

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: P455568

Luminaire Tested: **GALN-SA6D-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455568  
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-SA6D-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA 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: 36012 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

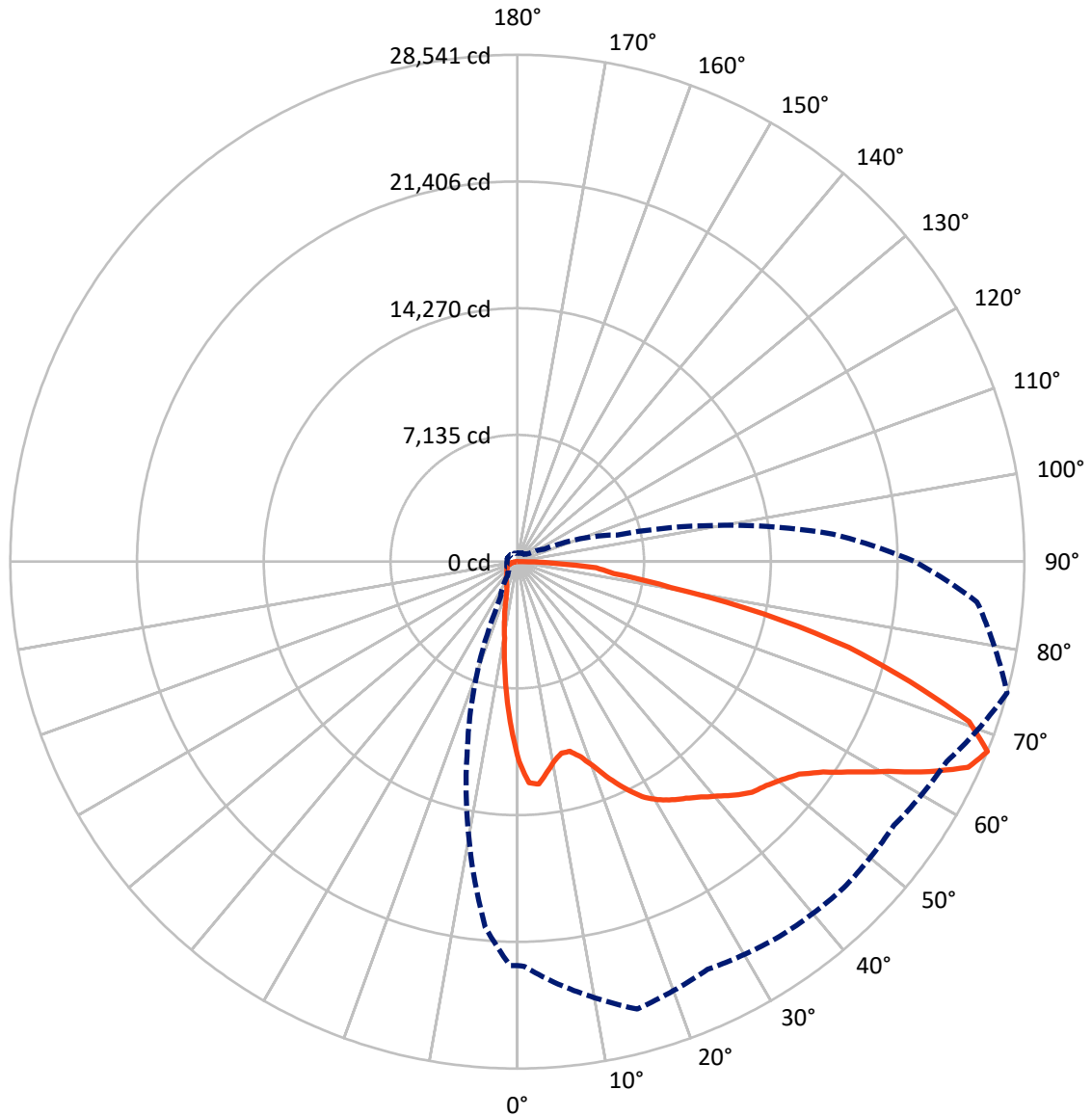
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P455568  
CATALOG NUMBER: GALN-SA6D-730-U-SLL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455568

CATALOG NUMBER: GALN-SA6D-730-U-SLL

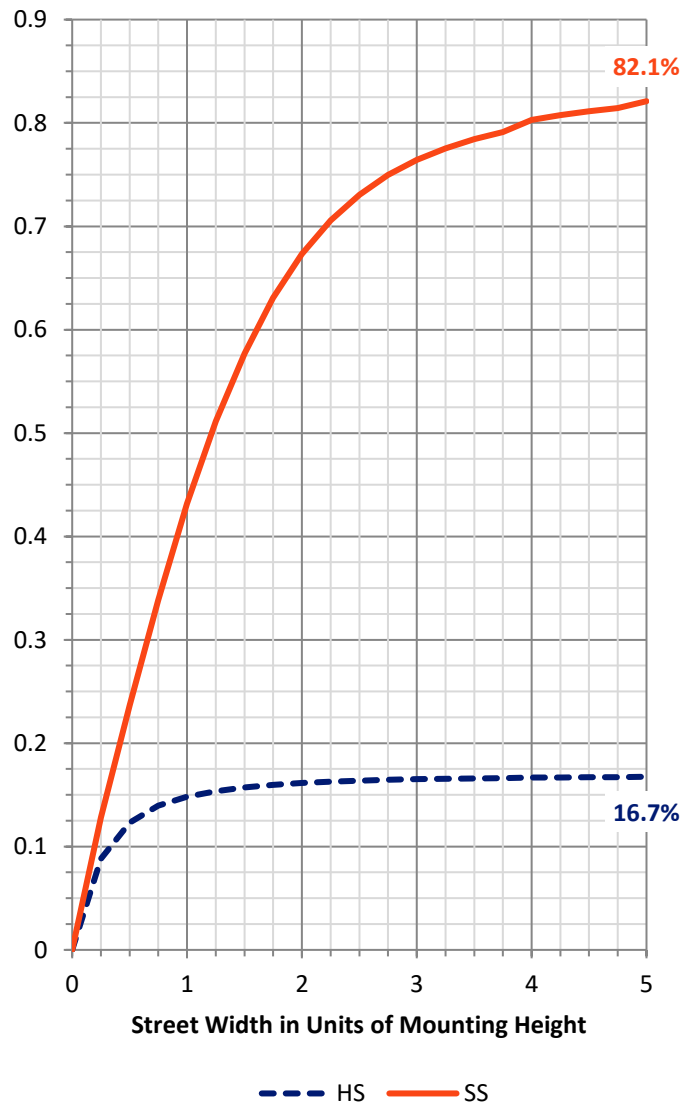
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6086.8   | 0.0    | 6086.8  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 29925.2  | 0.0    | 29925.2 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 36012.0  | 0.0    | 36012.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 853.4   | 2.4       |
| 10°-20°   | 1779.7  | 4.9       |
| 20°-30°   | 2561.0  | 7.1       |
| 30°-40°   | 3688.6  | 10.2      |
| 40°-50°   | 5181.4  | 14.4      |
| 50°-60°   | 7226.3  | 20.1      |
| 60°-70°   | 8591.6  | 23.9      |
| 70°-80°   | 5060.0  | 14.1      |
| 80°-90°   | 1070.0  | 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°    | 36012.0 | 100.0     |
| 0°-180°   | 36012.0 | 100.0     |



REPORT NUMBER: P455568

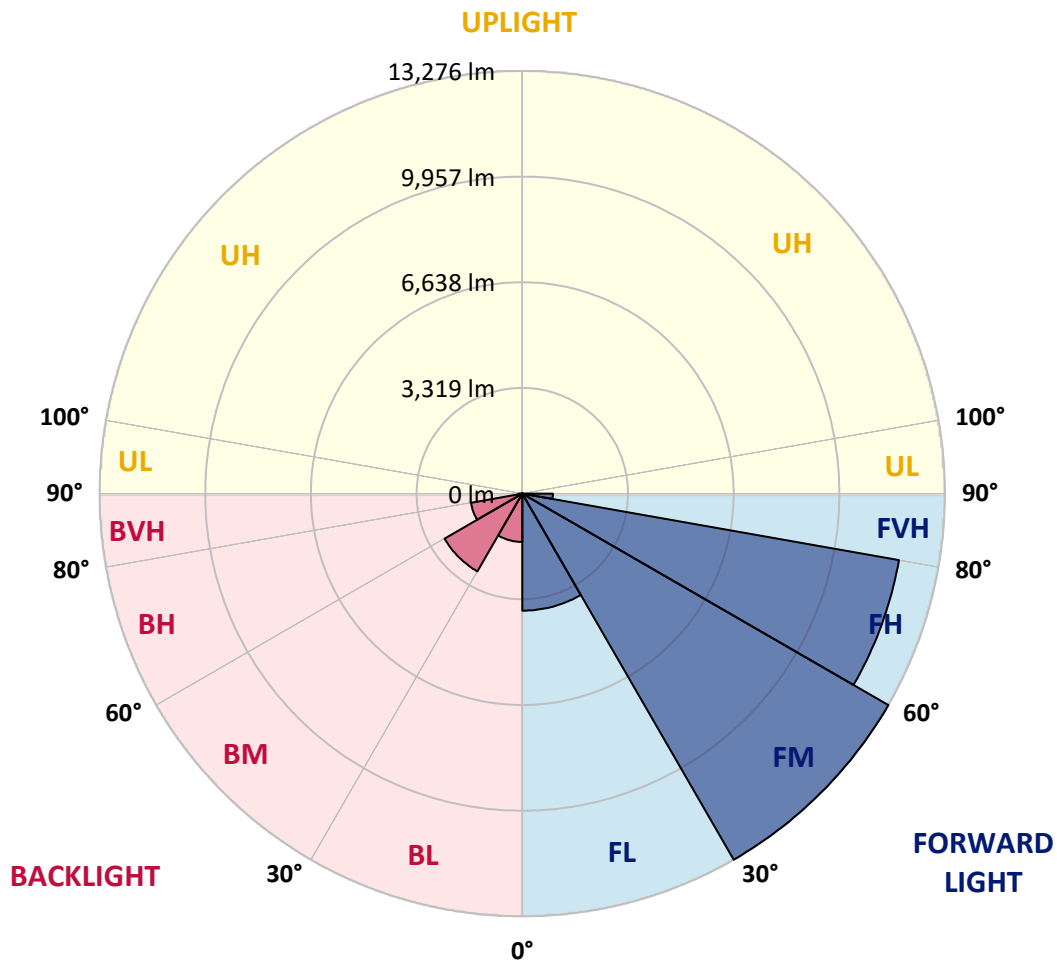
CATALOG NUMBER: GALN-SA6D-730-U-SLL

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3675.8  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 13276.3 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 12013.7 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 959.3   | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 1518.2  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2820.0  | 7.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1637.8  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 110.7   | 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





REPORT NUMBER: P455568  
 CATALOG NUMBER: GALN-SA6D-730-U-SLL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 |
| 2.5°  | 12130.9 | 12147.0 | 12250.9 | 12553.5 | 12761.3 | 12837.5 | 12890.6 | 12791.3 | 12694.3 | 12458.8 | 12103.1 |
| 5°    | 12093.9 | 12188.6 | 12458.8 | 13137.7 | 13673.5 | 13904.4 | 13973.7 | 13675.8 | 13183.9 | 12578.9 | 11851.4 |
| 7.5°  | 11387.3 | 11514.3 | 11929.9 | 13068.4 | 14012.9 | 14553.3 | 14481.7 | 13943.7 | 13056.9 | 11978.4 | 10962.3 |
| 10°   | 10549.0 | 10689.8 | 11191.0 | 12567.3 | 13784.3 | 14527.9 | 14527.9 | 13872.1 | 12694.3 | 11412.7 | 10241.8 |
| 12.5° | 9883.9  | 10031.7 | 10604.4 | 12052.3 | 13308.6 | 14012.9 | 14130.7 | 13567.2 | 12433.4 | 11054.7 | 9768.4  |
| 15°   | 9664.5  | 9807.7  | 10424.3 | 11740.6 | 12805.2 | 13234.7 | 13274.0 | 13089.2 | 12306.4 | 11080.1 | 9747.6  |
| 17.5° | 9937.0  | 10121.7 | 10745.3 | 11832.9 | 12343.3 | 12368.7 | 12398.7 | 12544.2 | 12320.2 | 11544.3 | 10167.9 |
| 20°   | 10724.5 | 10923.1 | 11574.3 | 12130.9 | 11939.2 | 11675.9 | 11692.1 | 12066.2 | 12484.2 | 12311.0 | 11172.5 |
| 22.5° | 11860.7 | 12033.9 | 12701.3 | 12655.1 | 11768.3 | 11225.6 | 11112.4 | 11634.3 | 12726.7 | 13267.0 | 12241.7 |
| 25°   | 13086.9 | 13290.1 | 14056.8 | 13433.3 | 11816.8 | 10957.7 | 10886.1 | 11380.3 | 12978.4 | 14160.7 | 13477.2 |
| 27.5° | 14491.0 | 14689.6 | 15294.6 | 14218.5 | 12070.8 | 10936.9 | 10851.5 | 11357.2 | 13204.7 | 14987.5 | 14657.2 |
| 30°   | 15534.8 | 15717.2 | 16128.3 | 14878.9 | 12382.6 | 11075.5 | 10969.3 | 11539.7 | 13398.7 | 15553.3 | 15807.3 |
| 32.5° | 16354.6 | 16544.0 | 16768.0 | 15290.0 | 12793.6 | 11327.2 | 11130.9 | 11872.2 | 13652.7 | 15985.1 | 16659.4 |
| 35°   | 17209.0 | 17433.0 | 17416.9 | 15654.9 | 13177.0 | 11618.2 | 11426.5 | 12352.5 | 14052.2 | 16361.5 | 17740.2 |
| 37.5° | 18292.1 | 18382.2 | 18266.7 | 15982.8 | 13636.5 | 12142.4 | 12036.2 | 13066.1 | 14620.3 | 16816.5 | 19003.4 |
| 40°   | 19391.3 | 19571.5 | 18978.0 | 16380.0 | 14195.4 | 13128.5 | 13116.9 | 14121.5 | 15294.6 | 17349.9 | 20227.3 |
| 42.5° | 20333.6 | 20486.0 | 19643.1 | 16726.4 | 14872.0 | 14331.6 | 14419.4 | 15537.1 | 16179.1 | 17968.8 | 21211.1 |
| 45°   | 21042.5 | 21178.8 | 20257.3 | 17061.2 | 15763.4 | 15721.8 | 16239.1 | 17054.3 | 17294.5 | 18525.4 | 21788.4 |
| 47.5° | 21645.2 | 21776.9 | 20684.6 | 17569.3 | 16865.0 | 17382.2 | 18282.9 | 18636.2 | 18248.2 | 18844.0 | 22435.0 |
| 50°   | 22153.3 | 22192.6 | 20977.9 | 18174.3 | 18232.1 | 19416.8 | 20289.7 | 20518.3 | 19190.4 | 19301.3 | 22996.2 |
| 52.5° | 22682.1 | 22631.3 | 21483.6 | 18936.4 | 19710.0 | 21347.3 | 21982.4 | 22220.3 | 20093.4 | 19864.8 | 23813.7 |
| 55°   | 23866.8 | 23915.3 | 22617.5 | 19897.1 | 21204.2 | 23243.3 | 24079.3 | 23850.6 | 21093.3 | 20901.6 | 24852.9 |
| 57.5° | 25298.6 | 25257.0 | 24213.2 | 21400.5 | 22726.0 | 25007.6 | 25631.1 | 25263.9 | 22428.1 | 22326.5 | 25905.9 |
| 60°   | 25855.1 | 25910.6 | 25548.0 | 23017.0 | 24227.1 | 26552.5 | 27189.9 | 26619.5 | 24028.5 | 23982.3 | 26700.3 |
| 62.5° | 25296.3 | 25608.0 | 25852.8 | 24455.7 | 25506.4 | 27688.7 | 28321.5 | 27670.3 | 25698.1 | 26033.0 | 27256.9 |
| 65°   | 24183.2 | 24250.2 | 25083.8 | 25675.0 | 26123.0 | 27875.8 | 28206.0 | 27859.6 | 27092.9 | 27901.2 | 27231.5 |
| 67.5° | 22737.6 | 22795.3 | 23772.1 | 26074.5 | 25328.6 | 25751.2 | 25982.1 | 25880.5 | 26661.1 | 28540.9 | 25977.5 |
| 70°   | 21361.2 | 21315.0 | 22347.3 | 25056.1 | 22049.4 | 21407.4 | 21599.1 | 21280.4 | 23005.4 | 26977.5 | 23518.1 |
| 72.5° | 18682.4 | 18848.7 | 19957.1 | 22224.9 | 17458.4 | 16414.6 | 16832.6 | 16008.2 | 17694.0 | 23104.7 | 19088.8 |
| 75°   | 14634.2 | 14673.4 | 16523.2 | 18652.4 | 13170.0 | 11523.5 | 12089.3 | 11745.2 | 13553.4 | 19273.6 | 13181.6 |
| 77.5° | 10133.3 | 10045.5 | 12033.9 | 14246.2 | 9392.0  | 8435.9  | 8445.2  | 8281.2  | 9463.6  | 14190.8 | 8955.5  |
| 80°   | 6436.1  | 6302.1  | 7533.0  | 8800.8  | 6454.5  | 6904.9  | 6678.5  | 6671.6  | 6161.3  | 8754.6  | 5415.4  |
| 82.5° | 3477.8  | 3625.6  | 4759.5  | 5517.0  | 4630.2  | 5336.8  | 4891.1  | 4748.0  | 4228.4  | 5480.0  | 3464.0  |
| 85°   | 1584.2  | 1722.8  | 2537.9  | 3752.6  | 3517.1  | 3556.4  | 2376.3  | 2803.5  | 3498.6  | 4450.1  | 1849.8  |
| 87.5° | 154.7   | 198.6   | 524.2   | 1771.2  | 1200.8  | 946.8   | 353.3   | 681.2   | 879.9   | 1581.9  | 147.8   |
| 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: P455568

CATALOG NUMBER: GALN-SA6D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 |
| 2.5°  | 11957.7 | 11837.6 | 11428.8 | 11091.7 | 10733.7 | 10461.2 | 10105.6 | 9867.7  | 9703.8  | 9456.7  | 9426.6  |
| 5°    | 11408.0 | 11114.8 | 10403.5 | 9678.4  | 9052.5  | 8581.4  | 8103.4  | 7664.6  | 7406.0  | 7325.2  | 7221.2  |
| 7.5°  | 10482.0 | 9987.8  | 9073.3  | 8242.0  | 7523.8  | 6821.7  | 6281.3  | 5898.0  | 5641.7  | 5491.6  | 5311.4  |
| 10°   | 9719.9  | 9147.2  | 8034.1  | 7015.7  | 6424.5  | 5988.1  | 5512.3  | 5101.3  | 4784.9  | 4514.7  | 4366.9  |
| 12.5° | 9207.3  | 8560.6  | 7309.0  | 6482.3  | 6025.0  | 5560.8  | 5004.3  | 4542.4  | 4075.9  | 3768.8  | 3637.2  |
| 15°   | 9052.5  | 8369.0  | 7085.0  | 6216.7  | 5560.8  | 4953.5  | 4330.0  | 3727.2  | 3265.4  | 2974.4  | 2877.4  |
| 17.5° | 9431.3  | 8604.5  | 7082.7  | 5863.4  | 5015.8  | 4290.7  | 3491.7  | 2925.9  | 2452.5  | 2235.4  | 2166.1  |
| 20°   | 10137.9 | 9057.1  | 7103.5  | 5514.7  | 4424.7  | 3403.9  | 2540.3  | 2076.1  | 1849.8  | 1757.4  | 1722.8  |
| 22.5° | 11124.0 | 9747.6  | 7165.8  | 5170.6  | 3778.0  | 2614.1  | 1902.9  | 1667.3  | 1586.5  | 1570.3  | 1563.4  |
| 25°   | 12338.7 | 10602.1 | 7376.0  | 4861.1  | 3233.0  | 1995.3  | 1591.1  | 1484.9  | 1438.7  | 1422.5  | 1420.2  |
| 27.5° | 13456.4 | 11705.9 | 7630.0  | 4595.5  | 2706.5  | 1720.4  | 1438.7  | 1348.6  | 1302.5  | 1300.1  | 1304.8  |
| 30°   | 14465.6 | 12629.7 | 7842.4  | 4297.6  | 2307.0  | 1528.8  | 1339.4  | 1249.3  | 1205.5  | 1203.2  | 1217.0  |
| 32.5° | 15338.5 | 13389.4 | 7999.5  | 4004.4  | 2085.3  | 1411.0  | 1249.3  | 1152.4  | 1115.4  | 1108.5  | 1115.4  |
| 35°   | 16271.5 | 14146.9 | 7927.9  | 3775.7  | 1958.3  | 1314.0  | 1182.4  | 1087.7  | 1043.8  | 1023.0  | 1023.0  |
| 37.5° | 17336.1 | 14927.4 | 7805.5  | 3586.4  | 1900.6  | 1233.2  | 1124.6  | 1032.3  | 988.4   | 967.6   | 965.3   |
| 40°   | 18497.6 | 15708.0 | 7636.9  | 3417.8  | 1842.8  | 1184.7  | 1085.4  | 988.4   | 935.3   | 914.5   | 909.9   |
| 42.5° | 19523.0 | 16375.4 | 7498.4  | 3306.9  | 1748.2  | 1193.9  | 1050.7  | 956.1   | 889.1   | 861.4   | 859.1   |
| 45°   | 20414.4 | 17047.4 | 7473.0  | 3242.3  | 1669.6  | 1180.1  | 1041.5  | 930.7   | 852.1   | 822.1   | 817.5   |
| 47.5° | 21111.8 | 17747.1 | 7618.4  | 3205.3  | 1584.2  | 1106.2  | 1101.5  | 914.5   | 819.8   | 787.5   | 782.9   |
| 50°   | 21961.6 | 18740.1 | 7951.0  | 3129.1  | 1505.7  | 1036.9  | 1163.9  | 912.2   | 794.4   | 752.8   | 741.3   |
| 52.5° | 23093.2 | 20033.3 | 8401.3  | 2992.9  | 1392.5  | 972.2   | 1110.8  | 912.2   | 764.4   | 722.8   | 709.0   |
| 55°   | 24804.4 | 21682.2 | 8842.4  | 2801.2  | 1233.2  | 886.8   | 1002.2  | 884.5   | 720.5   | 683.6   | 674.3   |
| 57.5° | 25938.3 | 22887.7 | 9124.1  | 2535.6  | 1034.6  | 824.4   | 863.7   | 840.6   | 676.6   | 637.4   | 637.4   |
| 60°   | 25996.0 | 23211.0 | 8990.2  | 2200.8  | 909.9   | 766.7   | 750.5   | 847.5   | 637.4   | 595.8   | 591.2   |
| 62.5° | 25330.9 | 22418.9 | 8292.8  | 1900.6  | 842.9   | 704.3   | 678.9   | 743.6   | 598.1   | 556.5   | 549.6   |
| 65°   | 24291.7 | 20398.2 | 7082.7  | 1757.4  | 806.0   | 648.9   | 612.0   | 609.7   | 556.5   | 517.3   | 508.1   |
| 67.5° | 22381.9 | 17825.6 | 5819.5  | 1674.3  | 787.5   | 586.6   | 551.9   | 540.4   | 508.1   | 475.7   | 471.1   |
| 70°   | 19566.9 | 14929.7 | 4667.1  | 1639.6  | 778.2   | 521.9   | 494.2   | 480.3   | 452.6   | 427.2   | 424.9   |
| 72.5° | 15223.0 | 12110.1 | 3851.9  | 1616.5  | 773.6   | 461.9   | 431.8   | 413.4   | 397.2   | 374.1   | 374.1   |
| 75°   | 10934.6 | 8909.4  | 2939.8  | 1457.2  | 715.9   | 397.2   | 364.9   | 353.3   | 330.2   | 311.8   | 316.4   |
| 77.5° | 6893.3  | 5999.6  | 1935.2  | 1071.5  | 554.2   | 318.7   | 291.0   | 284.0   | 265.6   | 240.2   | 256.3   |
| 80°   | 4655.6  | 4219.1  | 1129.3  | 674.3   | 348.7   | 233.2   | 224.0   | 221.7   | 200.9   | 173.2   | 175.5   |
| 82.5° | 3168.4  | 3108.3  | 586.6   | 383.3   | 200.9   | 136.2   | 131.6   | 136.2   | 113.2   | 92.4    | 92.4    |
| 85°   | 1237.8  | 1690.4  | 277.1   | 150.1   | 64.7    | 20.8    | 30.0    | 32.3    | 18.5    | 9.2     | 11.5    |
| 87.5° | 23.1    | 173.2   | 6.9     | 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     |





REPORT NUMBER: P455568

CATALOG NUMBER: GALN-SA6D-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 |
| 2.5°  | 9380.5  | 9359.7  | 9394.3  | 9246.5  | 9276.5  | 9332.0  | 9359.7  | 9375.8  | 9604.5  | 9551.3  | 9696.8  |
| 5°    | 7318.2  | 7297.4  | 7431.4  | 7449.9  | 7519.1  | 7505.3  | 7572.3  | 7588.4  | 7671.6  | 7701.6  | 7904.8  |
| 7.5°  | 5323.0  | 5413.0  | 5565.5  | 5644.0  | 5761.8  | 5798.7  | 5764.1  | 5849.5  | 5676.3  | 5801.0  | 5838.0  |
| 10°   | 4276.9  | 4168.3  | 4103.7  | 4283.8  | 4306.9  | 4477.8  | 4408.5  | 4353.1  | 4454.7  | 4459.3  | 4556.3  |
| 12.5° | 3561.0  | 3327.7  | 3173.0  | 3223.8  | 3279.2  | 3353.1  | 3364.7  | 3475.5  | 3549.4  | 3618.7  | 3676.4  |
| 15°   | 2792.0  | 2711.1  | 2570.3  | 2501.0  | 2579.5  | 2609.5  | 2681.1  | 2773.5  | 2852.0  | 2872.8  | 2951.3  |
| 17.5° | 2143.0  | 2156.9  | 2133.8  | 2092.2  | 2140.7  | 2163.8  | 2168.5  | 2170.8  | 2191.5  | 2177.7  | 2293.2  |
| 20°   | 1725.1  | 1773.6  | 1831.3  | 1840.5  | 1856.7  | 1868.2  | 1847.5  | 1768.9  | 1771.2  | 1819.7  | 1856.7  |
| 22.5° | 1561.1  | 1570.3  | 1635.0  | 1655.8  | 1706.6  | 1685.8  | 1625.8  | 1588.8  | 1584.2  | 1595.7  | 1614.2  |
| 25°   | 1431.8  | 1445.6  | 1491.8  | 1524.2  | 1563.4  | 1526.5  | 1482.6  | 1447.9  | 1443.3  | 1454.9  | 1473.3  |
| 27.5° | 1316.3  | 1337.1  | 1378.7  | 1411.0  | 1447.9  | 1413.3  | 1371.7  | 1341.7  | 1339.4  | 1337.1  | 1348.6  |
| 30°   | 1223.9  | 1247.0  | 1277.1  | 1314.0  | 1339.4  | 1309.4  | 1270.1  | 1254.0  | 1251.7  | 1247.0  | 1251.7  |
| 32.5° | 1131.6  | 1168.5  | 1198.5  | 1217.0  | 1242.4  | 1219.3  | 1189.3  | 1180.1  | 1163.9  | 1150.0  | 1143.1  |
| 35°   | 1027.6  | 1066.9  | 1113.1  | 1136.2  | 1161.6  | 1138.5  | 1117.7  | 1078.5  | 1050.7  | 1048.4  | 1053.0  |
| 37.5° | 967.6   | 983.8   | 1020.7  | 1060.0  | 1085.4  | 1073.8  | 1034.6  | 995.3   | 988.4   | 988.4   | 993.0   |
| 40°   | 914.5   | 921.4   | 937.6   | 988.4   | 1034.6  | 999.9   | 951.4   | 939.9   | 939.9   | 937.6   | 939.9   |
| 42.5° | 861.4   | 868.3   | 868.3   | 907.6   | 981.5   | 926.0   | 889.1   | 889.1   | 889.1   | 891.4   | 898.3   |
| 45°   | 812.9   | 815.2   | 812.9   | 840.6   | 909.9   | 863.7   | 838.3   | 845.2   | 849.8   | 854.4   | 859.1   |
| 47.5° | 771.3   | 773.6   | 771.3   | 794.4   | 829.0   | 810.6   | 796.7   | 806.0   | 815.2   | 822.1   | 826.7   |
| 50°   | 734.4   | 732.1   | 736.7   | 750.5   | 766.7   | 771.3   | 762.1   | 775.9   | 780.5   | 789.8   | 801.3   |
| 52.5° | 702.0   | 699.7   | 704.3   | 711.3   | 734.4   | 734.4   | 734.4   | 745.9   | 755.1   | 764.4   | 780.5   |
| 55°   | 665.1   | 667.4   | 674.3   | 683.6   | 713.6   | 709.0   | 711.3   | 720.5   | 729.7   | 743.6   | 752.8   |
| 57.5° | 630.4   | 635.1   | 644.3   | 658.2   | 688.2   | 685.9   | 688.2   | 692.8   | 704.3   | 711.3   | 720.5   |
| 60°   | 591.2   | 600.4   | 612.0   | 621.2   | 651.2   | 648.9   | 660.5   | 669.7   | 676.6   | 676.6   | 681.2   |
| 62.5° | 551.9   | 565.8   | 577.3   | 584.3   | 616.6   | 618.9   | 635.1   | 642.0   | 646.6   | 642.0   | 648.9   |
| 65°   | 512.7   | 533.5   | 538.1   | 547.3   | 579.6   | 581.9   | 600.4   | 616.6   | 612.0   | 607.4   | 618.9   |
| 67.5° | 473.4   | 498.8   | 496.5   | 508.1   | 540.4   | 545.0   | 561.2   | 588.9   | 579.6   | 575.0   | 584.3   |
| 70°   | 429.5   | 448.0   | 450.3   | 457.2   | 501.1   | 494.2   | 519.6   | 545.0   | 538.1   | 540.4   | 540.4   |
| 72.5° | 381.0   | 397.2   | 397.2   | 411.1   | 457.2   | 445.7   | 466.5   | 494.2   | 494.2   | 491.9   | 491.9   |
| 75°   | 323.3   | 332.5   | 341.8   | 362.6   | 411.1   | 397.2   | 411.1   | 436.5   | 441.1   | 436.5   | 436.5   |
| 77.5° | 261.0   | 274.8   | 279.4   | 307.1   | 341.8   | 339.5   | 353.3   | 364.9   | 374.1   | 369.5   | 369.5   |
| 80°   | 184.7   | 198.6   | 217.1   | 247.1   | 267.9   | 274.8   | 281.7   | 291.0   | 295.6   | 295.6   | 300.2   |
| 82.5° | 103.9   | 124.7   | 140.9   | 170.9   | 180.1   | 214.8   | 212.5   | 219.4   | 212.5   | 187.1   | 207.8   |
| 85°   | 23.1    | 43.9    | 62.4    | 78.5    | 90.1    | 124.7   | 131.6   | 147.8   | 122.4   | 113.2   | 113.2   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 18.5    | 36.9    | 50.8    | 43.9    | 36.9    | 36.9    |
| 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°    | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 | 11251.0 |
| 2.5°  | 9819.2  | 10020.1 | 10262.6 | 10680.6 | 10973.9 | 11290.3 | 11608.9 | 11948.4 | 12038.5 | 12130.9 |
| 5°    | 7960.2  | 8355.1  | 8569.9  | 9131.0  | 9719.9  | 10468.1 | 11080.1 | 11749.8 | 12029.2 | 12093.9 |
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| 20°   | 1956.0  | 2240.0  | 2805.8  | 3584.1  | 4498.6  | 5653.2  | 7406.0  | 9641.4  | 10482.0 | 10724.5 |
| 22.5° | 1690.4  | 1835.9  | 2180.0  | 2921.3  | 3944.3  | 5329.9  | 7509.9  | 10442.7 | 11456.5 | 11860.7 |
| 25°   | 1531.1  | 1607.3  | 1801.3  | 2286.2  | 3415.5  | 5015.8  | 7747.8  | 11521.2 | 12819.0 | 13086.9 |
| 27.5° | 1394.8  | 1450.3  | 1570.3  | 1919.0  | 2935.1  | 4724.9  | 8024.9  | 12717.4 | 14091.5 | 14491.0 |
| 30°   | 1265.5  | 1339.4  | 1452.6  | 1704.3  | 2628.0  | 4459.3  | 8373.6  | 13687.3 | 15163.0 | 15534.8 |
| 32.5° | 1166.2  | 1240.1  | 1344.0  | 1554.2  | 2367.1  | 4179.9  | 8581.4  | 14539.5 | 16038.2 | 16354.6 |
| 35°   | 1085.4  | 1147.7  | 1256.3  | 1434.1  | 2168.5  | 3967.4  | 8539.9  | 15216.1 | 16885.7 | 17209.0 |
| 37.5° | 1027.6  | 1080.8  | 1189.3  | 1320.9  | 2018.3  | 3745.7  | 8519.1  | 16109.8 | 17918.0 | 18292.1 |
| 40°   | 974.5   | 1030.0  | 1129.3  | 1247.0  | 1868.2  | 3484.8  | 8530.6  | 16996.6 | 19017.2 | 19391.3 |
| 42.5° | 933.0   | 995.3   | 1076.1  | 1226.2  | 1713.5  | 3274.6  | 8530.6  | 17767.9 | 19973.3 | 20333.6 |
| 45°   | 898.3   | 965.3   | 1043.8  | 1223.9  | 1591.1  | 3115.3  | 8472.9  | 18430.7 | 20735.4 | 21042.5 |
| 47.5° | 868.3   | 942.2   | 1055.4  | 1182.4  | 1561.1  | 2999.8  | 8422.1  | 18961.8 | 21356.6 | 21645.2 |
| 50°   | 847.5   | 935.3   | 1122.3  | 1133.9  | 1570.3  | 2965.2  | 8666.9  | 19631.5 | 21903.9 | 22153.3 |
| 52.5° | 831.4   | 937.6   | 1120.0  | 1062.3  | 1554.2  | 2988.3  | 9177.2  | 20677.6 | 22663.7 | 22682.1 |
| 55°   | 799.0   | 935.3   | 1062.3  | 981.5   | 1487.2  | 3027.5  | 9833.1  | 22197.2 | 23853.0 | 23866.8 |
| 57.5° | 766.7   | 909.9   | 986.1   | 912.2   | 1351.0  | 3027.5  | 10622.9 | 23635.9 | 25287.0 | 25298.6 |
| 60°   | 734.4   | 946.8   | 866.0   | 852.1   | 1173.1  | 2972.1  | 11456.5 | 24268.6 | 25737.4 | 25855.1 |
| 62.5° | 702.0   | 953.7   | 773.6   | 799.0   | 1043.8  | 2838.2  | 12077.7 | 23568.9 | 25127.7 | 25296.3 |
| 65°   | 665.1   | 769.0   | 713.6   | 743.6   | 976.8   | 2614.1  | 11881.4 | 22287.2 | 23982.3 | 24183.2 |
| 67.5° | 621.2   | 651.2   | 648.9   | 685.9   | 953.7   | 2283.9  | 10846.9 | 20666.1 | 22749.1 | 22737.6 |
| 70°   | 568.1   | 584.3   | 591.2   | 630.4   | 909.9   | 2027.6  | 9038.7  | 18562.3 | 21102.6 | 21361.2 |
| 72.5° | 512.7   | 526.5   | 533.5   | 568.1   | 866.0   | 1882.1  | 7015.7  | 15664.1 | 18278.3 | 18682.4 |
| 75°   | 452.6   | 461.9   | 471.1   | 501.1   | 819.8   | 1667.3  | 4997.4  | 11957.7 | 13999.1 | 14634.2 |
| 77.5° | 390.3   | 390.3   | 401.8   | 431.8   | 690.5   | 1376.4  | 3353.1  | 8387.4  | 9484.4  | 10133.3 |
| 80°   | 316.4   | 318.7   | 314.1   | 346.4   | 508.1   | 942.2   | 1905.2  | 5602.4  | 6311.4  | 6436.1  |
| 82.5° | 242.5   | 235.6   | 237.9   | 254.0   | 378.7   | 642.0   | 1016.1  | 3480.1  | 3547.1  | 3477.8  |
| 85°   | 152.4   | 152.4   | 147.8   | 166.3   | 242.5   | 334.9   | 554.2   | 2131.5  | 1665.0  | 1584.2  |
| 87.5° | 62.4    | 50.8    | 57.7    | 67.0    | 115.5   | 136.2   | 217.1   | 438.8   | 168.6   | 154.7   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)