

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: P942542

Luminaire Tested: **GALN-SB6C-835-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-835-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

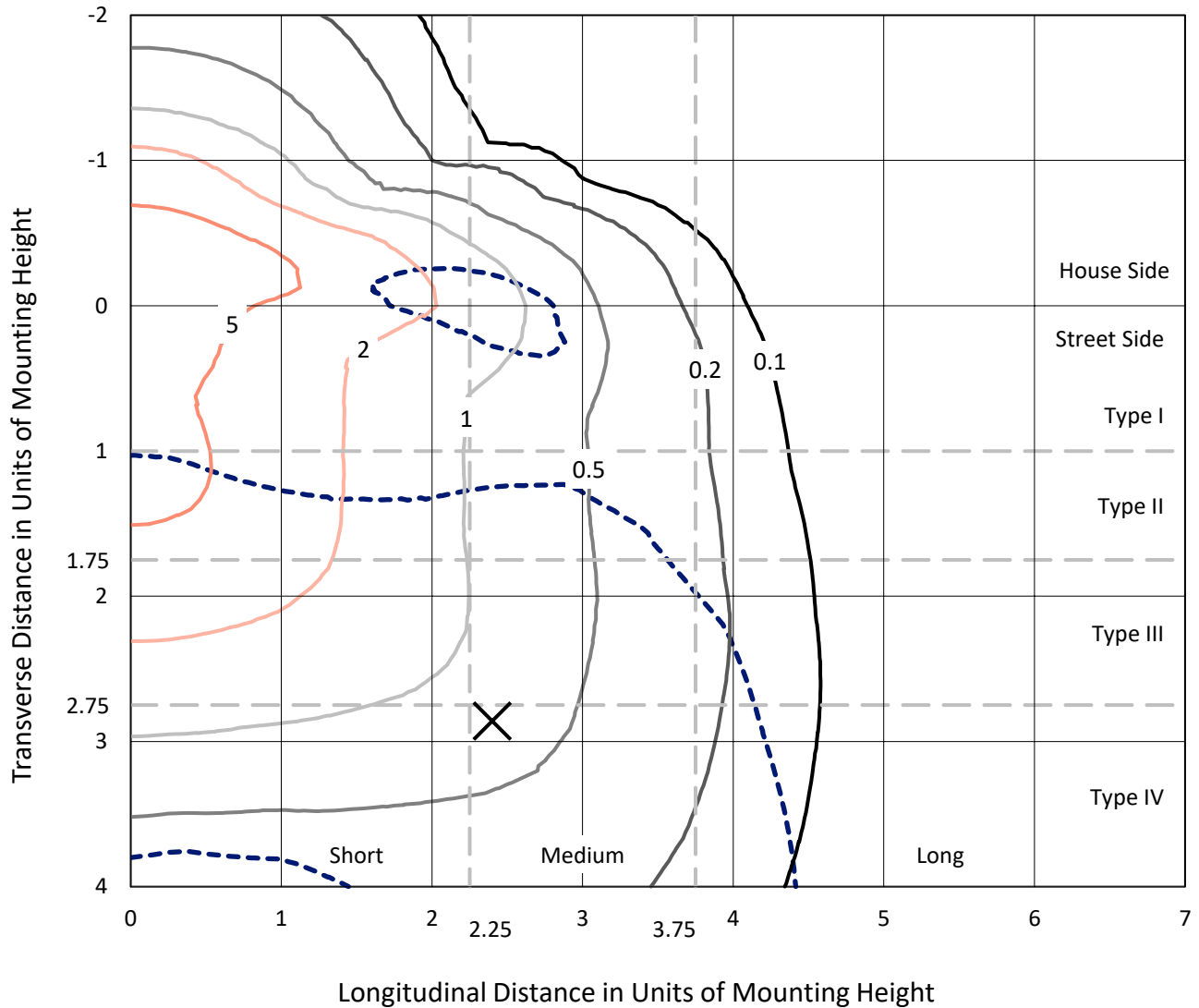
Lumens per Lamp: N/A  
Luminaire Lumens: 41755 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

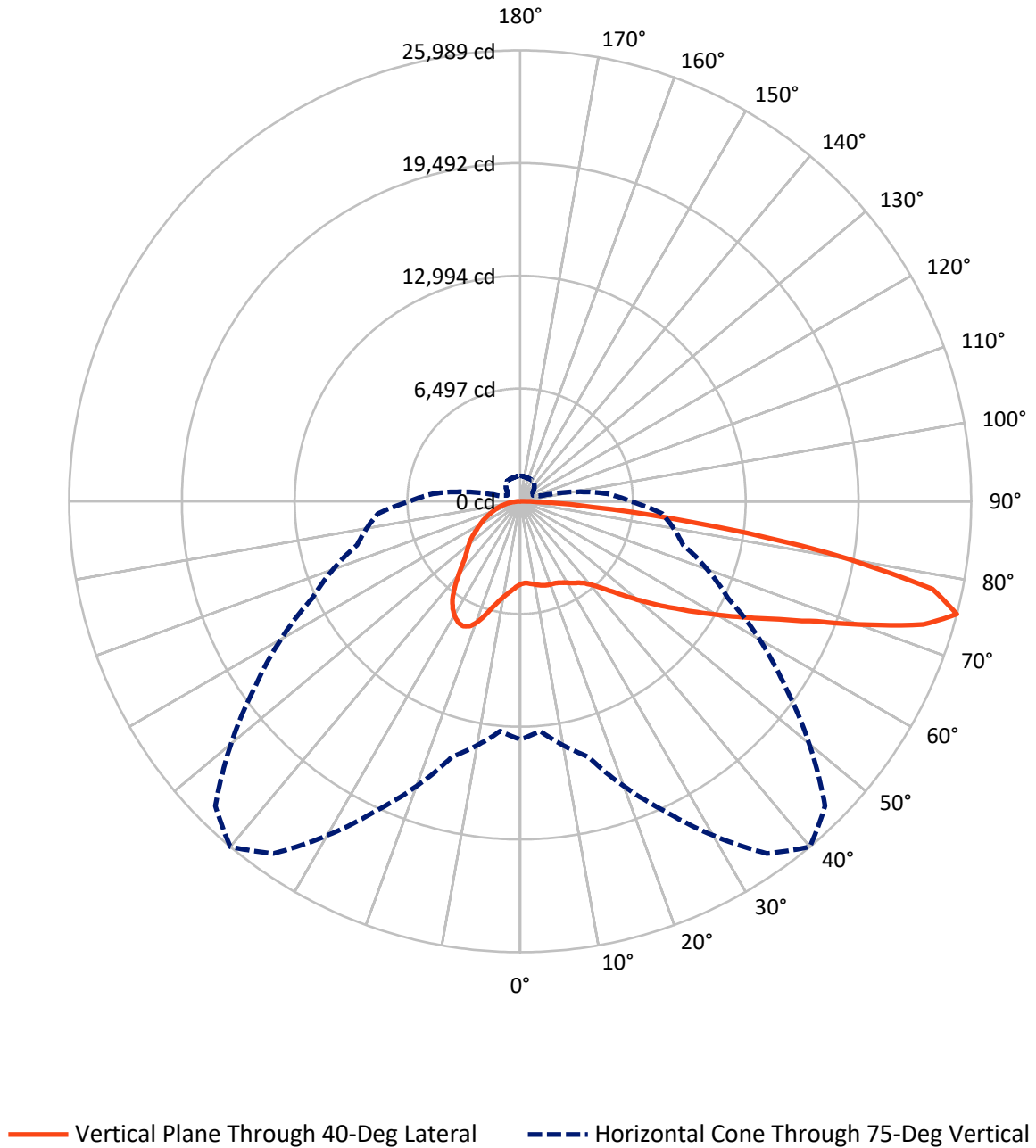
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12937.1  | 0.0    | 12937.1 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 28817.9  | 0.0    | 28817.9 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 41755.0  | 0.0    | 41755.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 476.6   | 1.1       |
| 10°-20°   | 1600.2  | 3.8       |
| 20°-30°   | 2921.8  | 7.0       |
| 30°-40°   | 4144.0  | 9.9       |
| 40°-50°   | 5595.6  | 13.4      |
| 50°-60°   | 7527.6  | 18.0      |
| 60°-70°   | 9554.2  | 22.9      |
| 70°-80°   | 8671.0  | 20.8      |
| 80°-90°   | 1264.0  | 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°    | 41755.0 | 100.0     |
| 0°-180°   | 41755.0 | 100.0     |

**Coefficient of Utilization**



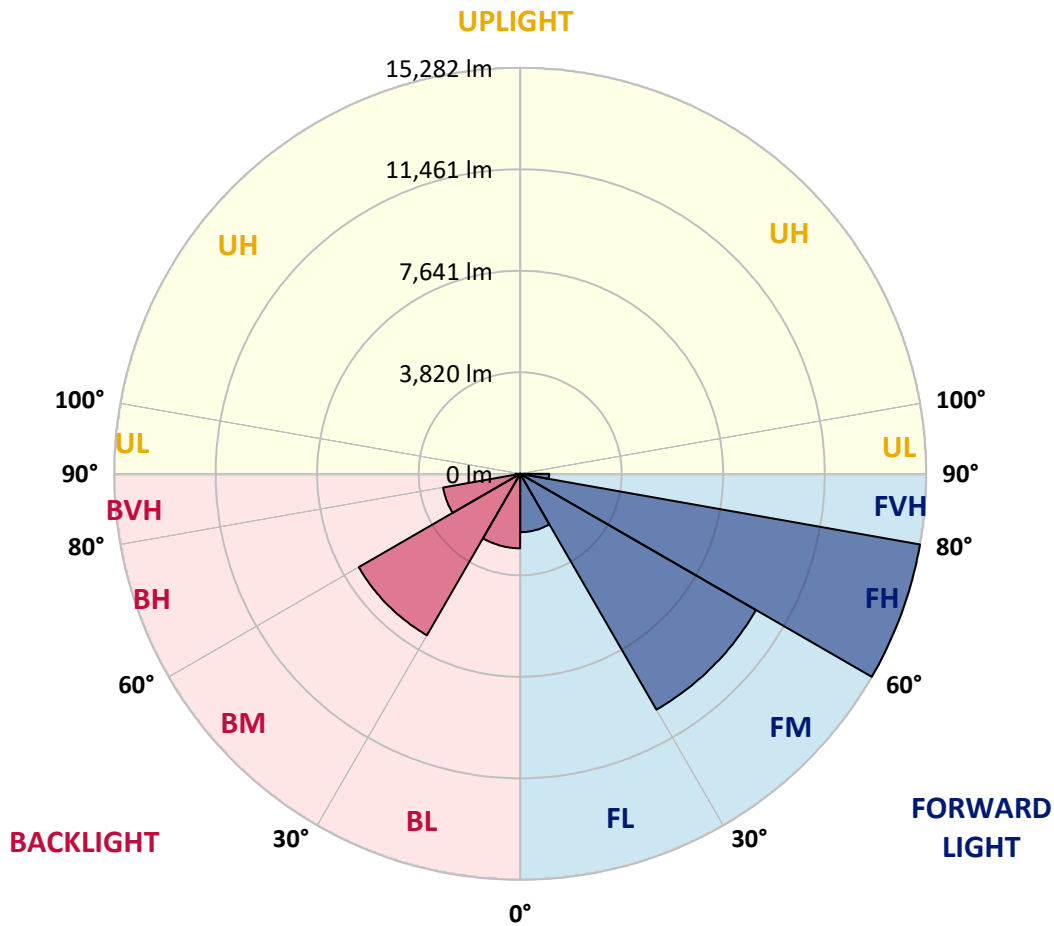
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 CATALOG NUMBER: GALN-SB6C-835-U-SL4

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2196.4  | 5.3       |                         |      |         |
| FM (30°-60°)   | 10249.9 | 24.5      |                         |      |         |
| FH (60°-80°)   | 15281.7 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 1089.9  | 2.6       |                         |      | G5      |
| BL (0°-30°)    | 2802.3  | 6.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 7017.2  | 16.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 2943.6  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 174.0   | 0.4       |                         |      | G2/225  |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4774.7  | 4774.7  | 4774.7  | 4774.7  | 4774.7  | 4774.7  | 4774.7  | 4774.7  | 4774.7  | 4774.7  |
| 2.5°  | 4701.7  | 4728.2  | 4721.6  | 4712.7  | 4712.7  | 4714.9  | 4712.7  | 4728.2  | 4743.7  | 4759.2  |
| 5°    | 4750.4  | 4777.0  | 4763.7  | 4752.6  | 4743.7  | 4741.5  | 4734.9  | 4732.7  | 4741.5  | 4761.5  |
| 7.5°  | 4845.6  | 4872.2  | 4852.3  | 4832.3  | 4814.6  | 4805.7  | 4796.9  | 4783.6  | 4777.0  | 4788.0  |
| 10°   | 4951.9  | 4978.5  | 4954.1  | 4918.7  | 4889.9  | 4878.8  | 4870.0  | 4856.7  | 4847.8  | 4854.5  |
| 12.5° | 5058.2  | 5084.8  | 5051.6  | 5002.8  | 4965.2  | 4958.6  | 4947.5  | 4943.1  | 4940.8  | 4938.6  |
| 15°   | 5157.9  | 5180.0  | 5137.9  | 5080.4  | 5040.5  | 5029.4  | 5018.3  | 5025.0  | 5036.1  | 5049.4  |
| 17.5° | 5235.4  | 5257.5  | 5195.5  | 5120.2  | 5082.6  | 5078.1  | 5071.5  | 5093.6  | 5124.7  | 5157.9  |
| 20°   | 5306.3  | 5328.4  | 5248.7  | 5146.8  | 5102.5  | 5102.5  | 5104.7  | 5151.2  | 5195.5  | 5244.2  |
| 22.5° | 5405.9  | 5423.6  | 5326.2  | 5186.7  | 5122.4  | 5126.9  | 5144.6  | 5191.1  | 5246.5  | 5312.9  |
| 25°   | 5554.3  | 5567.6  | 5448.0  | 5262.0  | 5188.9  | 5202.2  | 5217.7  | 5239.8  | 5293.0  | 5370.5  |
| 27.5° | 5793.5  | 5804.5  | 5647.3  | 5394.8  | 5284.1  | 5306.3  | 5328.4  | 5312.9  | 5337.3  | 5403.7  |
| 30°   | 6130.1  | 6136.7  | 5937.4  | 5603.0  | 5445.8  | 5456.8  | 5461.3  | 5397.1  | 5350.5  | 5403.7  |
| 32.5° | 6528.7  | 6526.5  | 6289.5  | 5855.5  | 5629.6  | 5618.5  | 5580.9  | 5454.6  | 5346.1  | 5392.6  |
| 35°   | 7146.6  | 7122.2  | 6816.6  | 6209.8  | 5837.8  | 5769.1  | 5680.5  | 5518.9  | 5368.3  | 5381.5  |
| 37.5° | 8169.8  | 8094.5  | 7671.5  | 6790.1  | 6147.8  | 5972.9  | 5842.2  | 5622.9  | 5417.0  | 5377.1  |
| 40°   | 9323.6  | 9228.4  | 8763.3  | 7585.1  | 6612.9  | 6331.6  | 6121.2  | 5771.3  | 5496.7  | 5397.1  |
| 42.5° | 10692.2 | 10557.1 | 10056.6 | 8521.9  | 7202.0  | 6794.5  | 6477.8  | 5959.6  | 5614.1  | 5461.3  |
| 45°   | 12373.1 | 12193.7 | 11485.1 | 9578.3  | 7943.9  | 7401.3  | 6978.3  | 6245.3  | 5793.5  | 5585.3  |
| 47.5° | 14071.8 | 14116.0 | 13108.4 | 10787.5 | 8834.2  | 8149.8  | 7605.0  | 6674.9  | 6054.8  | 5784.6  |
| 50°   | 15876.7 | 15907.7 | 14722.9 | 12127.3 | 9844.0  | 8995.8  | 8309.3  | 7155.5  | 6418.0  | 6068.1  |
| 52.5° | 17285.2 | 17289.6 | 16188.9 | 13529.2 | 10896.0 | 9926.0  | 9068.9  | 7704.7  | 6838.8  | 6444.6  |
| 55°   | 18166.6 | 18155.5 | 17216.5 | 14855.7 | 12105.2 | 10902.6 | 9910.5  | 8329.2  | 7352.6  | 6887.5  |
| 57.5° | 18806.6 | 18773.4 | 17925.2 | 15996.3 | 13394.1 | 12056.4 | 10862.8 | 9037.9  | 7959.4  | 7414.6  |
| 60°   | 19050.2 | 19030.3 | 18405.8 | 16981.8 | 14749.4 | 13332.1 | 11961.2 | 9830.7  | 8648.1  | 8036.9  |
| 62.5° | 19143.3 | 19180.9 | 18877.5 | 17936.3 | 16200.0 | 14745.0 | 13168.2 | 10778.6 | 9423.2  | 8741.1  |
| 65°   | 19471.0 | 19539.7 | 19477.7 | 19185.3 | 17838.8 | 16399.3 | 14769.4 | 11905.8 | 10269.2 | 9496.3  |
| 67.5° | 20119.9 | 20188.6 | 20215.1 | 20680.2 | 19840.9 | 18461.1 | 16767.0 | 13309.9 | 11259.2 | 10280.3 |
| 70°   | 20104.4 | 20084.5 | 20554.0 | 21869.5 | 22347.8 | 21315.8 | 19459.9 | 15037.3 | 12439.6 | 10931.4 |
| 72.5° | 18299.5 | 18140.0 | 19249.6 | 21856.2 | 24434.0 | 24296.7 | 22748.7 | 17265.2 | 13458.3 | 11011.1 |
| 75°   | 13728.5 | 13303.3 | 15263.2 | 19696.9 | 24781.7 | 25988.7 | 24839.3 | 18647.2 | 13216.9 | 9728.9  |
| 77.5° | 5871.0  | 5443.6  | 7753.4  | 14581.1 | 22179.5 | 24294.5 | 22921.4 | 16268.7 | 10550.5 | 6433.5  |
| 80°   | 1537.0  | 1534.7  | 2343.1  | 6610.7  | 15083.8 | 17940.7 | 15739.4 | 10506.2 | 6028.2  | 2298.8  |
| 82.5° | 635.6   | 620.1   | 861.5   | 2571.2  | 7370.3  | 10067.7 | 8216.3  | 4686.2  | 2177.0  | 622.3   |
| 85°   | 237.0   | 234.8   | 418.6   | 888.1   | 2600.0  | 4152.4  | 3005.3  | 1198.1  | 542.6   | 303.4   |
| 87.5° | 66.4    | 64.2    | 90.8    | 307.8   | 633.4   | 961.1   | 513.8   | 197.1   | 152.8   | 119.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P942542  
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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4774.7  | 0°    | 4774.7  | 4774.7  | 4774.7  | 4774.7 | 4774.7 | 4774.7 | 4774.7 | 4774.7 | 4774.7 | 4774.7 |
| 4783.6  | 2.5°  | 4790.2  | 4801.3  | 4821.2  | 4836.7 | 4856.7 | 4878.8 | 4909.8 | 4929.8 | 4949.7 | 4963.0 |
| 4794.7  | 5°    | 4810.2  | 4834.5  | 4885.5  | 4936.4 | 4996.2 | 5051.6 | 5115.8 | 5162.3 | 5199.9 | 5211.0 |
| 4834.5  | 7.5°  | 4854.5  | 4894.3  | 4980.7  | 5067.1 | 5162.3 | 5253.1 | 5346.1 | 5425.8 | 5490.1 | 5514.4 |
| 4905.4  | 10°   | 4932.0  | 4985.1  | 5106.9  | 5228.7 | 5355.0 | 5494.5 | 5614.1 | 5729.2 | 5820.0 | 5857.7 |
| 4989.6  | 12.5° | 5029.4  | 5095.9  | 5255.3  | 5423.6 | 5598.6 | 5791.3 | 5946.3 | 6088.0 | 6201.0 | 6251.9 |
| 5106.9  | 15°   | 5155.7  | 5242.0  | 5445.8  | 5671.7 | 5928.6 | 6196.5 | 6393.6 | 6550.9 | 6677.1 | 6739.1 |
| 5228.7  | 17.5° | 5293.0  | 5408.1  | 5665.0  | 6006.1 | 6373.7 | 6725.8 | 6956.1 | 7071.3 | 7202.0 | 7261.8 |
| 5341.7  | 20°   | 5425.8  | 5567.6  | 5935.2  | 6431.3 | 6920.7 | 7295.0 | 7481.0 | 7512.0 | 7520.9 | 7527.5 |
| 5448.0  | 22.5° | 5563.1  | 5753.6  | 6274.0  | 6967.2 | 7492.1 | 7751.2 | 7777.8 | 7644.9 | 7458.9 | 7372.5 |
| 5552.1  | 25°   | 5713.7  | 5966.2  | 6717.0  | 7558.5 | 7983.7 | 8014.7 | 7811.0 | 7487.7 | 7135.5 | 6973.9 |
| 5636.2  | 27.5° | 5859.9  | 6212.0  | 7248.5  | 8123.3 | 8338.1 | 8065.7 | 7627.2 | 7168.8 | 6743.5 | 6573.0 |
| 5696.0  | 30°   | 6006.1  | 6493.3  | 7835.4  | 8617.1 | 8499.7 | 7939.4 | 7337.1 | 6825.5 | 6398.1 | 6218.7 |
| 5749.2  | 32.5° | 6154.5  | 6821.1  | 8510.8  | 8973.7 | 8471.0 | 7671.5 | 6976.1 | 6440.1 | 6063.7 | 5875.4 |
| 5795.7  | 35°   | 6322.8  | 7224.1  | 9150.8  | 9168.6 | 8278.3 | 7277.3 | 6499.9 | 5979.5 | 5651.7 | 5501.1 |
| 5851.0  | 37.5° | 6542.0  | 7735.7  | 9715.6  | 9217.3 | 7941.7 | 6699.3 | 5908.6 | 5434.7 | 5164.5 | 5095.9 |
| 5933.0  | 40°   | 6814.4  | 8351.4  | 10147.4 | 9139.8 | 7443.4 | 5997.2 | 5262.0 | 4883.3 | 4730.4 | 4745.9 |
| 6043.7  | 42.5° | 7168.8  | 9040.1  | 10450.8 | 8940.5 | 6750.2 | 5273.0 | 4695.0 | 4526.7 | 4599.8 | 4661.8 |
| 6209.8  | 45°   | 7629.4  | 9755.4  | 10639.1 | 8601.6 | 5966.2 | 4659.6 | 4360.6 | 4400.5 | 4455.8 | 4462.5 |
| 6477.8  | 47.5° | 8218.5  | 10479.6 | 10763.1 | 8090.0 | 5166.7 | 4227.7 | 4148.0 | 4156.9 | 4145.8 | 4099.3 |
| 6878.6  | 50°   | 8953.7  | 11183.9 | 10873.8 | 7412.4 | 4486.8 | 3957.5 | 3851.2 | 3820.2 | 3667.4 | 3516.8 |
| 7412.4  | 52.5° | 9790.9  | 11830.5 | 10920.3 | 6570.8 | 3957.5 | 3731.6 | 3558.9 | 3364.0 | 3078.3 | 3031.8 |
| 8083.4  | 55°   | 10721.0 | 12428.5 | 10800.7 | 5536.6 | 3512.4 | 3441.5 | 3180.2 | 2945.5 | 2914.5 | 2874.6 |
| 8967.0  | 57.5° | 11832.8 | 13073.0 | 10557.1 | 4382.8 | 3056.2 | 3102.7 | 2848.0 | 2874.6 | 2819.2 | 2757.2 |
| 10103.1 | 60°   | 13048.6 | 13739.6 | 10129.7 | 3330.8 | 2584.5 | 2679.7 | 2761.6 | 2759.4 | 2743.9 | 2693.0 |
| 11301.3 | 62.5° | 14142.6 | 14178.1 | 9288.2  | 2551.3 | 2170.3 | 2351.9 | 2575.6 | 2573.4 | 2560.1 | 2531.3 |
| 12552.5 | 65°   | 14793.7 | 14111.6 | 7884.1  | 2008.7 | 1829.3 | 2081.8 | 2323.1 | 2340.9 | 2343.1 | 2340.9 |
| 13493.7 | 67.5° | 14678.6 | 13334.3 | 5957.4  | 1599.0 | 1548.0 | 1807.1 | 2072.9 | 2097.3 | 2115.0 | 2119.4 |
| 13613.3 | 70°   | 13376.4 | 11626.8 | 3884.5  | 1275.6 | 1297.8 | 1565.7 | 1835.9 | 1860.3 | 1875.8 | 1893.5 |
| 11812.8 | 72.5° | 10426.5 | 8548.5  | 2223.5  | 1032.0 | 1078.5 | 1357.6 | 1601.2 | 1630.0 | 1638.8 | 1672.0 |
| 8220.7  | 75°   | 6353.8  | 5027.2  | 1200.3  | 812.8  | 885.9  | 1160.5 | 1368.6 | 1401.9 | 1417.4 | 1457.2 |
| 4037.3  | 77.5° | 3020.8  | 2177.0  | 684.3   | 633.4  | 713.1  | 947.9  | 1156.0 | 1193.7 | 1151.6 | 1173.8 |
| 1114.0  | 80°   | 1020.9  | 808.3   | 431.9   | 482.8  | 544.8  | 739.7  | 925.7  | 963.4  | 874.8  | 870.3  |
| 369.8   | 82.5° | 356.6   | 327.8   | 274.6   | 321.1  | 352.1  | 529.3  | 699.8  | 748.5  | 651.1  | 648.9  |
| 166.1   | 85°   | 139.5   | 132.9   | 152.8   | 175.0  | 210.4  | 325.6  | 460.6  | 485.0  | 400.8  | 323.3  |
| 48.7    | 87.5° | 28.8    | 31.0    | 37.6    | 39.9   | 64.2   | 112.9  | 166.1  | 203.7  | 161.7  | 137.3  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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180°  
4774.7  
4954.1  
5215.5  
5516.6  
5859.9  
6251.9  
6734.7  
7259.6  
7545.2  
7396.9  
6998.2  
6593.0  
6238.6  
5899.8  
5534.4  
5144.6  
4799.1  
4719.4  
4506.8  
4134.7  
3536.8  
3047.3  
2881.2  
2746.1  
2675.3  
2520.2  
2340.9  
2123.8  
1902.4  
1685.3  
1461.7  
1156.0  
861.5  
617.9  
318.9  
126.2  
0.0

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