

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: P300566

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-RW-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35081.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

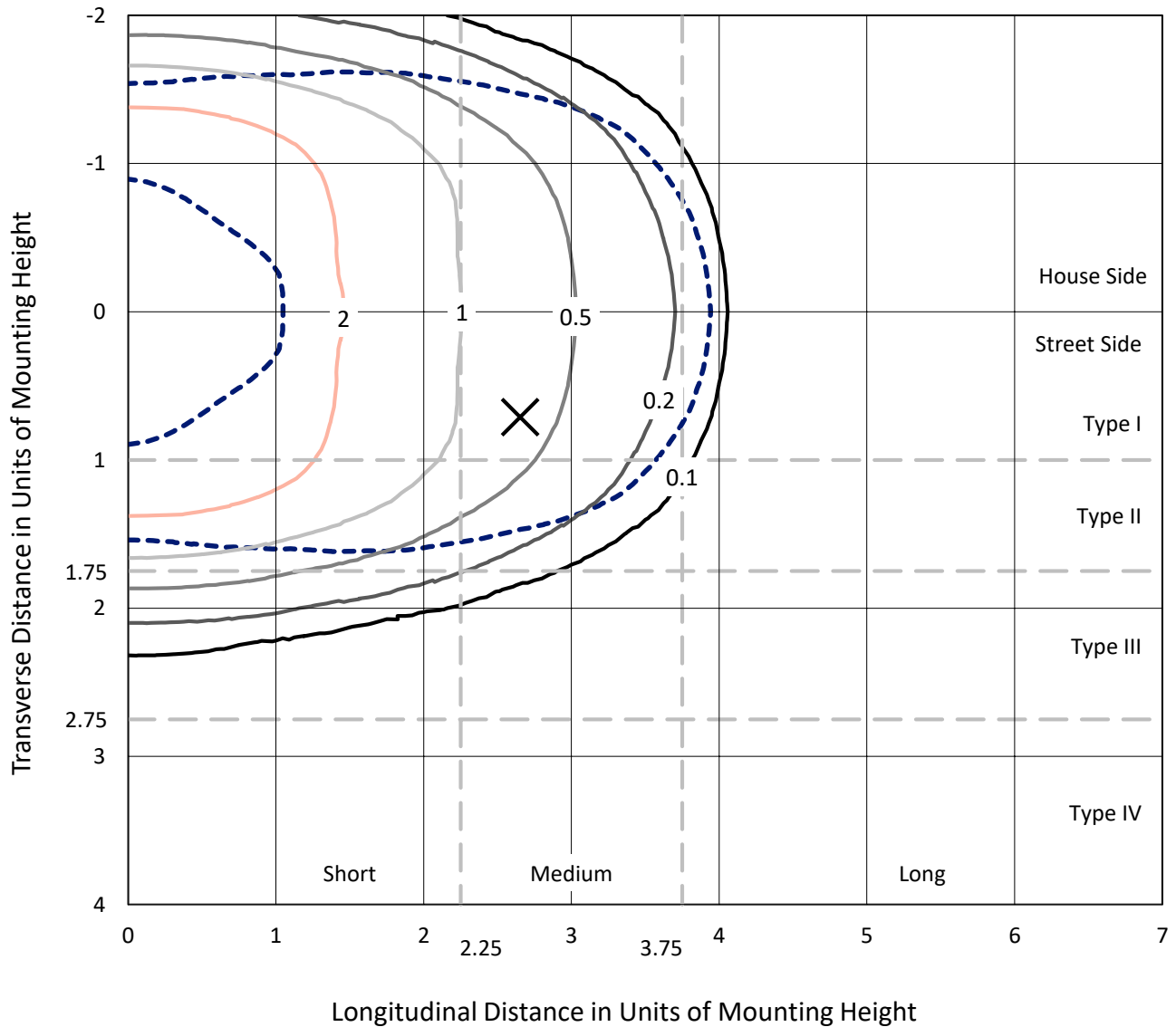
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

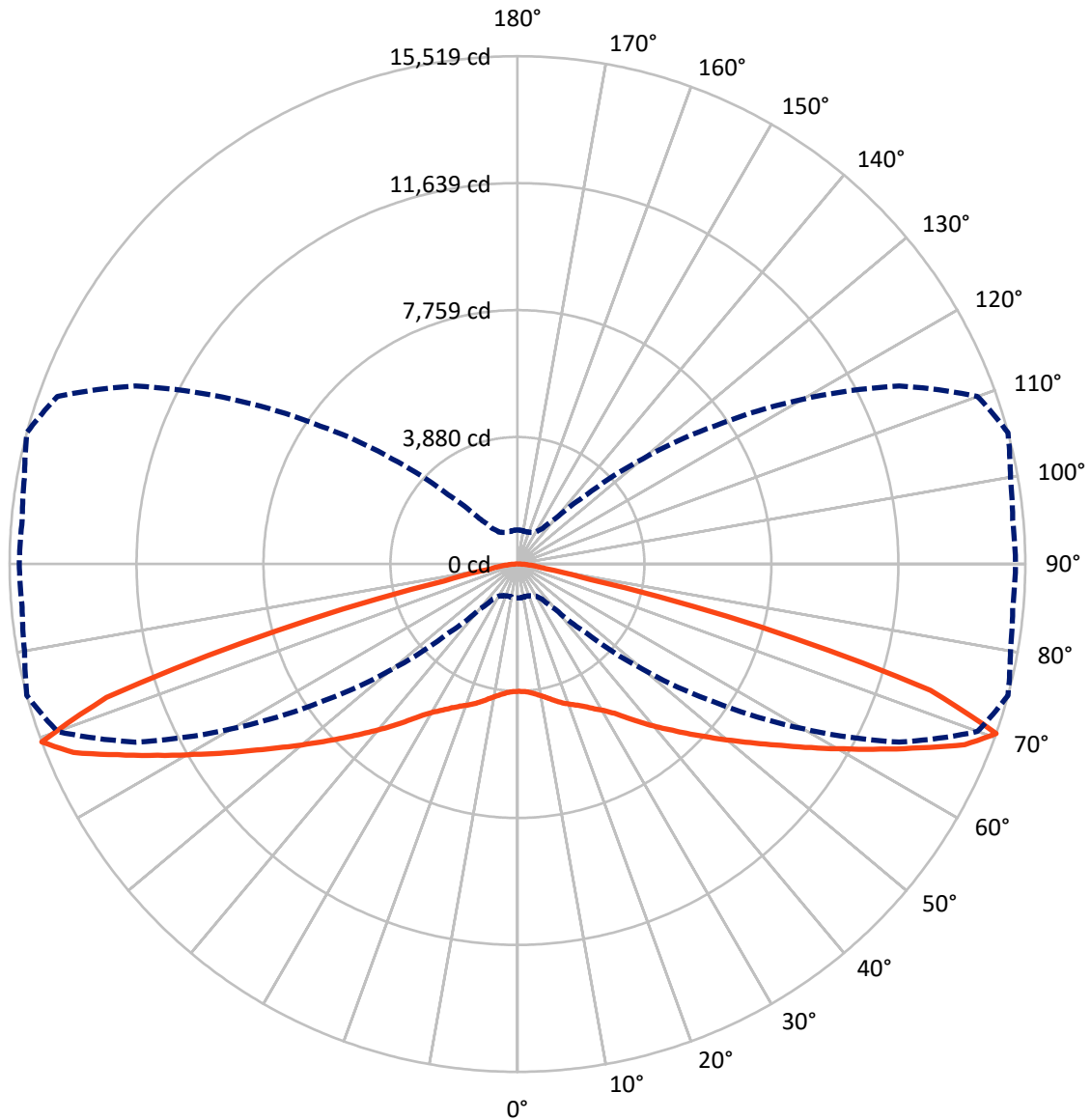
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17540.5 | 0.0 | 17540.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17540.5 | 0.0 | 17540.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 35081.1 | 0.0 | 35081.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 373.2 | 1.1 |
| 10°-20° | 1159.6 | 3.3 |
| 20°-30° | 2182.6 | 6.2 |
| 30°-40° | 3864.9 | 11.0 |
| 40°-50° | 6463.4 | 18.4 |
| 50°-60° | 9006.7 | 25.7 |
| 60°-70° | 8352.3 | 23.8 |
| 70°-80° | 3328.6 | 9.5 |
| 80°-90° | 349.9 | 1.0 |
| 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° | 35081.1 | 100.0 |
| 0°-180° | 35081.1 | 100.0 |

Coefficient of Utilization



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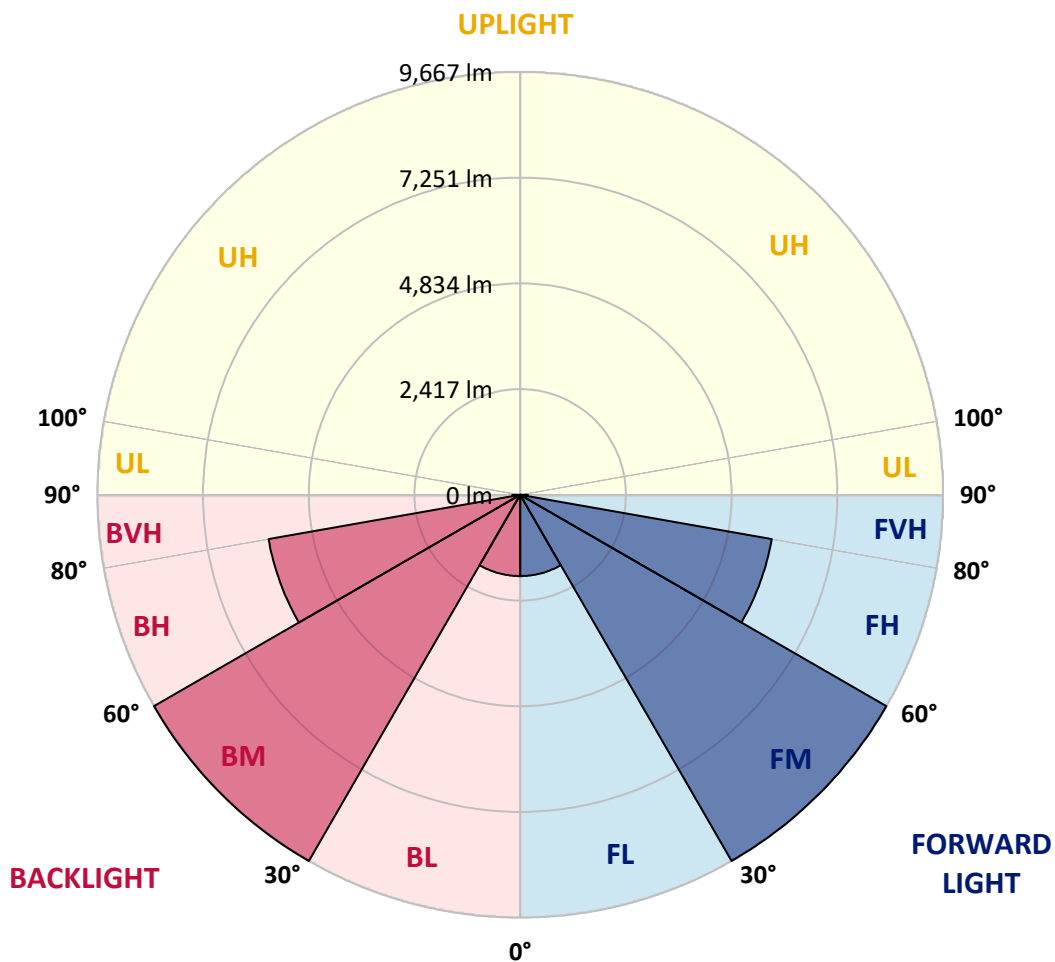
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1857.7 | 5.3 | | | |
| FM | (30°-60°) | 9667.5 | 27.6 | | | |
| FH | (60°-80°) | 5840.4 | 16.6 | | | G3/7500 |
| FVH | (80°-90°) | 174.9 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1857.7 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 9667.5 | 27.6 | B5 | | |
| BH | (60°-80°) | 5840.4 | 16.6 | B5 | | G5 |
| BVH | (80°-90°) | 174.9 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 |
| 2.5° | 3884.7 | 3881.4 | 3884.7 | 3883.0 | 3886.3 | 3886.3 | 3889.7 | 3896.3 | 3896.3 | 3901.3 | 3899.6 |
| 5° | 3846.5 | 3844.9 | 3849.9 | 3854.8 | 3859.8 | 3869.8 | 3879.7 | 3894.6 | 3906.2 | 3914.5 | 3922.8 |
| 7.5° | 3771.9 | 3771.9 | 3778.6 | 3790.2 | 3801.8 | 3823.3 | 3846.5 | 3876.4 | 3906.2 | 3931.1 | 3952.7 |
| 10° | 3710.6 | 3713.9 | 3722.2 | 3742.1 | 3762.0 | 3795.1 | 3826.6 | 3869.8 | 3911.2 | 3952.7 | 3985.8 |
| 12.5° | 3674.1 | 3679.1 | 3694.0 | 3723.9 | 3757.0 | 3801.8 | 3849.9 | 3904.6 | 3951.0 | 4000.7 | 4033.9 |
| 15° | 3685.7 | 3689.0 | 3710.6 | 3747.1 | 3790.2 | 3846.5 | 3911.2 | 3975.9 | 4030.6 | 4083.6 | 4128.4 |
| 17.5° | 3750.4 | 3755.4 | 3780.2 | 3821.7 | 3866.4 | 3932.8 | 4002.4 | 4075.3 | 4143.3 | 4203.0 | 4257.7 |
| 20° | 3866.4 | 3871.4 | 3902.9 | 3947.7 | 4000.7 | 4068.7 | 4138.4 | 4214.6 | 4290.9 | 4353.9 | 4415.2 |
| 22.5° | 4030.6 | 4038.9 | 4068.7 | 4113.5 | 4173.2 | 4246.1 | 4329.0 | 4410.3 | 4483.2 | 4541.2 | 4596.0 |
| 25° | 4246.1 | 4264.4 | 4292.5 | 4342.3 | 4405.3 | 4471.6 | 4561.1 | 4644.0 | 4713.7 | 4768.4 | 4808.2 |
| 27.5° | 4551.2 | 4576.1 | 4597.6 | 4645.7 | 4707.0 | 4770.0 | 4859.6 | 4932.5 | 4998.9 | 5051.9 | 5081.8 |
| 30° | 4955.7 | 4980.6 | 5002.2 | 5048.6 | 5105.0 | 5164.6 | 5249.2 | 5313.9 | 5355.3 | 5396.8 | 5395.1 |
| 32.5° | 5446.5 | 5473.0 | 5481.3 | 5531.1 | 5589.1 | 5653.8 | 5730.0 | 5766.5 | 5799.7 | 5804.6 | 5774.8 |
| 35° | 5995.3 | 6008.6 | 6041.7 | 6108.0 | 6174.4 | 6227.4 | 6300.4 | 6318.6 | 6318.6 | 6293.7 | 6227.4 |
| 37.5° | 6597.2 | 6605.4 | 6651.9 | 6726.5 | 6794.5 | 6849.2 | 6898.9 | 6935.4 | 6917.1 | 6864.1 | 6753.0 |
| 40° | 7257.0 | 7272.0 | 7338.3 | 7404.6 | 7480.9 | 7532.3 | 7585.3 | 7592.0 | 7573.7 | 7495.8 | 7344.9 |
| 42.5° | 7887.1 | 7900.3 | 7966.7 | 8071.1 | 8170.6 | 8241.9 | 8291.6 | 8301.6 | 8243.5 | 8172.3 | 7984.9 |
| 45° | 8429.2 | 8464.1 | 8550.3 | 8673.0 | 8817.2 | 8918.3 | 8986.3 | 9014.5 | 8963.1 | 8870.3 | 8653.1 |
| 47.5° | 8858.7 | 8893.5 | 9016.2 | 9162.1 | 9341.1 | 9505.3 | 9618.0 | 9677.7 | 9664.4 | 9594.8 | 9357.7 |
| 50° | 9173.7 | 9206.8 | 9339.5 | 9518.5 | 9727.4 | 9931.4 | 10123.7 | 10266.3 | 10316.0 | 10284.5 | 10067.3 |
| 52.5° | 9210.2 | 9264.9 | 9420.7 | 9661.1 | 9933.0 | 10211.6 | 10485.2 | 10727.2 | 10891.4 | 10916.2 | 10755.4 |
| 55° | 8701.2 | 8755.9 | 8971.4 | 9327.9 | 9732.4 | 10186.7 | 10624.4 | 11032.3 | 11355.6 | 11521.4 | 11436.8 |
| 57.5° | 7500.8 | 7598.6 | 7825.7 | 8243.5 | 8838.8 | 9518.5 | 10216.6 | 10941.1 | 11599.3 | 12038.7 | 12123.2 |
| 60° | 5748.3 | 5864.3 | 6093.1 | 6537.5 | 7200.7 | 8011.4 | 8943.2 | 10014.3 | 11176.5 | 12164.7 | 12754.9 |
| 62.5° | 3687.4 | 3796.8 | 4037.2 | 4423.5 | 4964.0 | 5842.8 | 6842.5 | 8114.2 | 9676.1 | 11236.2 | 12642.2 |
| 65° | 1895.1 | 1954.8 | 2080.8 | 2314.6 | 2735.7 | 3392.3 | 4289.2 | 5557.6 | 7343.3 | 9268.2 | 11300.9 |
| 67.5° | 1200.4 | 1212.0 | 1240.2 | 1273.3 | 1381.1 | 1608.3 | 2026.1 | 2816.9 | 4285.9 | 6293.7 | 8673.0 |
| 70° | 1037.9 | 1037.9 | 1024.6 | 1019.7 | 1032.9 | 1064.4 | 1129.1 | 1313.1 | 1808.9 | 2987.7 | 5002.2 |
| 72.5° | 950.0 | 940.1 | 916.9 | 898.6 | 895.3 | 895.3 | 908.6 | 936.8 | 1016.4 | 1217.0 | 1958.1 |
| 75° | 875.4 | 847.2 | 815.7 | 794.2 | 785.9 | 777.6 | 775.9 | 780.9 | 797.5 | 829.0 | 935.1 |
| 77.5° | 784.2 | 747.8 | 711.3 | 689.7 | 679.8 | 668.2 | 658.2 | 646.6 | 638.3 | 648.3 | 694.7 |
| 80° | 674.8 | 633.4 | 605.2 | 591.9 | 582.0 | 565.4 | 543.8 | 523.9 | 505.7 | 502.4 | 530.6 |
| 82.5° | 543.8 | 495.7 | 497.4 | 502.4 | 484.1 | 460.9 | 437.7 | 416.2 | 384.7 | 368.1 | 384.7 |
| 85° | 439.4 | 414.5 | 402.9 | 434.4 | 407.9 | 373.0 | 336.6 | 298.4 | 248.7 | 208.9 | 227.1 |
| 87.5° | 170.8 | 170.8 | 255.3 | 392.9 | 353.2 | 288.5 | 247.0 | 210.6 | 131.0 | 101.1 | 102.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 | 3891.3 |
| 2.5° | 3897.9 | 3901.3 | 3899.6 | 3897.9 | 3897.9 | 3896.3 | 3897.9 | 3897.9 |
| 5° | 3927.8 | 3936.1 | 3936.1 | 3939.4 | 3939.4 | 3941.1 | 3942.7 | 3941.1 |
| 7.5° | 3972.6 | 3987.5 | 3997.4 | 4009.0 | 4010.7 | 4012.3 | 4015.7 | 4012.3 |
| 10° | 4017.3 | 4047.2 | 4068.7 | 4090.3 | 4100.2 | 4103.5 | 4106.9 | 4106.9 |
| 12.5° | 4073.7 | 4115.1 | 4153.3 | 4191.4 | 4209.6 | 4219.6 | 4219.6 | 4226.2 |
| 15° | 4166.5 | 4208.0 | 4252.8 | 4304.2 | 4335.7 | 4352.2 | 4357.2 | 4357.2 |
| 17.5° | 4297.5 | 4334.0 | 4372.1 | 4421.9 | 4461.7 | 4483.2 | 4488.2 | 4486.5 |
| 20° | 4450.1 | 4484.9 | 4506.4 | 4537.9 | 4572.7 | 4597.6 | 4604.2 | 4604.2 |
| 22.5° | 4624.1 | 4644.0 | 4647.4 | 4657.3 | 4685.5 | 4718.6 | 4733.6 | 4736.9 |
| 25° | 4816.5 | 4821.4 | 4808.2 | 4808.2 | 4826.4 | 4857.9 | 4872.8 | 4874.5 |
| 27.5° | 5065.2 | 5040.3 | 5007.1 | 4995.5 | 5007.1 | 5043.6 | 5061.9 | 5068.5 |
| 30° | 5375.2 | 5315.5 | 5239.3 | 5197.8 | 5191.2 | 5239.3 | 5272.4 | 5277.4 |
| 32.5° | 5730.0 | 5643.8 | 5542.7 | 5458.1 | 5436.6 | 5466.4 | 5506.2 | 5504.5 |
| 35° | 6151.2 | 6048.4 | 5925.7 | 5817.9 | 5768.2 | 5798.0 | 5854.4 | 5861.0 |
| 37.5° | 6636.9 | 6502.7 | 6361.7 | 6225.8 | 6147.8 | 6156.1 | 6215.8 | 6235.7 |
| 40° | 7179.1 | 7005.0 | 6827.6 | 6645.2 | 6534.2 | 6512.6 | 6585.6 | 6597.2 |
| 42.5° | 7759.4 | 7535.6 | 7311.8 | 7086.3 | 6943.7 | 6910.5 | 6995.1 | 6990.1 |
| 45° | 8377.8 | 8092.7 | 7830.7 | 7582.0 | 7412.9 | 7363.1 | 7432.8 | 7432.8 |
| 47.5° | 9042.7 | 8691.2 | 8379.5 | 8097.6 | 7913.6 | 7842.3 | 7908.6 | 7913.6 |
| 50° | 9747.3 | 9374.3 | 9007.9 | 8694.5 | 8474.0 | 8382.8 | 8469.0 | 8482.3 |
| 52.5° | 10448.7 | 10085.6 | 9715.8 | 9357.7 | 9090.8 | 8979.7 | 9079.2 | 9122.3 |
| 55° | 11160.0 | 10803.5 | 10450.3 | 10100.5 | 9783.8 | 9652.8 | 9759.0 | 9813.7 |
| 57.5° | 11911.0 | 11581.1 | 11244.5 | 10891.4 | 10586.3 | 10382.4 | 10495.1 | 10568.1 |
| 60° | 12791.4 | 12509.6 | 12159.7 | 11770.1 | 11461.7 | 11254.5 | 11319.1 | 11383.8 |
| 62.5° | 13487.8 | 13597.2 | 13300.4 | 12849.5 | 12453.2 | 12187.9 | 12250.9 | 12318.9 |
| 65° | 13151.2 | 14273.7 | 14537.3 | 14081.3 | 13532.5 | 13119.7 | 13093.2 | 13128.0 |
| 67.5° | 10992.5 | 13172.8 | 14762.8 | 15197.2 | 14737.9 | 14164.2 | 14058.1 | 14109.5 |
| 70° | 7353.2 | 10069.0 | 12874.3 | 14963.4 | 15518.8 | 15296.6 | 15192.2 | 15223.7 |
| 72.5° | 3531.5 | 5864.3 | 8734.3 | 11511.4 | 13202.6 | 13978.5 | 14227.2 | 14348.3 |
| 75° | 1291.6 | 2327.8 | 4209.6 | 6343.5 | 7658.3 | 8865.3 | 9652.8 | 9974.5 |
| 77.5° | 779.3 | 940.1 | 1344.6 | 2024.4 | 2293.0 | 2566.6 | 2460.5 | 2513.5 |
| 80° | 577.0 | 651.6 | 737.8 | 829.0 | 858.8 | 858.8 | 825.7 | 799.2 |
| 82.5° | 404.6 | 452.6 | 494.1 | 543.8 | 557.1 | 532.2 | 437.7 | 348.2 |
| 85° | 260.3 | 281.9 | 300.1 | 331.6 | 323.3 | 308.4 | 207.2 | 184.0 |
| 87.5° | 119.4 | 136.0 | 142.6 | 157.5 | 150.9 | 144.2 | 102.8 | 86.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)