

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: STREETWORKS

Report Number: P885120

Luminaire Tested: **NVN-SB6B-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25474 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

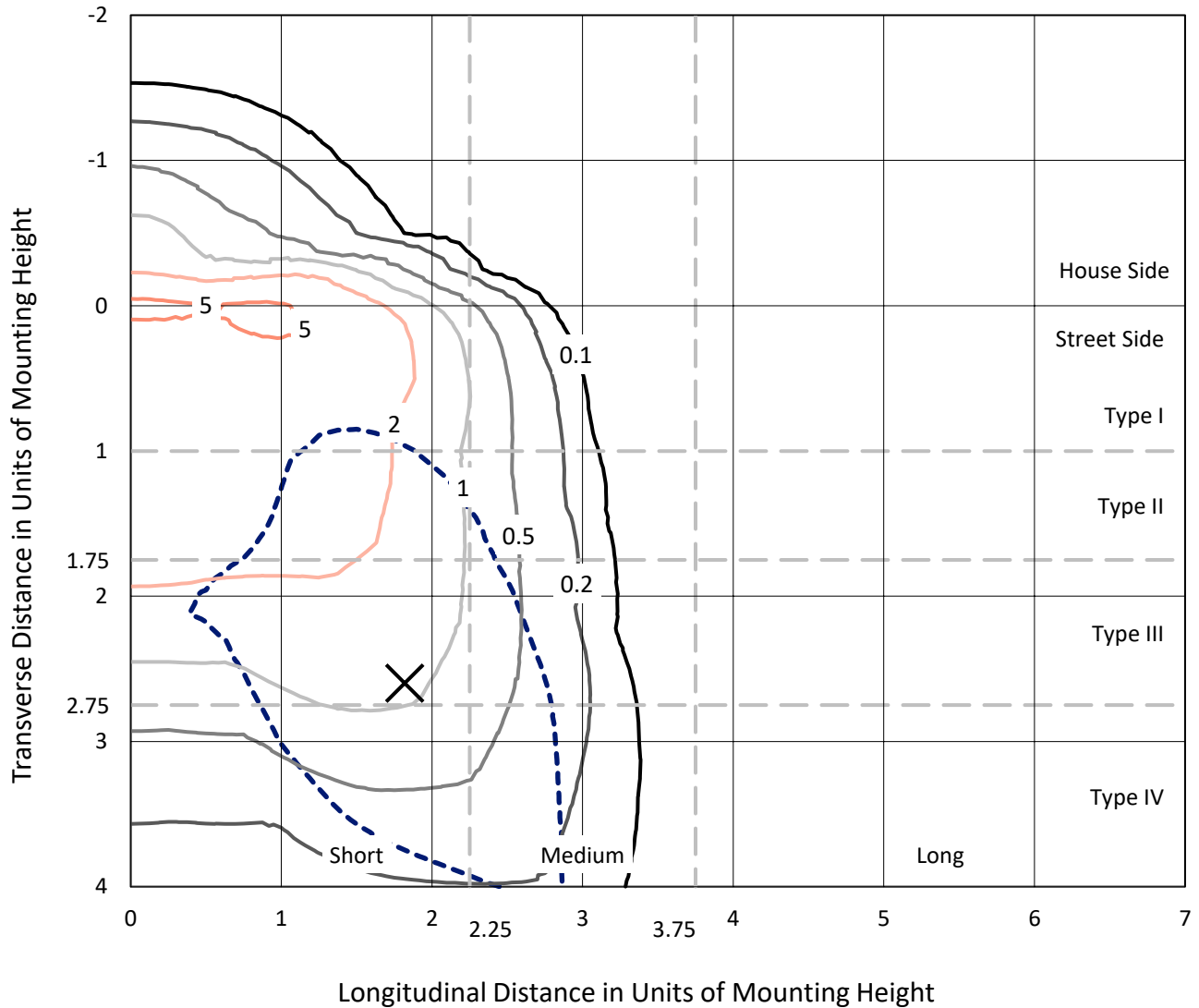
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

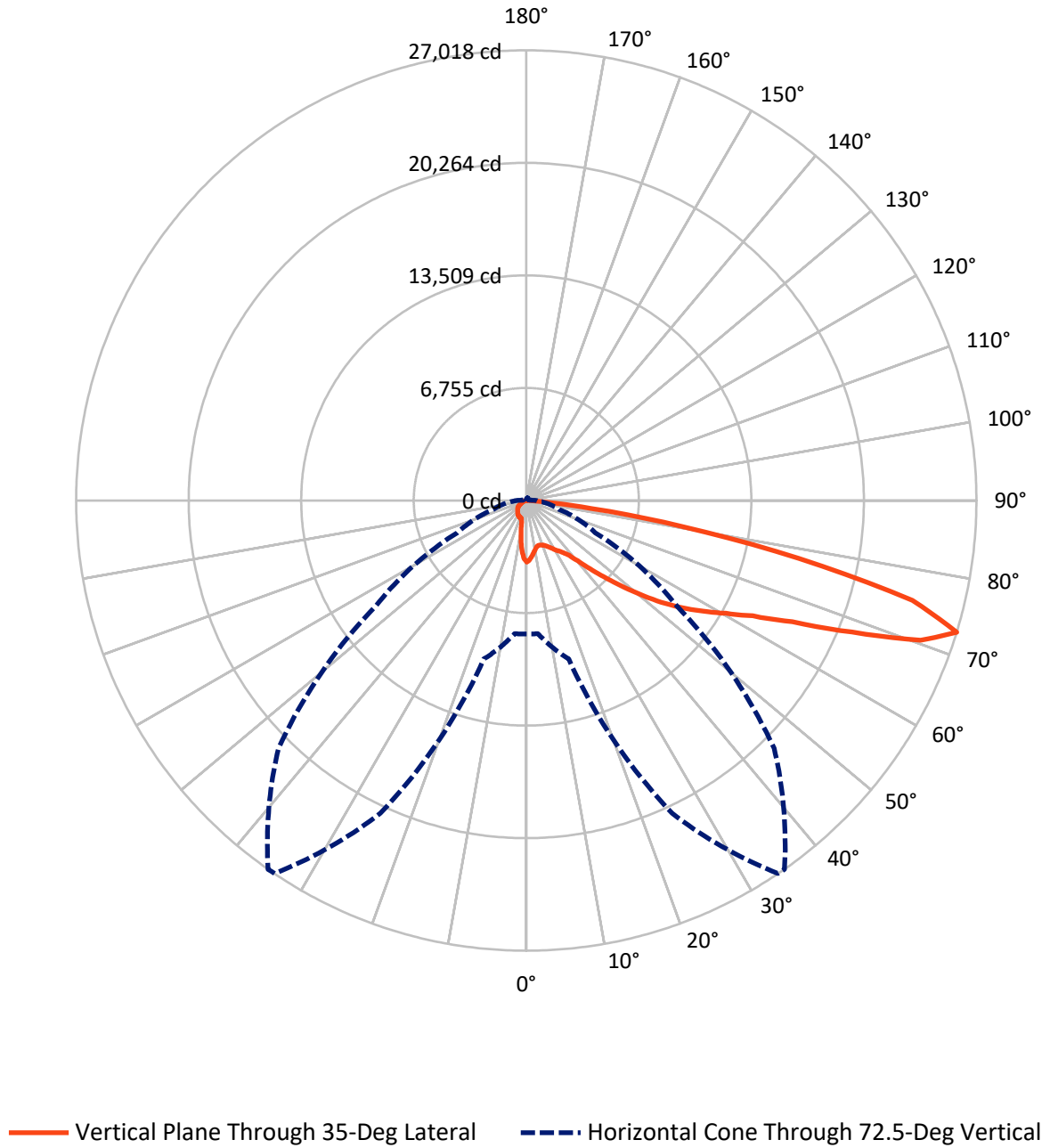
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2867.0 | 0.0 | 2867.0 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 22607.0 | 0.0 | 22607.0 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 25474.0 | 0.0 | 25474.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 303.4 | 1.2 |
| 10°-20° | 709.7 | 2.8 |
| 20°-30° | 1152.9 | 4.5 |
| 30°-40° | 1923.7 | 7.6 |
| 40°-50° | 3639.7 | 14.3 |
| 50°-60° | 5783.4 | 22.7 |
| 60°-70° | 7154.5 | 28.1 |
| 70°-80° | 4447.3 | 17.5 |
| 80°-90° | 359.4 | 1.4 |
| 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° | 25474.0 | 100.0 |
| 0°-180° | 25474.0 | 100.0 |

Coefficient of Utilization



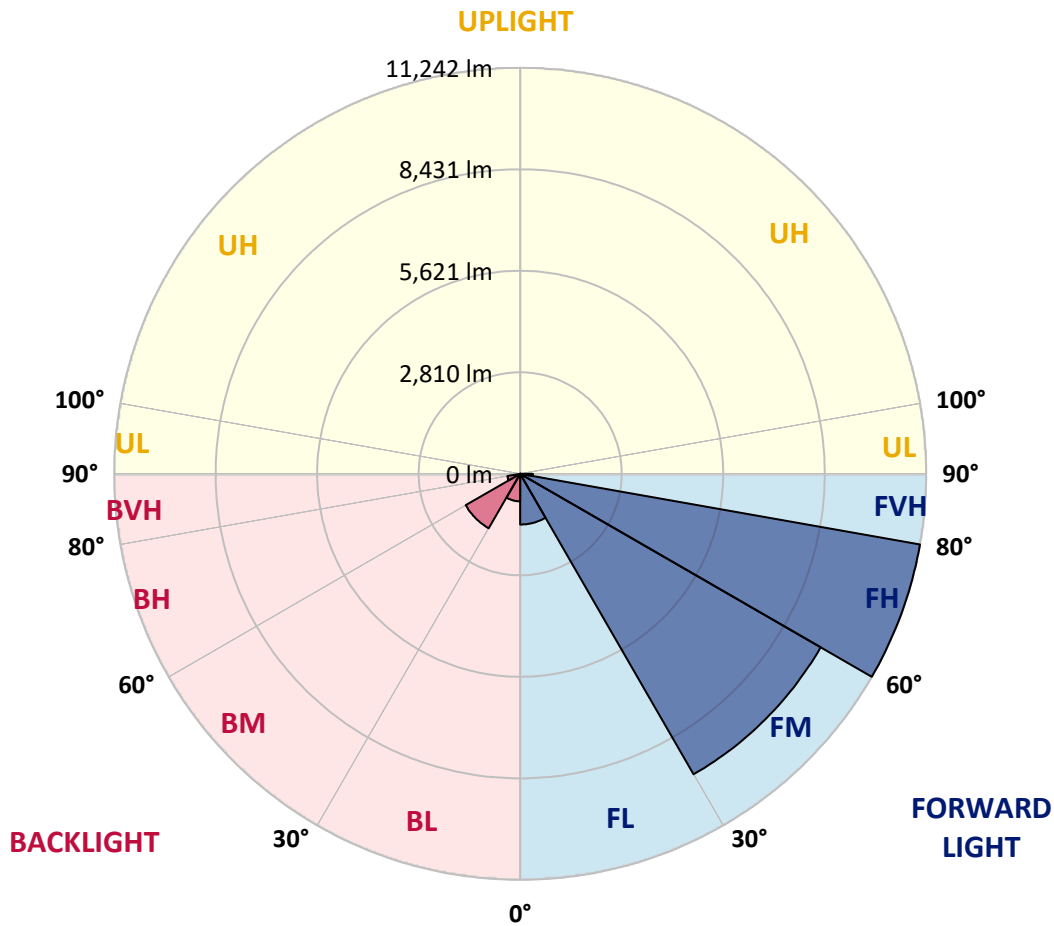
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1404.3 | 5.5 | | | |
| FM (30°-60°) | 9606.2 | 37.7 | | | |
| FH (60°-80°) | 11242.0 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 354.5 | 1.4 | | | G3/500 |
| BL (0°-30°) | 761.8 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1740.5 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 359.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.9 | 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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 |
| 2.5° | 3527.8 | 3557.6 | 3563.2 | 3572.6 | 3572.6 | 3583.8 | 3602.4 | 3628.6 | 3671.5 | 3693.9 | 3708.8 |
| 5° | 3251.5 | 3273.9 | 3301.9 | 3324.3 | 3367.3 | 3372.9 | 3445.7 | 3516.6 | 3615.5 | 3690.2 | 3742.4 |
| 7.5° | 2973.4 | 2999.5 | 3036.9 | 3091.0 | 3147.0 | 3163.8 | 3273.9 | 3393.4 | 3550.2 | 3690.2 | 3777.9 |
| 10° | 2777.4 | 2779.3 | 2812.9 | 2867.0 | 2956.6 | 2977.1 | 3111.5 | 3281.4 | 3477.4 | 3667.8 | 3811.5 |
| 12.5° | 2667.3 | 2680.4 | 2695.3 | 2736.4 | 2822.2 | 2835.3 | 2979.0 | 3178.7 | 3404.6 | 3654.7 | 3850.7 |
| 15° | 2667.3 | 2676.6 | 2686.0 | 2706.5 | 2775.6 | 2786.8 | 2913.7 | 3113.4 | 3367.3 | 3660.3 | 3914.2 |
| 17.5° | 2695.3 | 2710.2 | 2702.8 | 2727.0 | 2799.8 | 2807.3 | 2919.3 | 3094.7 | 3365.4 | 3695.8 | 4011.2 |
| 20° | 2762.5 | 2773.7 | 2758.8 | 2773.7 | 2846.5 | 2861.4 | 2977.1 | 3130.2 | 3397.1 | 3757.4 | 4132.5 |
| 22.5° | 2868.9 | 2874.5 | 2839.0 | 2850.2 | 2924.9 | 2943.5 | 3077.9 | 3231.0 | 3473.7 | 3856.3 | 4294.9 |
| 25° | 3003.3 | 3014.5 | 2960.3 | 2973.4 | 3044.3 | 3066.7 | 3221.7 | 3382.2 | 3595.0 | 3992.6 | 4502.1 |
| 27.5° | 3158.2 | 3163.8 | 3117.1 | 3115.3 | 3206.7 | 3238.5 | 3395.3 | 3568.8 | 3757.4 | 4164.3 | 4763.4 |
| 30° | 3335.5 | 3352.3 | 3307.5 | 3300.1 | 3415.8 | 3441.9 | 3596.8 | 3798.4 | 3996.3 | 4421.9 | 5134.9 |
| 32.5° | 3475.5 | 3488.6 | 3462.5 | 3481.1 | 3598.7 | 3619.2 | 3841.4 | 4123.2 | 4371.5 | 4787.7 | 5640.7 |
| 35° | 3677.1 | 3684.6 | 3624.8 | 3658.4 | 3792.8 | 3845.1 | 4175.5 | 4578.6 | 4843.7 | 5246.9 | 6301.5 |
| 37.5° | 4406.9 | 4406.9 | 4153.1 | 3987.0 | 4115.7 | 4162.4 | 4632.8 | 5151.7 | 5426.1 | 5862.8 | 7134.0 |
| 40° | 5416.7 | 5399.9 | 5028.5 | 4688.8 | 4672.0 | 4763.4 | 5284.2 | 5874.0 | 6178.3 | 6602.0 | 8071.0 |
| 42.5° | 6493.7 | 6467.6 | 5961.8 | 5625.8 | 5569.8 | 5601.5 | 6036.4 | 6764.4 | 7074.2 | 7503.5 | 9078.9 |
| 45° | 7449.4 | 7441.9 | 6979.0 | 6527.3 | 6426.5 | 6527.3 | 6975.3 | 7805.9 | 8028.0 | 8479.7 | 10085.0 |
| 47.5° | 8250.2 | 8250.2 | 7912.3 | 7617.4 | 7565.1 | 7624.9 | 8246.4 | 8961.3 | 8940.8 | 9519.4 | 11064.9 |
| 50° | 9172.2 | 9164.8 | 8843.7 | 8716.8 | 8770.9 | 8854.9 | 9709.8 | 10178.3 | 9885.3 | 10540.4 | 11940.3 |
| 52.5° | 9818.1 | 9862.9 | 9752.7 | 9732.2 | 10008.4 | 10154.0 | 11195.6 | 11369.2 | 10730.8 | 11509.1 | 12595.5 |
| 55° | 10329.5 | 10381.8 | 10508.7 | 10652.4 | 11184.4 | 11374.8 | 12634.7 | 12498.4 | 11438.2 | 12349.1 | 12972.5 |
| 57.5° | 11053.7 | 10979.0 | 11175.0 | 11458.8 | 12319.2 | 12548.8 | 14029.0 | 13564.2 | 12007.5 | 13030.4 | 13013.6 |
| 60° | 11932.9 | 11944.1 | 11977.7 | 12336.0 | 13452.2 | 13747.1 | 15402.8 | 14572.2 | 12373.4 | 13448.5 | 12558.2 |
| 62.5° | 12989.3 | 13006.1 | 13075.2 | 13625.8 | 14973.5 | 15251.6 | 16866.1 | 15397.2 | 12541.4 | 13330.9 | 11382.2 |
| 65° | 12916.5 | 12987.5 | 13758.3 | 15641.7 | 17286.1 | 17560.5 | 18574.0 | 15975.8 | 12287.5 | 12255.8 | 9267.4 |
| 67.5° | 11766.7 | 11882.5 | 13172.2 | 18049.5 | 20772.8 | 21079.0 | 20638.4 | 16089.7 | 11191.8 | 9530.6 | 6045.8 |
| 70° | 10258.6 | 10299.6 | 11850.7 | 20214.7 | 24810.2 | 25120.0 | 22486.3 | 14837.2 | 8492.8 | 5315.9 | 2708.4 |
| 72.5° | 8011.2 | 8020.6 | 9840.5 | 20716.8 | 27001.5 | 27018.3 | 21036.0 | 11014.5 | 4567.4 | 2042.0 | 940.7 |
| 75° | 5722.8 | 5666.8 | 6590.8 | 16800.8 | 23755.6 | 23946.0 | 15770.5 | 5166.6 | 1745.2 | 965.0 | 468.5 |
| 77.5° | 3068.6 | 3130.2 | 3729.4 | 9963.6 | 16410.7 | 16735.5 | 8604.8 | 1489.5 | 888.5 | 657.0 | 309.8 |
| 80° | 948.2 | 1000.5 | 1528.7 | 4561.8 | 9295.4 | 9491.4 | 3189.9 | 662.6 | 619.7 | 468.5 | 203.5 |
| 82.5° | 298.6 | 309.8 | 713.0 | 1916.9 | 3858.2 | 3947.8 | 923.9 | 375.2 | 423.7 | 309.8 | 119.5 |
| 85° | 85.9 | 87.7 | 317.3 | 714.9 | 953.8 | 972.5 | 259.5 | 145.6 | 242.7 | 192.3 | 61.6 |
| 87.5° | 9.3 | 29.9 | 119.5 | 119.5 | 84.0 | 82.1 | 28.0 | 31.7 | 69.1 | 24.3 | 11.2 |
| 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° | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 | 3692.0 |
| 2.5° | 3699.5 | 3701.4 | 3677.1 | 3636.0 | 3591.2 | 3553.9 | 3507.2 | 3469.9 | 3443.8 | 3436.3 | 3449.4 |
| 5° | 3725.6 | 3712.6 | 3643.5 | 3518.4 | 3369.1 | 3240.3 | 3096.6 | 2982.7 | 2908.1 | 2876.4 | 2887.6 |
| 7.5° | 3764.8 | 3727.5 | 3576.3 | 3329.9 | 3044.3 | 2790.5 | 2532.9 | 2333.2 | 2206.3 | 2142.8 | 2152.1 |
| 10° | 3798.4 | 3723.8 | 3464.3 | 3057.4 | 2620.6 | 2236.1 | 1888.9 | 1648.2 | 1513.8 | 1450.3 | 1452.2 |
| 12.5° | 3830.2 | 3721.9 | 3318.7 | 2734.5 | 2142.8 | 1672.4 | 1349.5 | 1230.1 | 1192.7 | 1179.7 | 1175.9 |
| 15° | 3889.9 | 3727.5 | 3135.8 | 2364.9 | 1666.8 | 1263.7 | 1146.1 | 1144.2 | 1151.7 | 1147.9 | 1146.1 |
| 17.5° | 3972.0 | 3733.1 | 2928.6 | 1972.9 | 1286.1 | 1114.3 | 1108.7 | 1125.5 | 1136.7 | 1131.1 | 1129.3 |
| 20° | 4078.4 | 3755.5 | 2708.4 | 1584.7 | 1105.0 | 1077.0 | 1090.1 | 1105.0 | 1114.3 | 1105.0 | 1103.1 |
| 22.5° | 4227.7 | 3794.7 | 2467.6 | 1273.0 | 1047.1 | 1054.6 | 1065.8 | 1082.6 | 1091.9 | 1078.9 | 1077.0 |
| 25° | 4410.7 | 3856.3 | 2230.5 | 1106.9 | 1019.1 | 1028.5 | 1045.3 | 1063.9 | 1075.1 | 1062.1 | 1060.2 |
| 27.5° | 4647.7 | 3955.2 | 2012.1 | 1069.5 | 991.1 | 996.7 | 1021.0 | 1049.0 | 1063.9 | 1047.1 | 1047.1 |
| 30° | 4991.2 | 4117.6 | 1823.6 | 1086.3 | 974.3 | 961.3 | 994.9 | 1034.1 | 1050.9 | 1035.9 | 1034.1 |
| 32.5° | 5446.6 | 4347.2 | 1707.9 | 1112.5 | 966.9 | 920.2 | 951.9 | 1002.3 | 1030.3 | 1021.0 | 1021.0 |
| 35° | 6043.9 | 4696.2 | 1663.1 | 1142.3 | 961.3 | 877.3 | 899.7 | 953.8 | 1002.3 | 1011.7 | 1011.7 |
| 37.5° | 6768.1 | 5181.5 | 1676.2 | 1155.4 | 944.5 | 841.8 | 853.0 | 899.7 | 963.1 | 993.0 | 1000.5 |
| 40° | 7591.3 | 5747.1 | 1750.8 | 1142.3 | 925.8 | 811.9 | 813.8 | 849.3 | 905.3 | 950.1 | 965.0 |
| 42.5° | 8440.5 | 6407.9 | 1888.9 | 1093.8 | 909.0 | 785.8 | 780.2 | 804.5 | 841.8 | 873.5 | 886.6 |
| 45° | 9248.8 | 7087.3 | 2025.2 | 1026.6 | 888.5 | 759.7 | 746.6 | 756.0 | 763.4 | 776.5 | 784.0 |
| 47.5° | 9954.3 | 7565.1 | 1986.0 | 965.0 | 860.5 | 729.8 | 707.4 | 703.7 | 681.3 | 679.4 | 677.6 |
| 50° | 10441.5 | 7669.7 | 1763.9 | 903.4 | 819.4 | 696.2 | 660.8 | 638.4 | 599.2 | 580.5 | 582.4 |
| 52.5° | 10596.4 | 7257.1 | 1441.0 | 841.8 | 752.2 | 651.4 | 601.0 | 565.6 | 517.0 | 500.2 | 498.4 |
| 55° | 10391.1 | 6448.9 | 1151.7 | 767.2 | 658.9 | 591.7 | 535.7 | 489.0 | 449.8 | 429.3 | 429.3 |
| 57.5° | 9889.0 | 5420.5 | 910.9 | 679.4 | 560.0 | 524.5 | 468.5 | 421.8 | 388.2 | 367.7 | 364.0 |
| 60° | 9056.5 | 4304.3 | 720.5 | 574.9 | 477.8 | 451.7 | 393.8 | 364.0 | 334.1 | 309.8 | 304.2 |
| 62.5° | 7792.8 | 3072.3 | 565.6 | 455.4 | 399.4 | 369.6 | 336.0 | 313.6 | 278.1 | 244.5 | 238.9 |
| 65° | 6081.2 | 1879.6 | 436.8 | 334.1 | 321.0 | 306.1 | 285.6 | 265.1 | 222.1 | 188.5 | 182.9 |
| 67.5° | 3835.8 | 890.3 | 311.7 | 252.0 | 253.9 | 246.4 | 237.1 | 220.3 | 188.5 | 158.7 | 154.9 |
| 70° | 1689.2 | 431.2 | 205.3 | 192.3 | 188.5 | 188.5 | 196.0 | 190.4 | 160.5 | 132.5 | 126.9 |
| 72.5° | 574.9 | 231.5 | 153.1 | 145.6 | 136.3 | 134.4 | 164.3 | 158.7 | 128.8 | 102.7 | 97.1 |
| 75° | 300.5 | 154.9 | 112.0 | 104.5 | 82.1 | 98.9 | 130.7 | 123.2 | 91.5 | 67.2 | 61.6 |
| 77.5° | 196.0 | 110.1 | 76.5 | 67.2 | 46.7 | 65.3 | 97.1 | 85.9 | 54.1 | 33.6 | 29.9 |
| 80° | 123.2 | 72.8 | 44.8 | 31.7 | 22.4 | 35.5 | 52.3 | 37.3 | 20.5 | 7.5 | 5.6 |
| 82.5° | 65.3 | 37.3 | 16.8 | 11.2 | 9.3 | 11.2 | 13.1 | 9.3 | 3.7 | 0.0 | 0.0 |
| 85° | 26.1 | 13.1 | 5.6 | 3.7 | 1.9 | 0.0 | 3.7 | 1.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.3 | 1.9 | 0.0 | 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)