 |
| 25°   | 1629.0  | 1710.2  | 1916.5  | 2432.5  | 3634.0  | 5336.8  | 8243.5  | 12258.3 | 13639.2 | 13924.2 |
| 27.5° | 1484.1  | 1543.1  | 1670.8  | 2041.8  | 3122.9  | 5027.2  | 8538.3  | 13531.1 | 14993.0 | 15418.1 |
| 30°   | 1346.4  | 1425.1  | 1545.5  | 1813.3  | 2796.2  | 4744.6  | 8909.4  | 14563.1 | 16133.2 | 16528.7 |
| 32.5° | 1240.8  | 1319.4  | 1430.0  | 1653.6  | 2518.5  | 4447.3  | 9130.5  | 15469.7 | 17064.4 | 17401.0 |
| 35°   | 1154.8  | 1221.2  | 1336.7  | 1525.8  | 2307.2  | 4221.2  | 9086.2  | 16189.6 | 17966.1 | 18310.1 |
| 37.5° | 1093.4  | 1149.9  | 1265.4  | 1405.4  | 2147.5  | 3985.4  | 9064.2  | 17140.6 | 19064.4 | 19462.5 |
| 40°   | 1036.8  | 1095.9  | 1201.5  | 1326.8  | 1987.8  | 3707.7  | 9076.5  | 18084.1 | 20234.0 | 20632.0 |
| 42.5° | 992.7   | 1059.0  | 1145.0  | 1304.7  | 1823.1  | 3484.1  | 9076.5  | 18904.8 | 21251.2 | 21634.5 |
| 45°   | 955.8   | 1027.1  | 1110.6  | 1302.3  | 1692.9  | 3314.6  | 9015.0  | 19609.9 | 22062.0 | 22388.9 |
| 47.5° | 923.9   | 1002.5  | 1122.9  | 1258.0  | 1661.0  | 3191.7  | 8961.0  | 20175.0 | 22723.0 | 23030.1 |
| 50°   | 901.8   | 995.1   | 1194.2  | 1206.4  | 1670.8  | 3154.9  | 9221.4  | 20887.5 | 23305.4 | 23570.7 |
| 52.5° | 884.6   | 997.5   | 1191.6  | 1130.3  | 1653.6  | 3179.4  | 9764.4  | 22000.7 | 24113.7 | 24133.4 |
| 55°   | 850.2   | 995.1   | 1130.3  | 1044.3  | 1582.4  | 3221.2  | 10462.2 | 23617.4 | 25379.1 | 25393.9 |
| 57.5° | 815.7   | 968.1   | 1049.1  | 970.5   | 1437.4  | 3221.2  | 11302.5 | 25148.2 | 26905.0 | 26917.3 |
| 60°   | 781.4   | 1007.4  | 921.4   | 906.6   | 1248.2  | 3162.2  | 12189.5 | 25821.4 | 27384.1 | 27509.4 |
| 62.5° | 747.0   | 1014.8  | 823.1   | 850.2   | 1110.6  | 3019.7  | 12850.5 | 25076.9 | 26735.4 | 26914.8 |
| 65°   | 707.7   | 818.2   | 759.2   | 791.1   | 1039.4  | 2781.4  | 12641.6 | 23713.2 | 25516.7 | 25730.5 |
| 67.5° | 660.9   | 692.9   | 690.4   | 729.8   | 1014.8  | 2430.0  | 11540.9 | 21988.4 | 24204.6 | 24192.4 |
| 70°   | 604.5   | 621.6   | 629.0   | 670.8   | 968.1   | 2157.3  | 9617.0  | 19749.9 | 22452.8 | 22727.9 |
| 72.5° | 545.4   | 560.2   | 567.6   | 604.5   | 921.4   | 2002.5  | 7464.6  | 16666.3 | 19447.8 | 19877.7 |
| 75°   | 481.6   | 491.4   | 501.3   | 533.2   | 872.3   | 1774.0  | 5317.1  | 12722.7 | 14894.8 | 15570.5 |
| 77.5° | 415.2   | 415.2   | 427.5   | 459.5   | 734.7   | 1464.4  | 3567.7  | 8924.1  | 10091.2 | 10781.6 |
| 80°   | 336.6   | 339.0   | 334.2   | 368.6   | 540.6   | 1002.5  | 2027.1  | 5960.8  | 6715.2  | 6847.9  |
| 82.5° | 258.0   | 250.6   | 253.1   | 270.3   | 402.9   | 683.1   | 1081.1  | 3702.8  | 3774.1  | 3700.4  |
| 85°   | 162.2   | 162.2   | 157.2   | 176.9   | 258.0   | 356.3   | 589.7   | 2267.9  | 1771.5  | 1685.6  |
| 87.5° | 66.3    | 54.0    | 61.5    | 71.3    | 122.9   | 144.9   | 231.0   | 466.8   | 179.4   | 164.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)