

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: P300632

Luminaire Tested: **GLNA-AF-07-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300632
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-07-LED-E1-RW-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33516.9 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 295
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

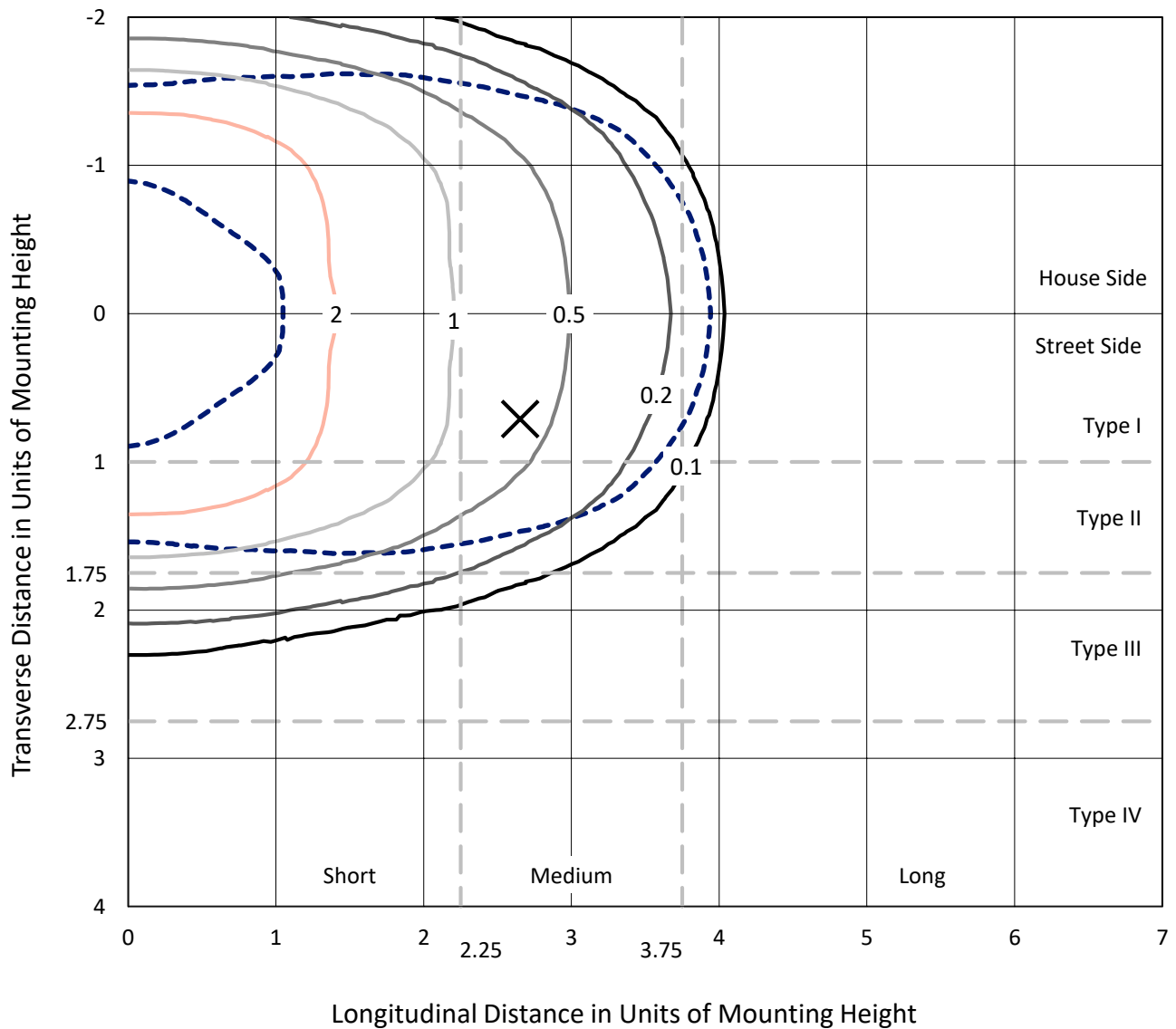


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Iso-Footcandle Lines of Horizontal Illumination

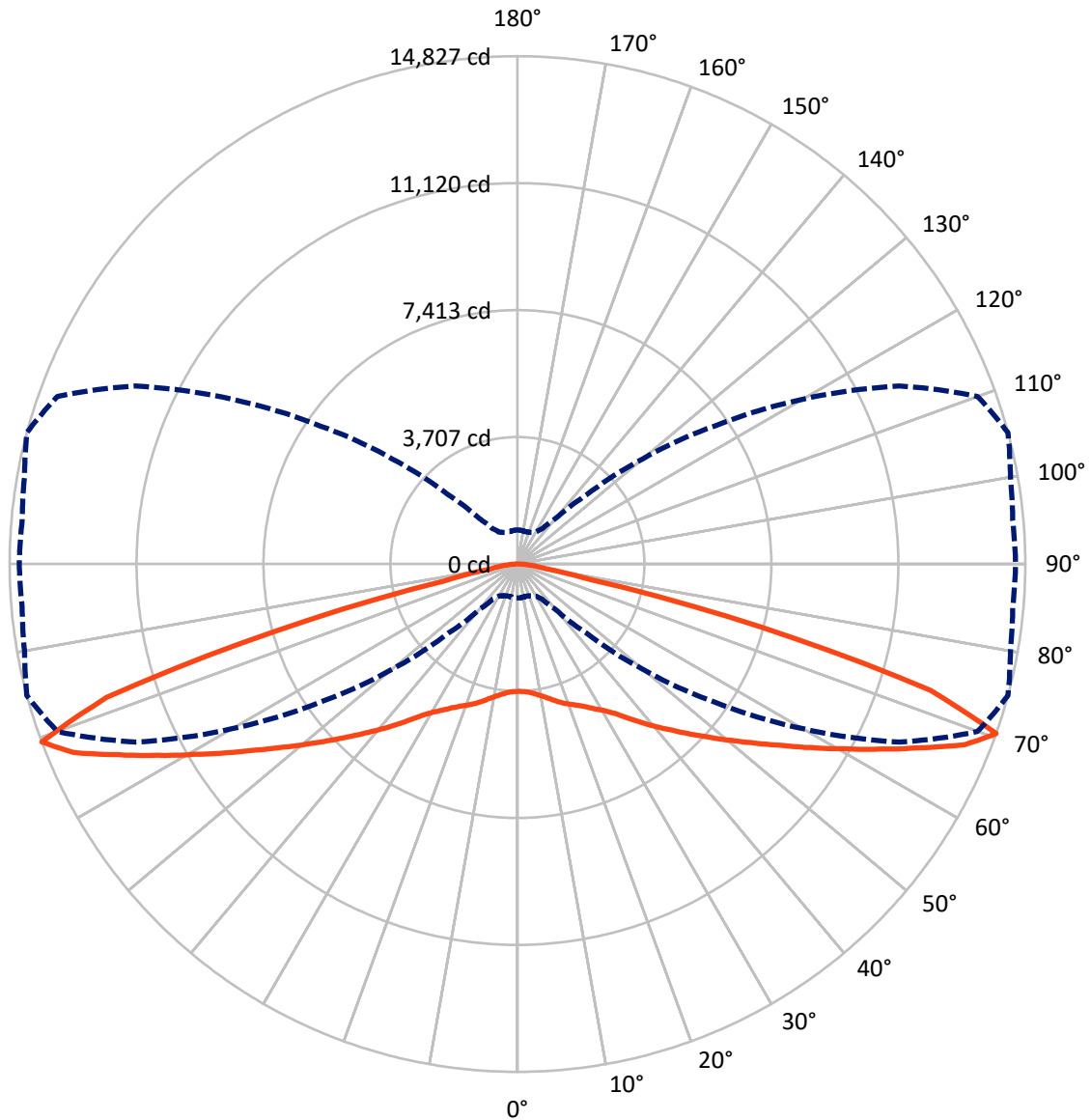
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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 | 16758.4 | 0.0 | 16758.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16758.4 | 0.0 | 16758.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 33516.9 | 0.0 | 33516.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 356.6 | 1.1 |
| 10°-20° | 1107.9 | 3.3 |
| 20°-30° | 2085.3 | 6.2 |
| 30°-40° | 3692.6 | 11.0 |
| 40°-50° | 6175.2 | 18.4 |
| 50°-60° | 8605.1 | 25.7 |
| 60°-70° | 7979.8 | 23.8 |
| 70°-80° | 3180.2 | 9.5 |
| 80°-90° | 334.3 | 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° | 33516.9 | 100.0 |
| 0°-180° | 33516.9 | 100.0 |

Coefficient of Utilization



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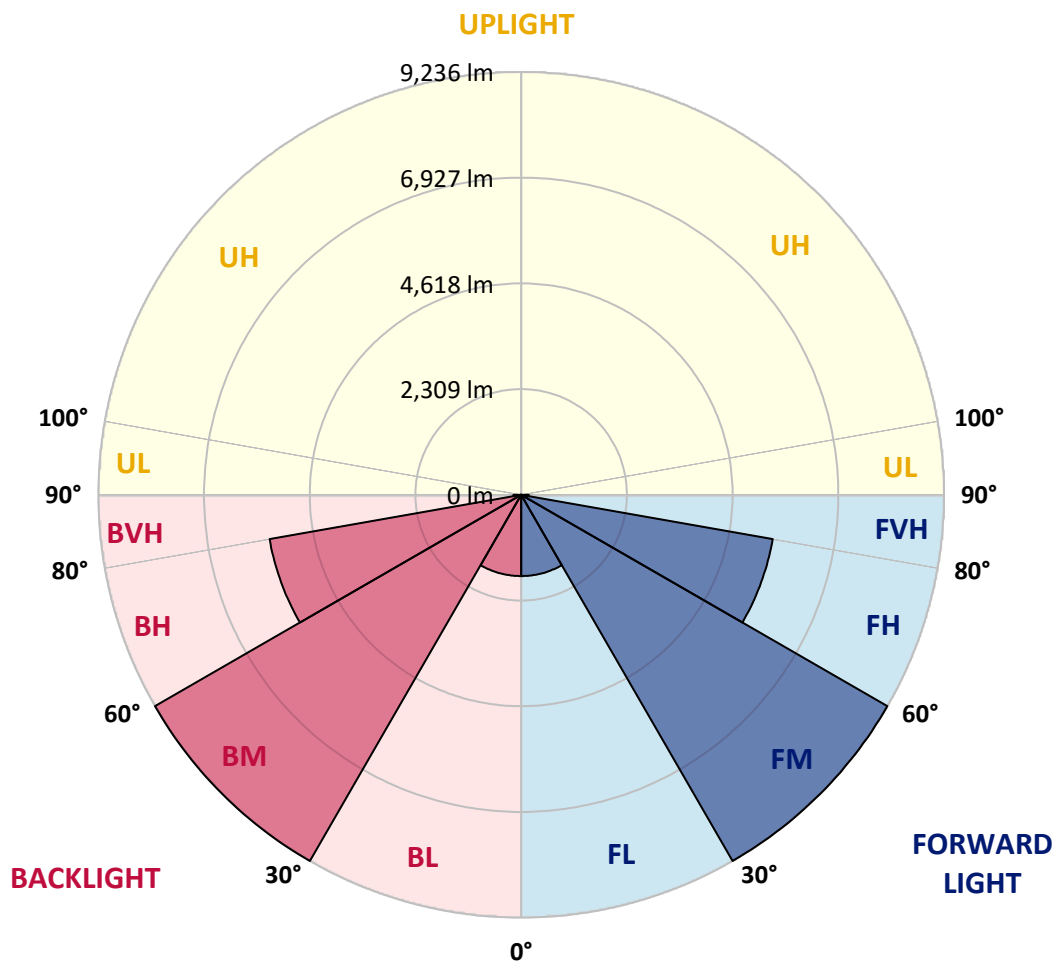
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1774.9 | 5.3 | | | |
| FM | (30°-60°) | 9236.4 | 27.6 | | | |
| FH | (60°-80°) | 5580.0 | 16.6 | | | G3/7500 |
| FVH | (80°-90°) | 167.1 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1774.9 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 9236.4 | 27.6 | B5 | | |
| BH | (60°-80°) | 5580.0 | 16.6 | B5 | | G5 |
| BVH | (80°-90°) | 167.1 | 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° | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 |
| 2.5° | 3711.5 | 3708.3 | 3711.5 | 3709.9 | 3713.1 | 3713.1 | 3716.2 | 3722.6 | 3722.6 | 3727.3 | 3725.7 |
| 5° | 3675.0 | 3673.5 | 3678.2 | 3683.0 | 3687.7 | 3697.2 | 3706.7 | 3721.0 | 3732.1 | 3740.0 | 3747.9 |
| 7.5° | 3603.8 | 3603.8 | 3610.1 | 3621.2 | 3632.3 | 3652.9 | 3675.0 | 3703.5 | 3732.1 | 3755.8 | 3776.4 |
| 10° | 3545.1 | 3548.3 | 3556.2 | 3575.2 | 3594.2 | 3625.9 | 3656.0 | 3697.2 | 3736.8 | 3776.4 | 3808.1 |
| 12.5° | 3510.3 | 3515.0 | 3529.3 | 3557.8 | 3589.5 | 3632.3 | 3678.2 | 3730.5 | 3774.8 | 3822.4 | 3854.0 |
| 15° | 3521.4 | 3524.5 | 3545.1 | 3580.0 | 3621.2 | 3675.0 | 3736.8 | 3798.6 | 3850.9 | 3901.6 | 3944.3 |
| 17.5° | 3583.2 | 3587.9 | 3611.7 | 3651.3 | 3694.0 | 3757.4 | 3823.9 | 3893.6 | 3958.6 | 4015.6 | 4067.9 |
| 20° | 3694.0 | 3698.8 | 3728.9 | 3771.7 | 3822.4 | 3887.3 | 3953.8 | 4026.7 | 4099.6 | 4159.8 | 4218.4 |
| 22.5° | 3850.9 | 3858.8 | 3887.3 | 3930.1 | 3987.1 | 4056.8 | 4136.0 | 4213.6 | 4283.3 | 4338.8 | 4391.0 |
| 25° | 4056.8 | 4074.2 | 4101.1 | 4148.7 | 4208.9 | 4272.2 | 4357.8 | 4437.0 | 4503.5 | 4555.8 | 4593.8 |
| 27.5° | 4348.3 | 4372.0 | 4392.6 | 4438.6 | 4497.2 | 4557.4 | 4642.9 | 4712.6 | 4776.0 | 4826.7 | 4855.2 |
| 30° | 4734.8 | 4758.5 | 4779.1 | 4823.5 | 4877.3 | 4934.4 | 5015.2 | 5076.9 | 5116.5 | 5156.1 | 5154.6 |
| 32.5° | 5203.7 | 5229.0 | 5236.9 | 5284.4 | 5339.9 | 5401.7 | 5474.5 | 5509.4 | 5541.1 | 5545.8 | 5517.3 |
| 35° | 5728.0 | 5740.7 | 5772.3 | 5835.7 | 5899.1 | 5949.8 | 6019.5 | 6036.9 | 6036.9 | 6013.1 | 5949.8 |
| 37.5° | 6303.0 | 6310.9 | 6355.3 | 6426.6 | 6491.5 | 6543.8 | 6591.3 | 6626.1 | 6608.7 | 6558.0 | 6451.9 |
| 40° | 6933.5 | 6947.7 | 7011.1 | 7074.4 | 7147.3 | 7196.4 | 7247.1 | 7253.4 | 7236.0 | 7161.6 | 7017.4 |
| 42.5° | 7535.4 | 7548.1 | 7611.4 | 7711.2 | 7806.3 | 7874.4 | 7921.9 | 7931.4 | 7876.0 | 7807.9 | 7628.9 |
| 45° | 8053.4 | 8086.7 | 8169.0 | 8286.3 | 8424.1 | 8520.7 | 8585.6 | 8612.6 | 8563.5 | 8474.8 | 8267.2 |
| 47.5° | 8463.7 | 8496.9 | 8614.2 | 8753.6 | 8924.6 | 9081.5 | 9189.2 | 9246.2 | 9233.5 | 9167.0 | 8940.5 |
| 50° | 8764.6 | 8796.3 | 8923.0 | 9094.1 | 9293.7 | 9488.6 | 9672.3 | 9808.5 | 9856.1 | 9826.0 | 9618.5 |
| 52.5° | 8799.5 | 8851.8 | 9000.7 | 9230.4 | 9490.1 | 9756.3 | 10017.6 | 10248.9 | 10405.7 | 10429.5 | 10275.8 |
| 55° | 8313.2 | 8365.5 | 8571.4 | 8912.0 | 9298.5 | 9732.5 | 10150.7 | 10540.4 | 10849.3 | 11007.7 | 10926.9 |
| 57.5° | 7166.3 | 7259.8 | 7476.8 | 7876.0 | 8444.7 | 9094.1 | 9761.0 | 10453.3 | 11082.1 | 11501.9 | 11582.7 |
| 60° | 5492.0 | 5602.8 | 5821.4 | 6246.0 | 6879.6 | 7654.2 | 8544.5 | 9567.8 | 10678.2 | 11622.3 | 12186.2 |
| 62.5° | 3523.0 | 3627.5 | 3857.2 | 4226.3 | 4742.7 | 5582.3 | 6537.4 | 7752.4 | 9244.6 | 10735.2 | 12078.5 |
| 65° | 1810.6 | 1867.6 | 1988.0 | 2211.4 | 2613.7 | 3241.0 | 4098.0 | 5309.8 | 7015.8 | 8854.9 | 10797.0 |
| 67.5° | 1146.9 | 1158.0 | 1184.9 | 1216.6 | 1319.5 | 1536.5 | 1935.7 | 2691.3 | 4094.8 | 6013.1 | 8286.3 |
| 70° | 991.6 | 991.6 | 979.0 | 974.2 | 986.9 | 1017.0 | 1078.7 | 1254.6 | 1728.2 | 2854.5 | 4779.1 |
| 72.5° | 907.7 | 898.2 | 876.0 | 858.6 | 855.4 | 855.4 | 868.1 | 895.0 | 971.0 | 1162.7 | 1870.8 |
| 75° | 836.4 | 809.5 | 779.4 | 758.8 | 750.8 | 742.9 | 741.3 | 746.1 | 761.9 | 792.0 | 893.4 |
| 77.5° | 749.3 | 714.4 | 679.6 | 659.0 | 649.5 | 638.4 | 628.9 | 617.8 | 609.9 | 619.4 | 663.7 |
| 80° | 644.7 | 605.1 | 578.2 | 565.5 | 556.0 | 540.2 | 519.6 | 500.6 | 483.1 | 480.0 | 506.9 |
| 82.5° | 519.6 | 473.6 | 475.2 | 480.0 | 462.5 | 440.4 | 418.2 | 397.6 | 367.5 | 351.7 | 367.5 |
| 85° | 419.8 | 396.0 | 384.9 | 415.0 | 389.7 | 356.4 | 321.6 | 285.1 | 237.6 | 199.6 | 217.0 |
| 87.5° | 163.2 | 163.2 | 243.9 | 375.4 | 337.4 | 275.6 | 236.0 | 201.2 | 125.1 | 96.6 | 98.2 |
| 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° | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 | 3717.8 |
| 2.5° | 3724.1 | 3727.3 | 3725.7 | 3724.1 | 3724.1 | 3722.6 | 3724.1 | 3724.1 |
| 5° | 3752.7 | 3760.6 | 3760.6 | 3763.7 | 3763.7 | 3765.3 | 3766.9 | 3765.3 |
| 7.5° | 3795.4 | 3809.7 | 3819.2 | 3830.3 | 3831.9 | 3833.4 | 3836.6 | 3833.4 |
| 10° | 3838.2 | 3866.7 | 3887.3 | 3907.9 | 3917.4 | 3920.6 | 3923.7 | 3923.7 |
| 12.5° | 3892.1 | 3931.7 | 3968.1 | 4004.5 | 4021.9 | 4031.4 | 4031.4 | 4037.8 |
| 15° | 3980.8 | 4020.4 | 4063.1 | 4112.2 | 4142.3 | 4158.2 | 4162.9 | 4162.9 |
| 17.5° | 4105.9 | 4140.7 | 4177.2 | 4224.7 | 4262.7 | 4283.3 | 4288.1 | 4286.5 |
| 20° | 4251.6 | 4284.9 | 4305.5 | 4335.6 | 4368.9 | 4392.6 | 4399.0 | 4399.0 |
| 22.5° | 4418.0 | 4437.0 | 4440.1 | 4449.6 | 4476.6 | 4508.3 | 4522.5 | 4525.7 |
| 25° | 4601.7 | 4606.5 | 4593.8 | 4593.8 | 4611.2 | 4641.3 | 4655.6 | 4657.2 |
| 27.5° | 4839.3 | 4815.6 | 4783.9 | 4772.8 | 4783.9 | 4818.7 | 4836.2 | 4842.5 |
| 30° | 5135.5 | 5078.5 | 5005.6 | 4966.0 | 4959.7 | 5005.6 | 5037.3 | 5042.1 |
| 32.5° | 5474.5 | 5392.2 | 5295.5 | 5214.7 | 5194.2 | 5222.7 | 5260.7 | 5259.1 |
| 35° | 5876.9 | 5778.7 | 5661.5 | 5558.5 | 5511.0 | 5539.5 | 5593.3 | 5599.7 |
| 37.5° | 6341.0 | 6212.7 | 6078.1 | 5948.2 | 5873.7 | 5881.6 | 5938.7 | 5957.7 |
| 40° | 6859.0 | 6692.7 | 6523.2 | 6348.9 | 6242.8 | 6222.2 | 6291.9 | 6303.0 |
| 42.5° | 7413.4 | 7199.6 | 6985.7 | 6770.3 | 6634.1 | 6602.4 | 6683.2 | 6678.4 |
| 45° | 8004.3 | 7731.8 | 7481.5 | 7243.9 | 7082.4 | 7034.8 | 7101.4 | 7101.4 |
| 47.5° | 8639.5 | 8303.7 | 8005.9 | 7736.6 | 7560.7 | 7492.6 | 7556.0 | 7560.7 |
| 50° | 9312.7 | 8956.3 | 8606.2 | 8306.8 | 8096.2 | 8009.0 | 8091.4 | 8104.1 |
| 52.5° | 9982.8 | 9635.9 | 9282.6 | 8940.5 | 8685.4 | 8579.3 | 8674.3 | 8715.5 |
| 55° | 10662.4 | 10321.8 | 9984.4 | 9650.1 | 9347.6 | 9222.4 | 9323.8 | 9376.1 |
| 57.5° | 11379.9 | 11064.7 | 10743.1 | 10405.7 | 10114.3 | 9919.4 | 10027.1 | 10096.8 |
| 60° | 12221.1 | 11951.8 | 11617.5 | 11245.3 | 10950.7 | 10752.6 | 10814.4 | 10876.2 |
| 62.5° | 12886.4 | 12990.9 | 12707.4 | 12276.5 | 11897.9 | 11644.5 | 11704.7 | 11769.6 |
| 65° | 12564.8 | 13637.2 | 13889.1 | 13453.5 | 12929.2 | 12534.7 | 12509.4 | 12542.6 |
| 67.5° | 10502.4 | 12585.4 | 14104.5 | 14519.6 | 14080.8 | 13532.7 | 13431.3 | 13480.4 |
| 70° | 7025.3 | 9620.0 | 12300.3 | 14296.2 | 14826.9 | 14614.6 | 14514.8 | 14544.9 |
| 72.5° | 3374.1 | 5602.8 | 8344.9 | 10998.2 | 12613.9 | 13355.3 | 13592.9 | 13708.5 |
| 75° | 1234.0 | 2224.0 | 4021.9 | 6060.6 | 7316.8 | 8470.0 | 9222.4 | 9529.7 |
| 77.5° | 744.5 | 898.2 | 1284.7 | 1934.1 | 2190.8 | 2452.1 | 2350.8 | 2401.4 |
| 80° | 551.3 | 622.5 | 704.9 | 792.0 | 820.5 | 820.5 | 788.9 | 763.5 |
| 82.5° | 386.5 | 432.5 | 472.1 | 519.6 | 532.2 | 508.5 | 418.2 | 332.7 |
| 85° | 248.7 | 269.3 | 286.7 | 316.8 | 308.9 | 294.6 | 198.0 | 175.8 |
| 87.5° | 114.1 | 129.9 | 136.2 | 150.5 | 144.2 | 137.8 | 98.2 | 82.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)