

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: P269183

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T2R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13289.2 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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: 25 FT

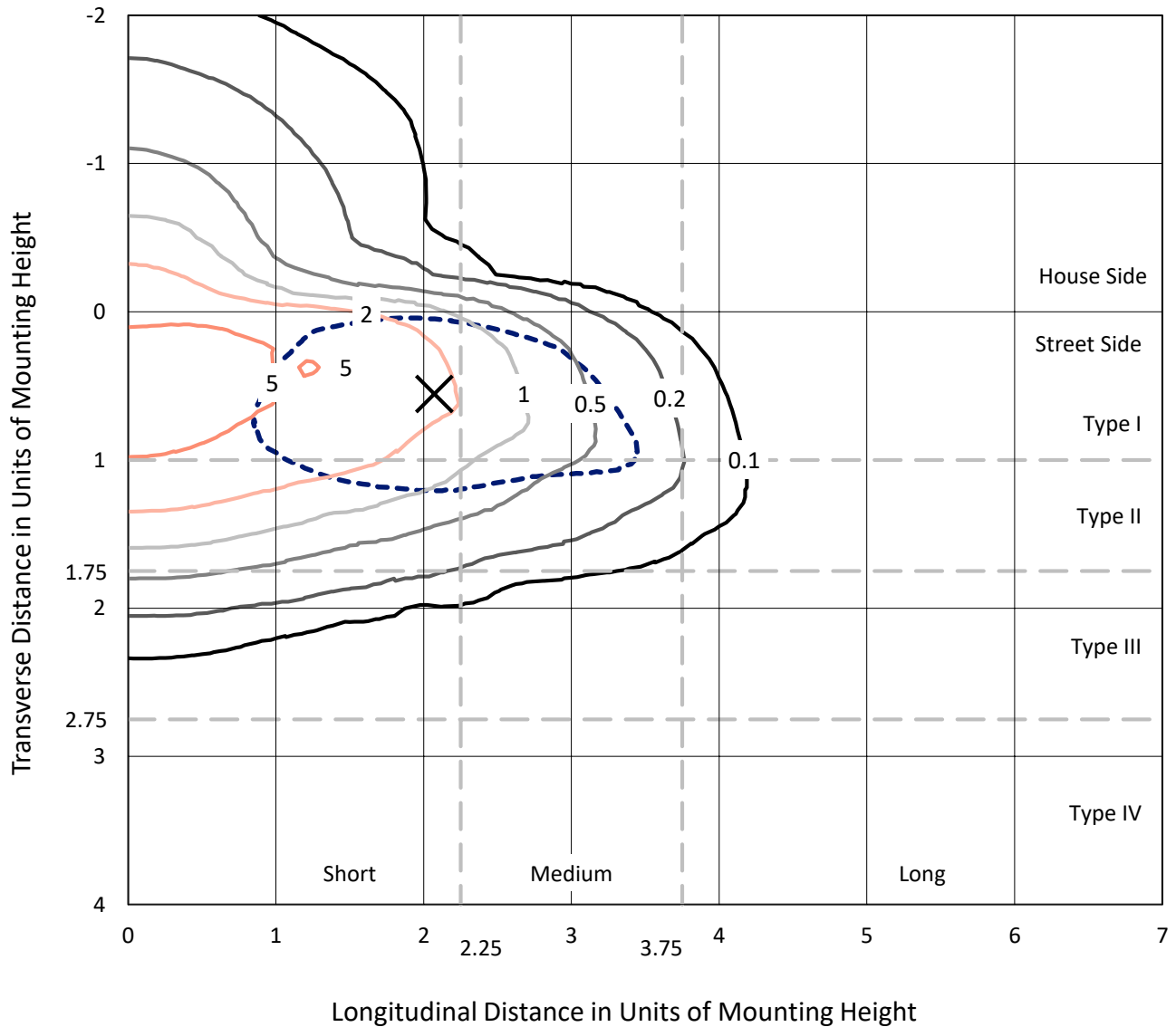


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Iso-Footcandle Lines of Horizontal Illumination

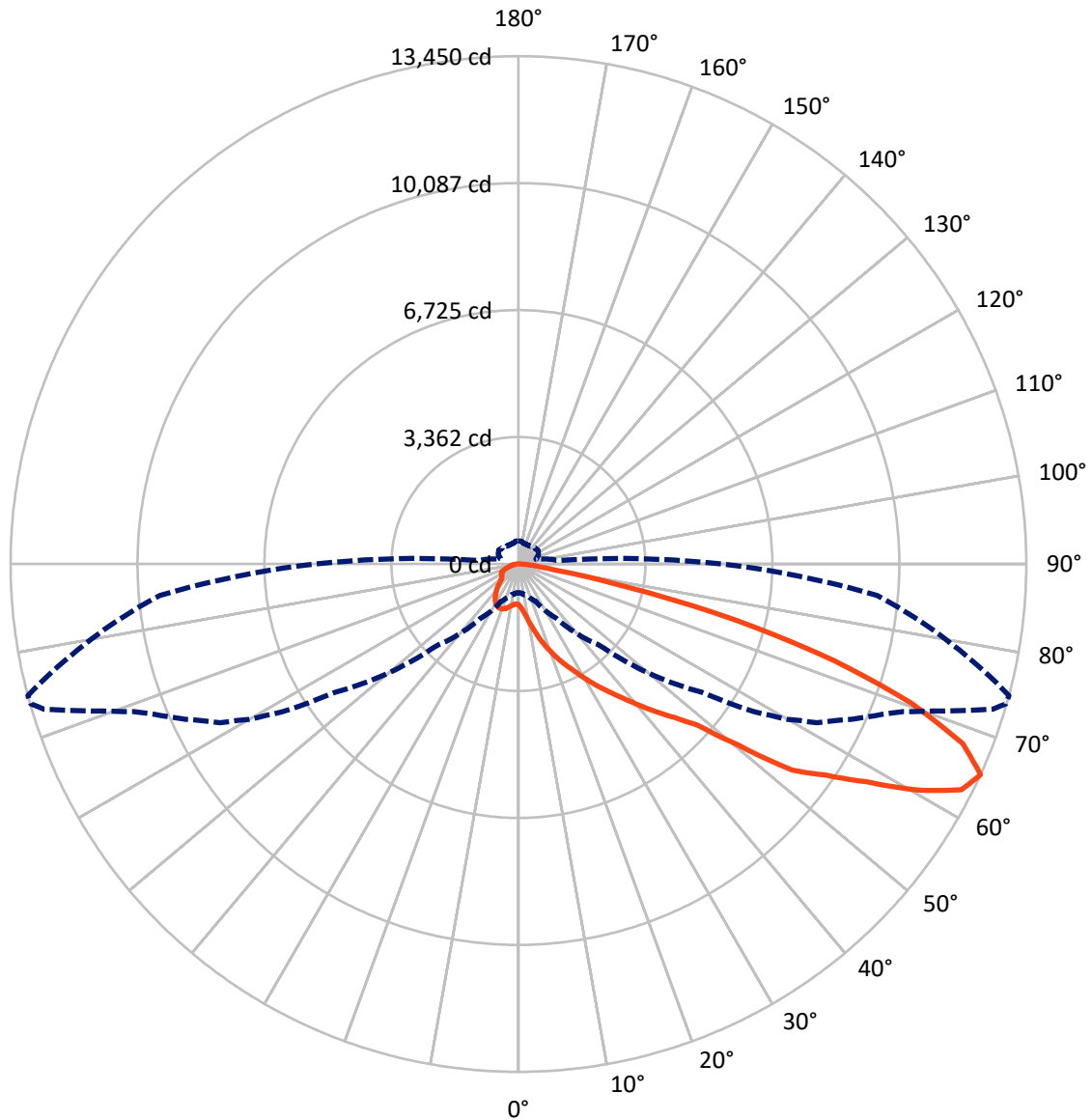
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2048.9 | 0.0 | 2048.9 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 11240.4 | 0.0 | 11240.4 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 13289.2 | 0.0 | 13289.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 133.5 | 1.0 |
| 10°-20° | 521.6 | 3.9 |
| 20°-30° | 1070.1 | 8.1 |
| 30°-40° | 1800.4 | 13.5 |
| 40°-50° | 2487.7 | 18.7 |
| 50°-60° | 3105.4 | 23.4 |
| 60°-70° | 2794.5 | 21.0 |
| 70°-80° | 1171.4 | 8.8 |
| 80°-90° | 204.6 | 1.5 |
| 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° | 13289.2 | 100.0 |
| 0°-180° | 13289.2 | 100.0 |

Coefficient of Utilization



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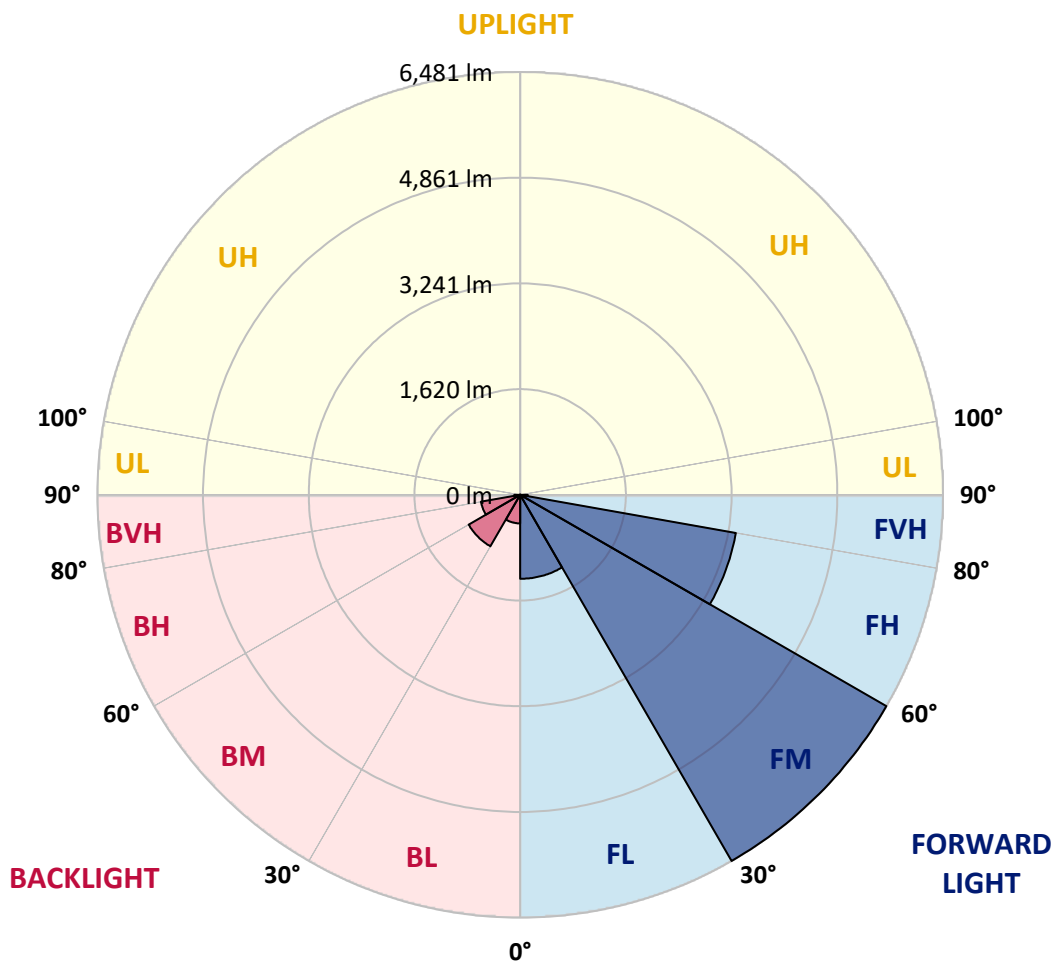
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1287.0 | 9.7 | | | |
| FM | (30°-60°) | 6481.5 | 48.8 | | | |
| FH | (60°-80°) | 3356.8 | 25.3 | | | G2/5000 |
| FVH | (80°-90°) | 115.0 | 0.9 | | | G2/225 |
| BL | (0°-30°) | 438.2 | 3.3 | B1/500 | | |
| BM | (30°-60°) | 912.0 | 6.9 | B1/1000 | | |
| BH | (60°-80°) | 609.1 | 4.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 89.6 | 0.7 | | | G1/100 |
| 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° | 56° | 57° | 58° | 59° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 |
| 2.5° | 1371.3 | 1356.1 | 1359.9 | 1334.7 | 1303.9 | 1263.6 | 1219.0 | 1218.5 | 1219.0 | 1214.6 | 1198.2 |
| 5° | 1901.5 | 1883.2 | 1876.3 | 1819.7 | 1736.8 | 1618.4 | 1490.1 | 1476.3 | 1470.6 | 1456.2 | 1422.8 |
| 7.5° | 2288.3 | 2278.3 | 2267.6 | 2224.8 | 2149.4 | 2017.2 | 1844.8 | 1815.4 | 1787.0 | 1780.1 | 1742.4 |
| 10° | 2538.0 | 2535.6 | 2512.9 | 2501.6 | 2454.3 | 2339.9 | 2171.9 | 2143.6 | 2112.9 | 2102.2 | 2062.5 |
| 12.5° | 2735.6 | 2734.9 | 2724.2 | 2727.3 | 2686.6 | 2603.5 | 2458.8 | 2433.0 | 2410.3 | 2377.6 | 2349.3 |
| 15° | 2872.1 | 2872.7 | 2888.4 | 2905.9 | 2899.6 | 2843.8 | 2707.9 | 2696.5 | 2677.0 | 2654.4 | 2621.1 |
| 17.5° | 2984.0 | 2987.1 | 3003.6 | 3035.6 | 3070.1 | 3065.7 | 2958.2 | 2948.7 | 2931.8 | 2900.9 | 2883.4 |
| 20° | 3236.9 | 3248.8 | 3217.4 | 3217.4 | 3221.1 | 3238.1 | 3186.6 | 3179.0 | 3155.0 | 3138.8 | 3124.9 |
| 22.5° | 3663.9 | 3677.8 | 3606.8 | 3534.4 | 3463.3 | 3411.8 | 3360.2 | 3369.6 | 3353.3 | 3342.0 | 3333.7 |
| 25° | 4218.8 | 4229.4 | 4114.3 | 3992.2 | 3847.6 | 3658.9 | 3531.2 | 3525.6 | 3516.8 | 3509.9 | 3506.1 |
| 27.5° | 4740.9 | 4745.2 | 4636.4 | 4457.7 | 4289.9 | 4018.7 | 3704.9 | 3698.0 | 3687.3 | 3674.1 | 3662.7 |
| 30° | 5187.4 | 5186.2 | 5074.2 | 4903.8 | 4723.8 | 4423.9 | 3968.4 | 3947.1 | 3915.6 | 3879.7 | 3852.0 |
| 32.5° | 5574.3 | 5572.4 | 5449.7 | 5273.1 | 5084.2 | 4825.2 | 4329.4 | 4285.5 | 4236.3 | 4166.6 | 4124.4 |
| 35° | 5878.7 | 5877.4 | 5761.6 | 5577.3 | 5361.1 | 5203.2 | 4743.3 | 4689.2 | 4627.0 | 4533.2 | 4468.4 |
| 37.5° | 5993.9 | 5993.9 | 5929.1 | 5803.2 | 5612.0 | 5503.8 | 5203.2 | 5137.8 | 5071.0 | 4964.8 | 4891.8 |
| 40° | 5926.5 | 5927.7 | 5941.6 | 5918.4 | 5825.2 | 5742.2 | 5632.2 | 5593.1 | 5535.9 | 5440.2 | 5364.1 |
| 42.5° | 5700.7 | 5707.7 | 5799.5 | 5912.0 | 5958.5 | 5945.4 | 6012.6 | 5995.1 | 5954.9 | 5881.3 | 5820.8 |
| 45° | 5414.5 | 5435.9 | 5536.6 | 5749.2 | 5995.6 | 6121.0 | 6331.7 | 6333.5 | 6326.0 | 6286.2 | 6239.7 |
| 47.5° | 5021.3 | 5051.6 | 5184.3 | 5471.8 | 5909.0 | 6291.3 | 6655.5 | 6672.5 | 6688.2 | 6662.5 | 6641.1 |
| 50° | 4499.3 | 4535.2 | 4733.9 | 5115.0 | 5732.2 | 6468.1 | 7267.6 | 7344.4 | 7416.0 | 7407.2 | 7421.6 |
| 52.5° | 3940.1 | 3982.2 | 4225.6 | 4650.3 | 5428.4 | 6508.9 | 7658.8 | 7784.0 | 7909.1 | 8011.7 | 8120.5 |
| 55° | 3435.7 | 3413.0 | 3656.5 | 4103.6 | 4928.9 | 6324.6 | 8010.5 | 8161.5 | 8301.0 | 8426.8 | 8556.4 |
| 57.5° | 2751.9 | 2789.0 | 3033.0 | 3475.3 | 4267.8 | 5804.5 | 8252.5 | 8473.4 | 8674.0 | 8882.3 | 9065.9 |
| 60° | 2011.6 | 2048.7 | 2313.4 | 2762.6 | 3550.1 | 5015.6 | 8067.7 | 8402.2 | 8723.7 | 9042.6 | 9291.7 |
| 62.5° | 1214.6 | 1242.3 | 1475.6 | 1903.4 | 2737.4 | 4080.5 | 7243.7 | 7682.8 | 8155.7 | 8537.0 | 8918.7 |
| 65° | 756.1 | 771.9 | 858.1 | 1093.1 | 1758.1 | 3046.3 | 5918.4 | 6397.0 | 6906.4 | 7390.3 | 7787.0 |
| 67.5° | 618.9 | 624.6 | 640.3 | 690.6 | 965.5 | 1986.4 | 4405.0 | 4828.8 | 5288.7 | 5756.7 | 6198.2 |
| 70° | 556.7 | 552.8 | 552.8 | 556.1 | 618.9 | 1068.1 | 2884.0 | 3160.1 | 3543.3 | 3950.1 | 4353.9 |
| 72.5° | 502.6 | 498.7 | 491.9 | 482.5 | 505.0 | 651.6 | 1490.7 | 1699.0 | 1975.2 | 2336.9 | 2723.7 |
| 75° | 451.6 | 446.5 | 438.5 | 426.4 | 442.1 | 491.9 | 715.8 | 803.3 | 937.8 | 1130.3 | 1346.1 |
| 77.5° | 398.8 | 392.5 | 385.0 | 376.1 | 396.3 | 382.5 | 419.6 | 450.9 | 502.6 | 564.2 | 645.3 |
| 80° | 339.0 | 333.5 | 330.8 | 326.4 | 350.3 | 291.2 | 296.4 | 315.8 | 345.9 | 379.3 | 417.1 |
| 82.5° | 265.4 | 265.4 | 275.5 | 277.3 | 303.7 | 209.5 | 221.4 | 238.4 | 254.1 | 271.7 | 289.3 |
| 85° | 174.9 | 176.1 | 210.2 | 223.3 | 239.7 | 140.9 | 166.0 | 171.8 | 184.3 | 194.4 | 201.8 |
| 87.5° | 54.7 | 59.1 | 128.3 | 142.1 | 137.8 | 79.9 | 101.9 | 104.5 | 113.2 | 120.2 | 126.4 |
| 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):

| | 60° | 61° | 62° | 63° | 64° | 65° | 66° | 67° | 68° | 69° | 70° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 |
| 2.5° | 1198.2 | 1190.8 | 1183.7 | 1183.2 | 1178.1 | 1171.2 | 1173.7 | 1163.0 | 1163.7 | 1158.0 | 1151.6 |
| 5° | 1409.0 | 1404.0 | 1378.8 | 1371.9 | 1352.9 | 1341.0 | 1339.2 | 1314.0 | 1310.8 | 1296.3 | 1280.7 |
| 7.5° | 1712.2 | 1695.8 | 1660.5 | 1643.5 | 1611.5 | 1587.7 | 1576.3 | 1543.0 | 1526.6 | 1488.9 | 1471.9 |
| 10° | 2029.8 | 2009.1 | 1965.6 | 1941.7 | 1911.0 | 1872.5 | 1851.8 | 1803.3 | 1784.6 | 1749.9 | 1708.3 |
| 12.5° | 2324.2 | 2303.4 | 2258.8 | 2240.6 | 2199.6 | 2158.7 | 2136.1 | 2081.5 | 2056.8 | 2001.6 | 1968.7 |
| 15° | 2596.6 | 2575.8 | 2536.9 | 2517.9 | 2477.0 | 2443.7 | 2413.4 | 2359.4 | 2330.5 | 2278.9 | 2236.2 |
| 17.5° | 2860.7 | 2838.7 | 2804.8 | 2787.8 | 2748.2 | 2714.1 | 2681.5 | 2630.4 | 2601.0 | 2549.4 | 2511.0 |
| 20° | 3106.0 | 3089.7 | 3065.1 | 3042.5 | 3002.9 | 2972.0 | 2933.1 | 2888.9 | 2846.3 | 2808.6 | 2772.0 |
| 22.5° | 3319.9 | 3313.6 | 3287.2 | 3277.1 | 3243.2 | 3216.7 | 3182.8 | 3139.3 | 3108.6 | 3060.7 | 3026.7 |
| 25° | 3504.2 | 3502.3 | 3489.7 | 3486.6 | 3462.6 | 3437.5 | 3430.0 | 3394.2 | 3365.8 | 3323.6 | 3288.4 |
| 27.5° | 3662.7 | 3664.5 | 3661.4 | 3670.2 | 3663.9 | 3652.7 | 3653.2 | 3641.3 | 3625.0 | 3589.7 | 3558.9 |
| 30° | 3838.8 | 3828.8 | 3834.4 | 3847.0 | 3850.8 | 3852.0 | 3872.9 | 3879.7 | 3878.4 | 3855.2 | 3840.1 |
| 32.5° | 4087.9 | 4064.0 | 4042.1 | 4040.0 | 4052.8 | 4057.7 | 4092.9 | 4111.3 | 4127.0 | 4132.7 | 4135.1 |
| 35° | 4405.6 | 4357.8 | 4311.9 | 4287.3 | 4266.0 | 4271.6 | 4296.8 | 4326.2 | 4360.9 | 4384.7 | 4413.2 |
| 37.5° | 4805.7 | 4747.2 | 4665.9 | 4608.1 | 4593.7 | 4562.2 | 4578.5 | 4601.7 | 4635.9 | 4673.0 | 4722.0 |
| 40° | 5290.6 | 5201.8 | 5110.6 | 5033.9 | 4992.4 | 4934.6 | 4933.9 | 4929.4 | 4950.3 | 4984.9 | 5054.0 |
| 42.5° | 5757.2 | 5678.6 | 5581.8 | 5501.3 | 5447.2 | 5369.9 | 5354.1 | 5313.3 | 5322.6 | 5352.9 | 5420.2 |
| 45° | 6194.4 | 6129.7 | 6070.6 | 5977.4 | 5931.6 | 5847.8 | 5821.5 | 5773.0 | 5746.0 | 5759.8 | 5827.1 |
| 47.5° | 6617.9 | 6576.3 | 6514.7 | 6454.2 | 6419.0 | 6344.2 | 6310.2 | 6275.6 | 6241.1 | 6239.7 | 6310.2 |
| 50° | 7443.0 | 7421.1 | 7348.0 | 7285.2 | 7302.1 | 7210.3 | 7215.9 | 7122.9 | 7165.1 | 7170.0 | 7318.0 |
| 52.5° | 8218.7 | 8295.4 | 8349.4 | 8415.5 | 8458.4 | 8466.4 | 8494.7 | 8537.0 | 8587.8 | 8688.4 | 8825.6 |
| 55° | 8662.6 | 8759.0 | 8814.9 | 8865.3 | 8948.2 | 8965.9 | 9013.1 | 9069.0 | 9113.8 | 9226.9 | 9343.4 |
| 57.5° | 9190.4 | 9369.1 | 9455.9 | 9535.8 | 9647.7 | 9690.5 | 9769.1 | 9830.2 | 9888.1 | 10022.0 | 10162.9 |
| 60° | 9515.7 | 9733.2 | 9910.0 | 10036.5 | 10176.7 | 10277.4 | 10396.3 | 10491.8 | 10627.7 | 10788.1 | 10998.2 |
| 62.5° | 9257.2 | 9576.7 | 9811.3 | 10028.3 | 10218.8 | 10411.4 | 10581.9 | 10760.4 | 10966.8 | 11209.6 | 11535.3 |
| 65° | 8227.4 | 8552.7 | 8954.6 | 9179.7 | 9431.9 | 9728.9 | 9988.1 | 10277.4 | 10558.5 | 10912.0 | 11393.8 |
| 67.5° | 6623.5 | 7001.5 | 7453.1 | 7680.1 | 7970.1 | 8301.6 | 8592.3 | 8945.7 | 9274.1 | 9702.5 | 10298.1 |
| 70° | 4774.1 | 5262.9 | 5642.9 | 5879.9 | 6218.3 | 6560.0 | 6840.5 | 7251.8 | 7523.6 | 7962.5 | 8578.5 |
| 72.5° | 3022.9 | 3408.6 | 3874.1 | 4172.8 | 4473.5 | 4819.4 | 5106.2 | 5461.1 | 5714.6 | 6114.7 | 6672.5 |
| 75° | 1625.4 | 1909.6 | 2318.5 | 2602.2 | 2924.3 | 3219.9 | 3555.9 | 3793.5 | 3981.0 | 4297.4 | 4750.2 |
| 77.5° | 761.8 | 934.6 | 1141.7 | 1359.9 | 1578.2 | 1806.0 | 2027.3 | 2219.8 | 2300.3 | 2481.5 | 2748.8 |
| 80° | 462.3 | 518.3 | 578.7 | 646.1 | 737.1 | 810.8 | 908.2 | 978.8 | 983.7 | 1041.0 | 1122.8 |
| 82.5° | 308.8 | 329.6 | 347.9 | 364.8 | 388.1 | 406.4 | 427.1 | 451.6 | 461.6 | 474.9 | 501.3 |
| 85° | 210.7 | 220.8 | 224.5 | 235.3 | 232.8 | 238.9 | 247.3 | 255.4 | 259.8 | 259.2 | 271.1 |
| 87.5° | 129.5 | 134.6 | 137.1 | 139.6 | 137.8 | 135.3 | 139.0 | 143.4 | 144.6 | 140.9 | 142.1 |
| 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):

| | 71° | 72° | 73° | 74° | 75° | 85° | 90° | 95° | 105° | 115° | 125° |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 |
| 2.5° | 1153.0 | 1147.3 | 1141.7 | 1137.9 | 1136.6 | 1103.3 | 1088.8 | 1079.4 | 1059.2 | 1042.9 | 1029.6 |
| 5° | 1271.9 | 1260.0 | 1250.5 | 1239.1 | 1232.8 | 1148.6 | 1117.8 | 1096.3 | 1061.2 | 1040.3 | 1021.6 |
| 7.5° | 1463.1 | 1429.7 | 1410.2 | 1388.2 | 1369.3 | 1217.2 | 1166.2 | 1132.9 | 1083.7 | 1056.0 | 1034.7 |
| 10° | 1680.1 | 1645.4 | 1614.7 | 1580.7 | 1551.2 | 1308.3 | 1234.1 | 1182.4 | 1117.8 | 1081.9 | 1053.6 |
| 12.5° | 1922.3 | 1888.2 | 1849.3 | 1806.0 | 1768.1 | 1424.1 | 1320.9 | 1247.3 | 1158.6 | 1110.8 | 1071.1 |
| 15° | 2208.5 | 2148.7 | 2101.6 | 2051.2 | 2007.2 | 1562.4 | 1422.1 | 1320.2 | 1202.0 | 1137.3 | 1084.4 |
| 17.5° | 2474.6 | 2411.6 | 2347.5 | 2303.4 | 2252.5 | 1717.7 | 1524.1 | 1394.4 | 1237.9 | 1154.2 | 1086.9 |
| 20° | 2734.4 | 2665.7 | 2610.4 | 2551.2 | 2497.7 | 1878.8 | 1632.8 | 1459.9 | 1261.2 | 1154.9 | 1071.1 |
| 22.5° | 2963.2 | 2920.5 | 2858.9 | 2794.6 | 2740.5 | 2040.0 | 1734.7 | 1515.4 | 1269.9 | 1140.4 | 1043.6 |
| 25° | 3223.7 | 3178.4 | 3102.8 | 3048.8 | 2988.4 | 2204.0 | 1834.8 | 1558.0 | 1265.0 | 1113.4 | 1000.7 |
| 27.5° | 3501.8 | 3451.4 | 3374.0 | 3317.4 | 3244.4 | 2374.5 | 1926.7 | 1588.9 | 1246.0 | 1069.3 | 943.5 |
| 30° | 3791.7 | 3745.8 | 3669.7 | 3612.4 | 3538.9 | 2555.0 | 2029.2 | 1609.7 | 1208.3 | 1008.3 | 876.8 |
| 32.5° | 4103.0 | 4064.7 | 3989.2 | 3929.5 | 3850.8 | 2750.7 | 2124.9 | 1616.0 | 1151.1 | 935.9 | 806.4 |
| 35° | 4398.6 | 4372.2 | 4308.7 | 4252.8 | 4170.9 | 2935.7 | 2226.1 | 1612.7 | 1083.1 | 856.8 | 742.2 |
| 37.5° | 4731.5 | 4715.7 | 4684.2 | 4613.2 | 4513.2 | 3186.6 | 2347.5 | 1599.5 | 1000.2 | 778.1 | 693.1 |
| 40° | 5086.2 | 5087.5 | 5053.4 | 5004.9 | 4911.9 | 3491.1 | 2492.2 | 1573.8 | 909.5 | 708.9 | 648.4 |
| 42.5° | 5461.6 | 5481.2 | 5464.7 | 5430.3 | 5341.0 | 3797.9 | 2665.1 | 1542.3 | 821.5 | 641.6 | 604.5 |
| 45° | 5892.0 | 5915.8 | 5941.0 | 5890.0 | 5803.2 | 4203.0 | 2892.8 | 1501.4 | 726.5 | 585.6 | 574.2 |
| 47.5° | 6388.1 | 6425.9 | 6448.7 | 6449.2 | 6362.4 | 4705.1 | 3262.6 | 1477.0 | 642.2 | 547.8 | 559.9 |
| 50° | 7435.5 | 7447.5 | 7500.8 | 7594.0 | 7527.3 | 5866.7 | 3908.6 | 1461.8 | 584.9 | 524.6 | 549.1 |
| 52.5° | 8944.6 | 9075.9 | 9168.5 | 9162.2 | 9071.5 | 6604.6 | 4264.7 | 1383.7 | 551.0 | 515.7 | 544.2 |
| 55° | 9559.0 | 9723.3 | 9894.3 | 9939.6 | 9869.0 | 7234.2 | 4601.2 | 1305.9 | 534.6 | 522.0 | 546.0 |
| 57.5° | 10377.9 | 10654.7 | 10889.3 | 10988.2 | 10886.2 | 8040.0 | 5044.1 | 1265.0 | 529.6 | 539.1 | 557.9 |
| 60° | 11334.8 | 11676.9 | 11985.1 | 12162.5 | 12162.5 | 8965.9 | 5503.1 | 1247.9 | 522.8 | 564.2 | 578.1 |
| 62.5° | 11949.3 | 12451.9 | 12917.3 | 13177.1 | 13169.5 | 9610.5 | 5707.0 | 1190.1 | 507.0 | 581.8 | 605.7 |
| 65° | 11951.8 | 12549.3 | 13142.6 | 13434.3 | 13449.5 | 9531.3 | 5370.4 | 1051.0 | 478.1 | 584.3 | 633.5 |
| 67.5° | 10955.4 | 11592.5 | 12284.0 | 12610.3 | 12685.9 | 8774.0 | 4649.0 | 864.3 | 430.8 | 559.1 | 643.5 |
| 70° | 9252.7 | 9874.8 | 10580.5 | 10901.3 | 11035.3 | 7479.6 | 3744.4 | 666.2 | 370.6 | 503.8 | 622.7 |
| 72.5° | 7289.6 | 7899.8 | 8391.0 | 8625.5 | 8730.0 | 5717.1 | 2726.7 | 503.2 | 303.7 | 424.5 | 566.7 |
| 75° | 5161.0 | 5618.9 | 5879.9 | 5932.1 | 5948.5 | 3446.3 | 1656.8 | 374.2 | 250.4 | 330.2 | 478.6 |
| 77.5° | 2912.9 | 3109.2 | 3087.8 | 3111.1 | 2917.3 | 1330.4 | 721.5 | 268.0 | 206.3 | 250.9 | 371.1 |
| 80° | 1137.3 | 1172.5 | 1101.4 | 1079.4 | 990.0 | 495.1 | 318.3 | 186.8 | 164.7 | 189.9 | 259.8 |
| 82.5° | 501.3 | 517.7 | 502.6 | 506.4 | 484.4 | 255.4 | 190.6 | 135.3 | 125.9 | 139.0 | 172.4 |
| 85° | 276.0 | 281.2 | 279.9 | 288.0 | 276.0 | 101.9 | 90.5 | 83.1 | 88.0 | 94.3 | 110.8 |
| 87.5° | 134.6 | 135.9 | 131.4 | 138.3 | 133.9 | 51.7 | 44.6 | 47.3 | 51.7 | 52.8 | 52.8 |
| 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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| | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 | 1080.0 |
| 2.5° | 1020.3 | 1015.3 | 1015.9 | 1014.5 | 1012.1 | 1012.1 |
| 5° | 1011.4 | 1006.5 | 1006.5 | 1005.2 | 1002.0 | 1002.7 |
| 7.5° | 1020.3 | 1012.1 | 1008.9 | 1004.6 | 1000.2 | 1000.2 |
| 10° | 1030.4 | 1015.9 | 1007.0 | 999.5 | 993.9 | 993.9 |
| 12.5° | 1037.8 | 1015.3 | 1000.7 | 990.7 | 985.0 | 985.0 |
| 15° | 1040.3 | 1010.9 | 990.7 | 978.8 | 973.8 | 973.0 |
| 17.5° | 1032.2 | 993.9 | 969.4 | 955.4 | 949.1 | 947.4 |
| 20° | 1007.0 | 963.1 | 933.5 | 917.7 | 908.9 | 905.9 |
| 22.5° | 969.4 | 919.0 | 884.4 | 868.0 | 856.8 | 854.8 |
| 25° | 916.5 | 862.4 | 828.3 | 812.6 | 806.4 | 804.5 |
| 27.5° | 854.8 | 804.5 | 775.5 | 765.4 | 759.8 | 759.2 |
| 30° | 796.3 | 753.6 | 732.2 | 724.7 | 717.7 | 716.5 |
| 32.5° | 741.6 | 714.5 | 706.3 | 695.6 | 679.3 | 677.4 |
| 35° | 702.7 | 700.0 | 694.4 | 670.6 | 650.5 | 644.8 |
| 37.5° | 678.7 | 701.9 | 673.0 | 625.8 | 611.3 | 610.0 |
| 40° | 664.8 | 682.5 | 632.8 | 616.4 | 617.7 | 616.4 |
| 42.5° | 633.5 | 651.6 | 634.1 | 626.5 | 631.5 | 632.8 |
| 45° | 602.0 | 622.0 | 643.5 | 638.4 | 650.5 | 650.5 |
| 47.5° | 584.3 | 614.5 | 642.8 | 642.8 | 660.4 | 666.7 |
| 50° | 564.2 | 608.2 | 632.8 | 641.6 | 655.5 | 650.5 |
| 52.5° | 563.0 | 597.6 | 618.4 | 634.1 | 640.3 | 634.7 |
| 55° | 564.9 | 588.7 | 603.8 | 621.4 | 629.1 | 629.6 |
| 57.5° | 567.4 | 583.7 | 593.8 | 602.0 | 624.6 | 624.6 |
| 60° | 573.7 | 579.2 | 584.9 | 589.4 | 618.9 | 619.7 |
| 62.5° | 583.7 | 574.9 | 573.7 | 578.1 | 615.8 | 613.4 |
| 65° | 599.4 | 568.6 | 559.1 | 563.5 | 612.6 | 605.1 |
| 67.5° | 620.8 | 559.1 | 541.0 | 544.2 | 610.0 | 593.8 |
| 70° | 640.3 | 544.2 | 518.3 | 515.2 | 586.2 | 557.3 |
| 72.5° | 642.2 | 526.4 | 486.8 | 477.4 | 509.5 | 481.9 |
| 75° | 610.8 | 514.5 | 452.2 | 424.5 | 420.8 | 417.1 |
| 77.5° | 550.4 | 507.6 | 412.1 | 368.7 | 361.1 | 363.5 |
| 80° | 460.4 | 481.9 | 363.5 | 312.0 | 352.9 | 348.5 |
| 82.5° | 344.1 | 425.2 | 308.8 | 276.0 | 275.5 | 243.4 |
| 85° | 191.2 | 331.5 | 251.6 | 206.9 | 144.1 | 139.6 |
| 87.5° | 53.4 | 184.3 | 176.1 | 117.0 | 79.9 | 83.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)