

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: P269629

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL2-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30939.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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

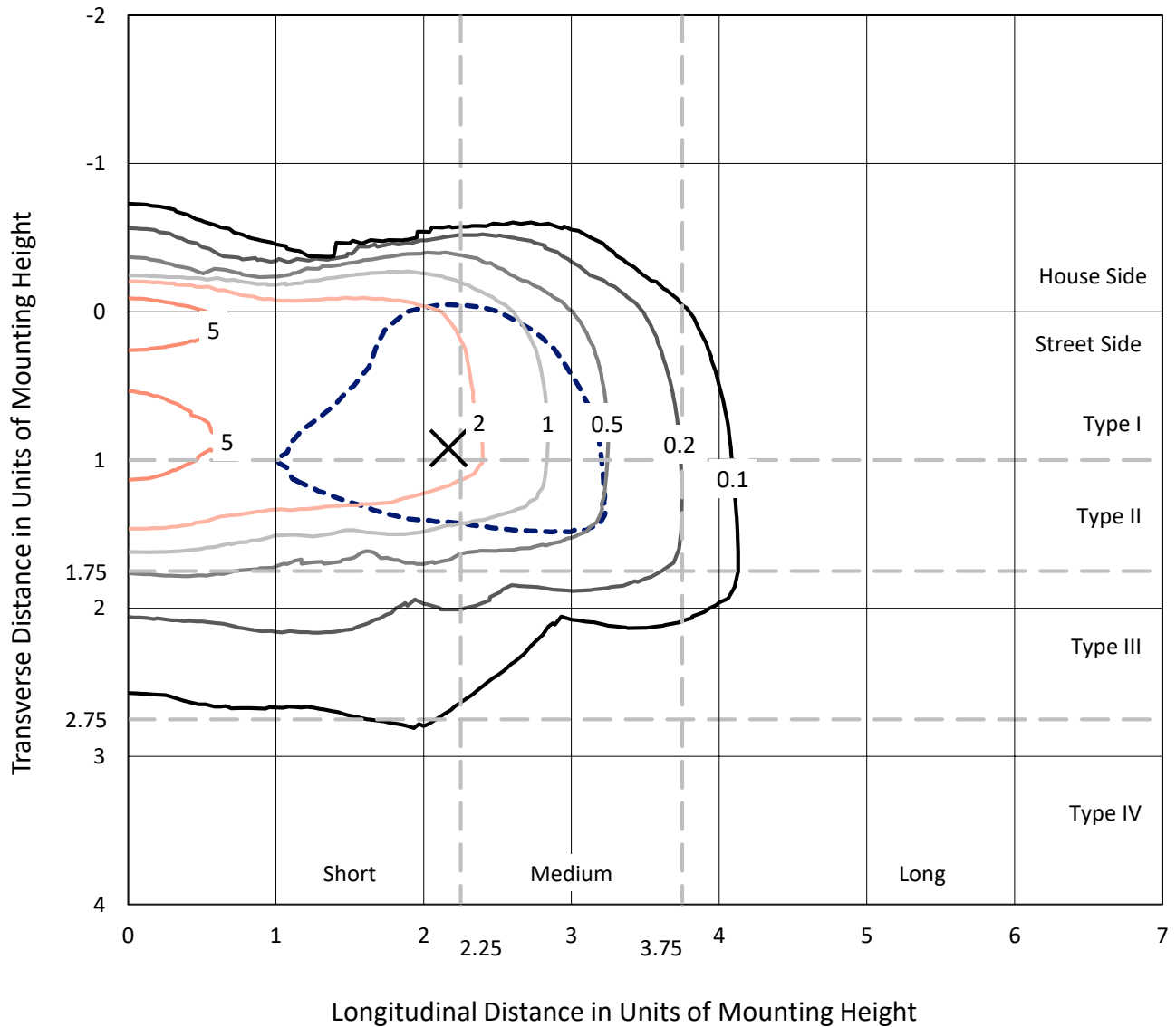


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

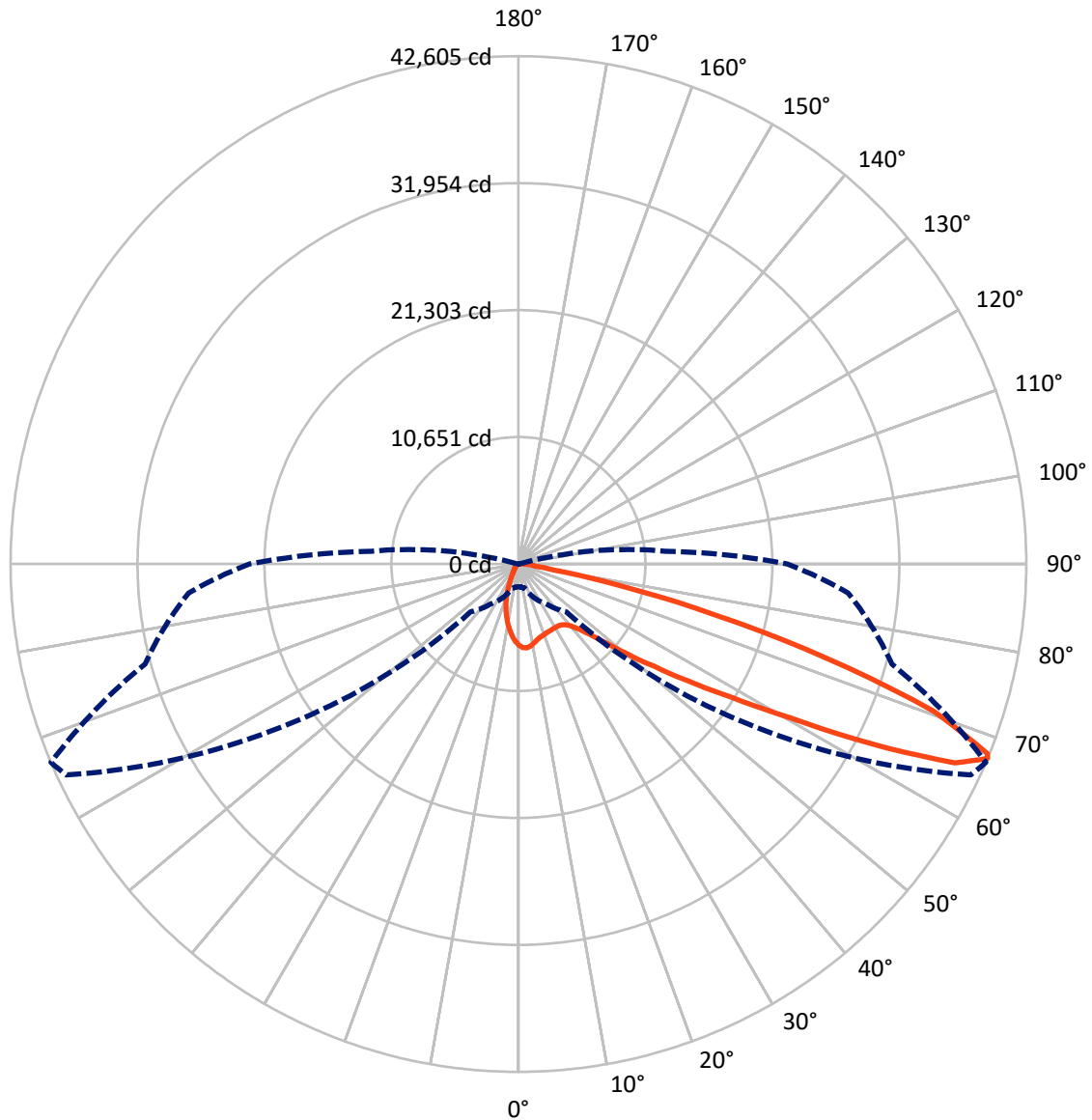


Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3212.4 | 0.0 | 3212.4 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 27726.8 | 0.0 | 27726.8 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 30939.2 | 0.0 | 30939.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 555.2 | 1.8 |
| 10°-20° | 1181.7 | 3.8 |
| 20°-30° | 1718.1 | 5.6 |
| 30°-40° | 2680.2 | 8.7 |
| 40°-50° | 4747.9 | 15.3 |
| 50°-60° | 7513.0 | 24.3 |
| 60°-70° | 8605.1 | 27.8 |
| 70°-80° | 3569.4 | 11.5 |
| 80°-90° | 368.7 | 1.2 |
| 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° | 30939.2 | 100.0 |
| 0°-180° | 30939.2 | 100.0 |



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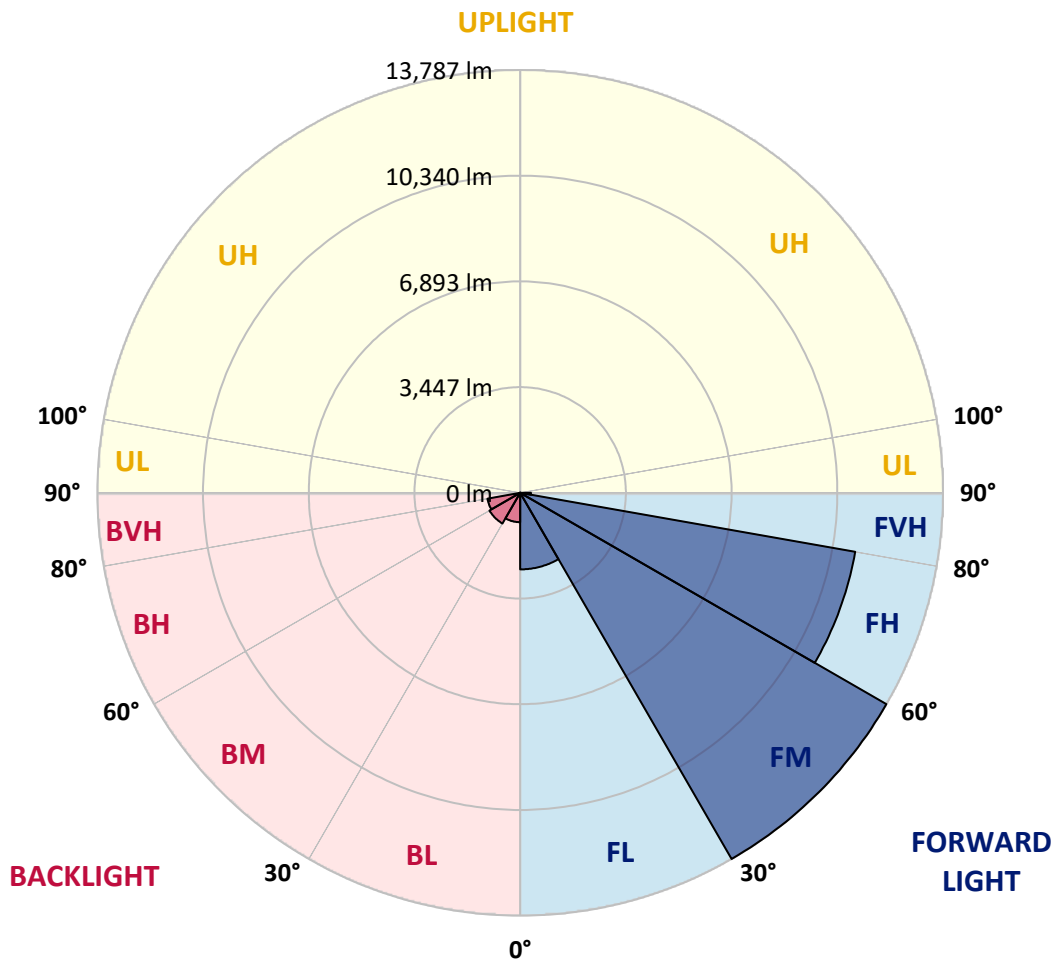
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2496.3 | 8.1 | | | |
| FM (30°-60°) | 13786.6 | 44.6 | | | |
| FH (60°-80°) | 11091.8 | 35.9 | | | G4/12000 |
| FVH (80°-90°) | 352.1 | 1.1 | | | G3/500 |
| BL (0°-30°) | 958.6 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 1154.5 | 3.7 | B2/2500 | | |
| BH (60°-80°) | 1082.7 | 3.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 16.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 |
| 2.5° | 7054.2 | 7068.7 | 7066.8 | 7077.7 | 7103.0 | 7104.8 | 7079.5 | 7030.8 | 7020.0 | 6956.7 | 6846.7 |
| 5° | 6505.6 | 6547.1 | 6572.4 | 6675.2 | 6790.7 | 6929.7 | 7034.4 | 7072.3 | 7066.8 | 7021.7 | 6855.8 |
| 7.5° | 5879.4 | 5921.0 | 5949.8 | 6070.7 | 6224.0 | 6462.3 | 6734.9 | 6958.6 | 6978.5 | 7027.3 | 6848.5 |
| 10° | 5462.6 | 5469.8 | 5509.5 | 5624.9 | 5785.7 | 6029.2 | 6354.0 | 6745.6 | 6805.2 | 6983.9 | 6830.4 |
| 12.5° | 5119.7 | 5125.1 | 5177.4 | 5301.9 | 5473.5 | 5718.8 | 6059.8 | 6512.8 | 6604.9 | 6929.7 | 6826.8 |
| 15° | 4876.1 | 4895.9 | 4942.8 | 5072.8 | 5255.1 | 5498.6 | 5848.8 | 6341.5 | 6451.4 | 6909.9 | 6859.4 |
| 17.5° | 4794.9 | 4816.5 | 4830.9 | 4924.8 | 5090.9 | 5329.0 | 5688.2 | 6229.6 | 6354.0 | 6920.7 | 6922.5 |
| 20° | 4879.7 | 4895.9 | 4863.5 | 4886.9 | 4989.7 | 5202.8 | 5552.9 | 6133.8 | 6281.8 | 6933.3 | 7003.7 |
| 22.5° | 5195.4 | 5202.8 | 5114.3 | 5011.5 | 4993.4 | 5110.6 | 5446.3 | 6058.1 | 6216.9 | 6967.7 | 7099.3 |
| 25° | 5736.8 | 5724.2 | 5579.8 | 5357.9 | 5148.5 | 5094.4 | 5383.2 | 6011.2 | 6184.4 | 7003.7 | 7198.6 |
| 27.5° | 6390.2 | 6408.1 | 6209.7 | 5886.7 | 5487.8 | 5202.8 | 5374.1 | 5991.3 | 6170.0 | 7029.0 | 7285.3 |
| 30° | 7184.1 | 7209.4 | 6982.0 | 6576.0 | 6003.9 | 5469.8 | 5457.2 | 5987.7 | 6160.9 | 7012.7 | 7292.4 |
| 32.5° | 7994.5 | 8025.1 | 7846.4 | 7427.7 | 6693.4 | 5917.3 | 5644.8 | 6027.4 | 6179.0 | 6956.7 | 7250.8 |
| 35° | 8842.6 | 8885.9 | 8766.7 | 8407.6 | 7628.0 | 6563.3 | 5975.0 | 6148.3 | 6263.8 | 6951.4 | 7209.4 |
| 37.5° | 10013.8 | 10053.6 | 9829.8 | 9448.9 | 8759.6 | 7429.6 | 6505.6 | 6375.7 | 6464.2 | 7038.0 | 7220.2 |
| 40° | 11762.4 | 11757.0 | 11179.5 | 10596.6 | 10002.9 | 8530.5 | 7250.8 | 6787.1 | 6832.2 | 7299.6 | 7353.9 |
| 42.5° | 13668.2 | 13659.1 | 12805.6 | 11919.5 | 11383.5 | 9885.7 | 8230.8 | 7498.2 | 7467.5 | 7781.5 | 7700.4 |
| 45° | 15137.1 | 15135.4 | 14438.6 | 13440.8 | 13045.5 | 11441.3 | 9497.7 | 8487.0 | 8440.1 | 8564.7 | 8339.1 |
| 47.5° | 15763.3 | 15774.1 | 15424.1 | 14722.1 | 14888.1 | 13545.5 | 11094.7 | 9920.0 | 9849.6 | 9799.0 | 9456.2 |
| 50° | 15276.0 | 15297.6 | 15326.6 | 15189.4 | 16239.6 | 16373.2 | 13236.9 | 11939.4 | 11905.1 | 11679.5 | 11143.5 |
| 52.5° | 13684.4 | 13794.5 | 14133.8 | 14568.6 | 16709.0 | 19087.4 | 16595.2 | 14447.7 | 14263.6 | 14023.7 | 13433.6 |
| 55° | 11002.7 | 11123.6 | 11767.8 | 12823.6 | 16010.5 | 20870.3 | 21301.7 | 17681.6 | 17374.7 | 16658.3 | 15806.7 |
| 57.5° | 7281.7 | 7469.2 | 8404.2 | 9746.7 | 13982.2 | 21157.3 | 25997.3 | 22169.7 | 21101.4 | 19139.7 | 18179.7 |
| 60° | 4011.7 | 4192.1 | 5206.2 | 6422.6 | 10098.7 | 19738.8 | 29155.3 | 28013.0 | 26125.3 | 21913.4 | 21061.7 |
| 62.5° | 2470.5 | 2568.0 | 3316.9 | 4448.3 | 6056.4 | 15579.2 | 29808.5 | 35356.0 | 33170.6 | 25484.7 | 24542.8 |
| 65° | 1967.0 | 2008.5 | 2374.8 | 3636.2 | 4341.9 | 9266.6 | 27699.0 | 40953.9 | 40224.8 | 29808.5 | 27659.4 |
| 67° | 1909.3 | 1925.5 | 2098.8 | 3122.0 | 4092.9 | 5680.9 | 23205.6 | 41865.1 | 42605.2 | 32425.3 | 27756.8 |
| 67.5° | 1922.0 | 1940.0 | 2104.2 | 2979.4 | 4085.6 | 5220.8 | 21657.1 | 41506.1 | 42441.0 | 32632.8 | 27325.5 |
| 70° | 1853.4 | 1909.3 | 2409.2 | 2977.6 | 3885.3 | 4338.3 | 12969.8 | 35962.3 | 36935.0 | 30321.1 | 23185.7 |
| 72.5° | 656.9 | 660.6 | 1041.2 | 2409.2 | 4224.5 | 4385.3 | 6512.8 | 26363.5 | 27083.7 | 23194.6 | 16716.1 |
| 75° | 389.9 | 332.1 | 346.4 | 685.8 | 4037.0 | 4258.9 | 3757.3 | 16846.0 | 17115.0 | 13291.1 | 8465.4 |
| 77.5° | 269.0 | 234.5 | 241.9 | 303.2 | 1537.4 | 4199.3 | 2984.8 | 8784.9 | 8498.0 | 4661.3 | 1802.8 |
| 80° | 153.4 | 135.4 | 144.4 | 265.3 | 559.5 | 3917.8 | 2815.2 | 3562.3 | 3037.2 | 790.4 | 498.1 |
| 82.5° | 81.1 | 68.6 | 83.1 | 218.4 | 389.9 | 2441.7 | 2820.6 | 1721.6 | 1364.3 | 267.1 | 339.3 |
| 85° | 28.8 | 23.4 | 39.7 | 149.7 | 259.9 | 748.8 | 2614.8 | 1447.3 | 1137.0 | 130.0 | 258.1 |
| 87.5° | 5.4 | 5.4 | 16.2 | 61.4 | 104.7 | 229.2 | 1546.5 | 859.0 | 575.6 | 77.7 | 176.8 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 | 6823.3 |
| 2.5° | 6801.5 | 6724.1 | 6619.3 | 6491.2 | 6339.6 | 6206.1 | 6106.8 | 6003.9 | 5982.4 | 5946.2 | 5940.9 |
| 5° | 6756.5 | 6622.9 | 6363.1 | 6065.3 | 5747.6 | 5460.7 | 5228.0 | 5020.4 | 4928.5 | 4849.1 | 4840.0 |
| 7.5° | 6689.7 | 6489.4 | 6047.3 | 5567.2 | 5070.9 | 4619.9 | 4237.2 | 3966.6 | 3717.5 | 3598.4 | 3580.4 |
| 10° | 6612.2 | 6325.1 | 5691.8 | 5025.8 | 4340.2 | 3703.1 | 3134.6 | 2658.3 | 2369.5 | 2198.1 | 2176.4 |
| 12.5° | 6539.9 | 6164.6 | 5329.0 | 4464.7 | 3553.2 | 2701.6 | 1970.6 | 1515.9 | 1212.7 | 1090.1 | 1075.5 |
| 15° | 6505.6 | 6034.6 | 4989.7 | 3890.7 | 2730.4 | 1719.7 | 1077.3 | 833.7 | 734.5 | 705.6 | 703.8 |
| 17.5° | 6502.0 | 5924.5 | 4657.7 | 3297.0 | 1912.9 | 999.8 | 701.9 | 640.6 | 620.8 | 613.5 | 613.5 |
| 20° | 6500.2 | 5819.8 | 4325.7 | 2681.7 | 1214.5 | 666.0 | 584.6 | 570.2 | 555.8 | 546.8 | 546.8 |
| 22.5° | 6520.1 | 5726.1 | 3979.2 | 2053.6 | 765.1 | 539.6 | 514.3 | 499.8 | 481.9 | 469.3 | 467.4 |
| 25° | 6539.9 | 5653.8 | 3625.5 | 1461.7 | 554.1 | 469.3 | 443.9 | 424.1 | 398.8 | 382.6 | 380.8 |
| 27.5° | 6543.6 | 5563.7 | 3246.6 | 978.2 | 463.7 | 409.6 | 377.2 | 346.4 | 317.6 | 301.4 | 299.6 |
| 30° | 6489.4 | 5412.1 | 2826.0 | 660.6 | 409.6 | 355.5 | 312.3 | 279.7 | 252.7 | 239.9 | 239.9 |
| 32.5° | 6382.9 | 5224.4 | 2364.0 | 498.1 | 364.5 | 305.0 | 258.1 | 227.5 | 209.3 | 203.9 | 202.1 |
| 35° | 6287.2 | 5022.2 | 1889.4 | 422.3 | 326.7 | 258.1 | 211.1 | 191.2 | 180.5 | 178.7 | 176.8 |
| 37.5° | 6231.4 | 4859.8 | 1443.7 | 382.6 | 290.5 | 216.5 | 178.7 | 164.2 | 158.8 | 155.1 | 157.1 |
| 40° | 6274.7 | 4724.5 | 1066.5 | 350.1 | 254.5 | 180.5 | 151.5 | 144.4 | 139.0 | 137.1 | 137.1 |
| 42.5° | 6464.2 | 4701.0 | 792.2 | 321.2 | 220.2 | 149.7 | 131.7 | 126.3 | 122.7 | 120.9 | 122.7 |
| 45° | 6962.3 | 4845.4 | 615.3 | 294.1 | 185.9 | 126.3 | 111.8 | 110.1 | 108.2 | 108.2 | 108.2 |
| 47.5° | 7711.1 | 5143.2 | 512.6 | 263.5 | 155.1 | 108.2 | 97.5 | 95.6 | 93.9 | 95.6 | 95.6 |
| 50° | 8979.7 | 5688.2 | 458.3 | 232.8 | 128.1 | 92.0 | 83.1 | 83.1 | 83.1 | 83.1 | 84.8 |
| 52.5° | 10908.8 | 6760.0 | 422.3 | 202.1 | 104.7 | 77.7 | 70.3 | 70.3 | 72.1 | 72.1 | 74.0 |
| 55° | 13058.2 | 8182.1 | 389.9 | 171.4 | 88.5 | 64.9 | 57.8 | 59.6 | 61.4 | 63.2 | 63.2 |
| 57.5° | 15389.8 | 9757.6 | 362.7 | 140.8 | 75.7 | 52.3 | 48.7 | 50.6 | 52.3 | 56.0 | 56.0 |
| 60° | 18203.2 | 11462.9 | 323.0 | 110.1 | 63.2 | 41.5 | 37.9 | 41.5 | 46.9 | 50.6 | 52.3 |
| 62.5° | 21292.6 | 13112.3 | 272.5 | 86.6 | 52.3 | 32.5 | 30.7 | 37.9 | 45.2 | 48.7 | 50.6 |
| 65° | 23404.0 | 13630.3 | 209.3 | 70.3 | 39.7 | 23.4 | 25.2 | 34.2 | 43.3 | 48.7 | 48.7 |
| 67° | 22548.6 | 12358.1 | 171.4 | 59.6 | 32.5 | 18.1 | 23.4 | 34.2 | 43.3 | 46.9 | 48.7 |
| 67.5° | 21954.9 | 11860.0 | 164.2 | 57.8 | 30.7 | 18.1 | 23.4 | 34.2 | 43.3 | 48.7 | 48.7 |
| 70° | 17863.9 | 8909.4 | 137.1 | 43.3 | 25.2 | 16.2 | 19.9 | 32.5 | 41.5 | 46.9 | 46.9 |
| 72.5° | 12412.2 | 5493.2 | 122.7 | 30.7 | 21.6 | 14.5 | 18.1 | 30.7 | 39.7 | 45.2 | 46.9 |
| 75° | 5901.1 | 1988.7 | 104.7 | 23.4 | 19.9 | 12.7 | 16.2 | 30.7 | 39.7 | 45.2 | 45.2 |
| 77.5° | 1203.6 | 462.0 | 84.8 | 19.9 | 16.2 | 12.7 | 14.5 | 28.8 | 37.9 | 43.3 | 43.3 |
| 80° | 395.3 | 178.7 | 63.2 | 18.1 | 16.2 | 12.7 | 14.5 | 27.0 | 37.9 | 41.5 | 43.3 |
| 82.5° | 285.1 | 90.2 | 41.5 | 18.1 | 16.2 | 12.7 | 12.7 | 27.0 | 36.1 | 41.5 | 41.5 |
| 85° | 218.4 | 63.2 | 27.0 | 18.1 | 16.2 | 12.7 | 12.7 | 25.2 | 34.2 | 39.7 | 39.7 |
| 87.5° | 144.4 | 25.2 | 21.6 | 18.1 | 16.2 | 12.7 | 12.7 | 25.2 | 32.5 | 37.9 | 39.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)