

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: P885306

Luminaire Tested: **NAV-SB6C-740-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885306  
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-740-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

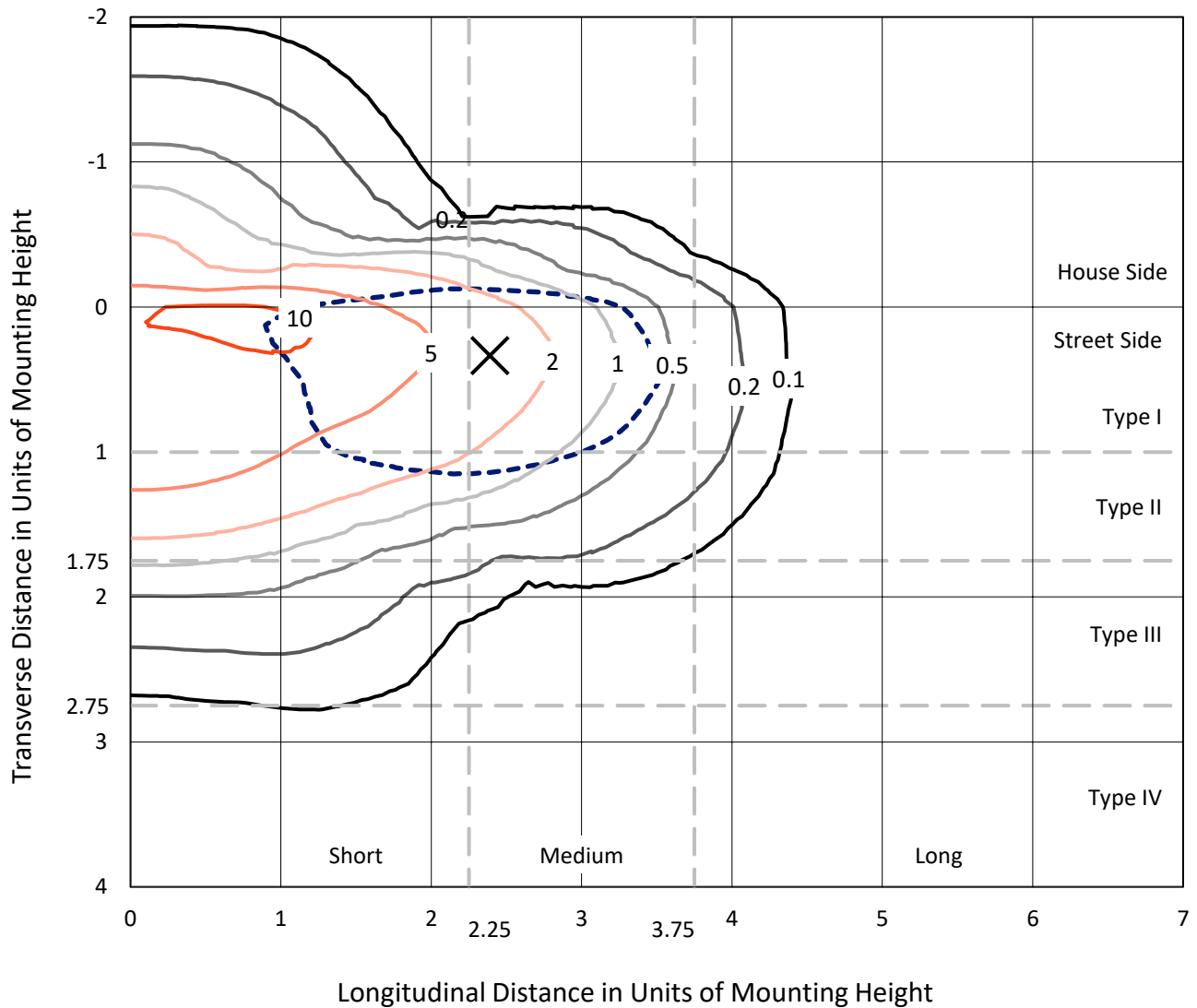
Lumens per Lamp: N/A  
Luminaire Lumens: 35787 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

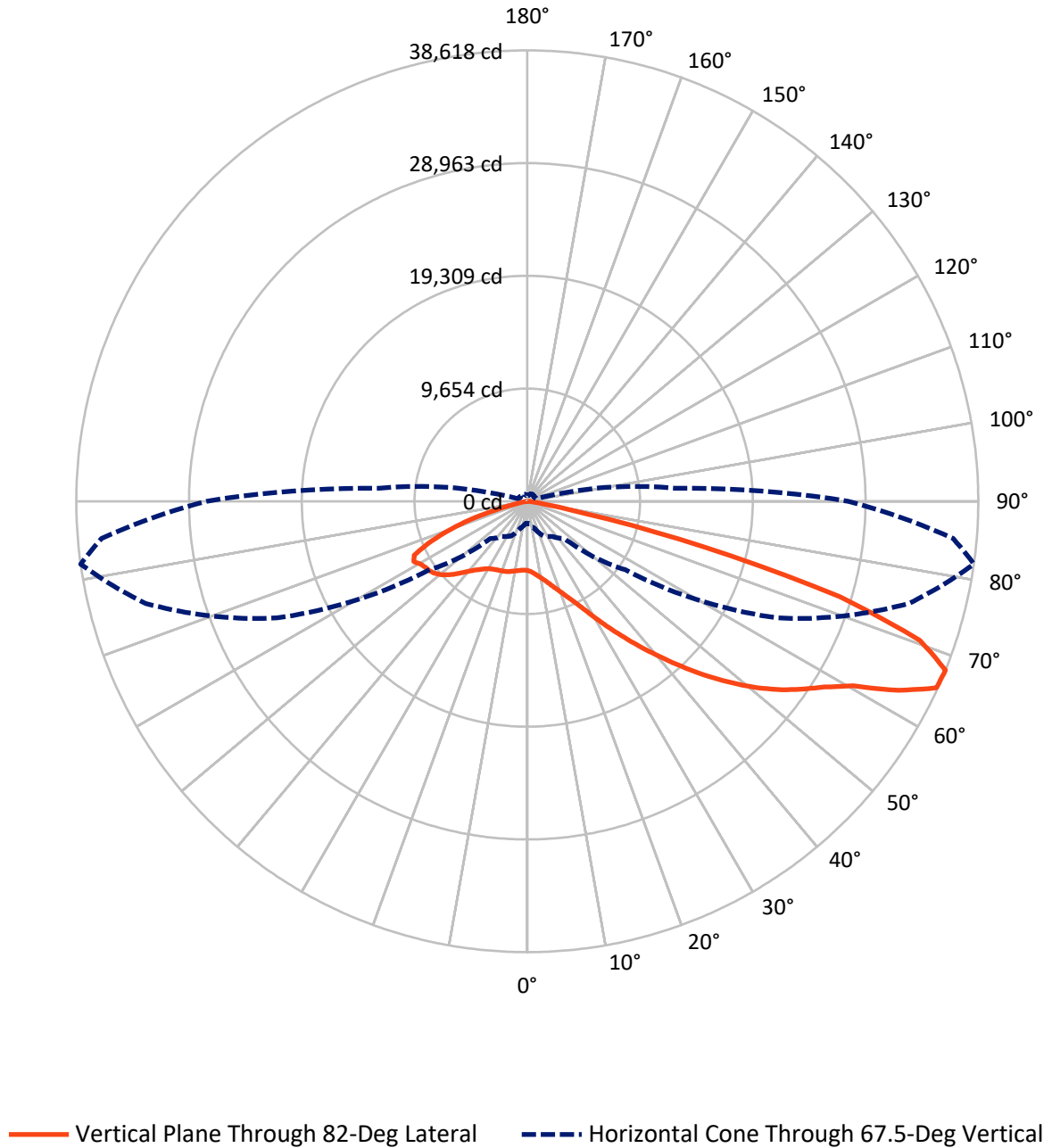
✕ Max cd  
 - - - 1/2 Max cd



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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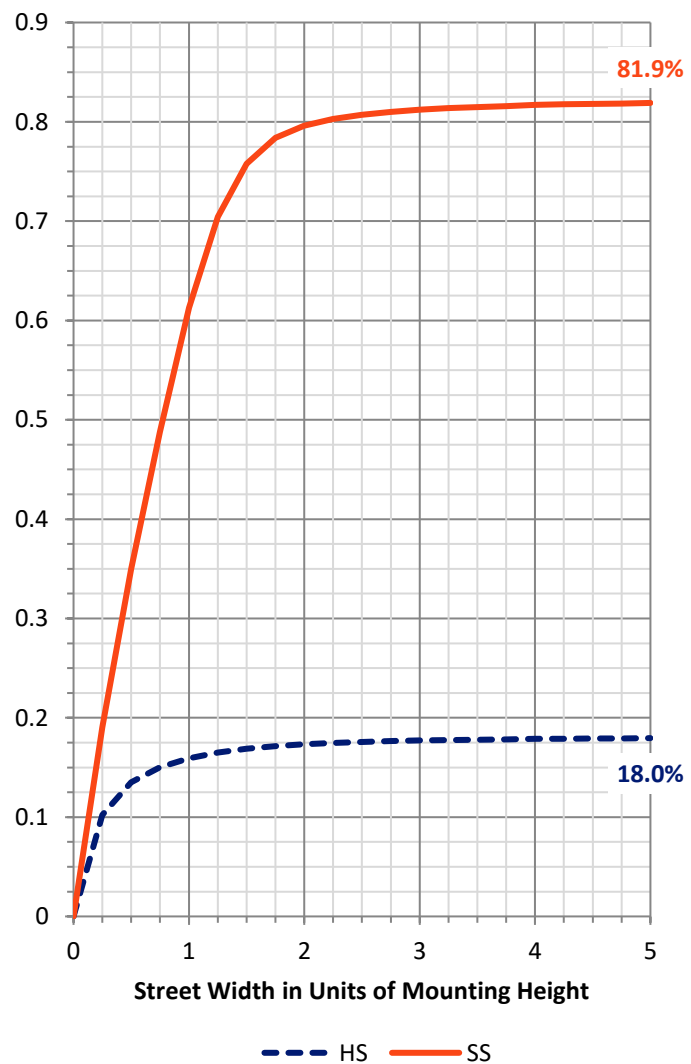
**FLUX DISTRIBUTION:**

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

**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     |

**Coefficient of Utilization**



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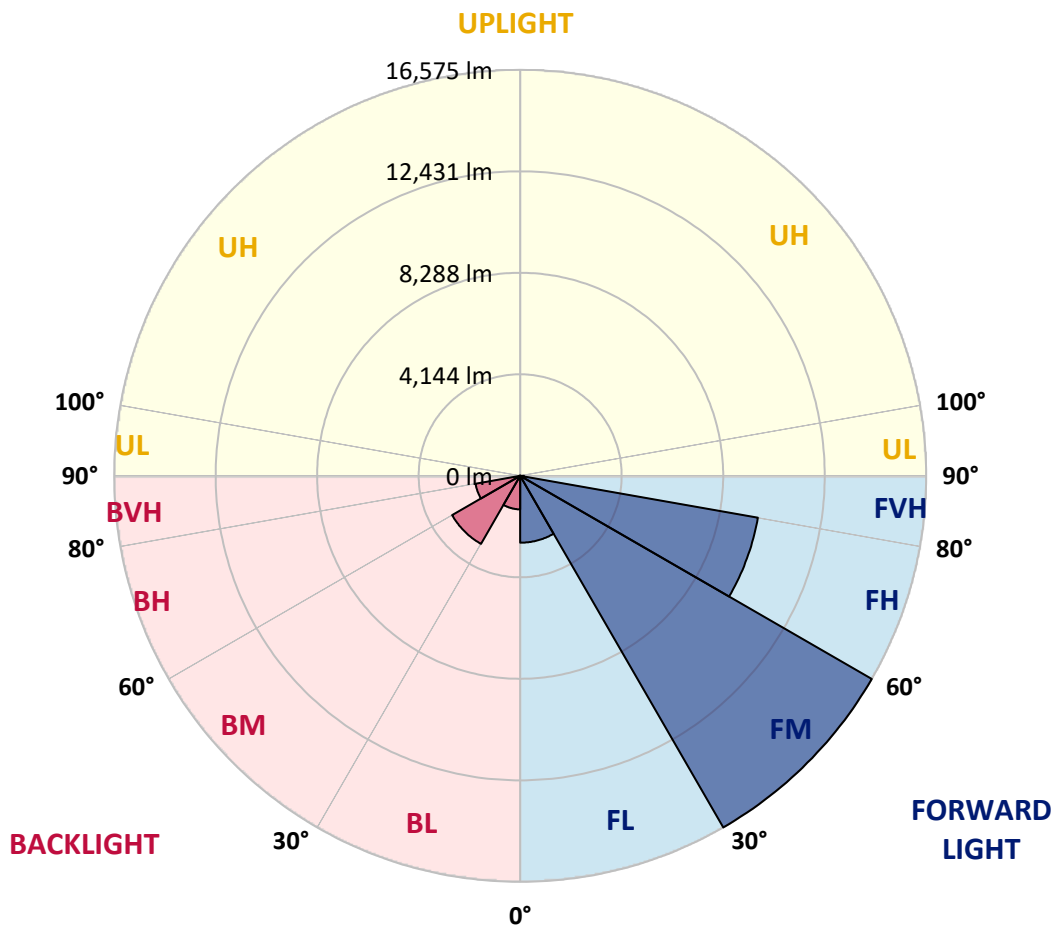
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 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)