

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: P885326

Luminaire Tested: **NAV-SB6C-760-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-760-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35787 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

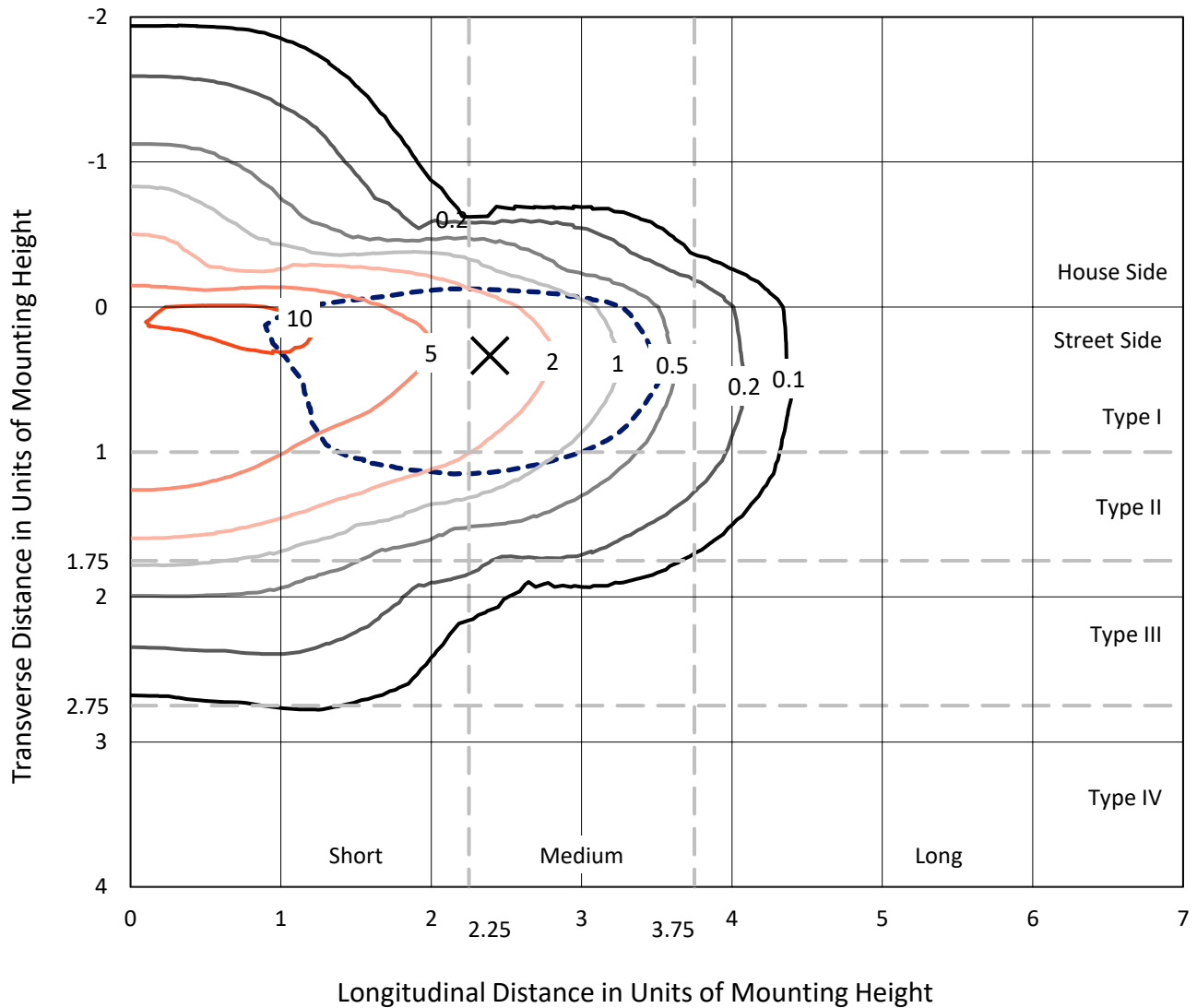
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

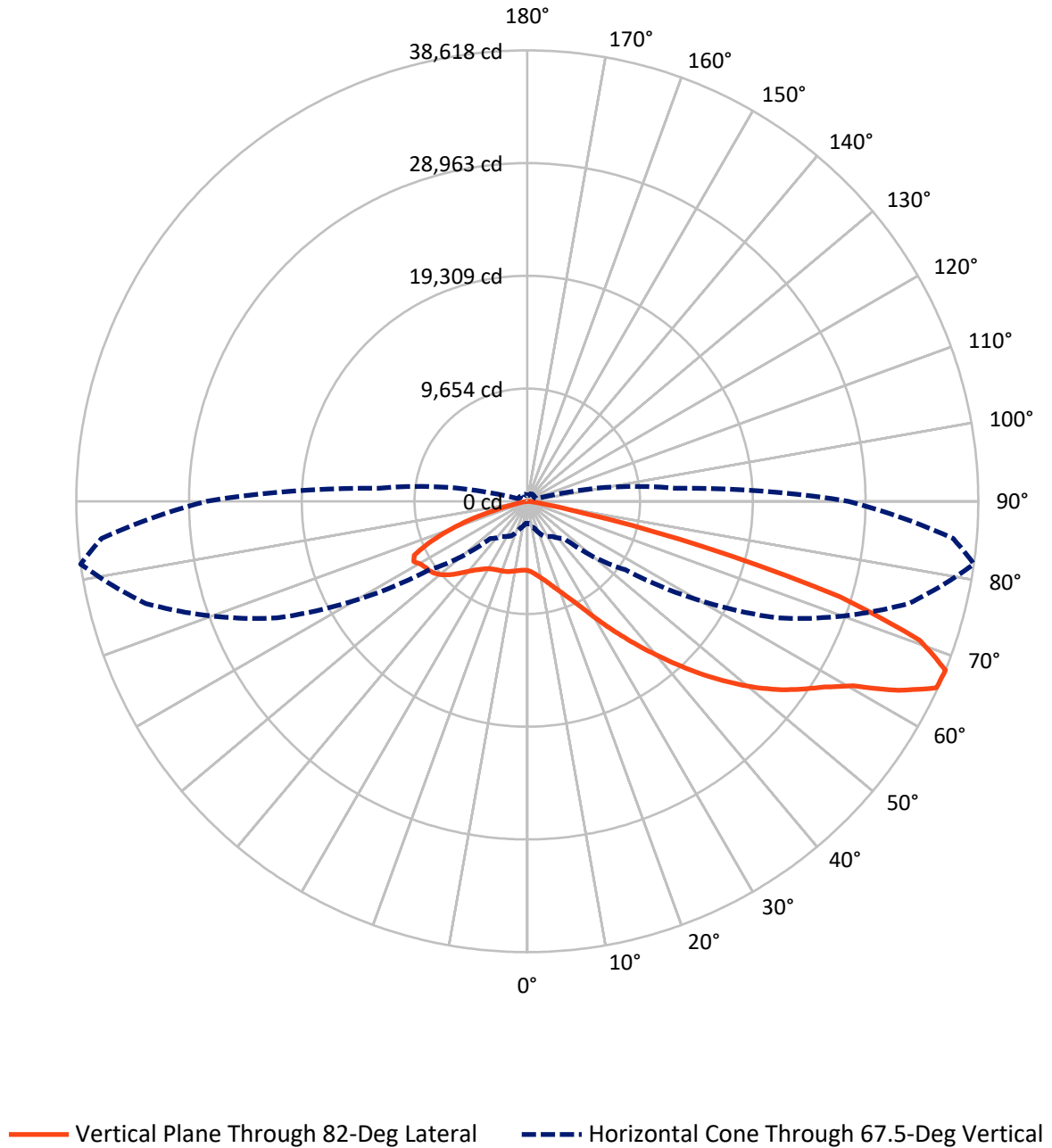
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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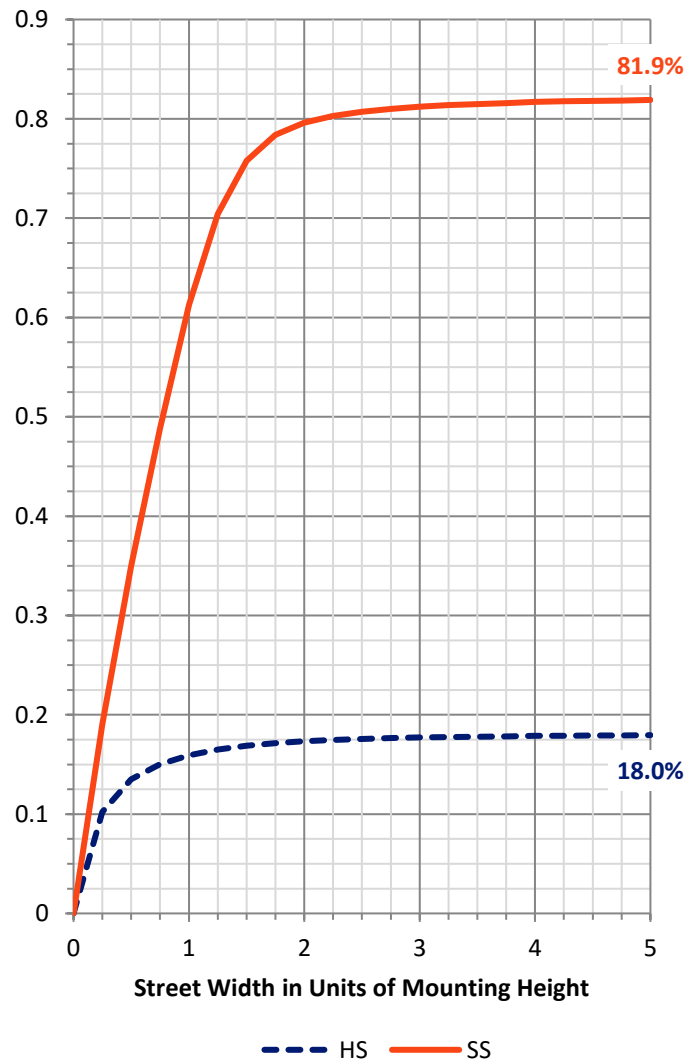
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6482.5 | 0.0 | 6482.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 29304.5 | 0.0 | 29304.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 35787.0 | 0.0 | 35787.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 528.2 | 1.5 |
| 10°-20° | 1372.6 | 3.8 |
| 20°-30° | 2198.4 | 6.1 |
| 30°-40° | 3887.5 | 10.9 |
| 40°-50° | 6811.3 | 19.0 |
| 50°-60° | 9084.4 | 25.4 |
| 60°-70° | 8457.1 | 23.6 |
| 70°-80° | 3245.8 | 9.1 |
| 80°-90° | 201.6 | 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° | 35787.0 | 100.0 |
| 0°-180° | 35787.0 | 100.0 |



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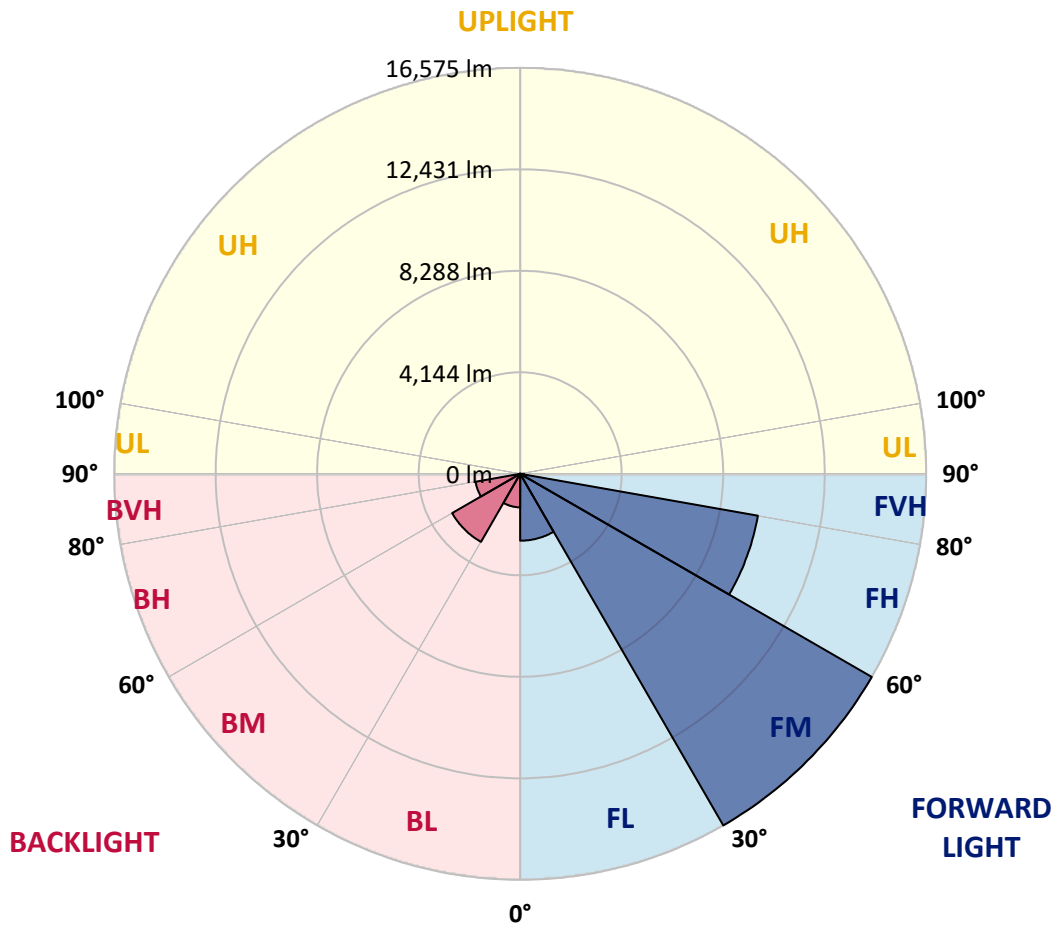
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2730.1 | 7.6 | | | |
| FM (30°-60°) | 16575.1 | 46.3 | | | |
| FH (60°-80°) | 9852.7 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 146.6 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1369.1 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 3208.2 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1850.2 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 55.0 | 0.2 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 |
| 2.5° | 6266.2 | 6302.3 | 6281.7 | 6271.4 | 6253.3 | 6227.6 | 6207.0 | 6142.6 | 6075.6 | 6031.8 | 6016.3 |
| 5° | 6392.5 | 6428.6 | 6426.0 | 6436.3 | 6449.2 | 6456.9 | 6451.7 | 6379.6 | 6284.3 | 6209.5 | 6165.7 |
| 7.5° | 6284.3 | 6325.5 | 6359.0 | 6410.5 | 6500.7 | 6596.0 | 6642.4 | 6626.9 | 6529.0 | 6426.0 | 6371.9 |
| 10° | 5977.6 | 6021.5 | 6101.3 | 6222.4 | 6413.1 | 6619.2 | 6791.8 | 6871.7 | 6809.9 | 6696.5 | 6621.8 |
| 12.5° | 5416.0 | 5459.8 | 5616.9 | 5879.7 | 6199.2 | 6557.4 | 6887.2 | 7101.0 | 7116.5 | 7003.1 | 6915.5 |
| 15° | 4784.7 | 4828.5 | 4996.0 | 5325.8 | 5812.7 | 6387.3 | 6938.7 | 7343.2 | 7479.8 | 7381.9 | 7276.2 |
| 17.5° | 4393.1 | 4431.7 | 4558.0 | 4823.3 | 5330.9 | 6047.2 | 6920.7 | 7600.9 | 7912.7 | 7835.4 | 7709.1 |
| 20° | 4274.5 | 4308.0 | 4367.3 | 4552.8 | 4975.4 | 5694.2 | 6802.2 | 7843.1 | 8379.0 | 8335.2 | 8193.5 |
| 22.5° | 4400.8 | 4431.7 | 4449.7 | 4532.2 | 4797.6 | 5462.3 | 6652.7 | 8090.4 | 8920.1 | 8925.2 | 8752.6 |
| 25° | 4691.9 | 4722.9 | 4702.2 | 4753.8 | 4869.7 | 5390.2 | 6596.0 | 8381.6 | 9600.3 | 9657.0 | 9461.2 |
| 27.5° | 5171.2 | 5173.8 | 5124.8 | 5122.2 | 5140.3 | 5498.4 | 6655.3 | 8693.4 | 10458.3 | 10563.9 | 10321.8 |
| 30° | 6132.2 | 6093.6 | 5905.5 | 5702.0 | 5609.2 | 5823.1 | 6820.2 | 9061.8 | 11470.9 | 11659.0 | 11355.0 |
| 32.5° | 7613.8 | 7557.1 | 7211.8 | 6724.9 | 6235.3 | 6346.1 | 7116.5 | 9481.8 | 12573.7 | 12913.8 | 12542.8 |
| 35° | 9221.6 | 9206.1 | 8845.4 | 8121.4 | 7265.9 | 7090.7 | 7598.3 | 10033.2 | 13776.9 | 14318.0 | 13877.4 |
| 37.5° | 10716.0 | 10708.2 | 10502.1 | 9649.3 | 8608.3 | 8129.1 | 8371.3 | 10754.6 | 15065.2 | 15848.5 | 15328.0 |
| 40° | 12081.6 | 12104.7 | 11898.6 | 11135.9 | 10087.3 | 9461.2 | 9422.5 | 11646.1 | 16497.8 | 17515.5 | 16897.2 |
| 42.5° | 13261.6 | 13287.4 | 13078.7 | 12514.4 | 11548.2 | 10935.0 | 10713.4 | 12738.6 | 17896.9 | 19306.3 | 18574.5 |
| 45° | 14062.9 | 14222.7 | 14191.8 | 13740.9 | 13047.8 | 12411.4 | 12264.5 | 14109.3 | 19491.8 | 21205.2 | 20347.2 |
| 47.5° | 14289.7 | 14436.5 | 14668.4 | 14730.3 | 14307.7 | 13681.6 | 13856.8 | 15760.9 | 21104.7 | 23106.7 | 22130.2 |
| 50° | 13730.6 | 13867.1 | 14348.9 | 14990.5 | 15284.2 | 15091.0 | 15405.3 | 17531.0 | 22756.3 | 25003.1 | 23879.7 |
| 52.5° | 12627.8 | 12766.9 | 13375.0 | 14390.2 | 15588.3 | 16196.3 | 16959.0 | 19275.3 | 24356.3 | 26798.9 | 25536.4 |
| 55° | 11032.9 | 11179.8 | 11960.5 | 13109.6 | 15008.5 | 16652.4 | 18255.0 | 21017.1 | 25822.4 | 28414.4 | 27030.8 |
| 57.5° | 8863.4 | 8971.6 | 9783.2 | 11391.0 | 13550.2 | 16198.9 | 19210.9 | 22918.6 | 27203.5 | 30001.6 | 28512.4 |
| 60° | 5776.7 | 5872.0 | 6815.0 | 8608.3 | 11133.4 | 14683.9 | 19401.6 | 25039.1 | 29038.0 | 32065.5 | 30509.2 |
| 62.5° | 3841.7 | 3906.1 | 4465.2 | 5781.8 | 7840.5 | 11774.9 | 18285.9 | 26731.9 | 31727.9 | 35657.2 | 33933.5 |
| 65° | 2635.8 | 2700.2 | 3259.4 | 4176.6 | 5065.5 | 7789.0 | 15078.1 | 26507.8 | 34165.4 | 38509.5 | 36471.4 |
| 67.5° | 1880.9 | 1935.0 | 2409.1 | 3274.8 | 3666.5 | 4524.5 | 10221.3 | 23642.6 | 33814.9 | 38617.7 | 36608.0 |
| 70° | 1347.5 | 1378.5 | 1770.1 | 2550.8 | 2914.1 | 2718.3 | 5683.9 | 18082.4 | 29607.4 | 35659.8 | 33820.1 |
| 72.5° | 943.0 | 953.3 | 1229.0 | 1942.7 | 2347.3 | 1984.0 | 2705.4 | 12055.8 | 22393.0 | 27989.3 | 26219.2 |
| 75° | 639.0 | 651.9 | 827.1 | 1424.8 | 1883.5 | 1515.0 | 1432.6 | 6464.6 | 13145.7 | 15492.9 | 13887.7 |
| 77.5° | 391.6 | 396.8 | 533.4 | 973.9 | 1409.4 | 1154.3 | 922.4 | 2738.9 | 5086.2 | 4993.4 | 4256.5 |
| 80° | 221.6 | 221.6 | 340.1 | 605.5 | 961.1 | 744.6 | 646.7 | 1164.6 | 1610.4 | 1414.5 | 1247.1 |
| 82.5° | 123.7 | 126.3 | 247.4 | 376.2 | 636.4 | 440.6 | 355.6 | 538.5 | 695.7 | 615.8 | 535.9 |
| 85° | 51.5 | 56.7 | 152.0 | 177.8 | 304.0 | 219.0 | 144.3 | 226.7 | 257.7 | 229.3 | 167.5 |
| 87.5° | 5.2 | 7.7 | 46.4 | 33.5 | 36.1 | 43.8 | 20.6 | 43.8 | 36.1 | 36.1 | 25.8 |
| 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° | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 | 5928.7 |
| 2.5° | 5967.3 | 5928.7 | 5830.8 | 5717.4 | 5568.0 | 5495.8 | 5397.9 | 5330.9 | 5274.2 | 5279.4 | 5227.9 |
| 5° | 6083.3 | 5985.4 | 5766.4 | 5493.3 | 5153.1 | 4910.9 | 4653.3 | 4475.5 | 4331.2 | 4300.3 | 4230.7 |
| 7.5° | 6243.0 | 6088.4 | 5704.5 | 5212.4 | 4637.8 | 4202.4 | 3813.3 | 3563.4 | 3385.6 | 3328.9 | 3272.2 |
| 10° | 6449.2 | 6225.0 | 5624.7 | 4859.4 | 4032.3 | 3478.4 | 3061.0 | 2865.1 | 2744.1 | 2702.8 | 2671.9 |
| 12.5° | 6688.8 | 6382.2 | 5519.0 | 4429.1 | 3408.8 | 2875.5 | 2610.1 | 2512.2 | 2473.5 | 2460.6 | 2452.9 |
| 15° | 6990.2 | 6578.0 | 5359.3 | 3919.0 | 2880.6 | 2507.0 | 2393.6 | 2380.8 | 2385.9 | 2380.8 | 2378.2 |
| 17.5° | 7348.4 | 6791.8 | 5099.0 | 3393.3 | 2525.0 | 2318.9 | 2277.7 | 2288.0 | 2300.9 | 2298.3 | 2293.2 |
| 20° | 7740.0 | 7003.1 | 4766.7 | 2927.0 | 2282.8 | 2184.9 | 2161.7 | 2172.1 | 2182.4 | 2177.2 | 2174.6 |
| 22.5° | 8185.8 | 7229.9 | 4398.2 | 2563.7 | 2120.5 | 2061.3 | 2035.5 | 2038.1 | 2038.1 | 2027.8 | 2022.6 |
| 25° | 8719.1 | 7479.8 | 4011.7 | 2306.0 | 1996.8 | 1950.5 | 1919.5 | 1909.2 | 1893.8 | 1862.9 | 1857.7 |
| 27.5° | 9355.5 | 7745.2 | 3640.7 | 2125.7 | 1898.9 | 1855.1 | 1819.1 | 1793.3 | 1754.6 | 1703.1 | 1698.0 |
| 30° | 10071.8 | 8067.3 | 3326.4 | 2012.3 | 1821.6 | 1777.8 | 1736.6 | 1698.0 | 1641.3 | 1576.9 | 1571.7 |
| 32.5° | 10914.4 | 8412.5 | 3097.0 | 1937.6 | 1752.1 | 1705.7 | 1656.7 | 1610.4 | 1548.5 | 1484.1 | 1486.7 |
| 35° | 11919.2 | 8829.9 | 2963.1 | 1886.1 | 1698.0 | 1636.1 | 1582.0 | 1530.5 | 1484.1 | 1427.4 | 1422.3 |
| 37.5° | 13009.1 | 9273.1 | 2921.8 | 1860.3 | 1661.9 | 1566.6 | 1504.7 | 1468.6 | 1463.5 | 1430.0 | 1427.4 |
| 40° | 14202.1 | 9798.7 | 2952.8 | 1844.8 | 1623.2 | 1499.6 | 1432.6 | 1424.8 | 1437.7 | 1378.5 | 1381.0 |
| 42.5° | 15464.6 | 10422.2 | 3004.3 | 1826.8 | 1569.1 | 1432.6 | 1368.2 | 1368.2 | 1357.9 | 1275.4 | 1275.4 |
| 45° | 16830.2 | 11141.1 | 3055.8 | 1783.0 | 1504.7 | 1365.6 | 1316.6 | 1298.6 | 1254.8 | 1174.9 | 1172.3 |
| 47.5° | 18206.1 | 11872.8 | 3094.5 | 1703.1 | 1427.4 | 1308.9 | 1265.1 | 1223.9 | 1159.5 | 1087.3 | 1084.7 |
| 50° | 19512.4 | 12529.9 | 3053.2 | 1584.6 | 1339.8 | 1254.8 | 1208.4 | 1151.7 | 1082.2 | 1033.2 | 1025.5 |
| 52.5° | 20679.6 | 13099.3 | 2878.0 | 1445.5 | 1247.1 | 1198.1 | 1156.9 | 1097.6 | 1040.9 | 989.4 | 984.3 |
| 55° | 21694.7 | 13560.5 | 2568.8 | 1314.1 | 1164.6 | 1149.2 | 1107.9 | 1033.2 | 955.9 | 912.1 | 907.0 |
| 57.5° | 22668.7 | 13910.9 | 2182.4 | 1205.8 | 1089.9 | 1095.0 | 1033.2 | 966.2 | 894.1 | 847.7 | 842.5 |
| 60° | 23964.7 | 14379.9 | 1790.7 | 1105.3 | 1010.0 | 1025.5 | 958.5 | 909.5 | 819.4 | 760.1 | 752.4 |
| 62.5° | 26036.3 | 15109.0 | 1422.3 | 981.7 | 917.3 | 922.4 | 894.1 | 834.8 | 726.6 | 657.0 | 651.9 |
| 65° | 27680.1 | 14841.1 | 1120.8 | 847.7 | 811.6 | 819.4 | 819.4 | 754.9 | 639.0 | 559.1 | 551.4 |
| 67.5° | 27494.6 | 12707.7 | 894.1 | 716.3 | 711.1 | 716.3 | 734.3 | 680.2 | 566.8 | 502.4 | 492.1 |
| 70° | 25327.7 | 10107.9 | 716.3 | 595.2 | 618.4 | 605.5 | 657.0 | 621.0 | 510.2 | 445.7 | 438.0 |
| 72.5° | 20666.7 | 7281.4 | 546.2 | 492.1 | 474.1 | 494.7 | 592.6 | 559.1 | 425.1 | 353.0 | 345.3 |
| 75° | 12076.4 | 3885.5 | 407.1 | 389.1 | 342.7 | 412.3 | 525.6 | 476.7 | 324.6 | 260.2 | 252.5 |
| 77.5° | 3931.9 | 1355.3 | 298.9 | 286.0 | 255.1 | 332.4 | 448.3 | 401.9 | 265.4 | 206.1 | 198.4 |
| 80° | 1053.8 | 409.7 | 203.5 | 188.1 | 164.9 | 247.4 | 355.6 | 319.5 | 190.7 | 134.0 | 131.4 |
| 82.5° | 422.6 | 172.6 | 118.5 | 105.6 | 90.2 | 170.1 | 280.8 | 257.7 | 141.7 | 85.0 | 85.0 |
| 85° | 136.6 | 56.7 | 43.8 | 33.5 | 41.2 | 105.6 | 167.5 | 175.2 | 100.5 | 43.8 | 33.5 |
| 87.5° | 18.0 | 7.7 | 7.7 | 10.3 | 7.7 | 18.0 | 51.5 | 49.0 | 28.3 | 5.2 | 0.0 |
| 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)