

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: P317891

Luminaire Tested: **GLEON-SA7C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37604 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

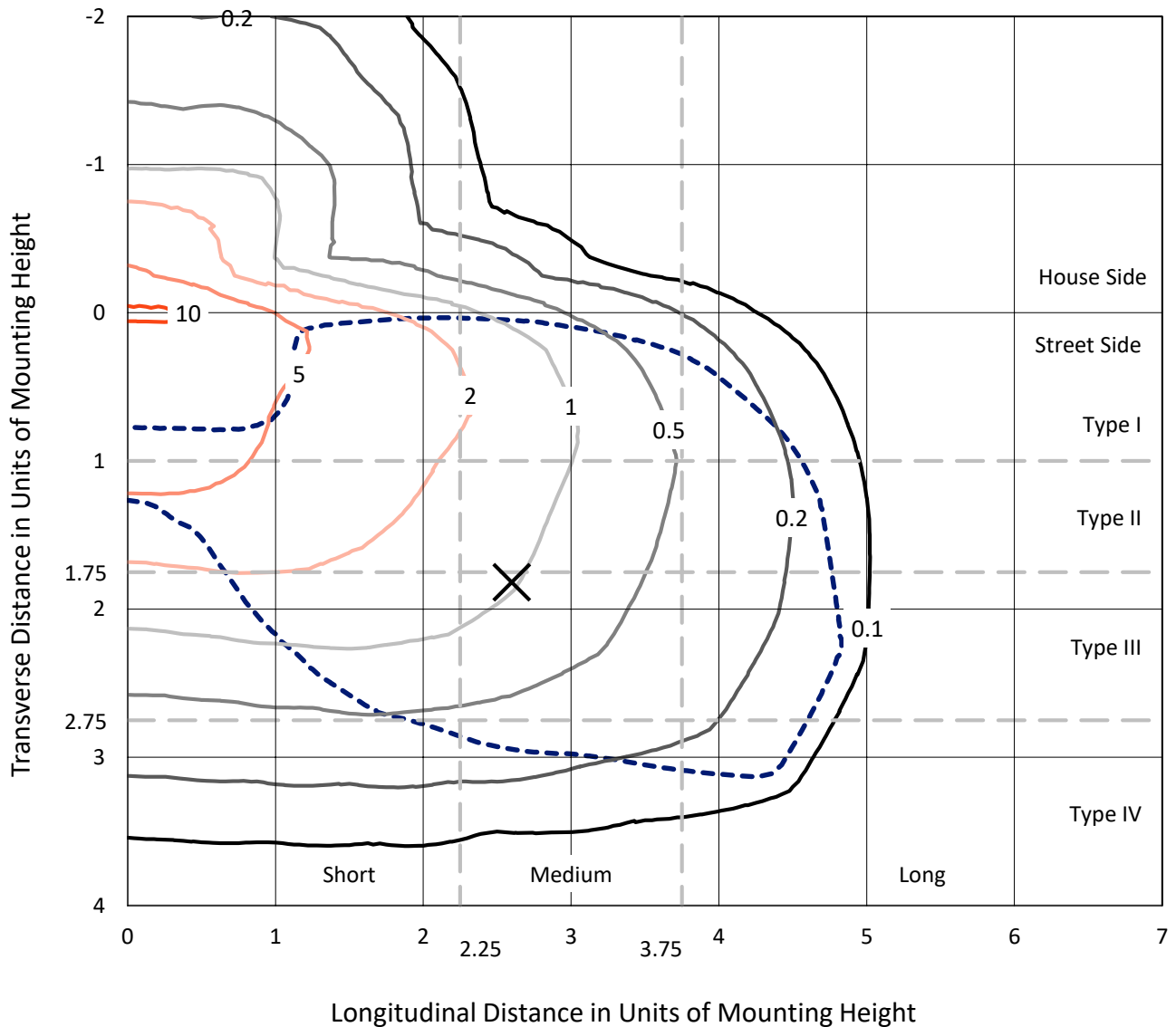
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

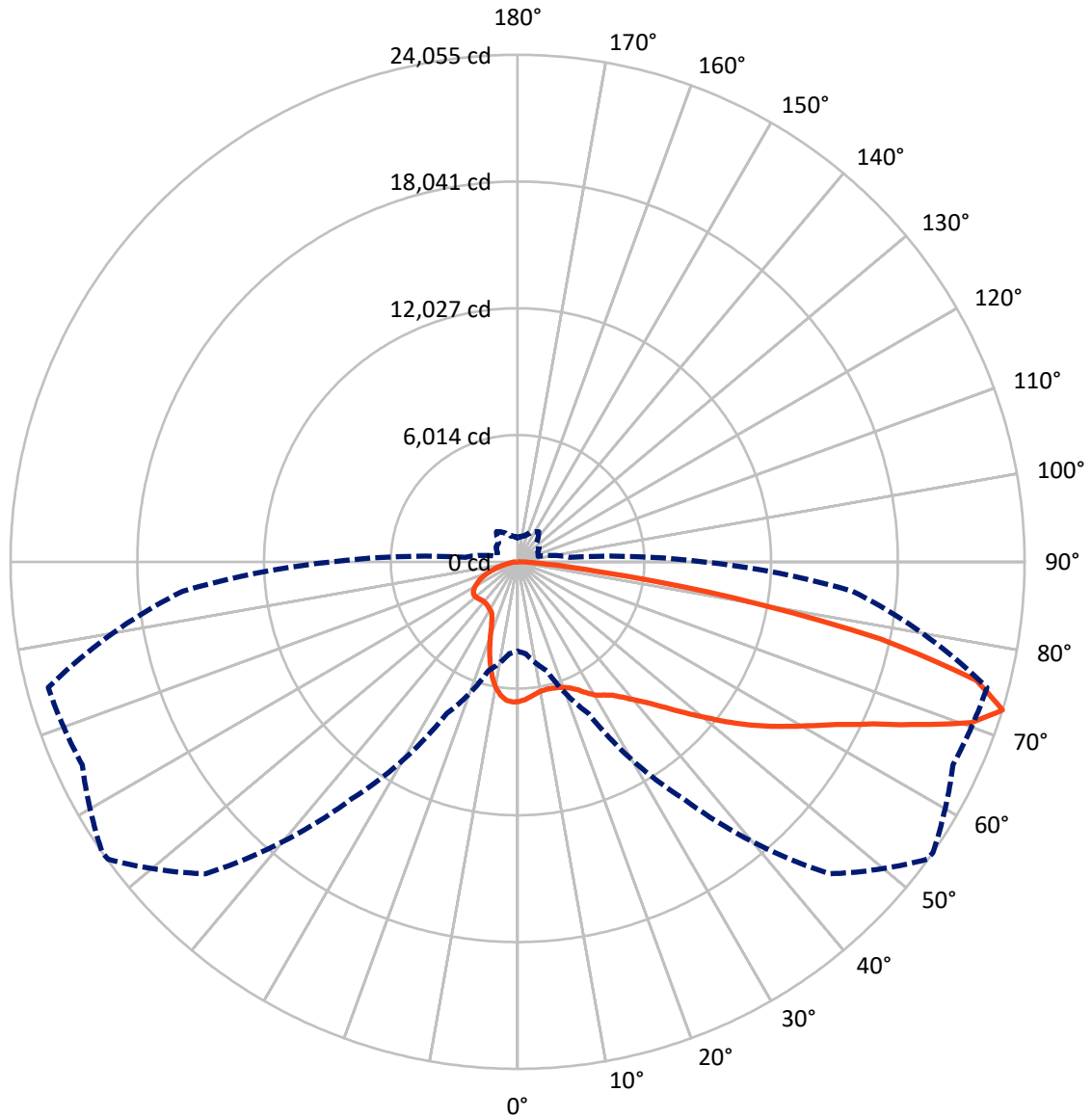
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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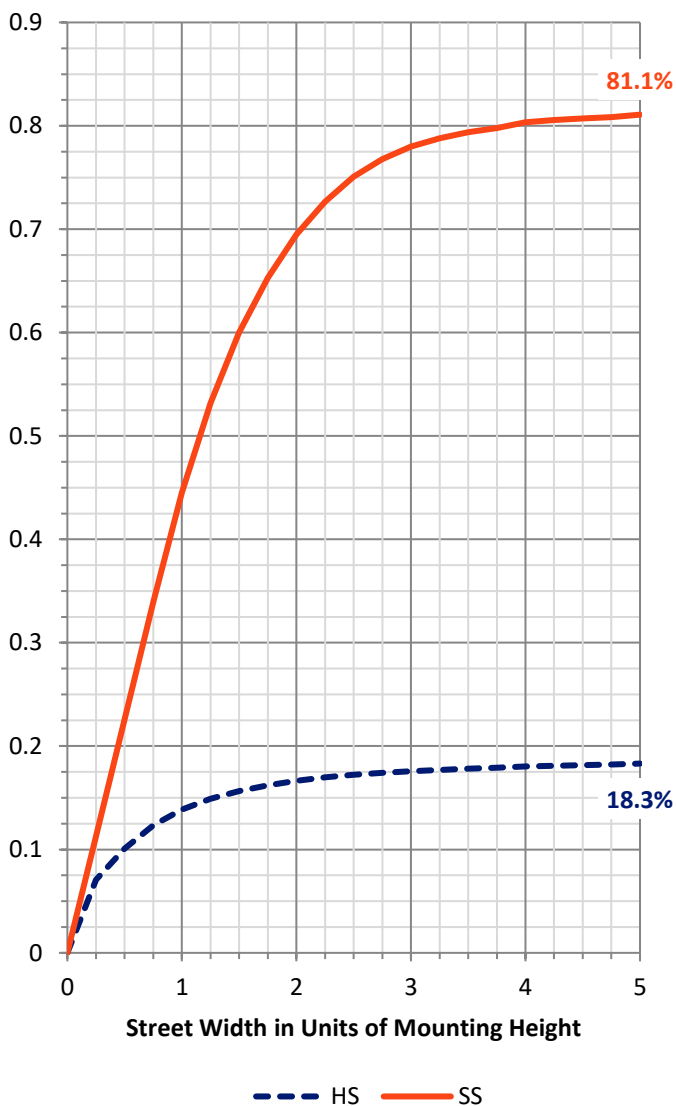
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6989.4 | 0.0 | 6989.4 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 30614.6 | 0.0 | 30614.6 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 37604.0 | 0.0 | 37604.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 600.2 | 1.6 |
| 10°-20° | 1597.9 | 4.2 |
| 20°-30° | 2634.5 | 7.0 |
| 30°-40° | 3897.1 | 10.4 |
| 40°-50° | 5439.5 | 14.5 |
| 50°-60° | 7082.4 | 18.8 |
| 60°-70° | 8704.0 | 23.1 |
| 70°-80° | 6822.9 | 18.1 |
| 80°-90° | 825.7 | 2.2 |
| 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° | 37604.0 | 100.0 |
| 0°-180° | 37604.0 | 100.0 |

Coefficient of Utilization

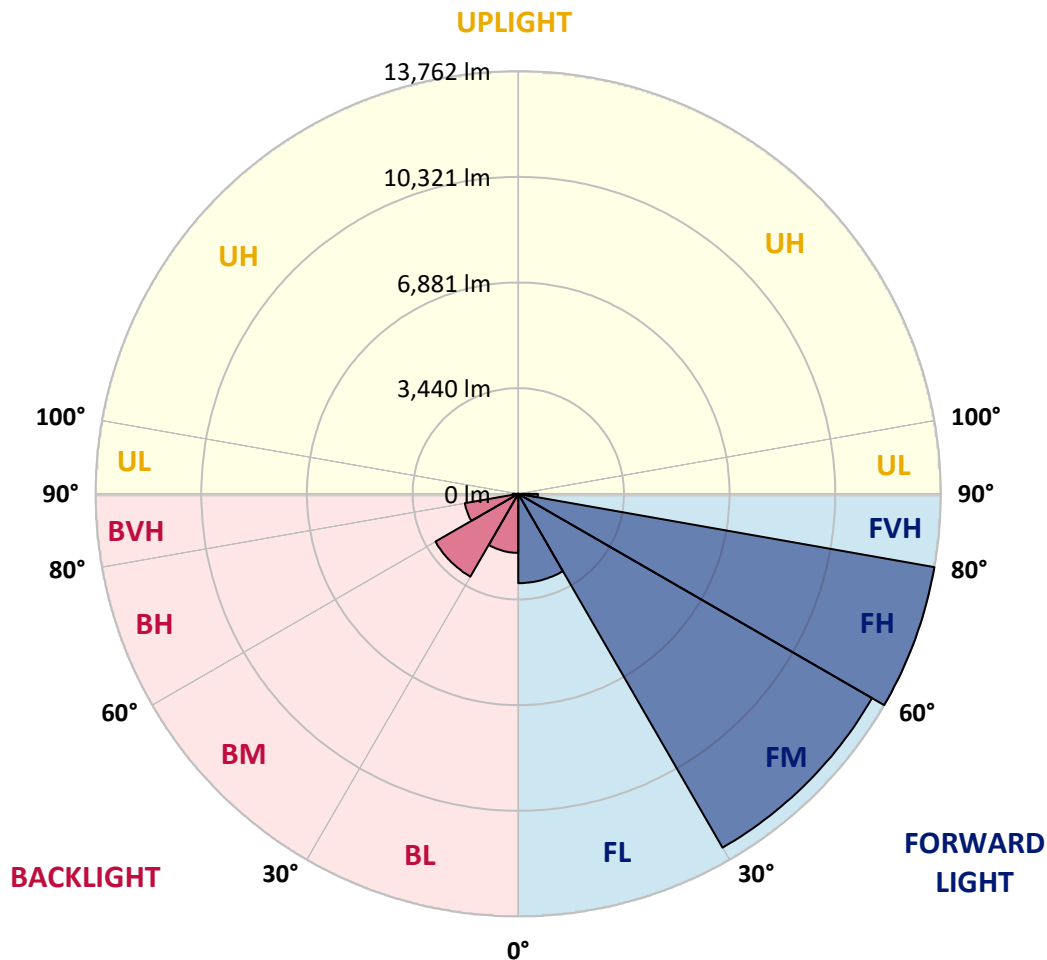


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2909.4 | 7.7 | | | |
| FM (30°-60°) | 13305.0 | 35.4 | | | |
| FH (60°-80°) | 13761.8 | 36.6 | | | G5 |
| FVH (80°-90°) | 638.4 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1923.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3113.9 | 8.3 | B3/5000 | | |
| BH (60°-80°) | 1765.1 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 187.3 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 |
| 2.5° | 6416.6 | 6401.4 | 6420.4 | 6447.1 | 6476.3 | 6515.7 | 6538.5 | 6548.7 | 6588.1 | 6603.3 | 6636.3 |
| 5° | 6119.4 | 6111.8 | 6143.5 | 6189.3 | 6254.0 | 6345.5 | 6419.2 | 6433.1 | 6537.3 | 6610.9 | 6678.3 |
| 7.5° | 5903.5 | 5903.5 | 5940.3 | 5994.9 | 6067.3 | 6190.5 | 6294.7 | 6313.7 | 6490.3 | 6649.0 | 6773.5 |
| 10° | 5732.0 | 5738.4 | 5781.6 | 5846.3 | 5931.4 | 6062.3 | 6200.7 | 6222.3 | 6477.6 | 6738.0 | 6936.1 |
| 12.5° | 5617.7 | 5633.0 | 5672.3 | 5730.8 | 5836.2 | 5994.9 | 6170.2 | 6199.4 | 6504.3 | 6865.0 | 7131.7 |
| 15° | 5690.1 | 5715.5 | 5719.3 | 5743.5 | 5801.9 | 5974.6 | 6188.0 | 6218.5 | 6561.4 | 6994.5 | 7354.0 |
| 17.5° | 6007.6 | 6016.5 | 5977.2 | 5926.4 | 5898.4 | 6008.9 | 6241.3 | 6273.1 | 6630.0 | 7122.8 | 7567.3 |
| 20° | 6490.3 | 6485.2 | 6400.1 | 6262.9 | 6120.7 | 6138.5 | 6329.0 | 6362.0 | 6722.7 | 7235.8 | 7780.7 |
| 22.5° | 7099.9 | 7082.2 | 6951.3 | 6698.6 | 6456.0 | 6354.4 | 6482.7 | 6510.6 | 6862.4 | 7397.1 | 8009.3 |
| 25° | 7839.1 | 7799.8 | 7627.0 | 7287.9 | 6931.0 | 6669.4 | 6713.8 | 6740.5 | 7065.6 | 7577.5 | 8218.9 |
| 27.5° | 8619.0 | 8579.6 | 8359.9 | 7949.6 | 7474.6 | 7066.9 | 7032.6 | 7055.5 | 7296.8 | 7710.9 | 8373.9 |
| 30° | 9434.4 | 9392.5 | 9191.8 | 8732.0 | 8051.3 | 7478.4 | 7329.8 | 7338.7 | 7459.4 | 7783.3 | 8500.9 |
| 32.5° | 10253.6 | 10214.3 | 9989.4 | 9456.0 | 8677.4 | 7920.4 | 7544.5 | 7533.0 | 7557.2 | 7858.2 | 8644.4 |
| 35° | 11084.3 | 11099.5 | 10836.6 | 10246.0 | 9370.9 | 8412.0 | 7798.5 | 7774.4 | 7721.0 | 8011.9 | 8847.6 |
| 37.5° | 11973.4 | 11963.2 | 11622.8 | 11005.5 | 10096.1 | 8945.4 | 8163.0 | 8159.2 | 7975.0 | 8302.7 | 9166.4 |
| 40° | 12567.8 | 12574.1 | 12367.1 | 11782.8 | 10829.0 | 9536.0 | 8630.4 | 8621.5 | 8380.2 | 8738.4 | 9584.3 |
| 42.5° | 12800.2 | 12842.1 | 12895.5 | 12524.6 | 11596.1 | 10220.6 | 9188.0 | 9175.3 | 8945.4 | 9363.3 | 10075.8 |
| 45° | 12816.7 | 12900.6 | 13230.8 | 13183.8 | 12373.5 | 11004.3 | 9900.5 | 9865.0 | 9699.9 | 10193.9 | 10662.6 |
| 47.5° | 12674.5 | 12760.8 | 13309.5 | 13576.3 | 13068.2 | 11831.1 | 10733.7 | 10705.8 | 10563.5 | 11232.9 | 11297.7 |
| 50° | 12363.3 | 12445.8 | 13147.0 | 13768.0 | 13639.8 | 12626.2 | 11693.9 | 11620.3 | 11544.1 | 12433.1 | 12024.2 |
| 52.5° | 11780.3 | 11939.1 | 12929.8 | 13813.8 | 13981.4 | 13332.4 | 12703.7 | 12655.4 | 12697.3 | 13699.5 | 12751.9 |
| 55° | 10399.7 | 10577.5 | 12369.6 | 13775.7 | 14234.2 | 13925.5 | 13713.4 | 13710.9 | 13928.1 | 15028.0 | 13533.1 |
| 57.5° | 9626.2 | 9751.9 | 11229.1 | 13710.9 | 14533.9 | 14514.9 | 14713.0 | 14737.1 | 15160.1 | 16474.7 | 14351.0 |
| 60° | 9189.3 | 9321.4 | 10651.2 | 13470.8 | 14998.8 | 15276.9 | 15732.9 | 15781.2 | 16412.4 | 18076.3 | 15335.4 |
| 62.5° | 8791.7 | 8936.5 | 10293.0 | 12981.8 | 15546.2 | 16366.7 | 16954.8 | 16997.9 | 17738.4 | 19722.3 | 16286.7 |
| 65° | 8112.2 | 8276.1 | 9768.4 | 12660.5 | 16044.1 | 17787.9 | 18508.1 | 18537.3 | 19261.3 | 21447.1 | 17014.5 |
| 67.5° | 7152.0 | 7301.9 | 8779.0 | 11950.5 | 16412.4 | 19514.0 | 20573.3 | 20589.8 | 20771.4 | 22665.2 | 17386.6 |
| 70° | 6030.5 | 6087.7 | 7369.2 | 10484.8 | 15976.8 | 21128.4 | 22836.7 | 22840.5 | 22148.3 | 23445.0 | 17325.6 |
| 72.5° | 4237.1 | 4371.7 | 5349.7 | 7936.9 | 13729.9 | 20931.5 | 24011.5 | 24054.7 | 22788.4 | 23051.3 | 15941.2 |
| 75° | 2598.7 | 2740.9 | 3355.6 | 4809.9 | 8710.4 | 16462.0 | 22185.1 | 22484.8 | 21588.1 | 20553.0 | 13022.5 |
| 77.5° | 1737.5 | 1790.9 | 2189.7 | 2804.4 | 3946.2 | 9471.2 | 17056.4 | 17620.3 | 17934.0 | 14988.6 | 8328.1 |
| 80° | 969.1 | 1070.7 | 1451.7 | 1742.6 | 1755.3 | 3763.3 | 10227.0 | 10359.1 | 9978.0 | 5968.3 | 2569.4 |
| 82.5° | 513.1 | 569.0 | 969.1 | 1023.7 | 957.7 | 1260.0 | 3811.6 | 3815.4 | 3188.0 | 1600.3 | 763.3 |
| 85° | 397.5 | 444.5 | 664.3 | 624.9 | 489.0 | 558.9 | 1257.4 | 1326.0 | 1084.7 | 655.4 | 248.9 |
| 87.5° | 198.1 | 246.4 | 450.9 | 396.3 | 191.8 | 160.0 | 449.6 | 480.1 | 428.0 | 256.6 | 90.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 | 6632.5 |
| 2.5° | 6649.0 | 6660.5 | 6674.5 | 6659.2 | 6654.1 | 6633.8 | 6599.5 | 6591.9 | 6574.1 | 6575.4 | 6585.5 |
| 5° | 6707.5 | 6726.5 | 6718.9 | 6660.5 | 6590.6 | 6492.8 | 6391.2 | 6304.8 | 6247.7 | 6243.9 | 6240.1 |
| 7.5° | 6819.2 | 6831.9 | 6772.2 | 6605.9 | 6410.3 | 6184.2 | 5970.8 | 5784.1 | 5671.1 | 5643.1 | 5636.8 |
| 10° | 6994.5 | 6992.0 | 6828.1 | 6492.8 | 6102.9 | 5699.0 | 5356.1 | 5097.0 | 4945.8 | 4901.4 | 4889.9 |
| 12.5° | 7190.1 | 7160.9 | 6847.2 | 6287.1 | 5668.5 | 5108.4 | 4674.0 | 4385.7 | 4228.2 | 4177.4 | 4164.7 |
| 15° | 7392.1 | 7319.7 | 6800.2 | 5979.7 | 5135.1 | 4472.1 | 4016.1 | 3749.4 | 3664.3 | 3636.3 | 3631.3 |
| 17.5° | 7580.0 | 7440.3 | 6665.6 | 5563.1 | 4526.7 | 3838.3 | 3482.7 | 3376.0 | 3396.3 | 3433.1 | 3434.4 |
| 20° | 7764.2 | 7521.6 | 6449.6 | 5037.3 | 3885.3 | 3316.3 | 3195.6 | 3274.4 | 3370.9 | 3445.8 | 3456.0 |
| 22.5° | 7945.8 | 7578.8 | 6171.5 | 4430.2 | 3311.2 | 3022.9 | 3108.0 | 3251.5 | 3362.0 | 3443.3 | 3457.3 |
| 25° | 8098.2 | 7592.7 | 5787.9 | 3782.4 | 2912.4 | 2912.4 | 3066.1 | 3202.0 | 3311.2 | 3391.2 | 3405.2 |
| 27.5° | 8154.1 | 7498.8 | 5246.8 | 3182.9 | 2711.7 | 2861.6 | 3007.6 | 3120.7 | 3213.4 | 3298.5 | 3313.7 |
| 30° | 8175.7 | 7324.7 | 4621.9 | 2701.5 | 2629.1 | 2807.0 | 2928.9 | 3025.4 | 3113.0 | 3193.1 | 3207.0 |
| 32.5° | 8179.5 | 7115.2 | 3958.9 | 2428.5 | 2572.0 | 2749.8 | 2831.1 | 2916.2 | 3010.2 | 3041.9 | 3047.0 |
| 35° | 8203.7 | 6867.5 | 3260.4 | 2288.7 | 2518.6 | 2696.5 | 2761.2 | 2822.2 | 2669.8 | 2681.2 | 2691.4 |
| 37.5° | 8273.5 | 6622.4 | 2676.1 | 2210.0 | 2484.3 | 2668.5 | 2746.0 | 2525.0 | 2405.6 | 2377.7 | 2373.8 |
| 40° | 8404.3 | 6360.7 | 2243.0 | 2146.5 | 2471.6 | 2682.5 | 2648.2 | 2357.3 | 2151.6 | 1997.9 | 1975.0 |
| 42.5° | 8586.0 | 6078.8 | 1966.1 | 2104.6 | 2480.5 | 2749.8 | 2512.3 | 2196.0 | 1854.4 | 1755.3 | 1742.6 |
| 45° | 8790.5 | 5782.8 | 1816.3 | 2075.4 | 2511.0 | 2801.9 | 2484.3 | 1981.4 | 1715.9 | 1641.0 | 1634.6 |
| 47.5° | 8988.6 | 5420.8 | 1738.8 | 2062.7 | 2552.9 | 2760.0 | 2366.2 | 1915.3 | 1649.9 | 1610.5 | 1614.3 |
| 50° | 9215.9 | 5094.4 | 1691.8 | 2048.7 | 2589.8 | 2733.3 | 2232.9 | 1881.0 | 1624.5 | 1672.7 | 1723.5 |
| 52.5° | 9407.7 | 4756.6 | 1649.9 | 2020.8 | 2603.7 | 2686.3 | 2198.6 | 1887.4 | 1624.5 | 1717.2 | 1765.5 |
| 55° | 9635.1 | 4501.3 | 1601.6 | 1962.3 | 2577.1 | 2552.9 | 2174.4 | 1925.5 | 1643.5 | 1585.1 | 1590.2 |
| 57.5° | 9928.5 | 4417.5 | 1548.3 | 1870.9 | 2488.2 | 2358.6 | 2163.0 | 1962.3 | 1632.1 | 1595.3 | 1608.0 |
| 60° | 10334.9 | 4506.4 | 1526.7 | 1751.5 | 2349.7 | 2206.2 | 2164.3 | 1943.3 | 1552.1 | 1488.6 | 1489.8 |
| 62.5° | 10722.3 | 4605.4 | 1525.4 | 1676.6 | 2179.5 | 2070.3 | 2135.1 | 1881.0 | 1511.4 | 1474.6 | 1488.6 |
| 65° | 10849.3 | 4505.1 | 1464.4 | 1592.7 | 1987.7 | 1907.7 | 2081.7 | 1815.0 | 1481.0 | 1425.1 | 1422.5 |
| 67.5° | 10679.1 | 4193.9 | 1341.2 | 1456.8 | 1768.0 | 1718.5 | 2011.9 | 1736.2 | 1432.7 | 1387.0 | 1379.3 |
| 70° | 10173.6 | 3499.2 | 1188.8 | 1277.7 | 1517.8 | 1505.1 | 1901.4 | 1644.8 | 1367.9 | 1328.5 | 1295.5 |
| 72.5° | 8813.3 | 2493.2 | 1002.1 | 1063.1 | 1235.8 | 1276.5 | 1748.9 | 1525.4 | 1276.5 | 1191.4 | 1140.6 |
| 75° | 7238.4 | 1845.5 | 823.0 | 835.7 | 938.6 | 1049.1 | 1539.4 | 1385.7 | 1168.5 | 1023.7 | 984.3 |
| 77.5° | 4432.7 | 1129.1 | 655.4 | 660.5 | 673.2 | 837.0 | 1267.6 | 1229.5 | 1031.3 | 853.5 | 825.6 |
| 80° | 1435.2 | 616.0 | 473.8 | 497.9 | 459.8 | 613.5 | 980.5 | 1046.6 | 885.3 | 713.8 | 683.3 |
| 82.5° | 546.1 | 359.4 | 320.1 | 336.6 | 318.8 | 411.5 | 715.1 | 838.3 | 725.2 | 586.8 | 477.6 |
| 85° | 264.2 | 203.2 | 189.2 | 212.1 | 196.9 | 210.8 | 457.2 | 617.3 | 550.0 | 382.3 | 355.6 |
| 87.5° | 94.0 | 90.2 | 72.4 | 97.8 | 83.8 | 74.9 | 139.7 | 311.2 | 363.3 | 262.9 | 235.0 |
| 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)