

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: LUMARK

Report Number: P622607

Luminaire Tested: **PRV-M-PA6A-740-U-T3**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6A-740-U-T3
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41155.1 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

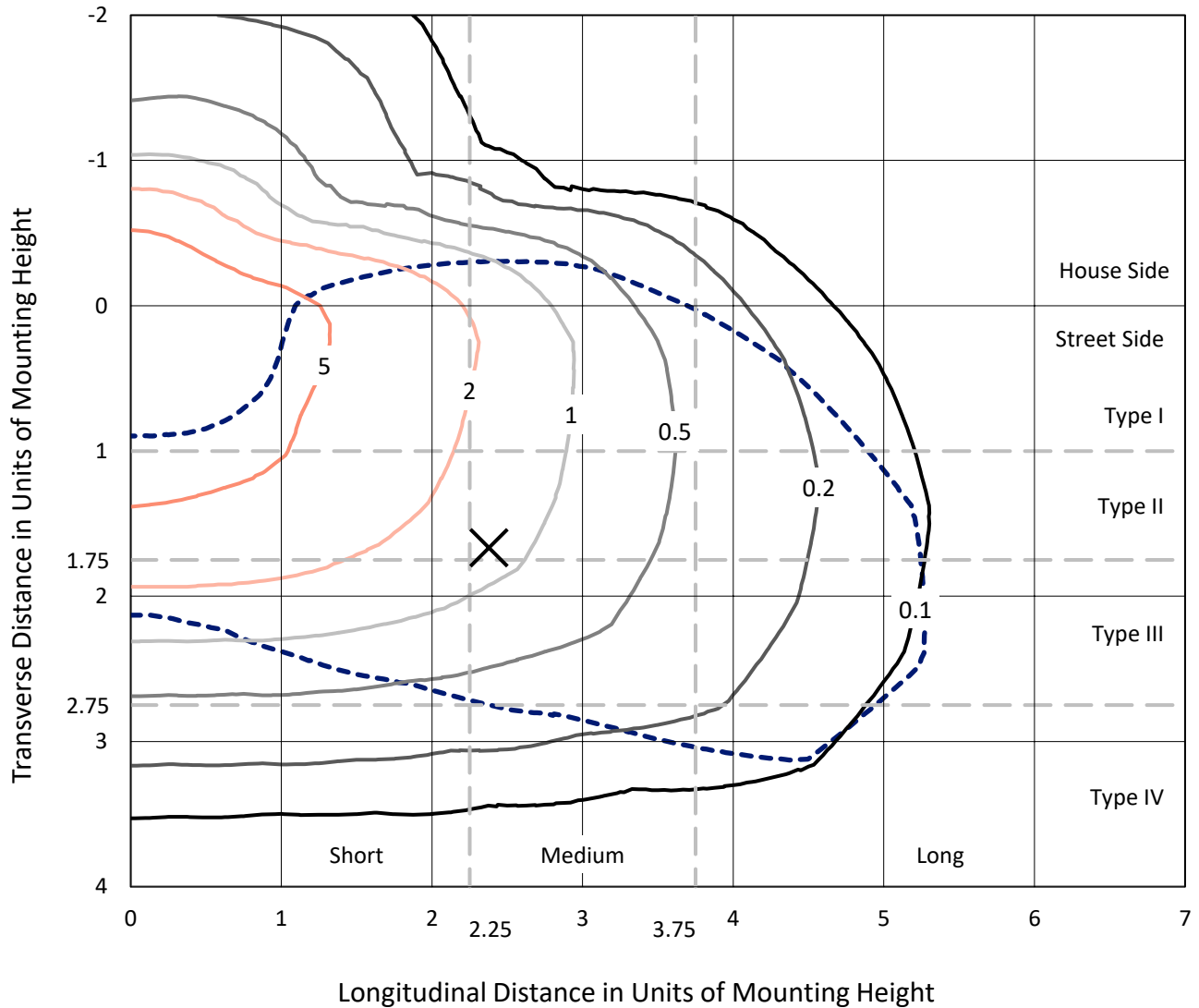
Input Watts (W): 273.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

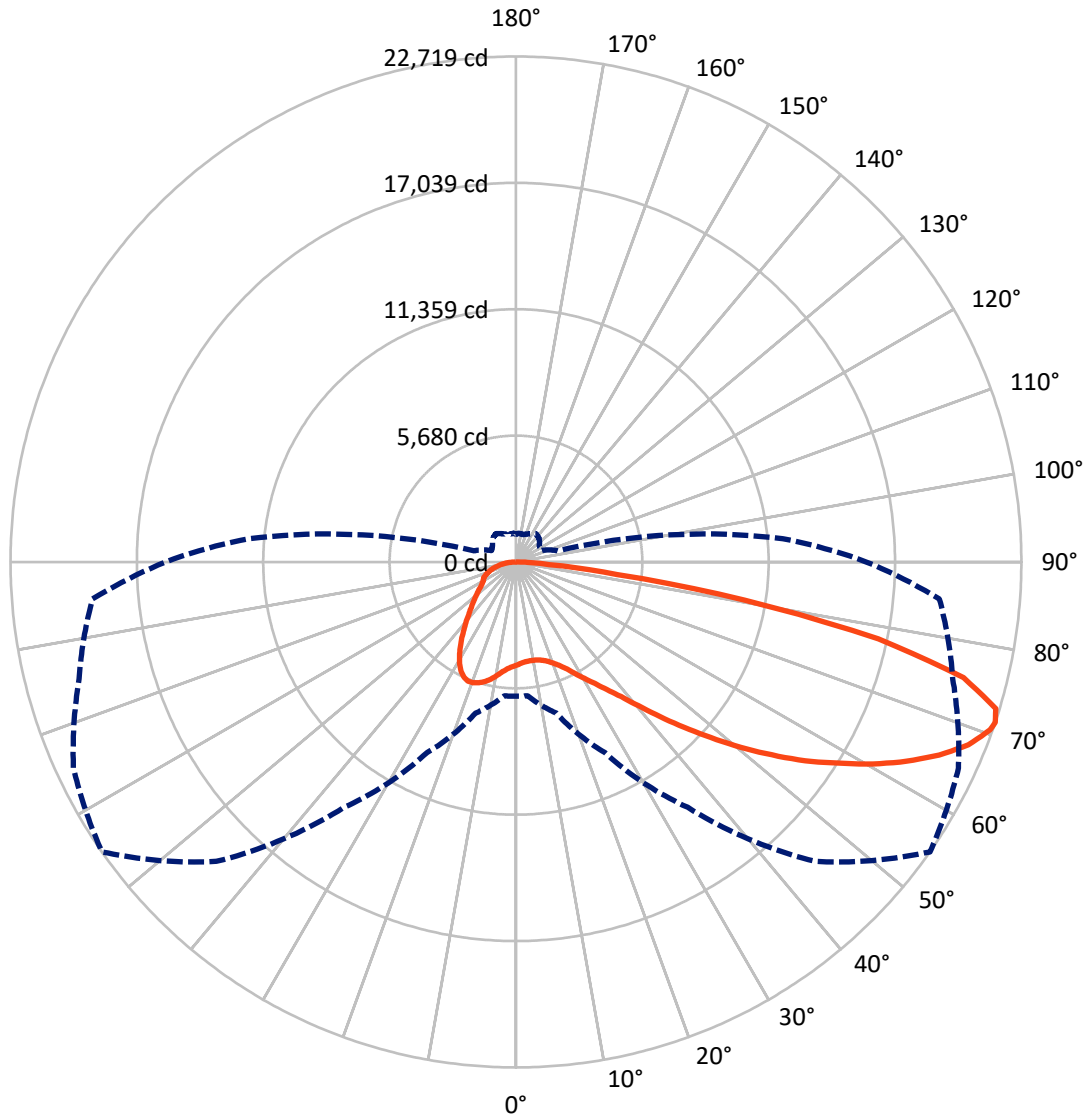
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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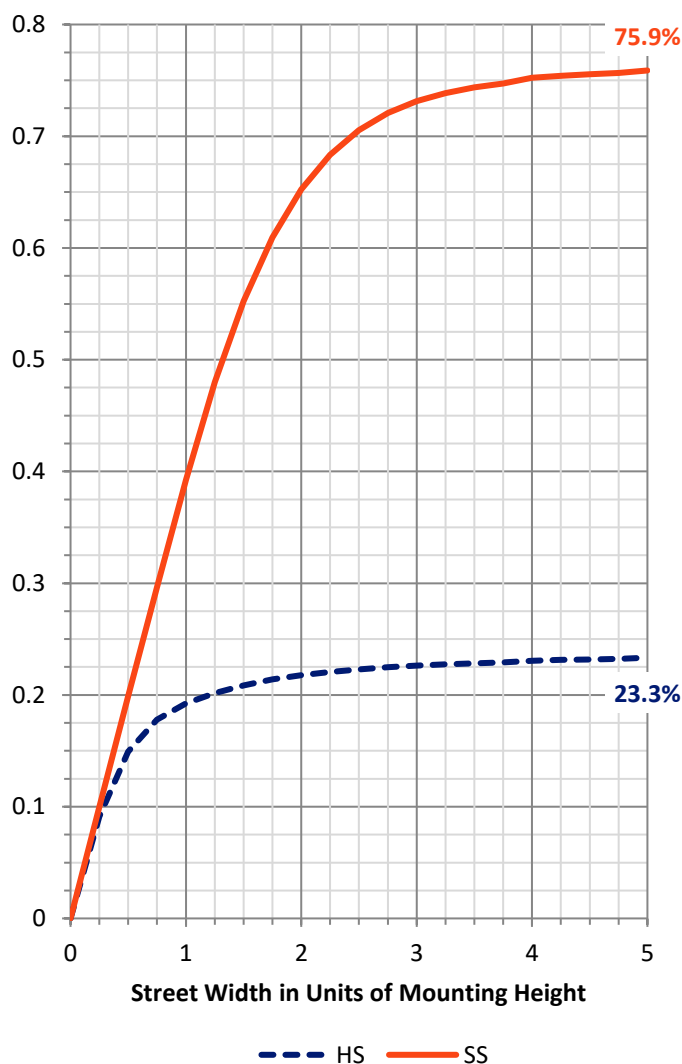
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9777.8 | 0.0 | 9777.8 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 31377.3 | 0.0 | 31377.3 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 41155.1 | 0.0 | 41155.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 451.5 | 1.1 |
| 10°-20° | 1435.3 | 3.5 |
| 20°-30° | 2530.2 | 6.1 |
| 30°-40° | 3790.3 | 9.2 |
| 40°-50° | 5931.4 | 14.4 |
| 50°-60° | 8718.7 | 21.2 |
| 60°-70° | 10211.7 | 24.8 |
| 70°-80° | 6916.5 | 16.8 |
| 80°-90° | 1169.4 | 2.8 |
| 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° | 41155.1 | 100.0 |
| 0°-180° | 41155.1 | 100.0 |

Coefficient of Utilization



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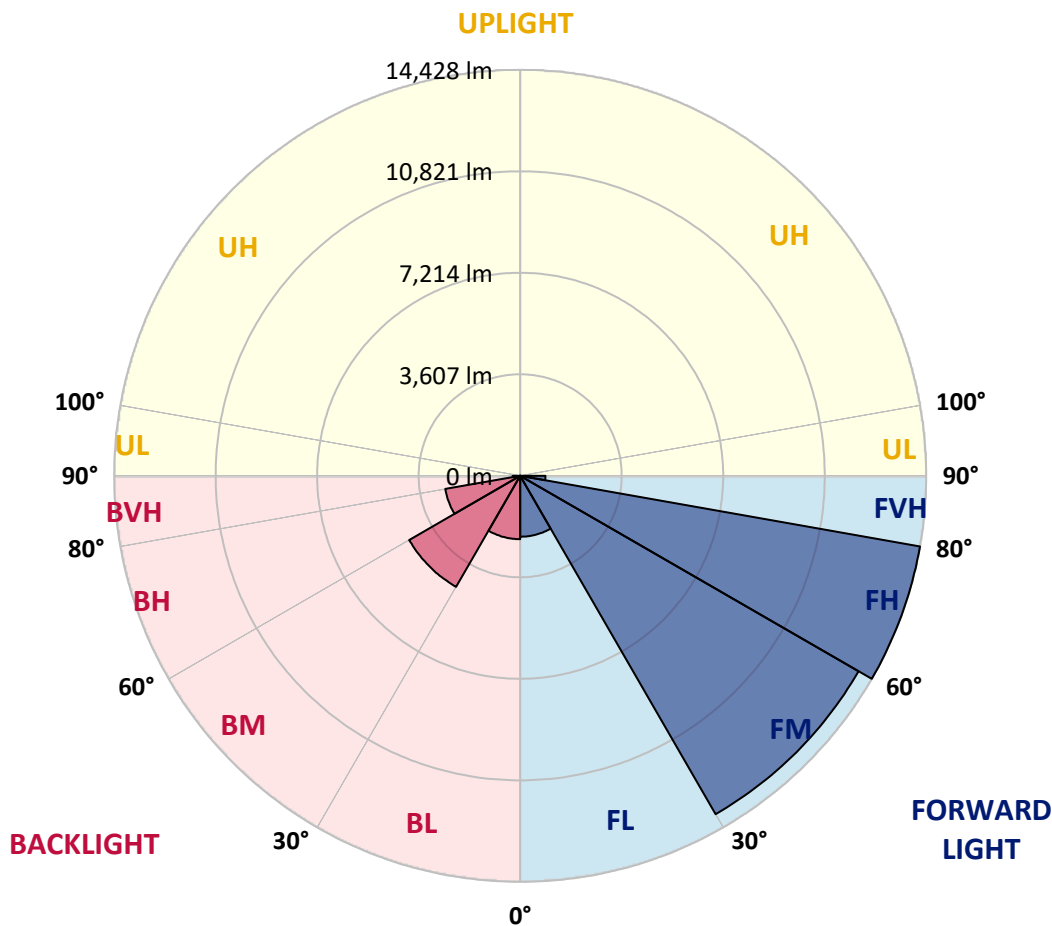
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2165.1 | 5.3 | | | |
| FM (30°-60°) | 13884.8 | 33.7 | | | |
| FH (60°-80°) | 14427.6 | 35.1 | | | G5 |
| FVH (80°-90°) | 899.7 | 2.2 | | | G5 |
| BL (0°-30°) | 2251.9 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 4555.6 | 11.1 | B3/5000 | | |
| BH (60°-80°) | 2700.6 | 6.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 269.6 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 |
| 2.5° | 4562.0 | 4531.0 | 4532.0 | 4532.0 | 4528.0 | 4547.0 | 4557.0 | 4573.0 | 4588.0 | 4605.0 | 4622.0 |
| 5° | 4445.0 | 4423.0 | 4430.0 | 4443.0 | 4451.0 | 4479.0 | 4502.0 | 4529.0 | 4554.0 | 4588.0 | 4611.0 |
| 7.5° | 4333.0 | 4305.0 | 4327.0 | 4360.0 | 4384.0 | 4441.0 | 4483.0 | 4525.0 | 4562.0 | 4615.0 | 4649.0 |
| 10° | 4274.0 | 4249.0 | 4276.0 | 4318.0 | 4357.0 | 4425.0 | 4488.0 | 4553.0 | 4619.0 | 4706.0 | 4748.0 |
| 12.5° | 4294.0 | 4269.0 | 4290.0 | 4333.0 | 4373.0 | 4442.0 | 4516.0 | 4618.0 | 4714.0 | 4820.0 | 4875.0 |
| 15° | 4390.0 | 4367.0 | 4381.0 | 4411.0 | 4434.0 | 4496.0 | 4587.0 | 4713.0 | 4832.0 | 4957.0 | 5015.0 |
| 17.5° | 4607.0 | 4576.0 | 4561.0 | 4545.0 | 4549.0 | 4592.0 | 4697.0 | 4845.0 | 4979.0 | 5115.0 | 5173.0 |
| 20° | 4926.0 | 4890.0 | 4861.0 | 4781.0 | 4732.0 | 4766.0 | 4859.0 | 5008.0 | 5151.0 | 5288.0 | 5345.0 |
| 22.5° | 5366.0 | 5309.0 | 5247.0 | 5109.0 | 5010.0 | 5002.0 | 5060.0 | 5206.0 | 5344.0 | 5469.0 | 5536.0 |
| 25° | 5787.0 | 5741.0 | 5678.0 | 5506.0 | 5353.0 | 5297.0 | 5334.0 | 5455.0 | 5569.0 | 5660.0 | 5718.0 |
| 27.5° | 6276.0 | 6208.0 | 6091.0 | 5924.0 | 5751.0 | 5653.0 | 5688.0 | 5774.0 | 5857.0 | 5893.0 | 5927.0 |
| 30° | 6801.9 | 6732.9 | 6609.0 | 6377.0 | 6173.0 | 6063.0 | 6070.0 | 6197.0 | 6219.0 | 6176.0 | 6193.0 |
| 32.5° | 7480.9 | 7411.9 | 7264.9 | 6952.9 | 6684.9 | 6518.0 | 6506.0 | 6595.0 | 6597.0 | 6511.0 | 6507.0 |
| 35° | 8340.9 | 8253.9 | 8044.9 | 7664.9 | 7308.9 | 7055.9 | 7033.9 | 7115.9 | 7121.9 | 7012.9 | 6979.9 |
| 37.5° | 9300.9 | 9244.9 | 9049.9 | 8511.9 | 8043.9 | 7749.9 | 7670.9 | 7815.9 | 7857.9 | 7706.9 | 7638.9 |
| 40° | 10397.9 | 10350.9 | 10210.9 | 9535.9 | 8945.9 | 8606.9 | 8500.9 | 8650.9 | 8745.9 | 8590.9 | 8501.9 |
| 42.5° | 11626.9 | 11576.9 | 11290.9 | 10648.9 | 10045.9 | 9609.9 | 9501.9 | 9622.9 | 9832.9 | 9550.9 | 9377.9 |
| 45° | 12957.9 | 12917.9 | 12458.9 | 11914.9 | 11307.9 | 10896.9 | 10587.9 | 10670.9 | 10896.9 | 10663.9 | 10363.9 |
| 47.5° | 13995.9 | 13899.9 | 13580.9 | 13223.9 | 12768.9 | 12254.9 | 11780.9 | 11809.9 | 11992.9 | 11768.9 | 11306.9 |
| 50° | 14765.9 | 14741.9 | 14480.9 | 14300.9 | 14305.9 | 13840.9 | 13091.9 | 12987.9 | 13176.9 | 12879.9 | 12326.9 |
| 52.5° | 15448.9 | 15365.9 | 15145.9 | 15220.9 | 15672.9 | 15575.9 | 14396.9 | 14162.9 | 14410.9 | 14075.9 | 13373.9 |
| 55° | 15592.9 | 15417.9 | 15528.9 | 15963.9 | 16819.9 | 16992.9 | 15779.9 | 15490.9 | 15686.9 | 15369.9 | 14459.9 |
| 57.5° | 15230.9 | 15205.9 | 15598.9 | 16385.9 | 17704.9 | 18018.9 | 17056.9 | 16811.9 | 16825.9 | 16643.9 | 15520.9 |
| 60° | 14354.9 | 14441.9 | 15307.9 | 16524.9 | 18404.9 | 18937.9 | 18439.9 | 18119.9 | 17960.9 | 17955.9 | 16509.9 |
| 62.5° | 12984.9 | 13133.9 | 14300.9 | 16223.9 | 18601.9 | 19662.9 | 19722.9 | 19373.9 | 19010.9 | 19077.9 | 17314.9 |
| 65° | 11236.9 | 11256.9 | 12578.9 | 15289.9 | 18138.9 | 20160.8 | 20911.8 | 20493.8 | 19894.9 | 20001.8 | 17734.9 |
| 67.5° | 9195.9 | 9202.9 | 10445.9 | 13344.9 | 17040.9 | 20323.8 | 21934.8 | 21312.8 | 20397.8 | 20310.8 | 17536.9 |
| 70° | 6974.9 | 6996.9 | 7965.9 | 10735.9 | 14756.9 | 19709.9 | 22609.8 | 21852.8 | 20465.8 | 19699.9 | 16480.9 |
| 71° | 6033.0 | 6036.0 | 7036.9 | 9449.9 | 13463.9 | 19034.9 | 22718.8 | 21944.8 | 20327.8 | 19105.9 | 15751.9 |
| 72.5° | 4511.0 | 4504.0 | 5376.0 | 7425.9 | 11238.9 | 17434.9 | 22554.8 | 21857.8 | 19933.9 | 17842.9 | 14320.9 |
| 75° | 2368.0 | 2373.0 | 2845.0 | 4302.0 | 7134.9 | 13189.9 | 20777.8 | 20559.8 | 18317.9 | 14700.9 | 11148.9 |
| 77.5° | 1239.0 | 1240.0 | 1499.0 | 2169.0 | 3714.0 | 7819.9 | 16652.9 | 17385.9 | 15256.9 | 10444.9 | 7326.9 |
| 80° | 826.0 | 831.0 | 969.0 | 1290.0 | 2037.0 | 3331.0 | 10417.9 | 11851.9 | 10255.9 | 5964.0 | 3820.0 |
| 82.5° | 606.0 | 610.0 | 728.0 | 886.0 | 1374.0 | 1480.0 | 4584.0 | 6154.0 | 5011.0 | 2528.0 | 1566.0 |
| 85° | 466.0 | 468.0 | 569.0 | 609.0 | 909.0 | 819.0 | 1486.0 | 2491.0 | 1947.0 | 517.0 | 438.0 |
| 87.5° | 238.0 | 257.0 | 370.0 | 334.0 | 445.0 | 324.0 | 516.0 | 580.0 | 497.0 | 172.0 | 140.0 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 | 4632.0 |
| 2.5° | 4636.0 | 4670.0 | 4692.0 | 4704.0 | 4729.0 | 4755.0 | 4790.0 | 4805.0 | 4814.0 | 4779.0 |
| 5° | 4638.0 | 4702.0 | 4758.0 | 4815.0 | 4880.0 | 4937.0 | 5004.0 | 5040.0 | 5055.0 | 5018.0 |
| 7.5° | 4690.0 | 4783.0 | 4875.0 | 4967.0 | 5067.0 | 5144.0 | 5237.0 | 5287.0 | 5319.0 | 5289.0 |
| 10° | 4807.0 | 4938.0 | 5063.0 | 5171.0 | 5267.0 | 5344.0 | 5424.0 | 5472.0 | 5502.0 | 5466.0 |
| 12.5° | 4951.0 | 5115.0 | 5264.0 | 5381.0 | 5465.0 | 5514.0 | 5565.0 | 5591.0 | 5611.0 | 5578.0 |
| 15° | 5100.0 | 5289.0 | 5449.0 | 5553.0 | 5595.0 | 5623.0 | 5636.0 | 5636.0 | 5645.0 | 5607.0 |
| 17.5° | 5273.0 | 5464.0 | 5615.0 | 5676.0 | 5685.0 | 5659.0 | 5639.0 | 5613.0 | 5595.0 | 5558.0 |
| 20° | 5448.0 | 5634.0 | 5763.0 | 5763.0 | 5688.0 | 5604.0 | 5523.0 | 5468.0 | 5439.0 | 5401.0 |
| 22.5° | 5631.0 | 5802.0 | 5872.0 | 5772.0 | 5582.0 | 5426.0 | 5317.0 | 5233.0 | 5204.0 | 5169.0 |
| 25° | 5810.0 | 5964.0 | 5930.0 | 5669.0 | 5378.0 | 5144.0 | 4998.0 | 4917.0 | 4878.0 | 4852.0 |
| 27.5° | 6003.0 | 6115.0 | 5912.0 | 5469.0 | 5053.0 | 4803.0 | 4642.0 | 4533.0 | 4480.0 | 4448.0 |
| 30° | 6257.0 | 6265.0 | 5813.0 | 5149.0 | 4670.0 | 4377.0 | 4206.0 | 4090.0 | 4059.0 | 4034.0 |
| 32.5° | 6551.0 | 6404.0 | 5631.0 | 4760.0 | 4232.0 | 3922.0 | 3758.0 | 3691.0 | 3646.0 | 3634.0 |
| 35° | 6999.9 | 6544.0 | 5386.0 | 4358.0 | 3775.0 | 3501.0 | 3360.0 | 3287.0 | 3224.0 | 3202.0 |
| 37.5° | 7577.9 | 6665.9 | 5062.0 | 3915.0 | 3376.0 | 3139.0 | 3017.0 | 2903.0 | 2798.0 | 2775.0 |
| 40° | 8252.9 | 6778.9 | 4685.0 | 3535.0 | 3051.0 | 2863.0 | 2722.0 | 2560.0 | 2406.0 | 2382.0 |
| 42.5° | 8967.9 | 6852.9 | 4304.0 | 3171.0 | 2810.0 | 2641.0 | 2451.0 | 2261.0 | 2125.0 | 2086.0 |
| 45° | 9708.9 | 6839.9 | 3900.0 | 2862.0 | 2621.0 | 2436.0 | 2231.0 | 2058.0 | 1932.0 | 1909.0 |
| 47.5° | 10360.9 | 6749.9 | 3541.0 | 2599.0 | 2437.0 | 2261.0 | 2064.0 | 1911.0 | 1804.0 | 1781.0 |
| 50° | 11043.9 | 6608.0 | 3232.0 | 2368.0 | 2272.0 | 2125.0 | 1937.0 | 1806.0 | 1707.0 | 1686.0 |
| 52.5° | 11660.9 | 6469.0 | 2875.0 | 2162.0 | 2135.0 | 2020.0 | 1859.0 | 1763.0 | 1641.0 | 1613.0 |
| 55° | 12282.9 | 6345.0 | 2514.0 | 1973.0 | 2024.0 | 1947.0 | 1834.0 | 1781.0 | 1649.0 | 1607.0 |
| 57.5° | 12945.9 | 6177.0 | 2182.0 | 1822.0 | 1931.0 | 1941.0 | 1875.0 | 1827.0 | 1701.0 | 1642.0 |
| 60° | 13570.9 | 5849.0 | 1905.0 | 1710.0 | 1892.0 | 2001.0 | 1882.0 | 1722.0 | 1639.0 | 1586.0 |
| 62.5° | 14043.9 | 5243.0 | 1710.0 | 1650.0 | 1918.0 | 1986.0 | 1758.0 | 1592.0 | 1553.0 | 1524.0 |
| 65° | 14163.9 | 4286.0 | 1541.0 | 1590.0 | 1835.0 | 1861.0 | 1642.0 | 1495.0 | 1501.0 | 1477.0 |
| 67.5° | 13754.9 | 3201.0 | 1395.0 | 1470.0 | 1677.0 | 1725.0 | 1537.0 | 1404.0 | 1456.0 | 1431.0 |
| 70° | 12656.9 | 2247.0 | 1261.0 | 1339.0 | 1536.0 | 1605.0 | 1436.0 | 1311.0 | 1349.0 | 1314.0 |
| 71° | 12043.9 | 1944.0 | 1209.0 | 1282.0 | 1479.0 | 1557.0 | 1393.0 | 1274.0 | 1292.0 | 1248.0 |
| 72.5° | 10726.9 | 1591.0 | 1132.0 | 1195.0 | 1390.0 | 1483.0 | 1335.0 | 1207.0 | 1190.0 | 1161.0 |
| 75° | 7716.9 | 1201.0 | 999.0 | 1046.0 | 1241.0 | 1355.0 | 1212.0 | 1096.0 | 1047.0 | 1030.0 |
| 77.5° | 4621.0 | 931.0 | 854.0 | 888.0 | 1101.0 | 1214.0 | 1088.0 | 976.0 | 933.0 | 916.0 |
| 80° | 2115.0 | 730.0 | 702.0 | 729.0 | 940.0 | 1073.0 | 972.0 | 865.0 | 812.0 | 790.0 |
| 82.5° | 866.0 | 554.0 | 535.0 | 569.0 | 782.0 | 916.0 | 834.0 | 731.0 | 701.0 | 626.0 |
| 85° | 401.0 | 364.0 | 360.0 | 388.0 | 550.0 | 674.0 | 612.0 | 535.0 | 457.0 | 443.0 |
| 87.5° | 182.0 | 170.0 | 146.0 | 180.0 | 279.0 | 384.0 | 352.0 | 301.0 | 186.0 | 178.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)