

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: P269285

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26662 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

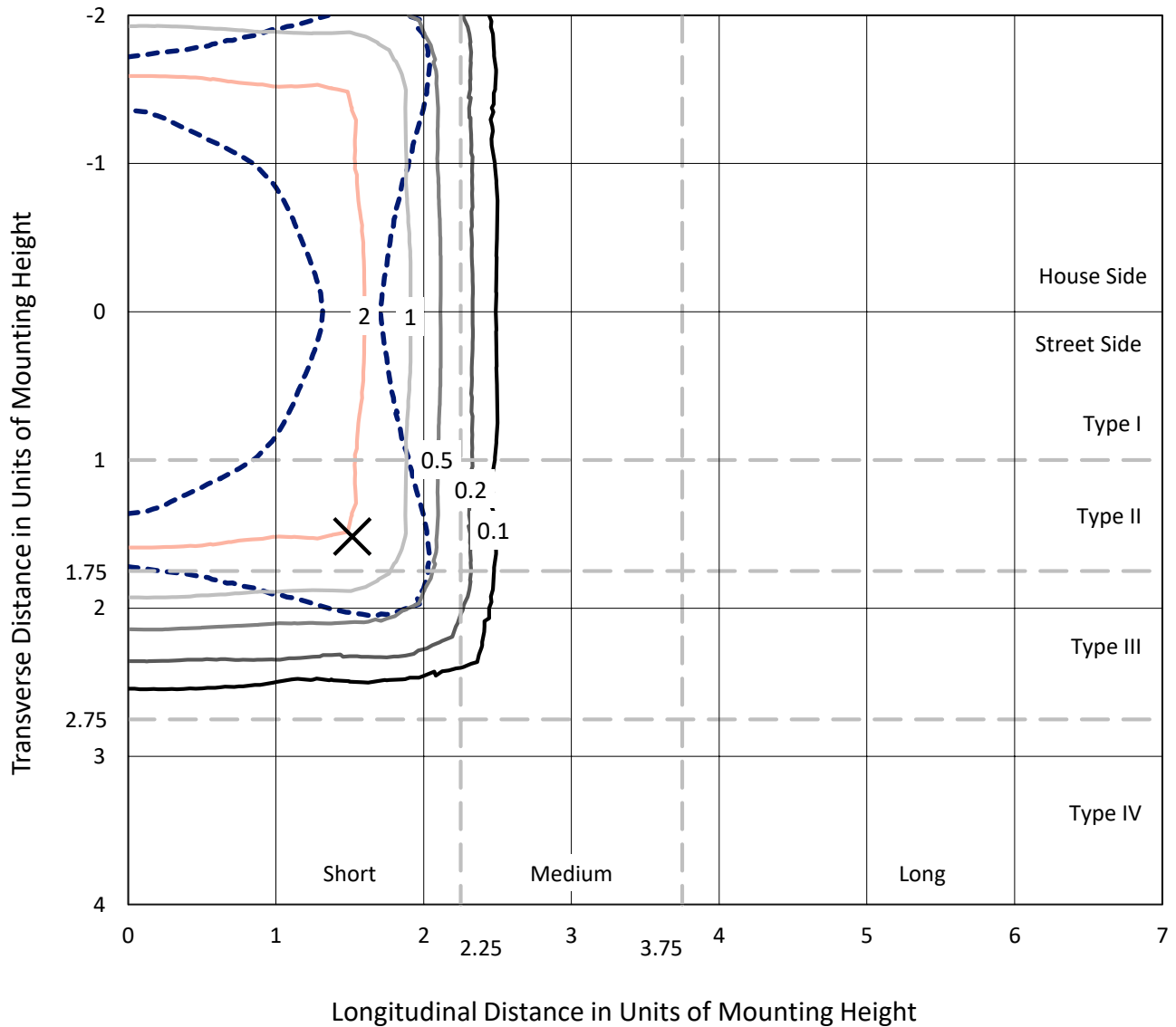
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

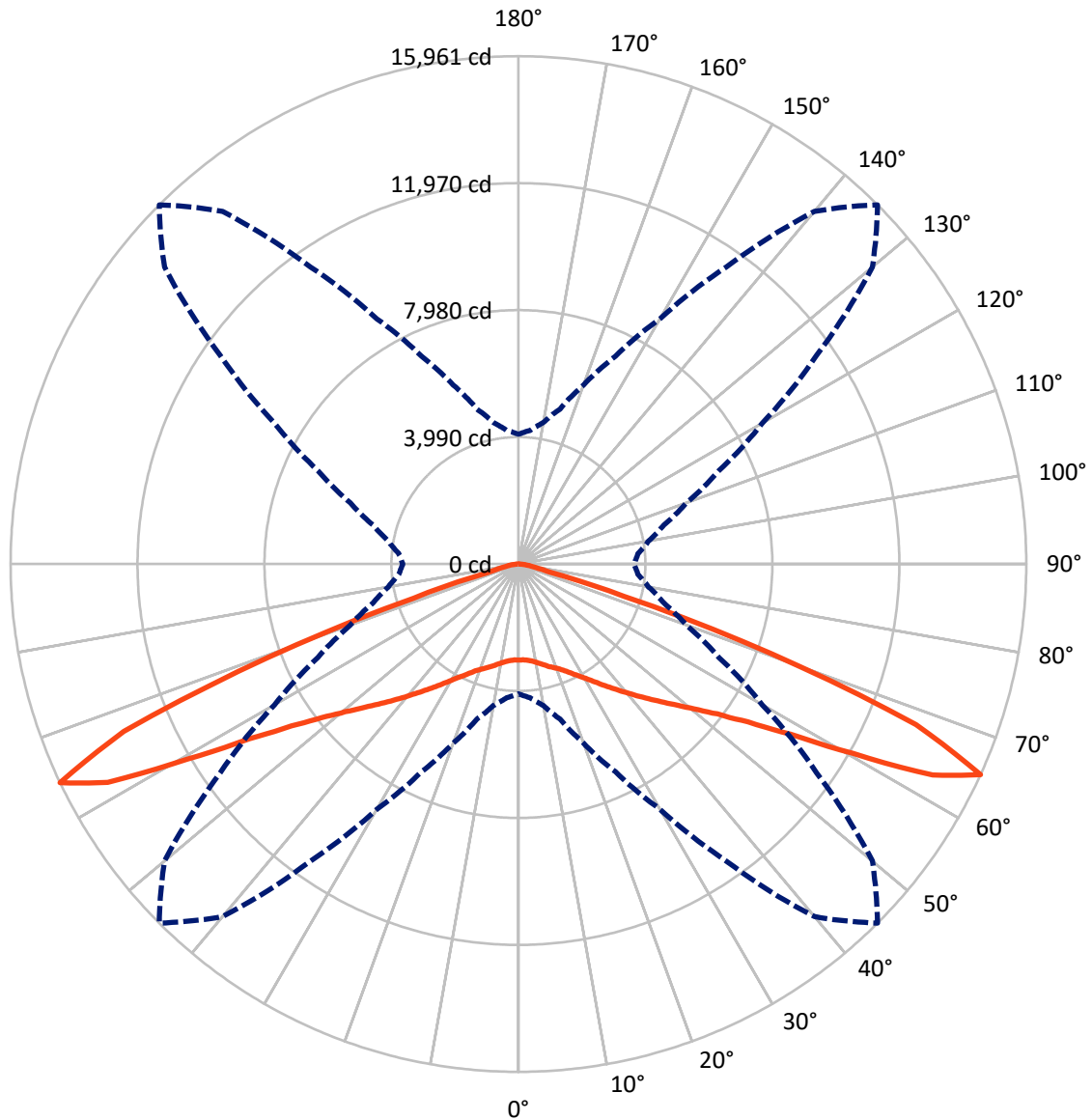
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13331.0 | 0.0 | 13331.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13331.0 | 0.0 | 13331.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26662.0 | 0.0 | 26662.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 294.0 | 1.1 |
| 10°-20° | 943.0 | 3.5 |
| 20°-30° | 1763.3 | 6.6 |
| 30°-40° | 2982.3 | 11.2 |
| 40°-50° | 4876.3 | 18.3 |
| 50°-60° | 7754.1 | 29.1 |
| 60°-70° | 7009.2 | 26.3 |
| 70°-80° | 887.0 | 3.3 |
| 80°-90° | 152.6 | 0.6 |
| 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° | 26662.0 | 100.0 |
| 0°-180° | 26662.0 | 100.0 |

Coefficient of Utilization



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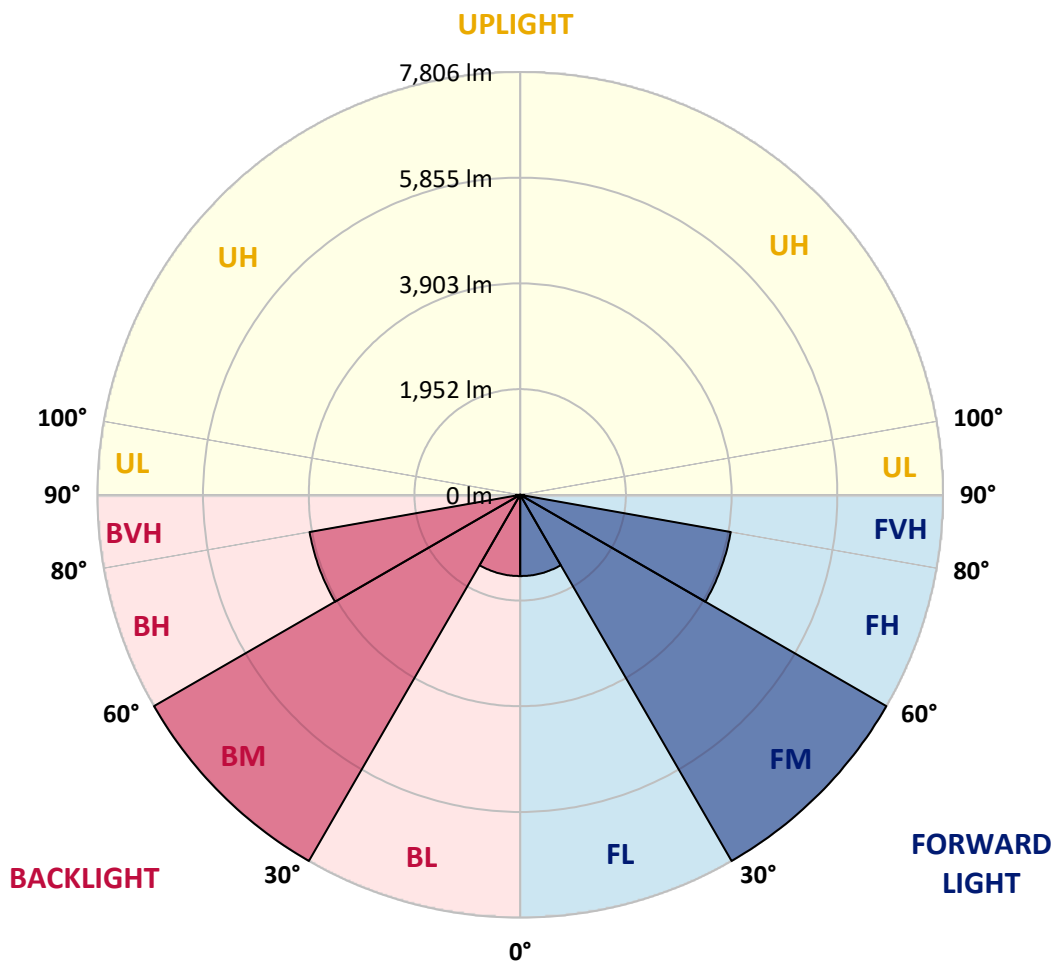
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1500.2 | 5.6 | | | |
| FM | (30°-60°) | 7806.4 | 29.3 | | | |
| FH | (60°-80°) | 3948.1 | 14.8 | | | G2/5000 |
| FVH | (80°-90°) | 76.3 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1500.2 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 7806.4 | 29.3 | B4/8500 | | |
| BH | (60°-80°) | 3948.1 | 14.8 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 76.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 |
| 2.5° | 3019.4 | 3021.8 | 3024.4 | 3021.8 | 3024.4 | 3020.6 | 3018.0 | 3021.8 | 3018.0 | 3014.4 | 3016.8 |
| 5° | 3045.6 | 3046.8 | 3046.8 | 3043.1 | 3046.8 | 3044.3 | 3040.6 | 3045.6 | 3041.8 | 3038.1 | 3040.6 |
| 7.5° | 3089.2 | 3094.2 | 3090.4 | 3086.8 | 3089.2 | 3086.8 | 3084.2 | 3085.5 | 3084.2 | 3080.5 | 3081.7 |
| 10° | 3147.9 | 3151.7 | 3149.2 | 3147.9 | 3150.4 | 3149.2 | 3146.7 | 3145.4 | 3146.7 | 3142.9 | 3142.9 |
| 12.5° | 3219.0 | 3217.9 | 3216.7 | 3217.9 | 3221.6 | 3221.6 | 3220.3 | 3221.6 | 3224.0 | 3225.4 | 3222.8 |
| 15° | 3289.1 | 3291.5 | 3291.5 | 3291.5 | 3299.0 | 3305.3 | 3308.9 | 3311.5 | 3316.5 | 3317.7 | 3312.8 |
| 17.5° | 3376.4 | 3376.4 | 3375.2 | 3376.4 | 3383.9 | 3393.9 | 3397.7 | 3402.7 | 3407.6 | 3411.5 | 3405.1 |
| 20° | 3473.8 | 3476.4 | 3476.4 | 3478.9 | 3488.7 | 3500.1 | 3500.1 | 3502.5 | 3500.1 | 3502.5 | 3498.8 |
| 22.5° | 3592.4 | 3600.0 | 3600.0 | 3601.1 | 3611.1 | 3624.9 | 3621.2 | 3624.9 | 3618.7 | 3623.7 | 3618.7 |
| 25° | 3747.3 | 3758.5 | 3756.1 | 3756.1 | 3763.4 | 3772.3 | 3773.5 | 3781.0 | 3779.8 | 3785.9 | 3782.3 |
| 27.5° | 3922.1 | 3939.5 | 3944.5 | 3943.3 | 3948.3 | 3957.0 | 3959.5 | 3968.4 | 3963.3 | 3968.4 | 3965.7 |
| 30° | 4131.8 | 4139.4 | 4149.5 | 4153.1 | 4159.3 | 4168.0 | 4168.0 | 4169.4 | 4163.1 | 4170.7 | 4174.3 |
| 32.5° | 4349.1 | 4362.9 | 4372.9 | 4395.3 | 4406.5 | 4412.8 | 4411.5 | 4414.1 | 4407.9 | 4417.9 | 4425.3 |
| 35° | 4636.3 | 4646.4 | 4662.6 | 4680.1 | 4695.0 | 4693.9 | 4690.1 | 4691.3 | 4691.3 | 4700.0 | 4707.5 |
| 37.5° | 4982.2 | 4984.8 | 5006.0 | 5031.0 | 5038.5 | 5031.0 | 5008.5 | 5003.5 | 4992.2 | 5003.5 | 5016.0 |
| 40° | 5348.1 | 5356.9 | 5399.4 | 5415.5 | 5419.3 | 5405.6 | 5373.1 | 5354.3 | 5329.4 | 5343.1 | 5360.5 |
| 42.5° | 5731.5 | 5749.0 | 5787.6 | 5816.3 | 5828.8 | 5820.1 | 5775.2 | 5746.5 | 5713.9 | 5721.5 | 5738.9 |
| 45° | 6155.9 | 6177.3 | 6232.3 | 6259.6 | 6283.4 | 6269.6 | 6226.0 | 6182.2 | 6131.0 | 6134.7 | 6162.3 |
| 47.5° | 6630.5 | 6651.7 | 6722.8 | 6769.1 | 6781.6 | 6779.1 | 6730.5 | 6670.5 | 6600.6 | 6598.1 | 6621.8 |
| 50° | 7162.5 | 7183.7 | 7272.3 | 7343.5 | 7379.7 | 7376.0 | 7318.5 | 7233.6 | 7148.7 | 7150.0 | 7180.0 |
| 52.5° | 7681.9 | 7708.0 | 7800.5 | 7923.0 | 7994.0 | 8045.2 | 8010.2 | 7930.3 | 7826.8 | 7829.3 | 7856.7 |
| 55° | 8168.8 | 8212.6 | 8318.8 | 8484.9 | 8617.1 | 8760.7 | 8802.0 | 8799.4 | 8737.0 | 8754.5 | 8782.0 |
| 57.5° | 8404.9 | 8469.8 | 8633.4 | 8895.6 | 9165.2 | 9457.5 | 9704.7 | 9889.5 | 9968.2 | 10086.9 | 10059.4 |
| 60° | 7957.8 | 8061.5 | 8302.5 | 8688.3 | 9221.6 | 9831.0 | 10483.8 | 11122.0 | 11666.4 | 12077.3 | 11841.3 |
| 62.5° | 6515.6 | 6650.5 | 6942.7 | 7437.2 | 8243.7 | 9219.0 | 10468.9 | 11977.3 | 13620.6 | 14612.1 | 13904.1 |
| 65° | 4077.0 | 4216.9 | 4514.1 | 5043.4 | 5987.5 | 7199.8 | 8895.6 | 11395.4 | 14465.9 | 15960.6 | 14519.7 |
| 67.5° | 1589.6 | 1665.7 | 1826.9 | 2165.3 | 2874.4 | 3953.4 | 5655.3 | 8492.2 | 12164.7 | 13474.5 | 11938.7 |
| 70° | 796.6 | 804.2 | 834.2 | 896.6 | 1049.0 | 1362.3 | 2072.7 | 3937.1 | 6976.3 | 8426.1 | 6725.4 |
| 72.5° | 575.6 | 576.9 | 591.9 | 619.3 | 668.0 | 738.0 | 872.9 | 1204.9 | 2268.8 | 3467.5 | 2126.5 |
| 75° | 440.8 | 445.7 | 454.5 | 469.5 | 495.8 | 530.7 | 579.3 | 694.3 | 860.3 | 997.7 | 839.0 |
| 77.5° | 339.6 | 349.6 | 355.9 | 369.7 | 385.8 | 409.5 | 423.3 | 466.9 | 543.1 | 572.0 | 563.1 |
| 80° | 258.5 | 267.2 | 281.0 | 292.2 | 303.4 | 314.6 | 309.6 | 329.7 | 369.7 | 393.4 | 380.8 |
| 82.5° | 164.7 | 174.8 | 214.8 | 224.8 | 229.7 | 237.2 | 228.4 | 229.7 | 247.3 | 262.2 | 247.3 |
| 85° | 106.1 | 112.4 | 136.2 | 148.6 | 149.8 | 154.9 | 151.1 | 142.3 | 142.3 | 129.8 | 146.2 |
| 87.5° | 48.7 | 49.9 | 61.2 | 72.5 | 74.9 | 67.5 | 66.1 | 63.7 | 51.3 | 48.7 | 52.5 |
| 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° | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 | 3016.8 |
| 2.5° | 3015.6 | 3018.0 | 3019.4 | 3023.1 | 3024.4 | 3024.4 | 3025.5 | 3028.0 |
| 5° | 3039.2 | 3043.1 | 3044.3 | 3049.2 | 3050.6 | 3049.2 | 3051.8 | 3053.0 |
| 7.5° | 3081.7 | 3088.1 | 3090.4 | 3095.5 | 3091.7 | 3096.7 | 3098.0 | 3098.0 |
| 10° | 3144.2 | 3150.4 | 3151.7 | 3156.6 | 3154.2 | 3156.6 | 3156.6 | 3154.2 |
| 12.5° | 3226.6 | 3227.8 | 3224.0 | 3227.8 | 3222.8 | 3225.4 | 3221.6 | 3219.0 |
| 15° | 3317.7 | 3313.9 | 3305.3 | 3305.3 | 3297.8 | 3299.0 | 3297.8 | 3296.5 |
| 17.5° | 3406.5 | 3398.8 | 3392.7 | 3390.2 | 3383.9 | 3382.7 | 3379.0 | 3379.0 |
| 20° | 3503.7 | 3500.1 | 3496.4 | 3491.4 | 3485.1 | 3478.9 | 3477.6 | 3480.0 |
| 22.5° | 3621.2 | 3619.9 | 3619.9 | 3617.5 | 3608.8 | 3602.5 | 3598.7 | 3598.7 |
| 25° | 3778.5 | 3767.3 | 3767.3 | 3766.1 | 3762.3 | 3758.5 | 3751.1 | 3754.7 |
| 27.5° | 3955.9 | 3949.6 | 3954.6 | 3953.4 | 3949.6 | 3949.6 | 3944.5 | 3944.5 |
| 30° | 4174.3 | 4171.9 | 4179.4 | 4173.0 | 4160.6 | 4159.3 | 4154.3 | 4148.2 |
| 32.5° | 4426.6 | 4424.1 | 4435.3 | 4427.8 | 4407.9 | 4396.7 | 4386.7 | 4381.7 |
| 35° | 4707.5 | 4708.7 | 4722.5 | 4717.4 | 4695.0 | 4687.5 | 4670.1 | 4667.6 |
| 37.5° | 5014.7 | 5034.7 | 5058.4 | 5063.3 | 5044.7 | 5039.8 | 5020.9 | 5010.9 |
| 40° | 5375.5 | 5401.8 | 5438.0 | 5446.8 | 5426.8 | 5423.0 | 5396.7 | 5383.1 |
| 42.5° | 5760.1 | 5805.0 | 5850.0 | 5857.6 | 5837.5 | 5817.7 | 5792.6 | 5782.6 |
| 45° | 6189.7 | 6243.4 | 6302.1 | 6317.2 | 6287.1 | 6263.4 | 6231.0 | 6231.0 |
| 47.5° | 6671.7 | 6739.2 | 6805.3 | 6846.5 | 6819.0 | 6794.2 | 6755.3 | 6730.5 |
| 50° | 7241.1 | 7333.6 | 7419.7 | 7462.1 | 7418.5 | 7371.0 | 7303.5 | 7281.0 |
| 52.5° | 7955.3 | 8055.2 | 8130.2 | 8107.7 | 8040.3 | 7974.1 | 7900.5 | 7870.4 |
| 55° | 8866.9 | 8900.5 | 8900.5 | 8815.6 | 8680.9 | 8569.7 | 8453.6 | 8414.9 |
| 57.5° | 10006.8 | 9877.0 | 9677.4 | 9423.8 | 9105.4 | 8828.2 | 8640.8 | 8552.3 |
| 60° | 11346.9 | 10722.3 | 10016.9 | 9323.9 | 8754.5 | 8285.0 | 8006.6 | 7879.2 |
| 62.5° | 12239.5 | 10606.3 | 9192.7 | 8080.3 | 7261.1 | 6695.4 | 6310.9 | 6160.9 |
| 65° | 11439.1 | 8845.7 | 6952.6 | 5621.6 | 4728.8 | 4153.1 | 3772.3 | 3632.3 |
| 67.5° | 8378.6 | 5542.9 | 3702.4 | 2653.5 | 1944.2 | 1550.8 | 1394.8 | 1329.9 |
| 70° | 3761.1 | 1951.7 | 1196.3 | 934.0 | 805.4 | 739.2 | 710.5 | 700.5 |
| 72.5° | 1133.8 | 820.4 | 691.8 | 624.3 | 573.2 | 540.7 | 517.0 | 514.5 |
| 75° | 684.2 | 569.3 | 505.7 | 465.7 | 433.3 | 407.1 | 394.5 | 390.9 |
| 77.5° | 478.3 | 418.3 | 388.3 | 359.6 | 334.7 | 314.6 | 303.4 | 294.6 |
| 80° | 335.8 | 307.2 | 293.4 | 277.1 | 261.0 | 242.3 | 226.1 | 218.5 |
| 82.5° | 224.8 | 218.5 | 218.5 | 208.5 | 194.8 | 177.3 | 144.8 | 137.4 |
| 85° | 144.8 | 143.5 | 146.2 | 142.3 | 132.4 | 113.6 | 93.7 | 88.7 |
| 87.5° | 67.5 | 68.7 | 76.1 | 74.9 | 72.5 | 59.9 | 47.4 | 44.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)