

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: P957355

Luminaire Tested: **GALN-SB9D-727-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 65612 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
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



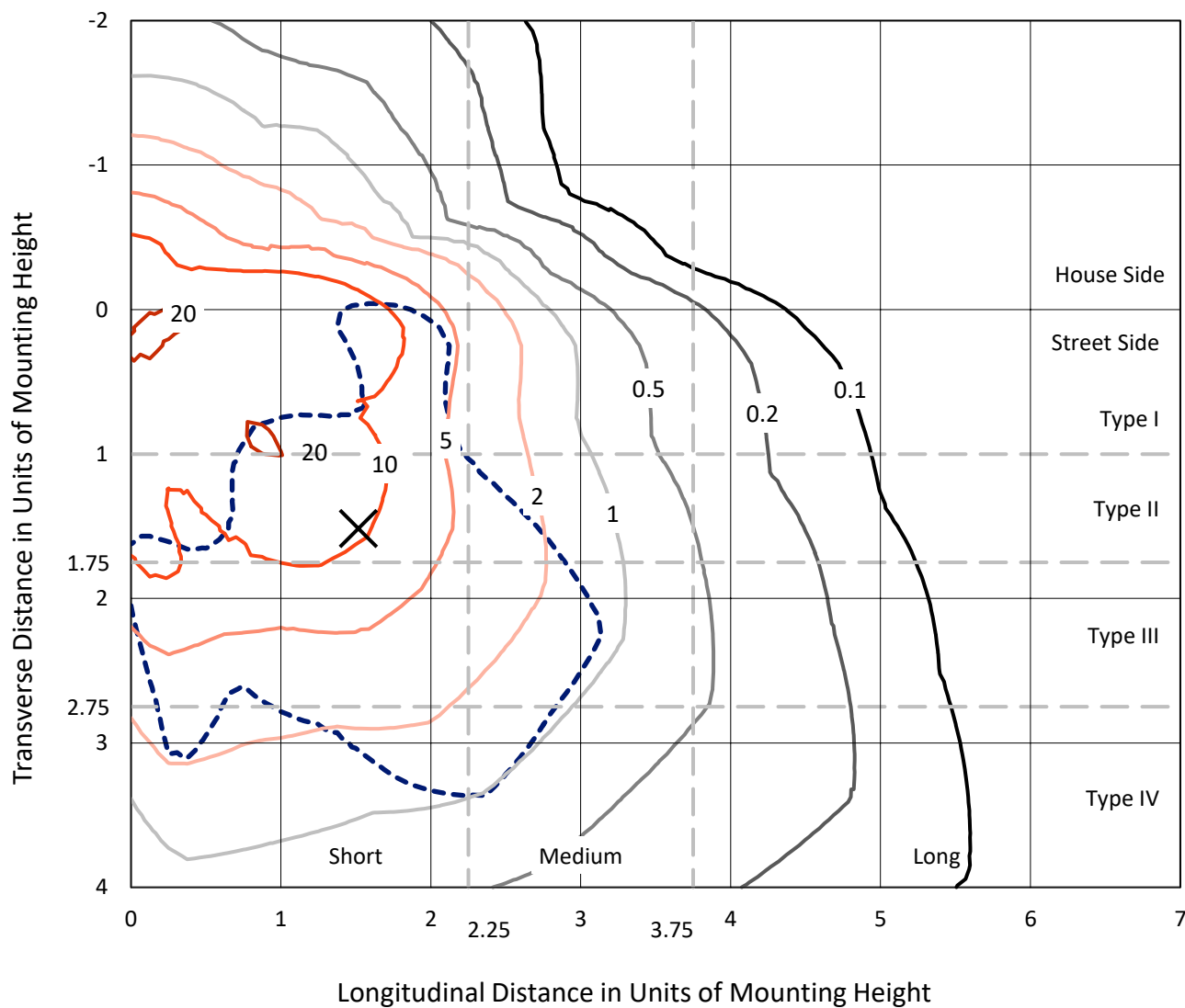
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## Iso-Footcandle Lines of Horizontal Illumination

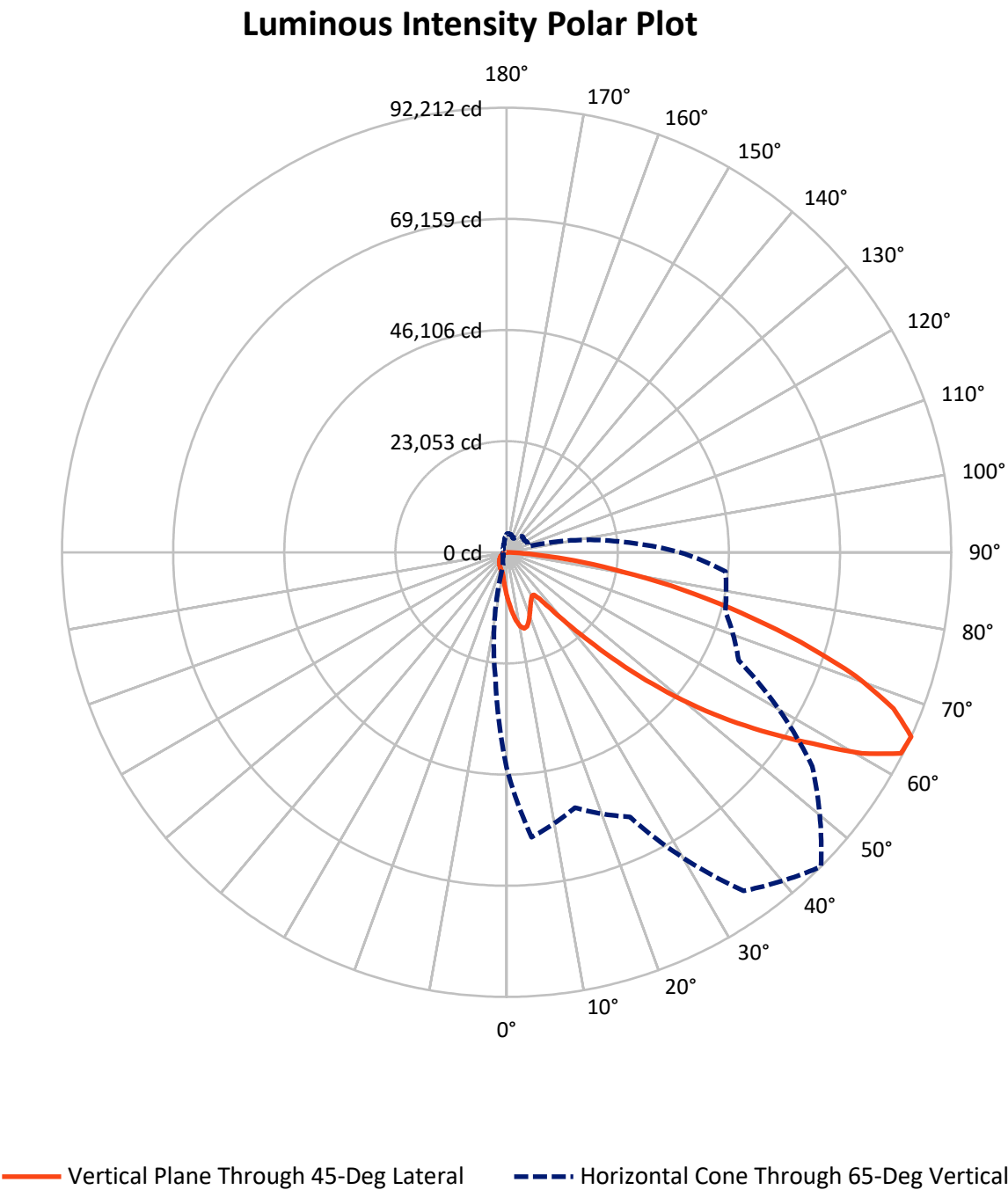
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc  
Type IV - Short - N/A

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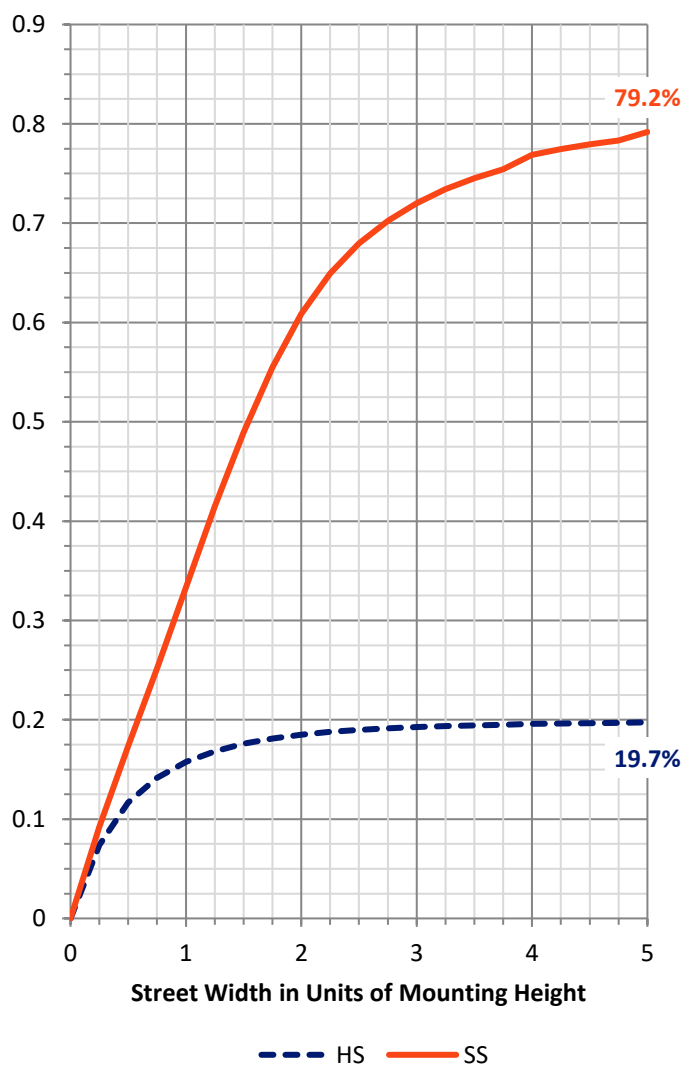
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13041.7  | 0.0    | 13041.7 |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 52570.4  | 0.0    | 52570.4 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 65612.0  | 0.0    | 65612.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 894.5   | 1.4       |
| 10°-20°   | 2681.3  | 4.1       |
| 20°-30°   | 3950.2  | 6.0       |
| 30°-40°   | 5074.9  | 7.7       |
| 40°-50°   | 8207.6  | 12.5      |
| 50°-60°   | 14392.8 | 21.9      |
| 60°-70°   | 18009.3 | 27.4      |
| 70°-80°   | 10523.8 | 16.0      |
| 80°-90°   | 1877.6  | 2.9       |
| 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°    | 65612.0 | 100.0     |
| 0°-180°   | 65612.0 | 100.0     |

**Coefficient of Utilization**



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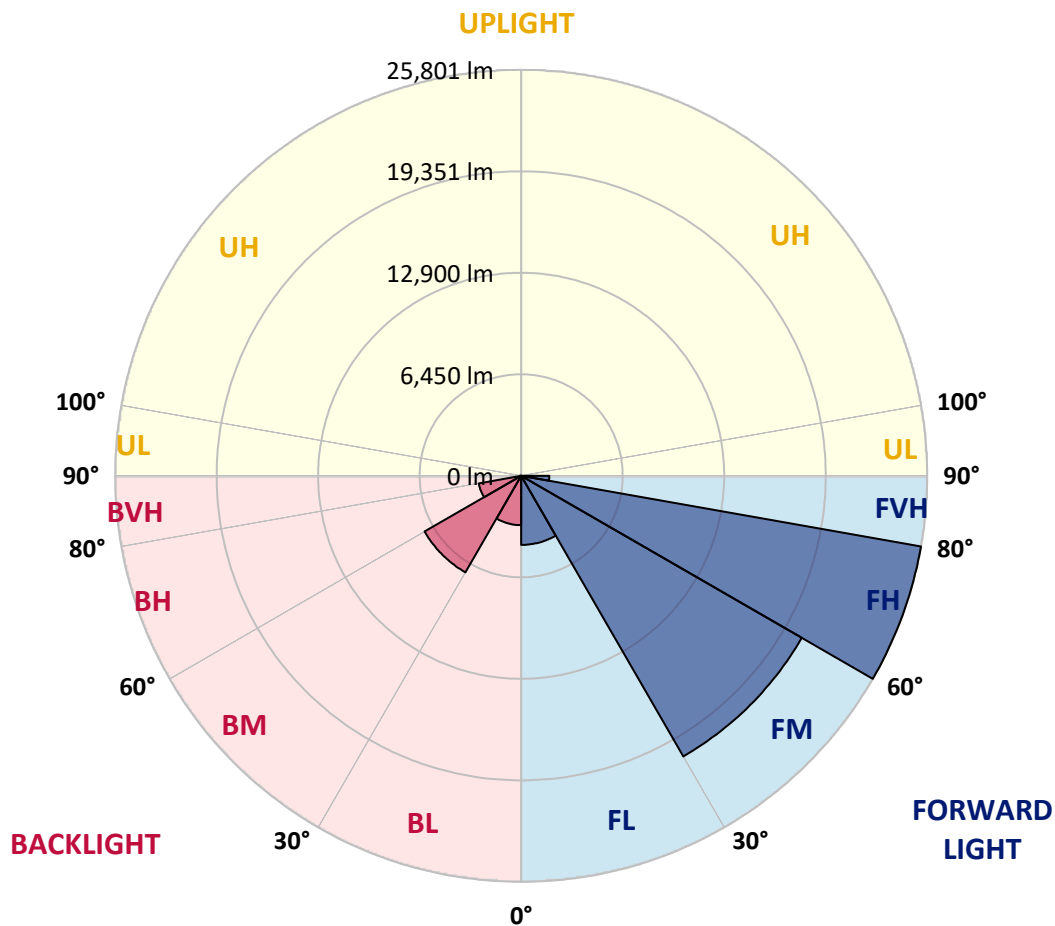
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4390.2  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 20589.8 | 31.4      |                         |      |         |
| FH   | (60°-80°)   | 25800.7 | 39.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1789.6  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 3135.8  | 4.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 7085.4  | 10.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2732.5  | 4.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 88.0    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2  |
| 2.5°  | 10179.0 | 10255.8 | 10427.6 | 10518.0 | 10658.1 | 10667.2 | 10667.2 | 10545.1 | 10540.6 | 10292.0 | 10264.9 |
| 5°    | 11376.8 | 11557.6 | 11964.4 | 12384.7 | 12475.1 | 12497.7 | 12452.5 | 12208.5 | 12027.7 | 11544.0 | 11440.1 |
| 7.5°  | 12565.5 | 12913.6 | 13532.8 | 14093.3 | 14274.1 | 14274.1 | 14165.6 | 13767.9 | 13397.2 | 12696.6 | 12434.5 |
| 10°   | 13550.9 | 13989.3 | 14830.1 | 15458.3 | 15666.3 | 15621.1 | 15399.6 | 14897.9 | 14387.1 | 13537.3 | 13193.8 |
| 12.5° | 14201.8 | 14694.5 | 15616.5 | 16122.8 | 16335.2 | 16217.7 | 15964.6 | 15476.4 | 14938.5 | 14043.6 | 13654.9 |
| 15°   | 14527.2 | 15042.5 | 15842.5 | 16109.2 | 16050.5 | 15928.4 | 15896.8 | 15661.7 | 15254.9 | 14418.7 | 13993.9 |
| 17.5° | 14667.3 | 15146.5 | 15702.4 | 15535.2 | 15038.0 | 14943.1 | 15259.5 | 15557.8 | 15458.3 | 14744.2 | 14346.4 |
| 20°   | 14798.4 | 15200.7 | 15367.9 | 14626.7 | 13758.8 | 13672.9 | 14278.6 | 15128.4 | 15562.3 | 15047.0 | 14680.9 |
| 22.5° | 14979.2 | 15227.8 | 14884.3 | 13668.4 | 12732.8 | 12533.9 | 13202.9 | 14482.0 | 15593.9 | 15431.2 | 15065.1 |
| 25°   | 15227.8 | 15295.6 | 14350.9 | 12759.9 | 11819.8 | 11620.9 | 12244.6 | 13763.3 | 15539.7 | 15847.1 | 15535.2 |
| 27.5° | 15526.1 | 15386.0 | 13840.2 | 12000.6 | 11092.0 | 10906.7 | 11530.5 | 13071.8 | 15386.0 | 16262.9 | 16041.4 |
| 30°   | 15914.9 | 15503.5 | 13333.9 | 11413.0 | 10572.2 | 10436.6 | 11037.8 | 12475.1 | 15196.2 | 16791.7 | 16669.7 |
| 32.5° | 16308.1 | 15553.3 | 12863.9 | 11069.4 | 10454.7 | 10504.4 | 10997.1 | 12154.2 | 14988.3 | 17298.0 | 17356.7 |
| 35°   | 16733.0 | 15711.5 | 12633.3 | 11408.4 | 11435.6 | 11869.5 | 12072.9 | 12452.5 | 14956.6 | 17985.0 | 18215.5 |
| 37.5° | 17311.5 | 16064.0 | 12909.1 | 13094.4 | 14034.5 | 14934.0 | 14766.8 | 13912.5 | 15322.7 | 19011.0 | 19440.4 |
| 40°   | 18143.2 | 16683.3 | 14111.4 | 15964.6 | 17894.6 | 19354.6 | 18717.2 | 16565.7 | 16443.7 | 20489.1 | 21130.9 |
| 42.5° | 19354.6 | 17668.6 | 16244.8 | 19472.1 | 22744.5 | 25149.2 | 23440.6 | 19987.4 | 18405.4 | 22599.9 | 23418.0 |
| 45°   | 21144.5 | 19264.2 | 18825.7 | 23173.9 | 28724.5 | 32512.2 | 28959.5 | 23635.0 | 21153.5 | 25795.5 | 26437.4 |
| 47.5° | 23625.9 | 21610.0 | 21243.9 | 27074.7 | 35992.6 | 40892.3 | 35079.6 | 27015.9 | 24281.3 | 30152.8 | 30302.0 |
| 50°   | 26921.0 | 24769.5 | 23535.5 | 31341.6 | 43961.3 | 49435.0 | 41195.1 | 30279.4 | 27865.7 | 35477.3 | 35305.6 |
| 52.5° | 31269.2 | 29176.5 | 26206.9 | 35405.0 | 52156.1 | 57797.0 | 47337.8 | 33145.0 | 32313.3 | 41656.1 | 41303.6 |
| 55°   | 37199.4 | 35807.3 | 29859.0 | 39283.2 | 60346.3 | 66208.7 | 53240.9 | 35848.0 | 38189.3 | 48996.6 | 46863.2 |
| 57.5° | 44558.0 | 45552.4 | 35124.8 | 43780.5 | 67709.3 | 74878.0 | 59171.1 | 39626.7 | 45819.1 | 57204.9 | 50090.4 |
| 60°   | 49304.0 | 58511.2 | 45208.9 | 50429.4 | 76075.8 | 84681.9 | 67298.0 | 46813.4 | 53837.5 | 60147.4 | 49475.7 |
| 62.5° | 48155.9 | 62633.4 | 57286.2 | 58918.0 | 83768.8 | 91809.9 | 75262.2 | 54031.9 | 55347.2 | 55812.7 | 44738.8 |
| 65°   | 44634.8 | 59306.7 | 54822.9 | 60567.8 | 85716.9 | 92212.1 | 77391.1 | 53100.7 | 46949.0 | 45565.9 | 35961.0 |
| 67.5° | 39789.4 | 55360.7 | 48969.5 | 56192.4 | 82195.9 | 86589.3 | 73427.1 | 46971.6 | 36281.9 | 34193.7 | 26089.3 |
| 70°   | 34559.8 | 50994.4 | 45127.5 | 51283.7 | 75483.7 | 76790.0 | 66687.8 | 41312.6 | 26686.0 | 23092.6 | 16742.0 |
| 72.5° | 29596.8 | 46447.3 | 42496.9 | 46253.0 | 66529.6 | 63826.7 | 57914.5 | 36309.0 | 19431.4 | 16656.1 | 11901.1 |
| 75°   | 24520.9 | 39739.7 | 38749.8 | 40277.6 | 54755.1 | 50275.8 | 48119.7 | 30062.4 | 15250.4 | 12050.3 | 8212.8  |
| 77.5° | 18920.6 | 31052.3 | 33330.3 | 32254.6 | 38541.9 | 37344.1 | 37298.9 | 22590.9 | 11141.8 | 8041.0  | 5148.3  |
| 80°   | 12949.7 | 21641.7 | 26039.6 | 22753.6 | 25013.6 | 24403.4 | 28091.7 | 15155.5 | 8081.7  | 4840.9  | 2865.7  |
| 82.5° | 7611.6  | 13175.7 | 18125.1 | 11015.2 | 13831.1 | 14197.3 | 16728.5 | 7372.1  | 4755.0  | 1116.4  | 623.8   |
| 85°   | 3087.1  | 5202.5  | 7087.3  | 4312.1  | 6671.5  | 5627.4  | 6350.6  | 2070.2  | 1324.4  | 27.1    | 0.0     |
| 87.5° | 777.4   | 1663.4  | 1166.2  | 483.6   | 772.9   | 709.6   | 560.5   | 253.1   | 54.2    | 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°   | 145°   | 155°   | 165°    | 175°    | 180°    | 185°   |
|-------|---------|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 9085.2  | 9085.2  | 9085.2  | 9085.2  | 9085.2 | 9085.2 | 9085.2 | 9085.2  | 9085.2  | 9085.2  | 9085.2 |
| 2.5°  | 10088.6 | 9984.6  | 9727.0  | 9469.4  | 9261.4 | 8981.2 | 8795.9 | 8574.4  | 8362.0  | 8172.1  | 8136.0 |
| 5°    | 11155.3 | 10811.8 | 10341.7 | 9912.3  | 9473.9 | 9049.0 | 8628.6 | 8185.7  | 7778.9  | 7530.3  | 7372.1 |
| 7.5°  | 12023.2 | 11417.5 | 10793.7 | 10246.8 | 9718.0 | 9220.8 | 8664.8 | 8126.9  | 7489.6  | 7150.6  | 6843.3 |
| 10°   | 12669.5 | 11874.0 | 11055.9 | 10427.6 | 9894.2 | 9410.6 | 8940.5 | 8398.1  | 7629.7  | 7204.9  | 6743.8 |
| 12.5° | 13094.4 | 12149.7 | 11191.5 | 10472.8 | 9876.2 | 9501.0 | 9293.1 | 9080.6  | 8316.8  | 7819.6  | 7150.6 |
| 15°   | 13388.2 | 12344.1 | 11286.4 | 10368.8 | 9636.6 | 9360.9 | 9568.8 | 9812.9  | 9324.7  | 8750.7  | 7878.3 |
| 17.5° | 13709.1 | 12597.2 | 11327.1 | 10088.6 | 9171.0 | 9053.5 | 9591.4 | 10156.4 | 10133.8 | 9564.3  | 8710.0 |
| 20°   | 14048.1 | 12818.7 | 11300.0 | 9636.6  | 8606.0 | 8710.0 | 9397.0 | 10052.4 | 10328.2 | 10020.8 | 9261.4 |
| 22.5° | 14396.1 | 13031.1 | 11196.0 | 9049.0  | 8077.2 | 8402.6 | 9089.7 | 9663.7  | 9989.2  | 9894.2  | 9315.7 |
| 25°   | 14834.6 | 13329.4 | 11042.3 | 8416.2  | 7638.8 | 8090.8 | 8732.6 | 9198.2  | 9424.2  | 9419.6  | 9021.9 |
| 27.5° | 15358.9 | 13727.2 | 10961.0 | 7905.4  | 7326.9 | 7738.2 | 8307.7 | 8723.6  | 8881.8  | 8881.8  | 8565.4 |
| 30°   | 15969.1 | 14197.3 | 10870.6 | 7571.0  | 7146.1 | 7372.1 | 7815.0 | 8221.8  | 8380.0  | 8380.0  | 8113.4 |
| 32.5° | 16647.1 | 14649.3 | 10653.6 | 7367.6  | 7010.5 | 7015.0 | 7295.2 | 7665.9  | 7855.7  | 7882.8  | 7693.0 |
| 35°   | 17460.7 | 15132.9 | 10179.0 | 7204.9  | 6852.3 | 6667.0 | 6802.6 | 7109.9  | 7335.9  | 7394.7  | 7277.2 |
| 37.5° | 18527.4 | 15725.0 | 9501.0  | 6965.3  | 6608.2 | 6300.9 | 6332.5 | 6567.5  | 6816.1  | 6906.5  | 6829.7 |
| 40°   | 19960.2 | 16421.1 | 8795.9  | 6621.8  | 6264.7 | 5898.6 | 5885.0 | 6056.8  | 6300.9  | 6400.3  | 6359.6 |
| 42.5° | 21854.1 | 17257.3 | 8122.4  | 6291.8  | 5848.9 | 5473.7 | 5451.1 | 5586.7  | 5799.1  | 5903.1  | 5885.0 |
| 45°   | 24276.8 | 18283.3 | 7543.8  | 6034.2  | 5442.1 | 5071.4 | 5062.4 | 5175.4  | 5360.7  | 5469.2  | 5446.6 |
| 47.5° | 27644.2 | 19309.4 | 7150.6  | 5898.6  | 5121.1 | 4741.5 | 4759.5 | 4859.0  | 5026.2  | 5103.1  | 5071.4 |
| 50°   | 32033.1 | 19621.2 | 6951.7  | 5898.6  | 4949.4 | 4447.7 | 4538.1 | 4619.4  | 4746.0  | 4791.2  | 4750.5 |
| 52.5° | 36245.7 | 18590.7 | 6770.9  | 5934.7  | 4972.0 | 4199.1 | 4393.4 | 4452.2  | 4560.7  | 4578.7  | 4520.0 |
| 55°   | 38311.4 | 15982.7 | 6522.3  | 5943.8  | 5112.1 | 3986.6 | 4275.9 | 4384.4  | 4425.1  | 4420.5  | 4321.1 |
| 57.5° | 37601.7 | 12922.6 | 6102.0  | 5907.6  | 5207.0 | 3851.0 | 4131.3 | 4339.2  | 4366.3  | 4325.6  | 4140.3 |
| 60°   | 35111.2 | 9514.6  | 5781.1  | 5640.9  | 5170.9 | 3810.3 | 3909.8 | 4239.7  | 4280.4  | 4226.2  | 3923.3 |
| 62.5° | 30934.8 | 6603.7  | 5532.5  | 5053.3  | 5012.7 | 3796.8 | 3561.7 | 4022.8  | 4122.2  | 4045.4  | 3602.4 |
| 65°   | 24353.7 | 4664.6  | 4764.1  | 4429.6  | 4669.1 | 3724.5 | 3200.1 | 3760.6  | 3896.2  | 3778.7  | 3154.9 |
| 67.5° | 16479.9 | 3367.4  | 3860.1  | 4013.7  | 4113.2 | 3561.7 | 2938.0 | 3462.3  | 3643.1  | 3489.4  | 2635.1 |
| 70°   | 8899.8  | 2364.0  | 2549.3  | 3380.9  | 3493.9 | 3281.5 | 2702.9 | 3159.5  | 3367.4  | 3200.1  | 2147.0 |
| 72.5° | 5256.7  | 1699.5  | 1785.4  | 2716.5  | 2910.9 | 2888.3 | 2440.8 | 2806.9  | 3060.0  | 2861.1  | 1744.7 |
| 75°   | 2897.3  | 1148.1  | 1274.6  | 1970.7  | 2364.0 | 2228.4 | 2097.3 | 2377.5  | 2635.1  | 2440.8  | 1347.0 |
| 77.5° | 1297.2  | 687.0   | 885.9   | 1292.7  | 1857.7 | 1527.8 | 1622.7 | 1853.2  | 2092.8  | 1889.4  | 899.5  |
| 80°   | 501.7   | 384.2   | 587.6   | 705.1   | 1351.5 | 845.2  | 1044.1 | 1365.0  | 1536.8  | 1374.1  | 546.9  |
| 82.5° | 63.3    | 171.8   | 253.1   | 275.7   | 786.5  | 447.5  | 605.7  | 858.8   | 845.2   | 732.2   | 275.7  |
| 85°   | 0.0     | 31.6    | 36.2    | 18.1    | 339.0  | 162.7  | 198.9  | 280.2   | 262.2   | 198.9   | 22.6   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 9.0     | 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2 |
| 2.5°  | 7914.5 | 7751.8 | 7670.4 | 7602.6 | 7665.9 | 7702.0 | 7702.0 | 7855.7 | 7946.1 | 7982.3 | 8235.4 |
| 5°    | 6974.3 | 6671.5 | 6468.1 | 6346.1 | 6386.7 | 6431.9 | 6481.7 | 6676.0 | 6807.1 | 6893.0 | 7286.2 |
| 7.5°  | 6233.1 | 5772.0 | 5487.3 | 5338.1 | 5360.7 | 5392.3 | 5433.0 | 5622.9 | 5753.9 | 5866.9 | 6305.4 |
| 10°   | 5866.9 | 5216.1 | 4840.9 | 4660.1 | 4628.5 | 4610.4 | 4596.8 | 4709.8 | 4809.3 | 4899.7 | 5333.6 |
| 12.5° | 5885.0 | 4976.5 | 4520.0 | 4298.5 | 4203.6 | 4095.1 | 4009.2 | 4027.3 | 4090.6 | 4203.6 | 4479.3 |
| 15°   | 6115.5 | 4899.7 | 4352.7 | 4077.0 | 3918.8 | 3792.3 | 3688.3 | 3665.7 | 3688.3 | 3706.4 | 3878.1 |
| 17.5° | 6427.4 | 4890.6 | 4208.1 | 3864.6 | 3701.9 | 3597.9 | 3503.0 | 3471.3 | 3475.9 | 3498.5 | 3543.7 |
| 20°   | 6676.0 | 4863.5 | 4045.4 | 3661.2 | 3516.5 | 3426.1 | 3331.2 | 3299.6 | 3308.6 | 3313.1 | 3362.9 |
| 22.5° | 6807.1 | 4822.8 | 3864.6 | 3457.8 | 3335.7 | 3245.3 | 3159.5 | 3154.9 | 3154.9 | 3182.1 | 3218.2 |
| 25°   | 6807.1 | 4736.9 | 3701.9 | 3263.4 | 3154.9 | 3073.6 | 2969.6 | 2987.7 | 2996.7 | 3032.9 | 3087.1 |
| 27.5° | 6644.4 | 4574.2 | 3570.8 | 3096.2 | 2983.2 | 2901.8 | 2806.9 | 2829.5 | 2843.1 | 2883.7 | 2951.5 |
| 30°   | 6436.5 | 4379.9 | 3421.6 | 2938.0 | 2806.9 | 2748.1 | 2666.8 | 2675.8 | 2693.9 | 2739.1 | 2815.9 |
| 32.5° | 6215.0 | 4149.3 | 3299.6 | 2779.8 | 2648.7 | 2603.5 | 2513.1 | 2526.7 | 2544.7 | 2594.5 | 2680.3 |
| 35°   | 5970.9 | 3878.1 | 3154.9 | 2635.1 | 2504.1 | 2467.9 | 2364.0 | 2373.0 | 2400.1 | 2454.3 | 2540.2 |
| 37.5° | 5713.3 | 3656.7 | 3010.3 | 2495.0 | 2359.4 | 2323.3 | 2214.8 | 2223.8 | 2255.5 | 2318.8 | 2400.1 |
| 40°   | 5460.1 | 3439.7 | 2856.6 | 2345.9 | 2210.3 | 2178.6 | 2061.1 | 2070.2 | 2106.3 | 2174.1 | 2260.0 |
| 42.5° | 5184.4 | 3272.5 | 2657.7 | 2192.2 | 2047.6 | 2015.9 | 1907.4 | 1921.0 | 1961.7 | 2029.5 | 2115.4 |
| 45°   | 4854.5 | 3164.0 | 2436.3 | 2047.6 | 1884.8 | 1853.2 | 1753.8 | 1780.9 | 1826.1 | 1893.9 | 1984.3 |
| 47.5° | 4515.5 | 3118.8 | 2251.0 | 1893.9 | 1717.6 | 1690.5 | 1609.1 | 1654.3 | 1704.0 | 1758.3 | 1857.7 |
| 50°   | 4190.0 | 3060.0 | 2061.1 | 1749.2 | 1573.0 | 1545.8 | 1491.6 | 1550.4 | 1600.1 | 1649.8 | 1744.7 |
| 52.5° | 3819.4 | 2933.5 | 1889.4 | 1622.7 | 1450.9 | 1441.9 | 1414.8 | 1469.0 | 1514.2 | 1559.4 | 1640.8 |
| 55°   | 3435.2 | 2730.1 | 1740.2 | 1509.7 | 1347.0 | 1356.0 | 1342.4 | 1387.6 | 1423.8 | 1464.5 | 1536.8 |
| 57.5° | 3100.7 | 2472.4 | 1622.7 | 1387.6 | 1256.6 | 1283.7 | 1265.6 | 1288.2 | 1310.8 | 1360.5 | 1419.3 |
| 60°   | 2761.7 | 2165.1 | 1491.6 | 1243.0 | 1166.2 | 1197.8 | 1148.1 | 1143.6 | 1152.6 | 1166.2 | 1274.6 |
| 62.5° | 2305.2 | 1844.2 | 1328.9 | 1116.4 | 1066.7 | 1080.3 | 985.4  | 913.0  | 913.0  | 926.6  | 1089.3 |
| 65°   | 1853.2 | 1545.8 | 1148.1 | 971.8  | 931.1  | 922.1  | 786.5  | 687.0  | 678.0  | 718.7  | 858.8  |
| 67.5° | 1523.2 | 1283.7 | 967.3  | 809.1  | 782.0  | 791.0  | 691.6  | 592.1  | 583.1  | 628.3  | 732.2  |
| 70°   | 1261.1 | 1035.1 | 772.9  | 623.8  | 650.9  | 691.6  | 592.1  | 497.2  | 483.6  | 524.3  | 623.8  |
| 72.5° | 1003.4 | 809.1  | 592.1  | 461.0  | 537.9  | 587.6  | 483.6  | 393.2  | 384.2  | 420.4  | 515.3  |
| 75°   | 736.8  | 578.6  | 402.3  | 334.5  | 415.8  | 461.0  | 352.6  | 280.2  | 266.7  | 298.3  | 393.2  |
| 77.5° | 456.5  | 325.4  | 253.1  | 198.9  | 284.8  | 307.4  | 185.3  | 162.7  | 158.2  | 180.8  | 248.6  |
| 80°   | 212.4  | 140.1  | 122.0  | 67.8   | 104.0  | 122.0  | 76.8   | 85.9   | 90.4   | 108.5  | 153.7  |
| 82.5° | 58.8   | 22.6   | 4.5    | 0.0    | 0.0    | 36.2   | 18.1   | 36.2   | 45.2   | 67.8   | 99.4   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 9.0    | 22.6   | 40.7   | 72.3   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 18.1   | 36.2   |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°    | 345°    | 355°    | 360°    |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 9085.2 | 9085.2 | 9085.2 | 9085.2 | 9085.2  | 9085.2  | 9085.2  | 9085.2  |
| 2.5°  | 8425.2 | 8606.0 | 8895.3 | 9193.6 | 9487.4  | 9785.8  | 10075.0 | 10179.0 |
| 5°    | 7643.3 | 8059.1 | 8633.2 | 9247.9 | 9880.7  | 10522.5 | 11110.1 | 11376.8 |
| 7.5°  | 6770.9 | 7367.6 | 8230.9 | 9193.6 | 10201.6 | 11209.6 | 12136.2 | 12565.5 |
| 10°   | 5839.8 | 6594.7 | 7580.0 | 8881.8 | 10328.2 | 11720.3 | 12994.9 | 13550.9 |
| 12.5° | 4953.9 | 5744.9 | 6834.2 | 8393.6 | 10228.7 | 12014.1 | 13546.4 | 14201.8 |
| 15°   | 4212.6 | 4913.2 | 6088.4 | 7815.0 | 9907.8  | 12032.2 | 13808.5 | 14527.2 |
| 17.5° | 3656.7 | 4113.2 | 5329.1 | 7173.2 | 9487.4  | 11865.0 | 13898.9 | 14667.3 |
| 20°   | 3380.9 | 3507.5 | 4343.7 | 6350.6 | 9094.2  | 11706.8 | 13989.3 | 14798.4 |
| 22.5° | 3218.2 | 3249.9 | 3552.7 | 5288.4 | 8624.1  | 11657.0 | 14147.5 | 14979.2 |
| 25°   | 3087.1 | 3096.2 | 3177.5 | 4190.0 | 7905.4  | 11625.4 | 14391.6 | 15227.8 |
| 27.5° | 2956.1 | 2956.1 | 3001.3 | 3376.4 | 6929.1  | 11489.8 | 14708.0 | 15526.1 |
| 30°   | 2825.0 | 2825.0 | 2856.6 | 2987.7 | 5785.6  | 11223.1 | 15087.7 | 15914.9 |
| 32.5° | 2689.4 | 2689.4 | 2716.5 | 2811.4 | 4619.4  | 10888.6 | 15435.7 | 16308.1 |
| 35°   | 2553.8 | 2544.7 | 2580.9 | 2680.3 | 3674.7  | 10463.8 | 15783.8 | 16733.0 |
| 37.5° | 2409.2 | 2404.6 | 2440.8 | 2553.8 | 3173.0  | 9971.1  | 16045.9 | 17311.5 |
| 40°   | 2255.5 | 2255.5 | 2296.2 | 2418.2 | 3028.4  | 9351.8  | 16461.8 | 18143.2 |
| 42.5° | 2115.4 | 2106.3 | 2151.5 | 2300.7 | 2919.9  | 8759.7  | 17207.6 | 19354.6 |
| 45°   | 1979.8 | 1961.7 | 2002.4 | 2187.7 | 2730.1  | 8551.8  | 18599.7 | 21144.5 |
| 47.5° | 1853.2 | 1808.0 | 1844.2 | 2052.1 | 2558.3  | 9329.2  | 20877.8 | 23625.9 |
| 50°   | 1749.2 | 1663.4 | 1695.0 | 1916.5 | 2427.2  | 11015.2 | 23833.9 | 26921.0 |
| 52.5° | 1640.8 | 1527.8 | 1545.8 | 1749.2 | 2309.7  | 12619.8 | 27038.5 | 31269.2 |
| 55°   | 1527.8 | 1401.2 | 1410.2 | 1582.0 | 2142.5  | 12859.3 | 30166.4 | 37199.4 |
| 57.5° | 1401.2 | 1283.7 | 1283.7 | 1428.3 | 2020.4  | 11146.3 | 32571.0 | 44558.0 |
| 60°   | 1261.1 | 1184.2 | 1161.6 | 1306.3 | 2128.9  | 7864.8  | 32851.2 | 49304.0 |
| 62.5° | 1107.4 | 1066.7 | 1035.1 | 1188.8 | 2210.3  | 4660.1  | 30595.8 | 48155.9 |
| 65°   | 931.1  | 922.1  | 899.5  | 1306.3 | 1862.2  | 2752.7  | 26265.6 | 44634.8 |
| 67.5° | 782.0  | 768.4  | 768.4  | 1369.6 | 1414.8  | 1731.2  | 20520.7 | 39789.4 |
| 70°   | 673.5  | 623.8  | 623.8  | 1035.1 | 858.8   | 1197.8  | 14328.3 | 34559.8 |
| 72.5° | 565.0  | 510.8  | 474.6  | 827.2  | 641.8   | 876.9   | 8954.1  | 29596.8 |
| 75°   | 452.0  | 411.3  | 366.1  | 546.9  | 479.1   | 664.4   | 5202.5  | 24520.9 |
| 77.5° | 325.4  | 307.4  | 257.6  | 402.3  | 348.0   | 479.1   | 3096.2  | 18920.6 |
| 80°   | 167.2  | 171.8  | 162.7  | 230.5  | 235.0   | 325.4   | 1762.8  | 12949.7 |
| 82.5° | 99.4   | 76.8   | 85.9   | 113.0  | 135.6   | 185.3   | 664.4   | 7611.6  |
| 85°   | 63.3   | 40.7   | 40.7   | 54.2   | 67.8    | 72.3    | 203.4   | 3087.1  |
| 87.5° | 31.6   | 13.6   | 18.1   | 27.1   | 22.6    | 18.1    | 9.0     | 777.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)