

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: P948549

Luminaire Tested: **GALN-SB3C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16660 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

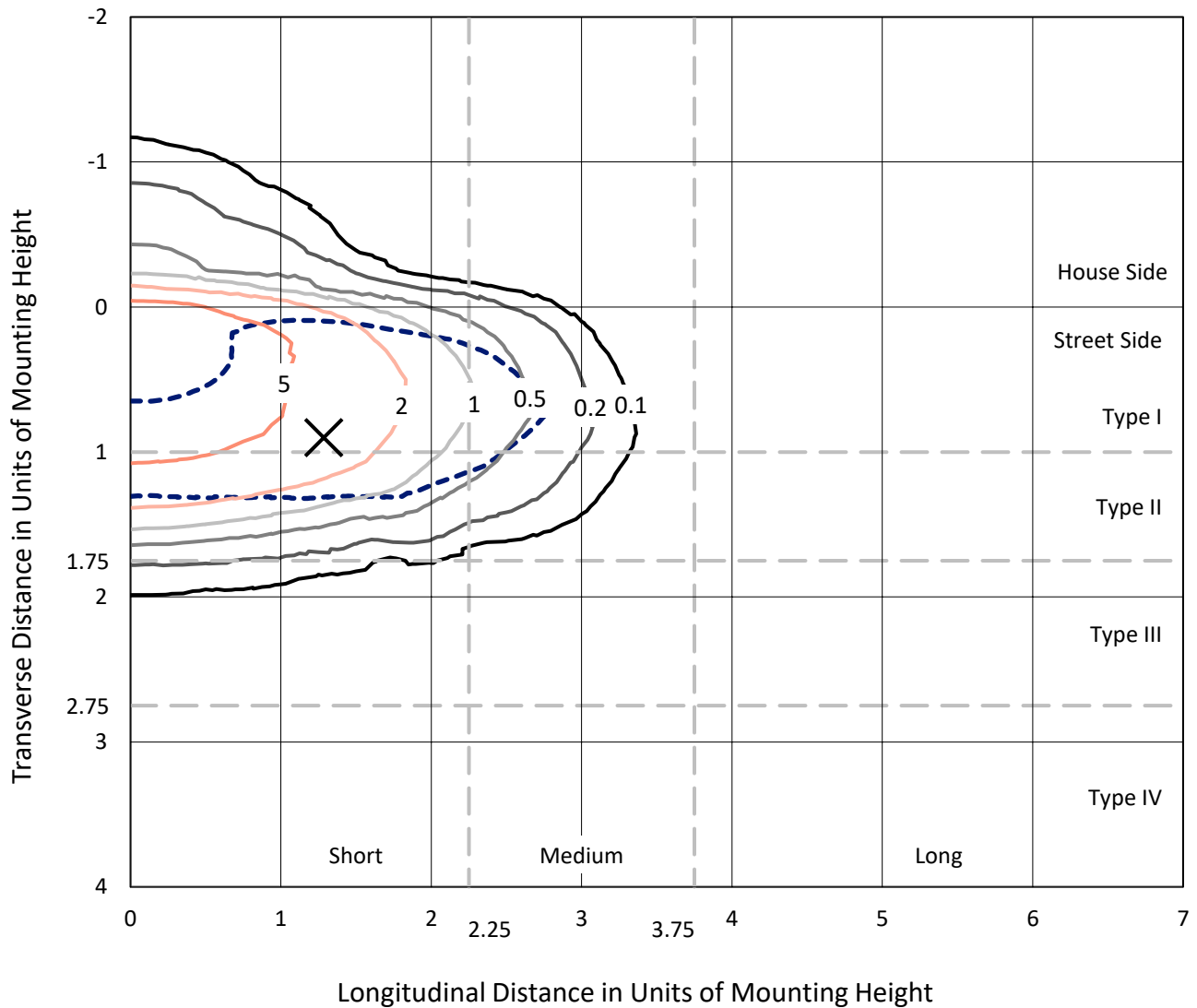
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

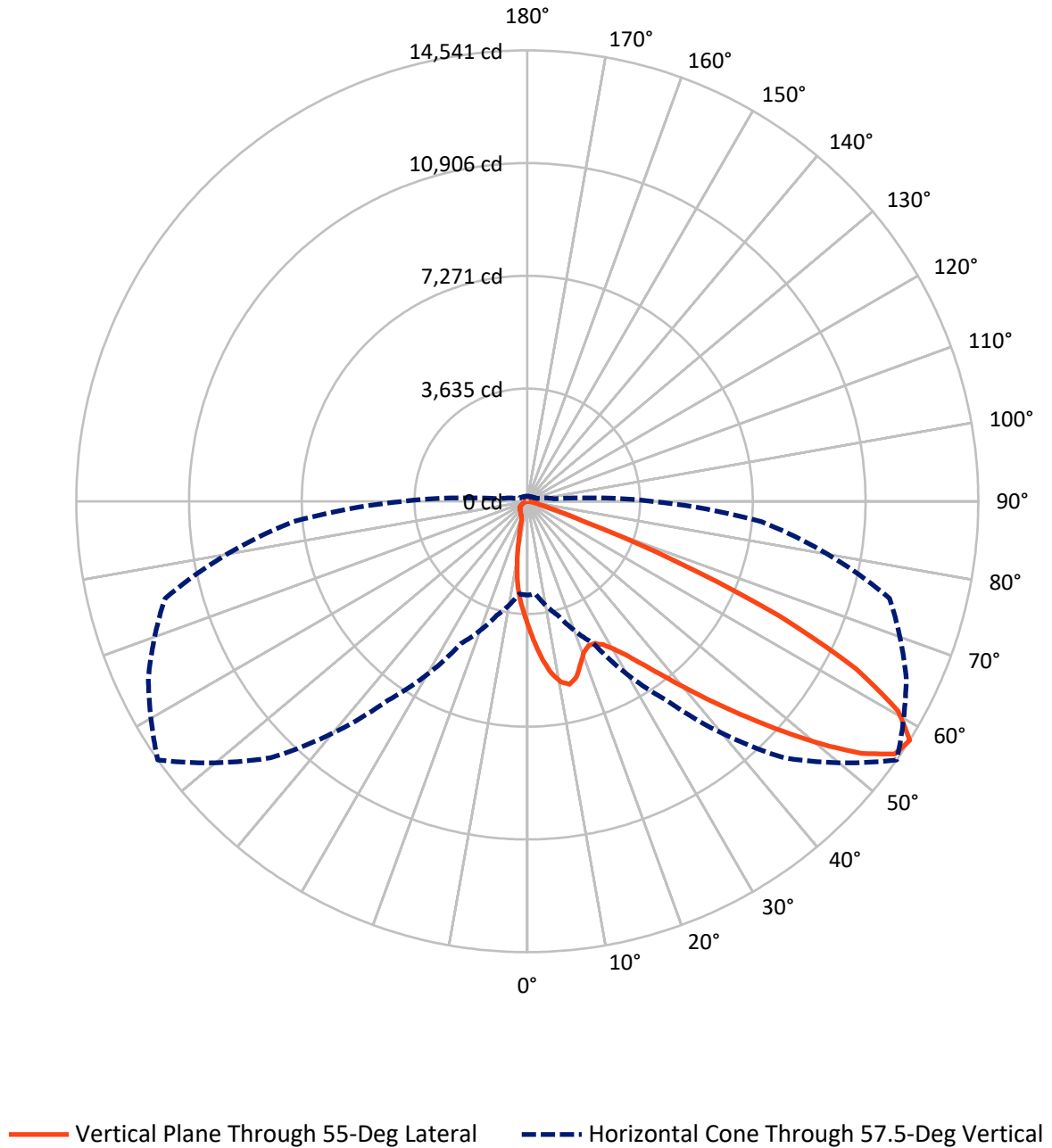
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1301.1 | 0.0 | 1301.1 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 15358.9 | 0.0 | 15358.9 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 16660.0 | 0.0 | 16660.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 373.5 | 2.2 |
| 10°-20° | 902.3 | 5.4 |
| 20°-30° | 1443.7 | 8.7 |
| 30°-40° | 2443.5 | 14.7 |
| 40°-50° | 4011.7 | 24.1 |
| 50°-60° | 4409.1 | 26.5 |
| 60°-70° | 2529.1 | 15.2 |
| 70°-80° | 516.8 | 3.1 |
| 80°-90° | 30.5 | 0.2 |
| 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° | 16660.0 | 100.0 |
| 0°-180° | 16660.0 | 100.0 |

Coefficient of Utilization



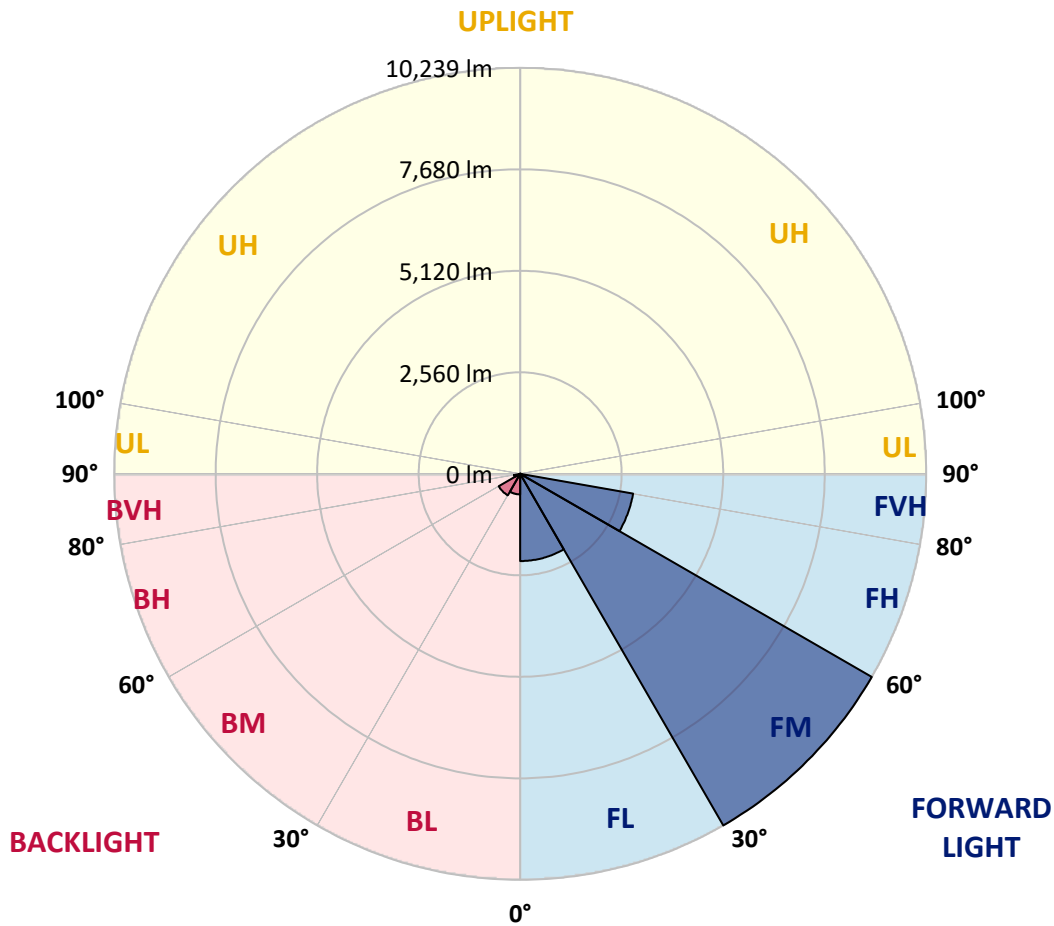
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2200.1 | 13.2 | | | |
| FM (30°-60°) | 10239.4 | 61.5 | | | |
| FH (60°-80°) | 2891.1 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 28.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 519.4 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 624.9 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 154.7 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 |
| 2.5° | 4981.3 | 4918.7 | 4909.4 | 4897.1 | 4777.9 | 4688.6 | 4559.1 | 4417.3 | 4258.1 | 4095.8 |
| 5° | 5754.9 | 5705.6 | 5696.3 | 5638.8 | 5503.2 | 5351.2 | 5121.0 | 4830.3 | 4533.4 | 4184.2 |
| 7.5° | 5904.9 | 5895.6 | 5937.7 | 5935.7 | 5917.2 | 5797.0 | 5602.8 | 5256.6 | 4810.8 | 4293.0 |
| 10° | 5236.1 | 5259.7 | 5385.1 | 5495.0 | 5791.9 | 5964.4 | 5922.3 | 5636.7 | 5096.4 | 4417.3 |
| 12.5° | 4626.9 | 4599.2 | 4688.6 | 4812.9 | 5158.0 | 5671.7 | 6054.8 | 5954.2 | 5423.1 | 4558.1 |
| 15° | 4244.8 | 4233.5 | 4283.8 | 4341.3 | 4604.3 | 5122.1 | 5900.8 | 6212.0 | 5737.4 | 4724.5 |
| 17.5° | 4122.5 | 4113.3 | 4128.7 | 4143.1 | 4313.6 | 4714.2 | 5534.0 | 6370.2 | 6038.4 | 4914.6 |
| 20° | 4222.2 | 4209.8 | 4207.8 | 4196.5 | 4267.4 | 4540.6 | 5202.2 | 6381.5 | 6308.6 | 5087.1 |
| 22.5° | 4512.9 | 4498.5 | 4448.2 | 4403.0 | 4409.1 | 4564.2 | 5054.3 | 6268.5 | 6512.0 | 5248.4 |
| 25° | 5039.9 | 5016.3 | 4911.5 | 4759.4 | 4662.9 | 4728.6 | 5076.9 | 6119.6 | 6706.1 | 5374.8 |
| 27.5° | 5699.4 | 5668.6 | 5534.0 | 5308.0 | 5087.1 | 5007.0 | 5240.2 | 6016.8 | 6867.4 | 5471.3 |
| 30° | 6345.6 | 6305.5 | 6173.0 | 5997.3 | 5674.8 | 5422.0 | 5535.0 | 6062.0 | 7059.5 | 5572.0 |
| 32.5° | 7043.1 | 7005.1 | 6829.4 | 6611.6 | 6344.5 | 6004.5 | 5938.8 | 6282.9 | 7294.8 | 5712.8 |
| 35° | 7925.5 | 7866.0 | 7616.3 | 7319.4 | 7035.9 | 6691.8 | 6485.3 | 6664.0 | 7608.1 | 5927.5 |
| 37.5° | 8930.2 | 8850.1 | 8581.0 | 8171.1 | 7801.2 | 7416.0 | 7151.0 | 7187.9 | 8067.3 | 6215.1 |
| 40° | 9877.4 | 9804.5 | 9555.9 | 9169.6 | 8705.3 | 8237.8 | 7955.3 | 7873.2 | 8701.1 | 6565.4 |
| 42.5° | 10445.5 | 10379.7 | 10275.0 | 10111.6 | 9720.2 | 9243.6 | 8887.1 | 8709.4 | 9451.1 | 6984.5 |
| 45° | 10477.3 | 10419.8 | 10560.5 | 10750.6 | 10673.5 | 10356.1 | 9921.6 | 9595.9 | 10204.1 | 7378.0 |
| 47.5° | 9967.8 | 9928.8 | 10356.1 | 11019.7 | 11350.5 | 11484.1 | 11083.4 | 10408.5 | 10825.6 | 7660.5 |
| 50° | 8578.9 | 8564.5 | 9443.9 | 10662.2 | 11608.4 | 12472.3 | 12309.0 | 11164.6 | 11307.4 | 7806.4 |
| 52.5° | 7438.6 | 7386.2 | 7898.8 | 9517.8 | 11233.4 | 12992.1 | 13506.8 | 11906.3 | 11644.3 | 7834.1 |
| 55° | 5641.9 | 5595.6 | 6238.7 | 7603.0 | 10024.3 | 12807.2 | 14383.1 | 12671.6 | 11885.7 | 7763.2 |
| 57.5° | 3026.4 | 2997.6 | 3810.2 | 5060.4 | 7836.2 | 11697.8 | 14541.3 | 13481.1 | 12089.1 | 7575.2 |
| 60° | 1178.3 | 1173.2 | 1477.2 | 2455.2 | 4762.5 | 9516.8 | 13743.1 | 13967.0 | 12216.5 | 7344.1 |
| 62.5° | 712.9 | 728.3 | 777.7 | 1102.3 | 2103.9 | 5912.1 | 11903.2 | 13414.4 | 12301.8 | 7132.5 |
| 65° | 589.7 | 590.7 | 596.9 | 757.1 | 1007.8 | 2473.7 | 8961.1 | 11596.0 | 12091.2 | 6755.5 |
| 67.5° | 505.4 | 514.7 | 538.3 | 601.0 | 710.9 | 1084.8 | 5159.1 | 8982.6 | 10810.2 | 5878.2 |
| 70° | 398.6 | 410.9 | 440.7 | 494.1 | 548.6 | 679.0 | 1906.7 | 5976.8 | 8258.4 | 4430.7 |
| 72.5° | 335.9 | 334.9 | 350.3 | 401.7 | 435.6 | 477.7 | 733.5 | 3349.0 | 4799.5 | 2115.2 |
| 75° | 259.9 | 270.2 | 289.7 | 335.9 | 356.5 | 346.2 | 397.6 | 1223.5 | 1719.7 | 641.0 |
| 77.5° | 203.4 | 211.6 | 229.1 | 274.3 | 294.8 | 245.5 | 229.1 | 437.6 | 552.7 | 230.1 |
| 80° | 91.4 | 98.6 | 156.1 | 202.4 | 240.4 | 169.5 | 124.3 | 223.9 | 245.5 | 104.8 |
| 82.5° | 16.4 | 27.7 | 91.4 | 106.8 | 123.3 | 109.9 | 64.7 | 116.1 | 120.2 | 42.1 |
| 85° | 1.0 | 2.1 | 31.8 | 39.0 | 49.3 | 36.0 | 19.5 | 46.2 | 40.1 | 14.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 5.1 | 6.2 | 8.2 | 6.2 | 5.1 |
| 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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CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4014.6 | 0° | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 | 4014.6 |
| 4023.9 | 2.5° | 3949.9 | 3804.1 | 3662.3 | 3546.2 | 3478.4 | 3363.3 | 3287.3 | 3275.0 | 3243.2 | 3270.9 |
| 4034.2 | 5° | 3873.9 | 3613.0 | 3349.0 | 3112.7 | 2918.5 | 2667.9 | 2480.9 | 2401.8 | 2333.0 | 2356.6 |
| 4060.9 | 7.5° | 3838.0 | 3426.0 | 3015.1 | 2611.4 | 2196.3 | 1795.7 | 1497.8 | 1373.5 | 1279.0 | 1292.3 |
| 4090.7 | 10° | 3789.7 | 3231.9 | 2587.7 | 1971.4 | 1415.6 | 1020.1 | 814.6 | 738.6 | 696.5 | 697.5 |
| 4134.8 | 12.5° | 3752.7 | 2999.7 | 2091.6 | 1336.5 | 861.9 | 651.3 | 587.6 | 569.1 | 556.8 | 557.8 |
| 4201.6 | 15° | 3734.2 | 2726.4 | 1601.5 | 890.7 | 616.4 | 551.7 | 536.2 | 528.0 | 519.8 | 518.8 |
| 4275.6 | 17.5° | 3703.4 | 2422.3 | 1172.1 | 650.3 | 539.3 | 516.7 | 503.4 | 494.1 | 483.9 | 481.8 |
| 4339.3 | 20° | 3657.2 | 2077.2 | 856.8 | 549.6 | 505.4 | 488.0 | 469.5 | 457.1 | 444.8 | 442.8 |
| 4379.3 | 22.5° | 3571.9 | 1712.5 | 658.5 | 508.5 | 480.8 | 461.3 | 438.7 | 424.3 | 411.9 | 409.9 |
| 4359.8 | 25° | 3413.7 | 1370.4 | 554.7 | 482.8 | 459.2 | 435.6 | 410.9 | 391.4 | 380.1 | 378.0 |
| 4317.7 | 27.5° | 3213.4 | 1076.6 | 503.4 | 459.2 | 431.5 | 409.9 | 382.2 | 363.7 | 353.4 | 351.3 |
| 4262.2 | 30° | 2977.1 | 829.0 | 473.6 | 432.5 | 398.6 | 380.1 | 355.4 | 340.0 | 333.9 | 333.9 |
| 4223.2 | 32.5° | 2722.3 | 662.6 | 461.3 | 405.8 | 369.8 | 349.3 | 329.8 | 323.6 | 321.5 | 320.5 |
| 4244.8 | 35° | 2483.0 | 575.3 | 455.1 | 384.2 | 344.1 | 324.6 | 316.4 | 317.4 | 321.5 | 321.5 |
| 4311.5 | 37.5° | 2270.3 | 547.5 | 452.0 | 368.8 | 321.5 | 304.1 | 309.2 | 318.5 | 314.4 | 314.4 |
| 4428.6 | 40° | 2078.2 | 550.6 | 450.0 | 357.5 | 303.1 | 292.8 | 303.1 | 295.9 | 285.6 | 284.6 |
| 4571.4 | 42.5° | 1931.3 | 576.3 | 445.8 | 348.3 | 291.8 | 284.6 | 280.5 | 269.1 | 268.1 | 270.2 |
| 4719.4 | 45° | 1824.5 | 598.9 | 444.8 | 344.1 | 279.4 | 266.1 | 260.9 | 249.6 | 270.2 | 275.3 |
| 4780.0 | 47.5° | 1698.1 | 598.9 | 444.8 | 329.8 | 258.9 | 253.7 | 245.5 | 233.2 | 253.7 | 258.9 |
| 4722.5 | 50° | 1534.8 | 560.9 | 427.4 | 313.3 | 242.4 | 239.4 | 225.0 | 209.6 | 205.5 | 208.5 |
| 4587.9 | 52.5° | 1328.3 | 492.1 | 383.2 | 290.7 | 226.0 | 219.8 | 202.4 | 191.1 | 188.0 | 188.0 |
| 4346.5 | 55° | 1093.0 | 411.9 | 323.6 | 257.8 | 208.5 | 197.2 | 184.9 | 179.8 | 176.7 | 174.6 |
| 4008.5 | 57.5° | 888.6 | 338.0 | 259.9 | 229.1 | 192.1 | 177.7 | 173.6 | 167.4 | 162.3 | 159.2 |
| 3726.0 | 60° | 729.4 | 266.1 | 214.7 | 203.4 | 175.7 | 162.3 | 161.3 | 153.1 | 139.7 | 137.7 |
| 3492.8 | 62.5° | 563.0 | 195.2 | 180.8 | 176.7 | 159.2 | 147.9 | 145.9 | 129.4 | 108.9 | 104.8 |
| 3162.0 | 65° | 397.6 | 152.0 | 145.9 | 155.1 | 141.8 | 131.5 | 126.4 | 101.7 | 80.1 | 77.0 |
| 2646.3 | 67.5° | 279.4 | 127.4 | 115.1 | 135.6 | 123.3 | 109.9 | 106.8 | 86.3 | 66.8 | 64.7 |
| 2001.2 | 70° | 199.3 | 103.8 | 94.5 | 116.1 | 98.6 | 96.6 | 90.4 | 71.9 | 54.4 | 52.4 |
| 990.3 | 72.5° | 140.7 | 79.1 | 72.9 | 100.7 | 67.8 | 83.2 | 74.0 | 55.5 | 41.1 | 39.0 |
| 337.0 | 75° | 103.8 | 56.5 | 51.4 | 58.6 | 49.3 | 62.7 | 52.4 | 37.0 | 25.7 | 24.7 |
| 152.0 | 77.5° | 76.0 | 36.0 | 30.8 | 28.8 | 28.8 | 39.0 | 28.8 | 15.4 | 11.3 | 10.3 |
| 77.0 | 80° | 53.4 | 16.4 | 14.4 | 12.3 | 11.3 | 9.2 | 4.1 | 2.1 | 1.0 | 1.0 |
| 26.7 | 82.5° | 31.8 | 7.2 | 7.2 | 5.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10.3 | 85° | 7.2 | 3.1 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4.1 | 87.5° | 1.0 | 1.0 | 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 |

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