

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: P533019

Luminaire Tested: **GALN-SA8B-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-830-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20185 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 325  
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



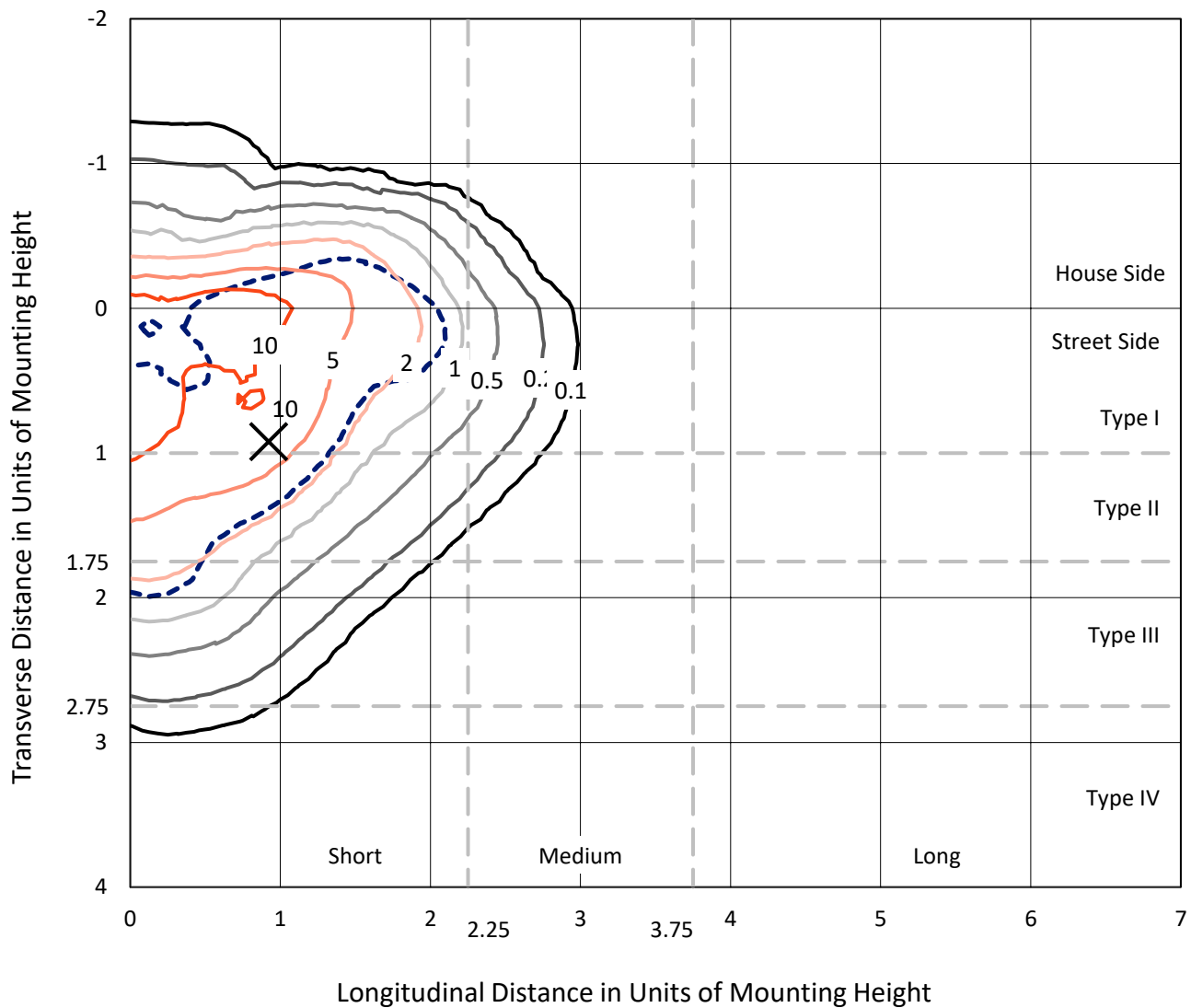
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## Iso-Footcandle Lines of Horizontal Illumination

✘ Max cd

--- 1/2 Max cd

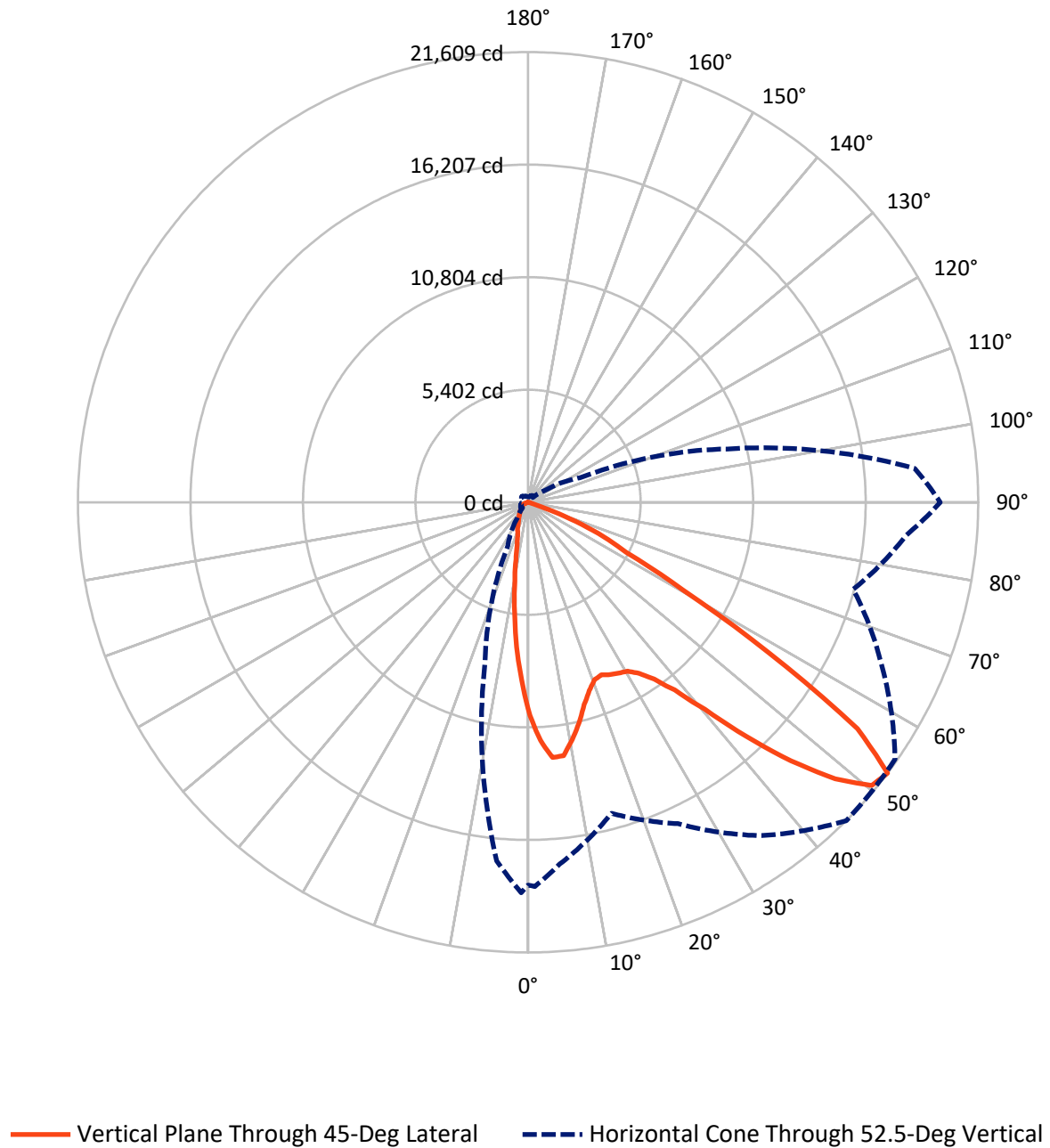


Based on 25 foot mounting height. Maximum calculated value = 17.7 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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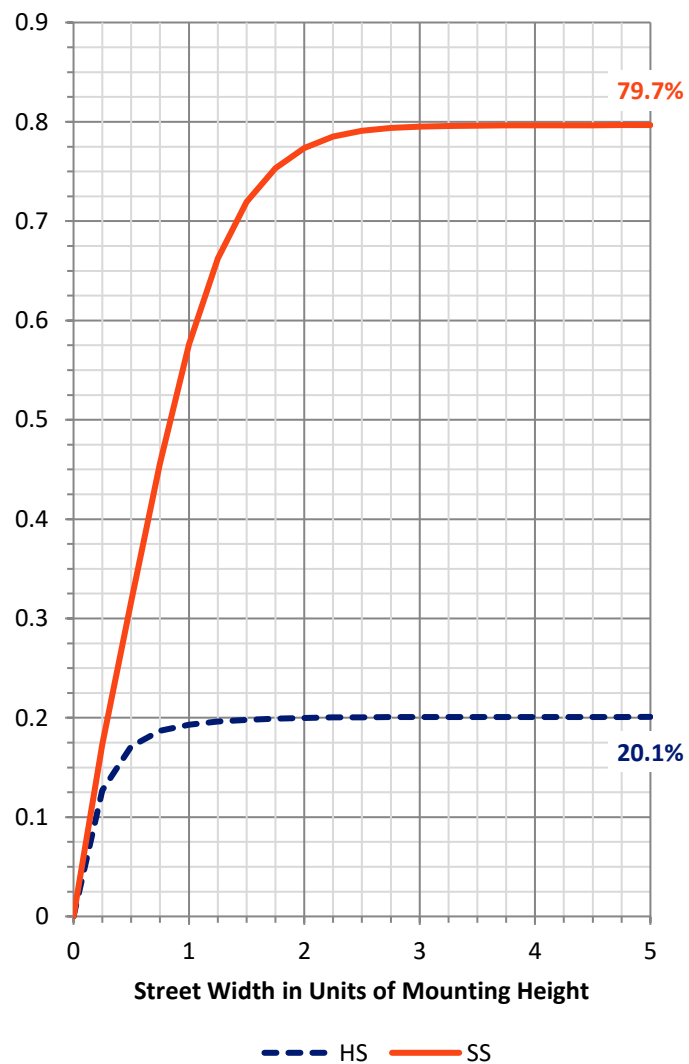
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4096.6   | 0.0    | 4096.6  |
|                    | % Fixture | 20.3     | 0.0    | 20.3    |
| <b>Street Side</b> | Lumens    | 16088.5  | 0.0    | 16088.5 |
|                    | % Fixture | 79.7     | 0.0    | 79.7    |
| <b>Total</b>       | Lumens    | 20185.0  | 0.0    | 20185.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 746.4   | 3.7       |
| 10°-20°   | 1472.6  | 7.3       |
| 20°-30°   | 2241.1  | 11.1      |
| 30°-40°   | 3349.6  | 16.6      |
| 40°-50°   | 4770.1  | 23.6      |
| 50°-60°   | 5127.7  | 25.4      |
| 60°-70°   | 2272.2  | 11.3      |
| 70°-80°   | 183.8   | 0.9       |
| 80°-90°   | 21.4    | 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°    | 20185.0 | 100.0     |
| 0°-180°   | 20185.0 | 100.0     |

**Coefficient of Utilization**



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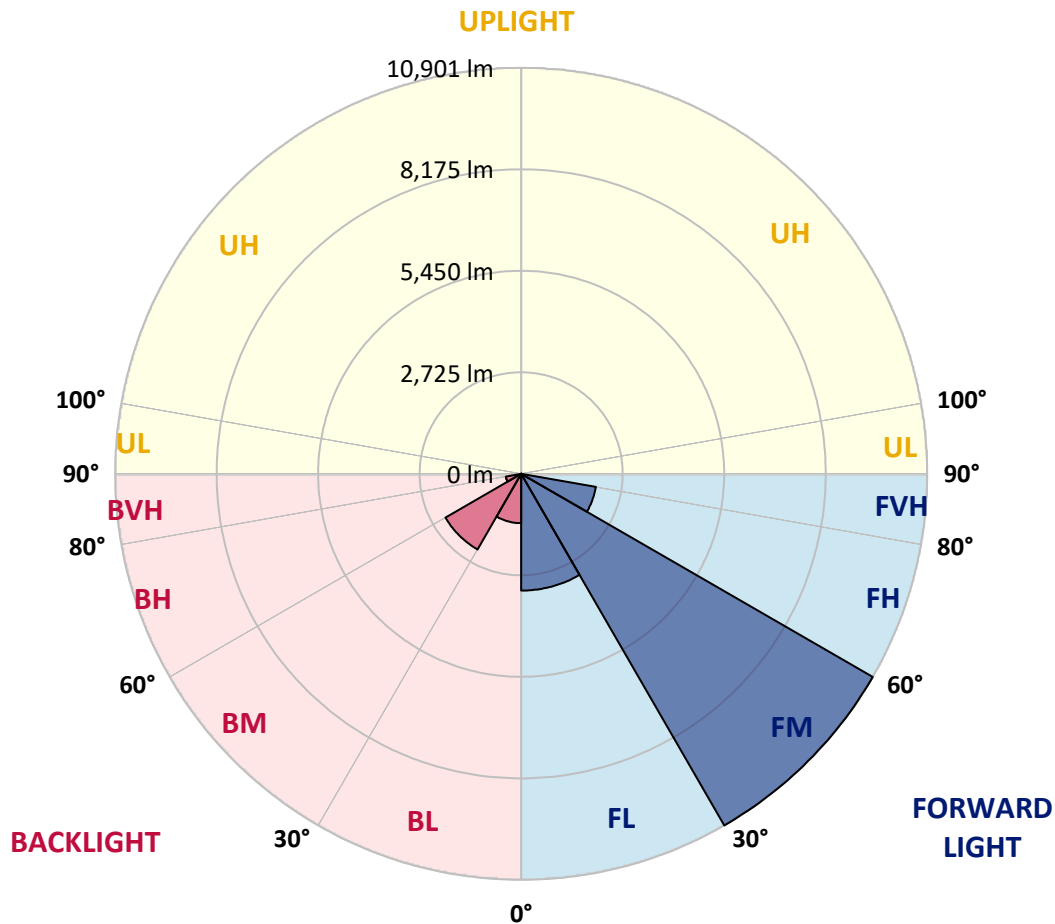
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3135.1  | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 10900.5 | 54.0      |                         |      |         |
| FH   | (60°-80°)   | 2036.9  | 10.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 15.9    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1325.0  | 6.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2346.9  | 11.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 419.1   | 2.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.6     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 |
| 2.5°  | 10830.2 | 10862.0 | 11036.7 | 11255.0 | 11370.2 | 11632.2 | 11449.6 | 11497.2 | 11398.0 | 11048.6 | 10774.7 |
| 5°    | 10500.7 | 10496.8 | 10719.1 | 11259.0 | 11771.1 | 12291.2 | 12307.1 | 12029.2 | 11540.9 | 11004.9 | 10238.7 |
| 7.5°  | 9508.2  | 9663.0  | 9893.3  | 10754.8 | 11703.6 | 12092.7 | 12279.3 | 11953.8 | 11203.4 | 10437.2 | 9607.5  |
| 10°   | 8757.9  | 8837.3  | 9226.3  | 10266.5 | 10961.2 | 11481.3 | 11596.5 | 11409.9 | 10834.2 | 9877.4  | 8948.4  |
| 12.5° | 8325.1  | 8364.8  | 8821.4  | 9694.8  | 10429.3 | 10814.4 | 10869.9 | 10957.3 | 10544.4 | 9647.2  | 8531.6  |
| 15°   | 8329.1  | 8360.9  | 8976.2  | 9706.7  | 9996.5  | 9893.3  | 10075.9 | 10072.0 | 10250.6 | 9603.5  | 8881.0  |
| 17.5° | 8928.6  | 8964.3  | 9520.1  | 9881.4  | 9754.4  | 9512.2  | 9500.3  | 9682.9  | 10060.1 | 10147.4 | 9409.0  |
| 20°   | 9960.8  | 10044.2 | 10453.1 | 10433.2 | 9718.6  | 9230.3  | 9095.3  | 9234.3  | 10111.7 | 10607.9 | 10472.9 |
| 22.5° | 11350.3 | 11465.4 | 11751.3 | 11203.4 | 9881.4  | 9039.8  | 8996.1  | 9266.0  | 10453.1 | 11636.2 | 11679.8 |
| 25°   | 12962.1 | 13156.7 | 13295.6 | 12592.9 | 10461.0 | 9369.3  | 9162.8  | 9627.3  | 10913.6 | 12751.7 | 13216.2 |
| 27.5° | 14030.1 | 14232.6 | 14200.8 | 13196.4 | 10850.1 | 9456.6  | 9281.9  | 9714.7  | 11314.6 | 13017.7 | 14018.2 |
| 30°   | 14863.8 | 14986.9 | 15209.2 | 13521.9 | 11239.2 | 9702.7  | 9405.0  | 10083.9 | 11445.6 | 13478.2 | 14986.9 |
| 32.5° | 15836.4 | 15919.8 | 15935.7 | 14097.6 | 11838.6 | 10012.4 | 9786.1  | 10544.4 | 12025.2 | 13918.9 | 15844.4 |
| 35°   | 16817.0 | 16940.1 | 16682.1 | 14808.2 | 12207.8 | 10588.1 | 10421.3 | 11342.4 | 12489.7 | 14375.5 | 16789.3 |
| 37.5° | 17881.0 | 17944.5 | 17349.0 | 15102.0 | 12735.9 | 11525.0 | 11433.7 | 12203.9 | 13295.6 | 15201.2 | 17837.3 |
| 40°   | 18774.3 | 18833.8 | 18059.7 | 15463.3 | 13291.7 | 12835.1 | 13069.3 | 13847.5 | 14391.4 | 15737.2 | 18361.4 |
| 42.5° | 19270.5 | 19409.5 | 18297.9 | 15264.8 | 14407.2 | 14319.9 | 15360.0 | 15634.0 | 15661.8 | 15888.1 | 18829.8 |
| 45°   | 19405.5 | 19342.0 | 17904.8 | 15427.5 | 15383.9 | 16761.5 | 17706.3 | 18067.6 | 16924.2 | 16166.0 | 18948.9 |
| 47.5° | 18782.2 | 18865.6 | 17325.2 | 15284.6 | 16666.2 | 18611.5 | 19834.3 | 20505.2 | 17865.1 | 15923.8 | 18655.2 |
| 50°   | 18278.0 | 18170.8 | 17138.6 | 15181.4 | 17011.6 | 19484.9 | 21370.7 | 21521.5 | 18730.6 | 16221.5 | 18333.6 |
| 52.5° | 18377.3 | 18444.8 | 17436.4 | 15455.3 | 17019.5 | 19536.5 | 21608.9 | 21505.6 | 18758.4 | 16154.0 | 18218.5 |
| 55°   | 18587.7 | 18289.9 | 17309.3 | 14851.9 | 15880.1 | 18095.4 | 19179.2 | 19020.4 | 17313.3 | 15435.5 | 17936.6 |
| 57.5° | 16038.9 | 16499.4 | 15915.8 | 13259.9 | 13033.6 | 13633.1 | 13613.2 | 14101.5 | 12914.5 | 13283.7 | 16328.7 |
| 60°   | 13017.7 | 13097.1 | 13315.5 | 11342.4 | 9019.9  | 8813.5  | 8527.6  | 8218.0  | 8690.4  | 11358.3 | 14851.9 |
| 62.5° | 11449.6 | 11354.3 | 12132.4 | 10318.1 | 6367.9  | 5331.7  | 5284.1  | 5474.7  | 6705.4  | 10834.2 | 13930.8 |
| 65°   | 8321.2  | 8440.3  | 9004.0  | 8007.5  | 4779.9  | 4069.3  | 3997.8  | 4561.6  | 5427.0  | 8682.5  | 10631.7 |
| 67.5° | 5081.6  | 5311.9  | 5363.5  | 4938.7  | 3243.5  | 2576.5  | 2473.3  | 2985.5  | 3918.4  | 5617.6  | 6232.9  |
| 70°   | 2346.3  | 2624.2  | 2886.2  | 2695.6  | 1877.8  | 1060.0  | 1000.4  | 1254.5  | 1977.1  | 3231.6  | 3307.0  |
| 72.5° | 710.6   | 714.6   | 1000.4  | 1044.1  | 607.4   | 238.2   | 210.4   | 277.9   | 670.9   | 1067.9  | 1123.5  |
| 75°   | 51.6    | 55.6    | 135.0   | 154.8   | 115.1   | 59.6    | 63.5    | 75.4    | 142.9   | 238.2   | 178.7   |
| 77.5° | 4.0     | 4.0     | 4.0     | 19.9    | 35.7    | 39.7    | 51.6    | 59.6    | 75.4    | 87.3    | 79.4    |
| 80°   | 4.0     | 0.0     | 4.0     | 15.9    | 27.8    | 39.7    | 47.6    | 55.6    | 59.6    | 67.5    | 59.6    |
| 82.5° | 0.0     | 0.0     | 0.0     | 11.9    | 27.8    | 39.7    | 43.7    | 59.6    | 67.5    | 79.4    | 67.5    |
| 85°   | 0.0     | 0.0     | 0.0     | 11.9    | 27.8    | 43.7    | 39.7    | 19.9    | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 |
| 2.5°  | 10822.3 | 10667.5 | 10314.1 | 10135.5 | 9714.7  | 9655.1  | 9242.2  | 9174.7  | 9035.8  | 8960.4  | 8777.7  |
| 5°    | 9901.3  | 9714.7  | 9139.0  | 8654.7  | 8090.9  | 7697.9  | 7396.2  | 7122.2  | 6963.4  | 6816.5  | 6884.0  |
| 7.5°  | 9150.9  | 8607.0  | 7967.8  | 7158.0  | 6506.9  | 6086.1  | 5625.5  | 5248.4  | 5026.1  | 4875.2  | 4910.9  |
| 10°   | 8364.8  | 8011.5  | 7122.2  | 6213.1  | 5427.0  | 5129.3  | 4768.0  | 4478.2  | 4164.6  | 3894.6  | 3767.6  |
| 12.5° | 8118.7  | 7594.7  | 6479.1  | 5554.1  | 4958.6  | 4668.8  | 4255.9  | 3922.4  | 3521.4  | 3191.9  | 3076.8  |
| 15°   | 8162.4  | 7658.2  | 6304.4  | 5315.9  | 4613.2  | 4112.9  | 3620.7  | 3207.8  | 2767.1  | 2536.8  | 2417.7  |
| 17.5° | 8873.0  | 7999.6  | 6419.5  | 5065.8  | 4132.8  | 3438.0  | 2830.6  | 2306.6  | 1977.1  | 1738.9  | 1687.3  |
| 20°   | 9746.4  | 8738.0  | 6665.7  | 4883.1  | 3739.8  | 2735.3  | 2068.4  | 1615.8  | 1341.9  | 1302.2  | 1290.3  |
| 22.5° | 11024.8 | 9944.9  | 7193.7  | 4760.1  | 3259.4  | 2131.9  | 1417.3  | 1175.1  | 1099.7  | 1091.8  | 1095.7  |
| 25°   | 12811.3 | 11457.5 | 7769.3  | 4656.8  | 2898.1  | 1643.6  | 1159.2  | 996.5   | 972.7   | 960.7   | 980.6   |
| 27.5° | 13585.4 | 12370.6 | 8075.0  | 4434.5  | 2568.6  | 1480.8  | 1143.4  | 988.5   | 921.0   | 901.2   | 913.1   |
| 30°   | 14542.2 | 12978.0 | 8555.4  | 4053.4  | 2084.3  | 1218.8  | 1067.9  | 1075.9  | 1044.1  | 944.9   | 913.1   |
| 32.5° | 15812.6 | 13736.3 | 8797.6  | 3783.4  | 1861.9  | 1008.4  | 782.1   | 718.6   | 801.9   | 817.8   | 845.6   |
| 35°   | 16626.5 | 14506.5 | 8920.7  | 3624.6  | 1746.8  | 861.5   | 663.0   | 603.4   | 583.6   | 587.6   | 603.4   |
| 37.5° | 18139.1 | 15546.6 | 9075.5  | 3457.9  | 1659.5  | 750.3   | 599.5   | 543.9   | 516.1   | 516.1   | 532.0   |
| 40°   | 19044.2 | 16372.4 | 9285.9  | 3366.6  | 1572.1  | 682.8   | 543.9   | 496.3   | 472.4   | 472.4   | 480.4   |
| 42.5° | 19270.5 | 16781.3 | 9214.4  | 3334.8  | 1472.9  | 667.0   | 496.3   | 460.5   | 432.7   | 428.8   | 424.8   |
| 45°   | 19675.5 | 17404.6 | 9226.3  | 3299.1  | 1369.7  | 607.4   | 468.5   | 428.8   | 389.1   | 385.1   | 381.1   |
| 47.5° | 20120.1 | 17853.2 | 9250.2  | 3160.1  | 1270.4  | 508.2   | 488.3   | 397.0   | 349.4   | 341.4   | 341.4   |
| 50°   | 19739.0 | 18210.5 | 9456.6  | 3021.2  | 1143.4  | 412.9   | 480.4   | 373.2   | 309.7   | 297.8   | 301.7   |
| 52.5° | 19786.6 | 18631.3 | 9893.3  | 2826.7  | 984.6   | 329.5   | 389.1   | 353.3   | 281.9   | 262.0   | 266.0   |
| 55°   | 19024.4 | 18186.7 | 9952.9  | 2620.2  | 770.2   | 254.1   | 297.8   | 309.7   | 238.2   | 230.3   | 230.3   |
| 57.5° | 16376.4 | 15399.7 | 8781.7  | 2124.0  | 508.2   | 210.4   | 214.4   | 270.0   | 206.4   | 198.5   | 202.5   |
| 60°   | 14014.2 | 12362.7 | 7066.7  | 1401.4  | 317.6   | 166.7   | 154.8   | 273.9   | 182.6   | 178.7   | 190.6   |
| 62.5° | 12775.6 | 10159.3 | 5359.5  | 869.4   | 218.4   | 127.0   | 107.2   | 222.3   | 158.8   | 158.8   | 174.7   |
| 65°   | 9230.3  | 6824.5  | 3116.5  | 456.6   | 154.8   | 99.3    | 79.4    | 127.0   | 131.0   | 135.0   | 142.9   |
| 67.5° | 5716.8  | 3446.0  | 1314.1  | 222.3   | 103.2   | 67.5    | 51.6    | 79.4    | 87.3    | 87.3    | 95.3    |
| 70°   | 2822.7  | 1373.6  | 436.7   | 127.0   | 79.4    | 55.6    | 35.7    | 43.7    | 43.7    | 39.7    | 43.7    |
| 72.5° | 873.4   | 412.9   | 111.2   | 79.4    | 55.6    | 35.7    | 19.9    | 15.9    | 7.9     | 0.0     | 4.0     |
| 75°   | 99.3    | 79.4    | 71.5    | 55.6    | 35.7    | 15.9    | 4.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 59.6    | 67.5    | 67.5    | 55.6    | 35.7    | 11.9    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 47.6    | 51.6    | 55.6    | 51.6    | 31.8    | 15.9    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 59.6    | 67.5    | 75.4    | 67.5    | 43.7    | 19.9    | 7.9     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 11.9    | 4.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 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°    | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 |
| 2.5°  | 8702.3  | 8615.0  | 8738.0  | 8555.4  | 8551.4  | 8555.4  | 8503.8  | 8456.2  | 8531.6  | 8734.1  | 8753.9  |
| 5°    | 6641.9  | 6828.4  | 6888.0  | 7082.5  | 6975.3  | 6816.5  | 6848.3  | 6741.1  | 7003.1  | 7118.3  | 7027.0  |
| 7.5°  | 4835.5  | 4823.6  | 5224.6  | 5248.4  | 5300.0  | 5304.0  | 5296.0  | 5085.6  | 4871.2  | 4918.9  | 5061.8  |
| 10°   | 3751.7  | 3549.2  | 3743.7  | 3723.9  | 3850.9  | 3815.2  | 3866.8  | 3640.5  | 3715.9  | 3715.9  | 3807.3  |
| 12.5° | 3056.9  | 2842.5  | 2806.8  | 2755.2  | 2806.8  | 2826.7  | 2846.5  | 2802.8  | 2929.9  | 2989.4  | 3053.0  |
| 15°   | 2334.4  | 2215.3  | 2183.5  | 2084.3  | 2100.1  | 2155.7  | 2203.4  | 2223.2  | 2183.5  | 2274.8  | 2282.8  |
| 17.5° | 1695.2  | 1691.2  | 1711.1  | 1707.1  | 1691.2  | 1679.3  | 1675.4  | 1623.7  | 1607.9  | 1615.8  | 1647.6  |
| 20°   | 1286.3  | 1318.0  | 1385.5  | 1453.0  | 1488.8  | 1445.1  | 1385.5  | 1298.2  | 1262.5  | 1270.4  | 1274.4  |
| 22.5° | 1099.7  | 1147.3  | 1238.6  | 1314.1  | 1349.8  | 1270.4  | 1163.2  | 1087.8  | 1071.9  | 1067.9  | 1064.0  |
| 25°   | 996.5   | 1052.1  | 1119.5  | 1143.4  | 1139.4  | 1091.8  | 1012.4  | 980.6   | 972.7   | 964.7   | 929.0   |
| 27.5° | 940.9   | 960.7   | 972.7   | 1000.4  | 1012.4  | 980.6   | 960.7   | 913.1   | 905.2   | 905.2   | 881.3   |
| 30°   | 909.1   | 897.2   | 913.1   | 893.3   | 909.1   | 885.3   | 889.3   | 889.3   | 869.4   | 877.4   | 877.4   |
| 32.5° | 845.6   | 849.6   | 849.6   | 809.9   | 821.8   | 794.0   | 821.8   | 845.6   | 849.6   | 853.6   | 885.3   |
| 35°   | 619.3   | 690.8   | 726.5   | 726.5   | 738.4   | 718.6   | 714.6   | 686.8   | 651.1   | 615.4   | 599.5   |
| 37.5° | 543.9   | 571.7   | 619.3   | 647.1   | 667.0   | 651.1   | 615.4   | 571.7   | 551.8   | 536.0   | 520.1   |
| 40°   | 484.3   | 508.2   | 539.9   | 571.7   | 611.4   | 591.5   | 536.0   | 516.1   | 492.3   | 492.3   | 476.4   |
| 42.5° | 436.7   | 448.6   | 468.5   | 516.1   | 559.8   | 520.1   | 480.4   | 464.5   | 452.6   | 448.6   | 444.6   |
| 45°   | 393.0   | 397.0   | 416.9   | 456.6   | 508.2   | 468.5   | 428.8   | 408.9   | 412.9   | 416.9   | 412.9   |
| 47.5° | 353.3   | 361.3   | 373.2   | 420.8   | 452.6   | 432.7   | 389.1   | 377.2   | 377.2   | 377.2   | 381.1   |
| 50°   | 305.7   | 325.5   | 349.4   | 389.1   | 412.9   | 401.0   | 365.2   | 349.4   | 341.4   | 341.4   | 345.4   |
| 52.5° | 273.9   | 289.8   | 321.6   | 369.2   | 401.0   | 381.1   | 345.4   | 321.6   | 305.7   | 301.7   | 309.7   |
| 55°   | 238.2   | 266.0   | 317.6   | 353.3   | 397.0   | 377.2   | 337.5   | 309.7   | 281.9   | 277.9   | 277.9   |
| 57.5° | 214.4   | 258.1   | 305.7   | 349.4   | 385.1   | 369.2   | 337.5   | 301.7   | 266.0   | 262.0   | 262.0   |
| 60°   | 202.5   | 250.1   | 297.8   | 337.5   | 385.1   | 361.3   | 333.5   | 293.8   | 254.1   | 254.1   | 250.1   |
| 62.5° | 190.6   | 234.2   | 281.9   | 321.6   | 369.2   | 349.4   | 321.6   | 281.9   | 242.2   | 242.2   | 234.2   |
| 65°   | 158.8   | 202.5   | 234.2   | 270.0   | 321.6   | 301.7   | 273.9   | 246.1   | 214.4   | 206.4   | 210.4   |
| 67.5° | 111.2   | 139.0   | 170.7   | 206.4   | 238.2   | 230.3   | 218.4   | 198.5   | 170.7   | 166.7   | 162.8   |
| 70°   | 55.6    | 75.4    | 103.2   | 139.0   | 166.7   | 158.8   | 150.9   | 135.0   | 119.1   | 115.1   | 115.1   |
| 72.5° | 7.9     | 23.8    | 43.7    | 63.5    | 87.3    | 91.3    | 87.3    | 83.4    | 79.4    | 75.4    | 79.4    |
| 75°   | 0.0     | 0.0     | 0.0     | 15.9    | 35.7    | 43.7    | 51.6    | 59.6    | 59.6    | 51.6    | 63.5    |
| 77.5° | 0.0     | 0.0     | 0.0     | 0.0     | 4.0     | 19.9    | 39.7    | 51.6    | 63.5    | 55.6    | 75.4    |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 4.0     | 23.8    | 39.7    | 55.6    | 63.5    | 55.6    | 79.4    |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 4.0     | 27.8    | 39.7    | 51.6    | 59.6    | 55.6    | 71.5    |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 11.9    | 23.8    | 15.9    | 7.9     | 4.0     | 4.0     | 11.9    |
| 87.5° | 0.0     | 0.0     | 0.0     | 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     |

REPORT NUMBER: P533019

CATALOG NUMBER: GALN-SA8B-830-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 | 10234.7 |
| 2.5°  | 8865.1  | 9146.9  | 9448.7  | 9563.8  | 9921.1  | 10191.1 | 10373.7 | 10766.7 | 10826.3 | 10830.2 |
| 5°    | 7122.2  | 7265.2  | 7781.3  | 8023.4  | 8555.4  | 8968.3  | 9409.0  | 10044.2 | 10469.0 | 10500.7 |
| 7.5°  | 5061.8  | 5458.8  | 5677.1  | 6308.4  | 6963.4  | 7610.5  | 8265.6  | 9004.0  | 9496.3  | 9508.2  |
| 10°   | 4073.2  | 4331.3  | 4720.4  | 5192.8  | 5744.6  | 6403.7  | 7277.1  | 8134.6  | 8634.8  | 8757.9  |
| 12.5° | 3279.2  | 3731.8  | 4176.5  | 4664.8  | 5085.6  | 5581.9  | 6522.8  | 7666.1  | 8079.0  | 8325.1  |
| 15°   | 2524.9  | 2937.8  | 3461.9  | 4033.5  | 4510.0  | 5172.9  | 6244.9  | 7551.0  | 8245.7  | 8329.1  |
| 17.5° | 1861.9  | 2231.2  | 2715.5  | 3255.4  | 3970.0  | 4910.9  | 6292.5  | 8134.6  | 8789.6  | 8928.6  |
| 20°   | 1337.9  | 1552.3  | 1933.4  | 2560.7  | 3469.8  | 4605.2  | 6340.1  | 8726.1  | 9722.6  | 9960.8  |
| 22.5° | 1060.0  | 1147.3  | 1397.5  | 1953.3  | 2910.0  | 4283.7  | 6677.6  | 9857.6  | 11004.9 | 11350.3 |
| 25°   | 921.0   | 968.7   | 1087.8  | 1540.4  | 2556.7  | 4251.9  | 7217.5  | 11215.3 | 12712.0 | 12962.1 |
| 27.5° | 889.3   | 897.2   | 1000.4  | 1413.3  | 2366.1  | 4041.5  | 7424.0  | 12180.0 | 13776.0 | 14030.1 |
| 30°   | 936.9   | 1064.0  | 1071.9  | 1195.0  | 2012.8  | 3624.6  | 7531.1  | 13113.0 | 14677.2 | 14863.8 |
| 32.5° | 809.9   | 770.2   | 798.0   | 925.0   | 1770.6  | 3382.5  | 7733.6  | 13926.9 | 15705.4 | 15836.4 |
| 35°   | 563.7   | 591.5   | 655.1   | 801.9   | 1548.3  | 3128.4  | 7785.2  | 14824.1 | 16682.1 | 16817.0 |
| 37.5° | 520.1   | 536.0   | 587.6   | 682.8   | 1361.7  | 2985.5  | 7713.8  | 15479.1 | 17694.4 | 17881.0 |
| 40°   | 484.3   | 504.2   | 532.0   | 619.3   | 1222.8  | 2826.7  | 7614.5  | 16070.7 | 18313.7 | 18774.3 |
| 42.5° | 456.6   | 472.4   | 496.3   | 591.5   | 1103.7  | 2667.9  | 7475.6  | 16904.4 | 18869.5 | 19270.5 |
| 45°   | 424.8   | 448.6   | 476.4   | 575.7   | 1036.2  | 2560.7  | 7372.3  | 16852.8 | 19191.1 | 19405.5 |
| 47.5° | 393.0   | 432.7   | 464.5   | 536.0   | 1016.3  | 2509.1  | 7416.0  | 16658.2 | 18929.1 | 18782.2 |
| 50°   | 361.3   | 412.9   | 468.5   | 444.6   | 968.7   | 2405.8  | 7467.6  | 16924.2 | 18305.8 | 18278.0 |
| 52.5° | 333.5   | 393.0   | 436.7   | 365.2   | 861.5   | 2306.6  | 7967.8  | 17273.6 | 18746.5 | 18377.3 |
| 55°   | 293.8   | 353.3   | 349.4   | 293.8   | 698.7   | 2231.2  | 8360.9  | 17281.5 | 18448.7 | 18587.7 |
| 57.5° | 266.0   | 313.6   | 273.9   | 246.1   | 516.1   | 1865.9  | 7721.7  | 14490.6 | 15792.8 | 16038.9 |
| 60°   | 246.1   | 305.7   | 206.4   | 194.5   | 337.5   | 1345.8  | 6741.1  | 11223.3 | 12553.2 | 13017.7 |
| 62.5° | 226.3   | 289.8   | 162.8   | 158.8   | 234.2   | 956.8   | 5542.2  | 9393.1  | 10818.3 | 11449.6 |
| 65°   | 198.5   | 206.4   | 131.0   | 123.1   | 166.7   | 516.1   | 3374.5  | 6467.2  | 8086.9  | 8321.2  |
| 67.5° | 162.8   | 158.8   | 107.2   | 99.3    | 111.2   | 250.1   | 1488.8  | 3239.5  | 4688.6  | 5081.6  |
| 70°   | 131.0   | 131.0   | 91.3    | 79.4    | 79.4    | 115.1   | 389.1   | 1290.3  | 2120.0  | 2346.3  |
| 72.5° | 95.3    | 99.3    | 71.5    | 63.5    | 59.6    | 55.6    | 63.5    | 258.1   | 555.8   | 710.6   |
| 75°   | 83.4    | 87.3    | 71.5    | 55.6    | 43.7    | 35.7    | 27.8    | 23.8    | 31.8    | 51.6    |
| 77.5° | 91.3    | 91.3    | 75.4    | 51.6    | 39.7    | 27.8    | 15.9    | 7.9     | 7.9     | 4.0     |
| 80°   | 115.1   | 119.1   | 99.3    | 67.5    | 47.6    | 31.8    | 19.9    | 7.9     | 4.0     | 4.0     |
| 82.5° | 123.1   | 135.0   | 111.2   | 83.4    | 59.6    | 35.7    | 19.9    | 4.0     | 0.0     | 0.0     |
| 85°   | 31.8    | 51.6    | 87.3    | 75.4    | 59.6    | 35.7    | 19.9    | 4.0     | 0.0     | 0.0     |
| 87.5° | 0.0     | 4.0     | 11.9    | 11.9    | 15.9    | 15.9    | 11.9    | 4.0     | 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     |

(END OF REPORT)