

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: P970277

Luminaire Tested: **NAV-SB6B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22676.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

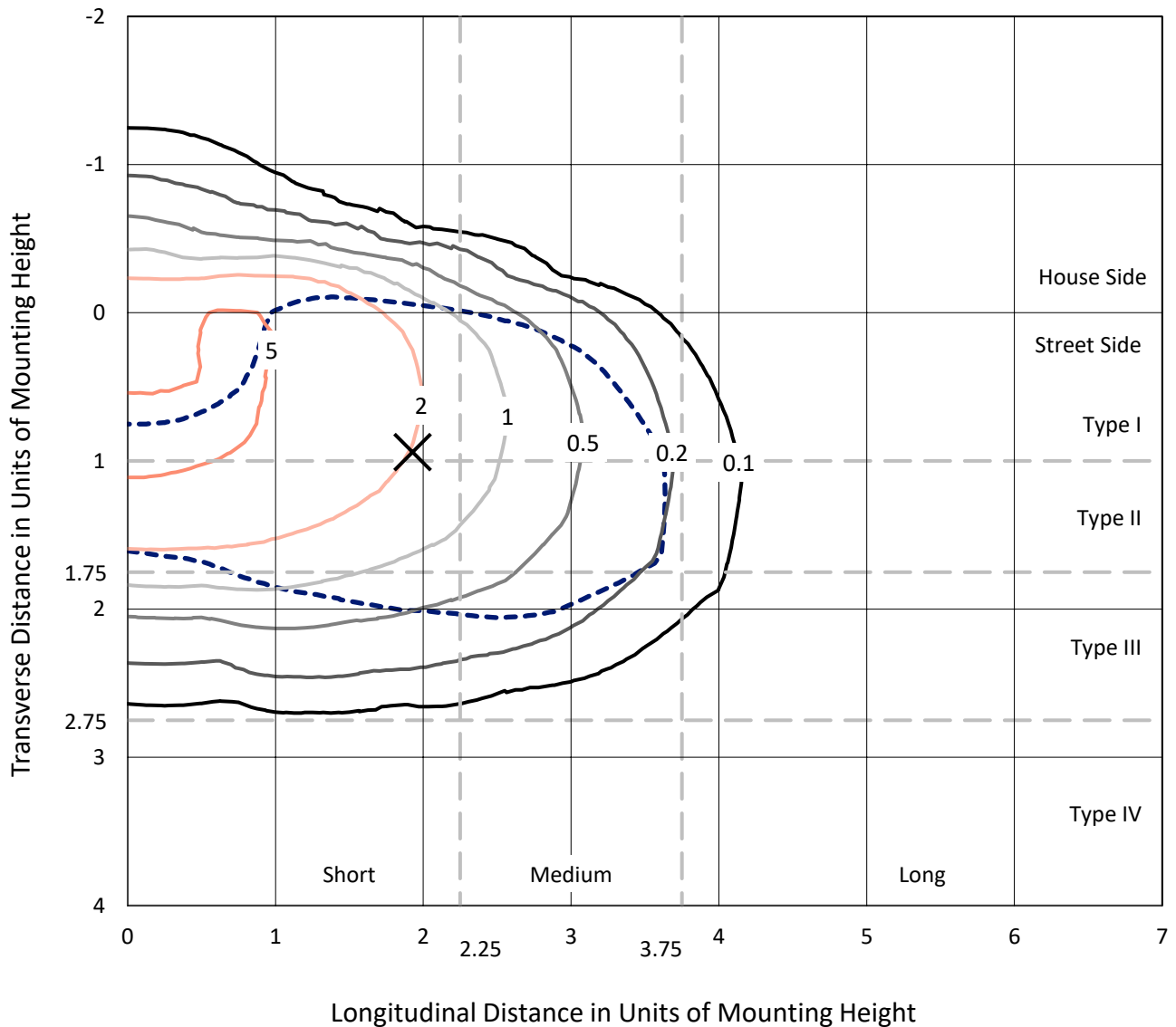
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

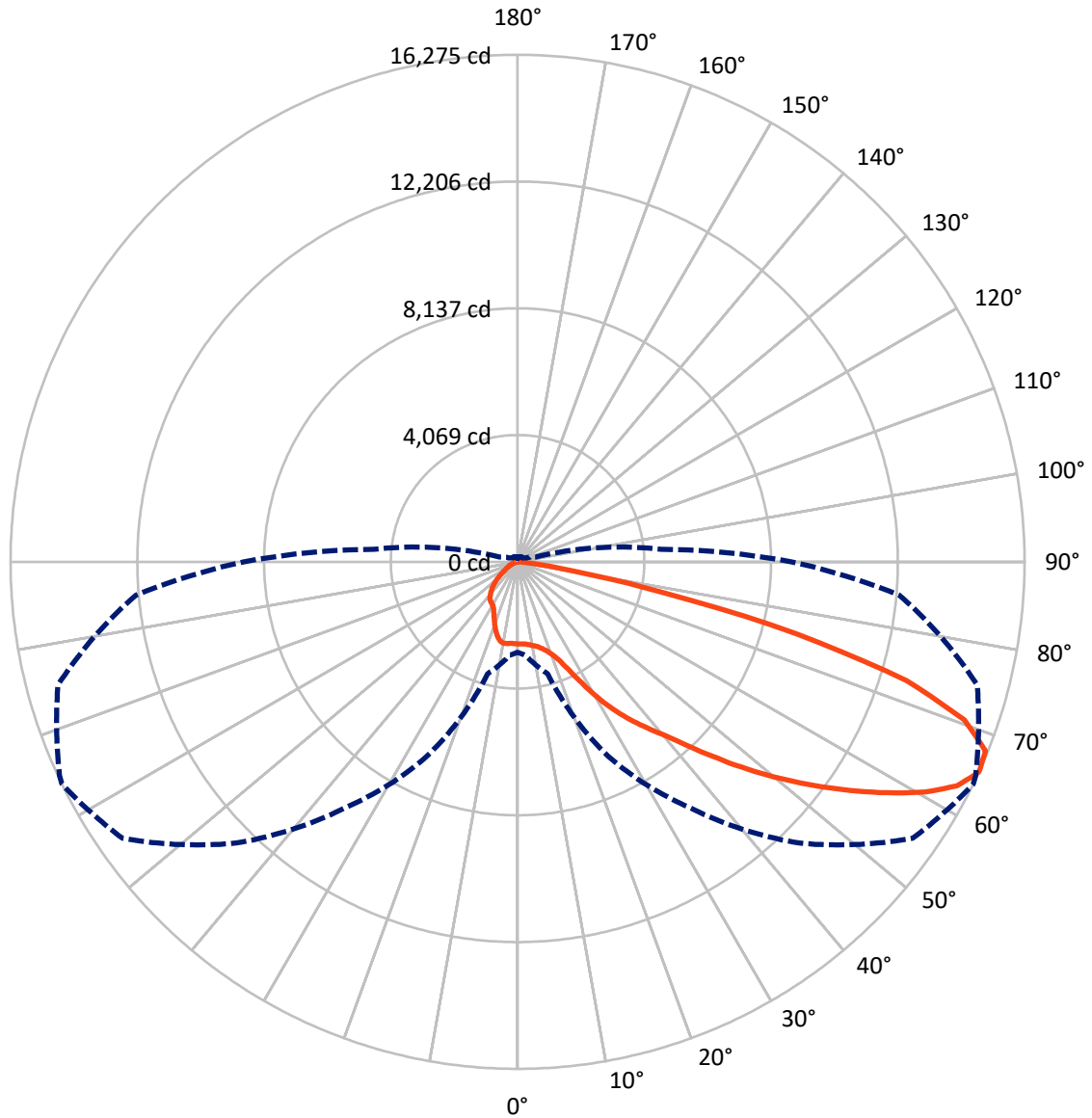
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3032.5 | 0.0 | 3032.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 19643.6 | 0.0 | 19643.6 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 22676.1 | 0.0 | 22676.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.3 | 1.1 |
| 10°-20° | 660.0 | 2.9 |
| 20°-30° | 1250.6 | 5.5 |
| 30°-40° | 2530.7 | 11.2 |
| 40°-50° | 4311.0 | 19.0 |
| 50°-60° | 5862.6 | 25.9 |
| 60°-70° | 5505.3 | 24.3 |
| 70°-80° | 2205.7 | 9.7 |
| 80°-90° | 106.9 | 0.5 |
| 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° | 22676.1 | 100.0 |
| 0°-180° | 22676.1 | 100.0 |

Coefficient of Utilization



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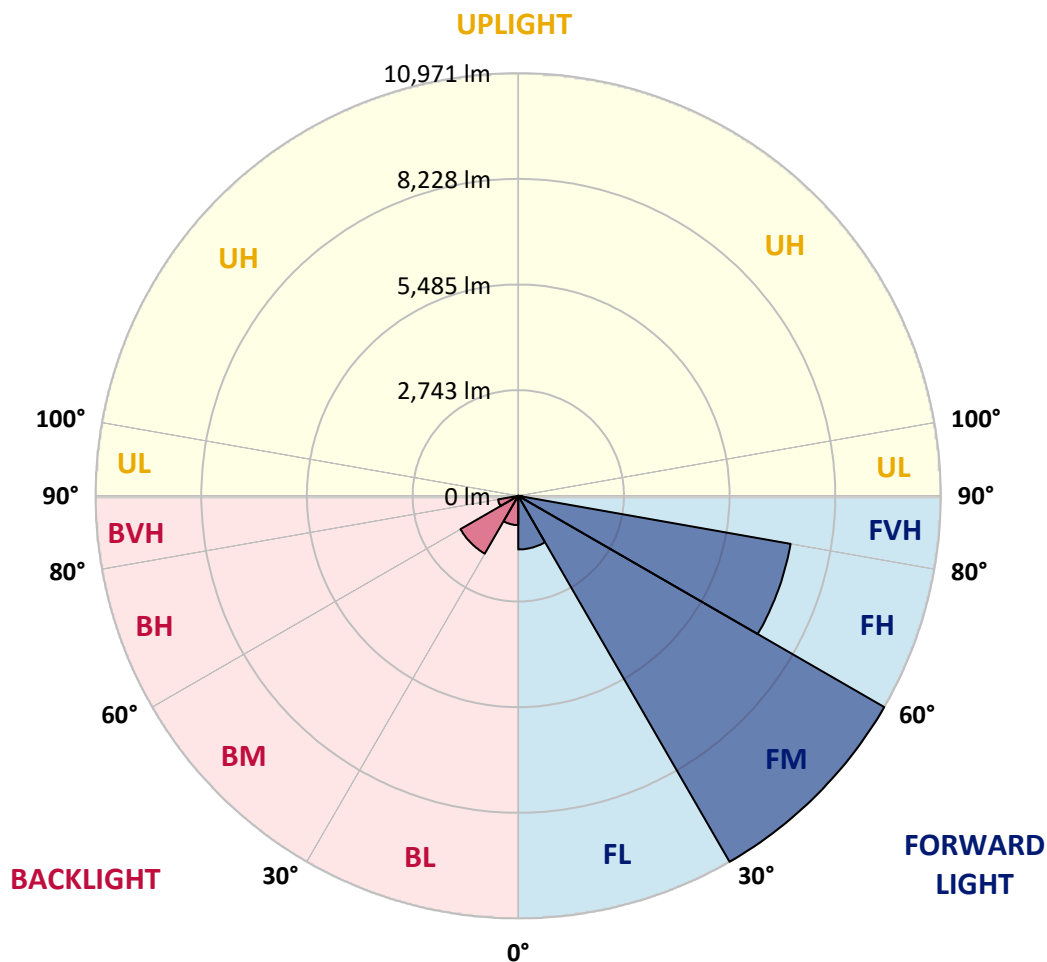
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1392.6 | 6.1 | | | |
| FM (30°-60°) | 10970.7 | 48.4 | | | |
| FH (60°-80°) | 7178.7 | 31.7 | | | G3/7500 |
| FVH (80°-90°) | 101.6 | 0.4 | | | G2/225 |
| BL (0°-30°) | 761.4 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1733.6 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 532.2 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 |
| 2.5° | 2628.3 | 2646.5 | 2642.0 | 2637.4 | 2636.0 | 2639.0 | 2640.5 | 2639.0 | 2639.0 | 2639.0 | 2640.5 |
| 5° | 2578.2 | 2593.4 | 2593.4 | 2604.0 | 2619.2 | 2637.4 | 2651.2 | 2654.1 | 2657.2 | 2661.8 | 2660.3 |
| 7.5° | 2482.4 | 2494.5 | 2503.7 | 2538.6 | 2576.6 | 2625.3 | 2666.3 | 2687.7 | 2690.6 | 2707.4 | 2713.5 |
| 10° | 2417.1 | 2432.2 | 2447.5 | 2483.9 | 2538.6 | 2611.6 | 2681.5 | 2733.3 | 2740.8 | 2780.3 | 2798.6 |
| 12.5° | 2414.0 | 2429.2 | 2448.9 | 2488.5 | 2552.4 | 2629.8 | 2715.0 | 2789.4 | 2803.2 | 2860.9 | 2898.9 |
| 15° | 2446.0 | 2464.2 | 2482.4 | 2531.0 | 2599.5 | 2693.7 | 2784.9 | 2877.7 | 2891.3 | 2973.4 | 3014.4 |
| 17.5° | 2511.2 | 2535.6 | 2549.3 | 2598.0 | 2670.9 | 2775.8 | 2895.9 | 3002.3 | 3014.4 | 3110.3 | 3161.9 |
| 20° | 2640.5 | 2669.4 | 2673.9 | 2713.5 | 2784.9 | 2897.4 | 3040.3 | 3172.6 | 3187.7 | 3297.2 | 3354.9 |
| 22.5° | 2908.0 | 2949.1 | 2912.6 | 2932.4 | 2996.2 | 3108.7 | 3263.8 | 3431.0 | 3452.3 | 3576.9 | 3628.6 |
| 25° | 3379.3 | 3437.0 | 3342.8 | 3309.4 | 3336.7 | 3453.7 | 3648.4 | 3859.6 | 3884.0 | 3984.3 | 4010.2 |
| 27.5° | 4305.1 | 4230.6 | 4087.7 | 3947.8 | 3865.8 | 3932.6 | 4151.6 | 4413.0 | 4443.4 | 4540.6 | 4510.3 |
| 30° | 5322.0 | 5256.7 | 5063.6 | 4753.5 | 4558.9 | 4548.3 | 4750.5 | 5042.4 | 5077.3 | 5170.0 | 5077.3 |
| 32.5° | 6340.5 | 6278.2 | 6068.4 | 5686.9 | 5349.4 | 5182.2 | 5322.0 | 5645.8 | 5664.0 | 5723.4 | 5586.6 |
| 35° | 7342.4 | 7278.5 | 7068.7 | 6678.0 | 6263.1 | 5883.0 | 5855.6 | 6220.4 | 6226.6 | 6288.9 | 6085.1 |
| 37.5° | 8350.2 | 8297.0 | 8073.5 | 7690.5 | 7281.5 | 6757.1 | 6503.2 | 6764.7 | 6772.3 | 6833.1 | 6621.8 |
| 40° | 9069.2 | 9092.1 | 8938.5 | 8642.1 | 8290.9 | 7717.8 | 7229.8 | 7343.8 | 7298.2 | 7400.1 | 7273.9 |
| 42.5° | 9686.5 | 9732.0 | 9598.2 | 9449.3 | 9245.6 | 8740.9 | 8129.8 | 8110.0 | 8037.0 | 8091.8 | 7961.1 |
| 45° | 10220.0 | 10258.0 | 10137.9 | 10102.9 | 10098.4 | 9744.2 | 9113.3 | 8994.8 | 8892.9 | 8882.2 | 8725.6 |
| 47.5° | 10416.0 | 10489.0 | 10540.7 | 10657.7 | 10885.8 | 10736.9 | 10130.3 | 9946.4 | 9832.3 | 9748.8 | 9500.9 |
| 50° | 10490.6 | 10568.1 | 10744.5 | 11085.0 | 11624.6 | 11688.5 | 11142.7 | 10935.9 | 10796.1 | 10644.1 | 10279.3 |
| 52.5° | 10390.2 | 10528.6 | 10765.7 | 11338.9 | 12121.6 | 12451.6 | 12114.1 | 11933.2 | 11773.6 | 11525.8 | 10984.6 |
| 55° | 9798.9 | 9937.3 | 10422.2 | 11335.8 | 12369.5 | 12986.6 | 13032.3 | 12951.7 | 12772.3 | 12381.6 | 11554.7 |
| 57.5° | 8552.4 | 8757.6 | 9525.2 | 10949.7 | 12364.9 | 13447.3 | 13932.2 | 13989.9 | 13789.3 | 13229.9 | 12003.2 |
| 60° | 6825.5 | 7103.7 | 8040.1 | 10093.8 | 11983.4 | 13696.6 | 14721.2 | 15010.0 | 14797.1 | 14066.0 | 12366.4 |
| 62.5° | 4762.7 | 5084.9 | 5971.1 | 8753.0 | 11110.8 | 13517.2 | 15297.3 | 15830.8 | 15669.7 | 14813.9 | 12506.3 |
| 65° | 2905.1 | 3008.4 | 3722.8 | 6887.8 | 9627.1 | 12766.3 | 15475.1 | 16274.7 | 16221.5 | 15271.5 | 12299.6 |
| 67.5° | 1935.2 | 2021.8 | 2227.0 | 4723.1 | 7473.1 | 11265.9 | 15049.5 | 16197.3 | 16212.4 | 15197.0 | 11542.5 |
| 70° | 1165.9 | 1240.5 | 1374.2 | 2746.9 | 4843.2 | 8917.2 | 13731.5 | 15209.2 | 15297.3 | 14201.3 | 10107.5 |
| 72.5° | 480.4 | 530.5 | 652.1 | 1245.0 | 2508.3 | 5659.5 | 10934.5 | 13058.1 | 13263.3 | 11940.8 | 7757.3 |
| 75° | 272.1 | 298.0 | 383.0 | 624.7 | 1088.4 | 2637.4 | 6623.3 | 9269.9 | 9572.4 | 8230.1 | 4666.8 |
| 77.5° | 180.9 | 193.1 | 247.7 | 404.4 | 612.6 | 900.0 | 2830.5 | 4829.5 | 5407.2 | 4495.1 | 2020.3 |
| 80° | 121.6 | 132.2 | 170.3 | 270.6 | 398.3 | 386.1 | 901.5 | 1789.2 | 2201.2 | 1544.5 | 492.5 |
| 82.5° | 82.1 | 83.6 | 121.6 | 177.8 | 252.4 | 187.0 | 266.0 | 556.4 | 699.3 | 446.9 | 187.0 |
| 85° | 47.2 | 45.6 | 89.7 | 103.3 | 112.4 | 77.5 | 80.6 | 167.2 | 218.9 | 188.5 | 106.4 |
| 87.5° | 6.0 | 9.1 | 35.0 | 27.4 | 15.2 | 16.7 | 16.7 | 28.9 | 42.5 | 45.6 | 22.8 |
| 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° | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 | 2637.4 |
| 2.5° | 2640.5 | 2639.0 | 2634.5 | 2629.8 | 2619.2 | 2613.1 | 2616.2 | 2613.1 | 2611.6 | 2613.1 | 2619.2 |
| 5° | 2660.3 | 2655.7 | 2643.6 | 2628.3 | 2607.1 | 2581.3 | 2564.4 | 2540.2 | 2517.4 | 2503.7 | 2506.7 |
| 7.5° | 2713.5 | 2708.9 | 2692.2 | 2649.6 | 2581.3 | 2473.3 | 2374.5 | 2287.8 | 2222.5 | 2184.5 | 2186.0 |
| 10° | 2798.6 | 2791.0 | 2765.1 | 2670.9 | 2491.6 | 2255.9 | 2059.8 | 1897.2 | 1790.8 | 1740.6 | 1736.0 |
| 12.5° | 2898.9 | 2889.8 | 2844.2 | 2651.2 | 2321.3 | 1953.4 | 1682.8 | 1501.9 | 1403.1 | 1359.0 | 1354.4 |
| 15° | 3017.5 | 3005.3 | 2915.6 | 2556.9 | 2073.5 | 1619.0 | 1371.1 | 1235.8 | 1172.1 | 1132.5 | 1134.1 |
| 17.5° | 3165.0 | 3143.7 | 2968.8 | 2415.5 | 1804.4 | 1363.6 | 1179.7 | 1077.8 | 1021.5 | 983.5 | 980.5 |
| 20° | 3356.5 | 3321.5 | 3011.4 | 2246.8 | 1556.7 | 1202.4 | 1050.4 | 965.3 | 922.7 | 889.3 | 883.2 |
| 22.5° | 3624.1 | 3573.9 | 3063.1 | 2064.4 | 1381.8 | 1091.4 | 954.7 | 892.4 | 857.4 | 819.4 | 813.2 |
| 25° | 3955.5 | 3896.1 | 3127.0 | 1895.6 | 1261.8 | 995.7 | 884.7 | 833.0 | 792.0 | 747.9 | 743.3 |
| 27.5° | 4419.1 | 4312.7 | 3202.9 | 1757.3 | 1158.4 | 913.6 | 820.9 | 763.1 | 716.0 | 679.5 | 671.9 |
| 30° | 4935.9 | 4761.1 | 3269.9 | 1673.7 | 1064.2 | 837.6 | 737.3 | 679.5 | 635.4 | 609.6 | 605.1 |
| 32.5° | 5425.4 | 5188.2 | 3313.9 | 1637.2 | 979.0 | 750.9 | 646.1 | 583.7 | 550.3 | 542.7 | 547.2 |
| 35° | 5887.5 | 5574.4 | 3309.4 | 1602.3 | 902.9 | 664.3 | 556.4 | 492.5 | 466.7 | 471.3 | 471.3 |
| 37.5° | 6419.6 | 5986.3 | 3277.4 | 1547.5 | 840.6 | 585.3 | 478.9 | 422.6 | 399.7 | 401.3 | 407.4 |
| 40° | 7038.3 | 6462.2 | 3257.7 | 1444.1 | 772.2 | 512.3 | 415.0 | 369.4 | 352.7 | 346.6 | 345.1 |
| 42.5° | 7698.1 | 6922.7 | 3260.7 | 1327.1 | 687.1 | 446.9 | 370.9 | 332.9 | 317.8 | 313.1 | 311.6 |
| 45° | 8360.8 | 7362.1 | 3265.2 | 1205.5 | 597.4 | 396.8 | 339.0 | 307.1 | 298.0 | 291.9 | 291.9 |
| 47.5° | 8984.1 | 7736.1 | 3180.2 | 1074.7 | 509.2 | 358.7 | 313.1 | 291.9 | 284.2 | 276.6 | 276.6 |
| 50° | 9564.8 | 7985.4 | 2975.0 | 922.7 | 439.3 | 328.3 | 293.4 | 278.2 | 270.6 | 263.0 | 263.0 |
| 52.5° | 10016.3 | 8024.9 | 2636.0 | 766.2 | 390.7 | 305.6 | 281.3 | 267.5 | 258.4 | 250.8 | 249.3 |
| 55° | 10216.9 | 7777.1 | 2154.0 | 620.2 | 352.7 | 285.8 | 269.1 | 255.4 | 244.8 | 237.2 | 235.6 |
| 57.5° | 10165.2 | 7255.7 | 1679.8 | 498.6 | 316.2 | 266.0 | 253.9 | 244.8 | 232.6 | 220.4 | 218.9 |
| 60° | 9911.3 | 6558.0 | 1266.3 | 415.0 | 282.8 | 244.8 | 237.2 | 229.5 | 212.8 | 194.5 | 191.6 |
| 62.5° | 9472.0 | 5680.9 | 902.9 | 343.6 | 246.3 | 220.4 | 217.4 | 211.3 | 187.0 | 153.5 | 150.5 |
| 65° | 8800.1 | 4615.2 | 608.0 | 285.8 | 211.3 | 193.1 | 194.5 | 184.0 | 152.0 | 114.0 | 111.0 |
| 67.5° | 7818.2 | 3374.7 | 389.2 | 234.1 | 176.3 | 161.1 | 162.7 | 156.6 | 129.3 | 97.3 | 92.8 |
| 70° | 6567.1 | 2234.6 | 253.9 | 177.8 | 141.3 | 124.6 | 133.8 | 135.3 | 109.5 | 79.0 | 76.1 |
| 72.5° | 4814.3 | 1319.5 | 177.8 | 132.2 | 103.3 | 86.6 | 109.5 | 112.4 | 88.1 | 59.2 | 56.3 |
| 75° | 2743.8 | 626.3 | 133.8 | 95.7 | 63.9 | 60.8 | 85.2 | 85.2 | 60.8 | 39.6 | 36.5 |
| 77.5° | 1152.3 | 261.5 | 94.3 | 62.3 | 36.5 | 35.0 | 57.8 | 53.2 | 30.4 | 18.2 | 18.2 |
| 80° | 332.9 | 117.1 | 50.1 | 30.4 | 15.2 | 13.6 | 22.8 | 16.7 | 7.6 | 3.1 | 3.1 |
| 82.5° | 130.7 | 51.7 | 19.8 | 12.2 | 6.0 | 6.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 77.5 | 21.3 | 9.1 | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 19.8 | 4.5 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)