

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: P885270

Luminaire Tested: **NVN-SB6C-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885270
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-SB6C-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA 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: 27426 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

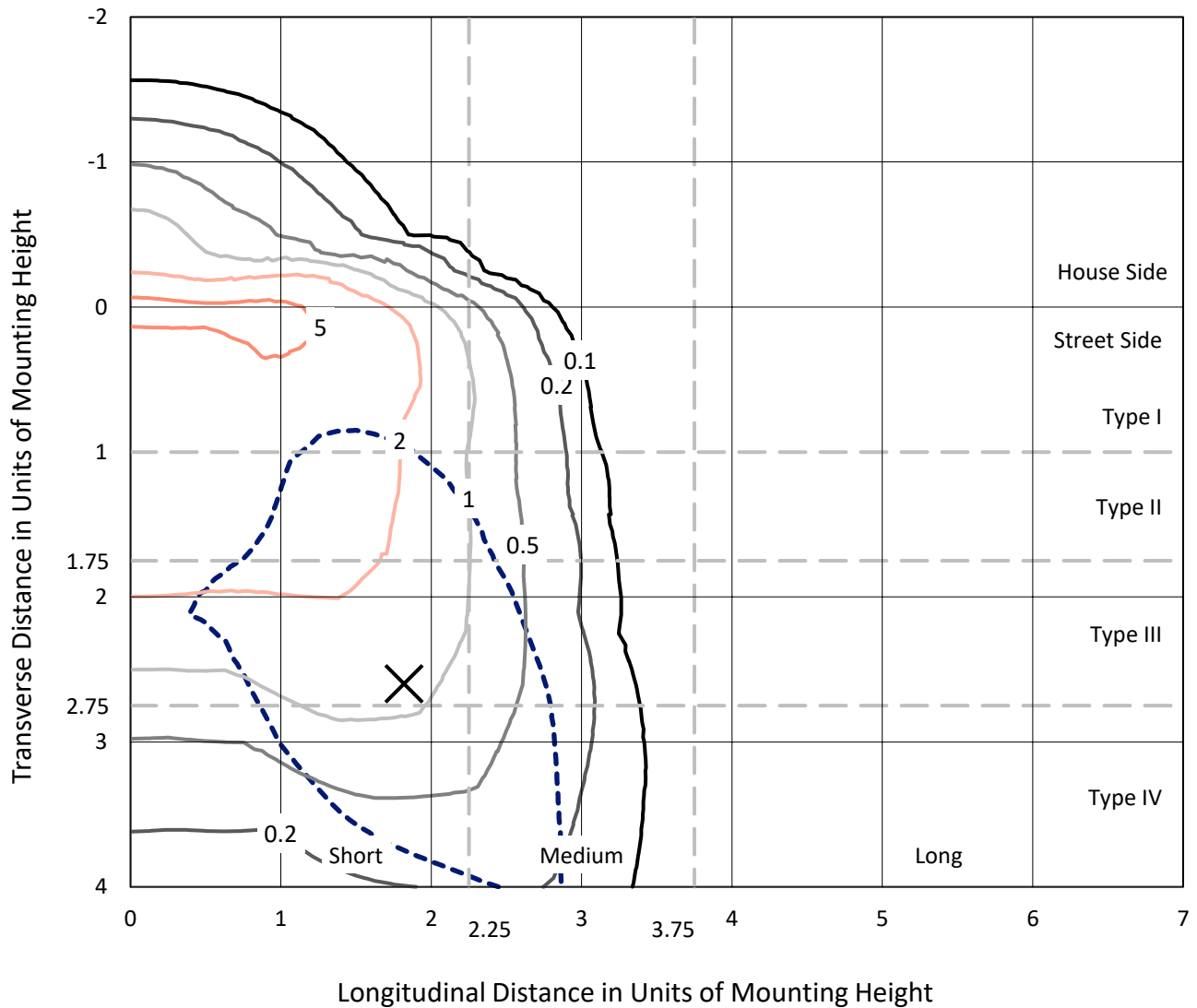
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

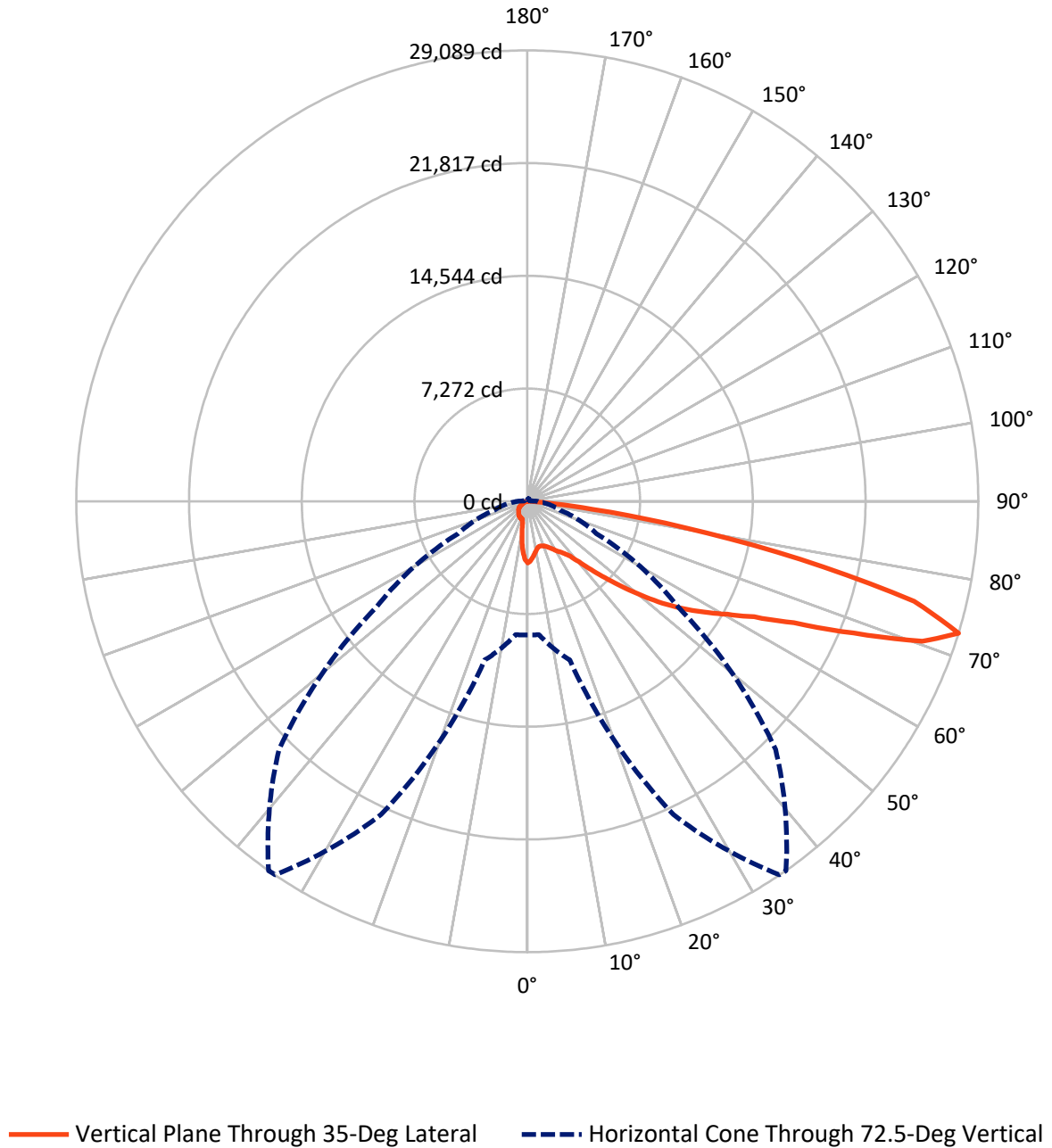
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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 | 3086.7 | 0.0 | 3086.7 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 24339.3 | 0.0 | 24339.3 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 27426.0 | 0.0 | 27426.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 326.6 | 1.2 |
| 10°-20° | 764.1 | 2.8 |
| 20°-30° | 1241.3 | 4.5 |
| 30°-40° | 2071.1 | 7.6 |
| 40°-50° | 3918.6 | 14.3 |
| 50°-60° | 6226.6 | 22.7 |
| 60°-70° | 7702.7 | 28.1 |
| 70°-80° | 4788.1 | 17.5 |
| 80°-90° | 386.9 | 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° | 27426.0 | 100.0 |
| 0°-180° | 27426.0 | 100.0 |

Coefficient of Utilization



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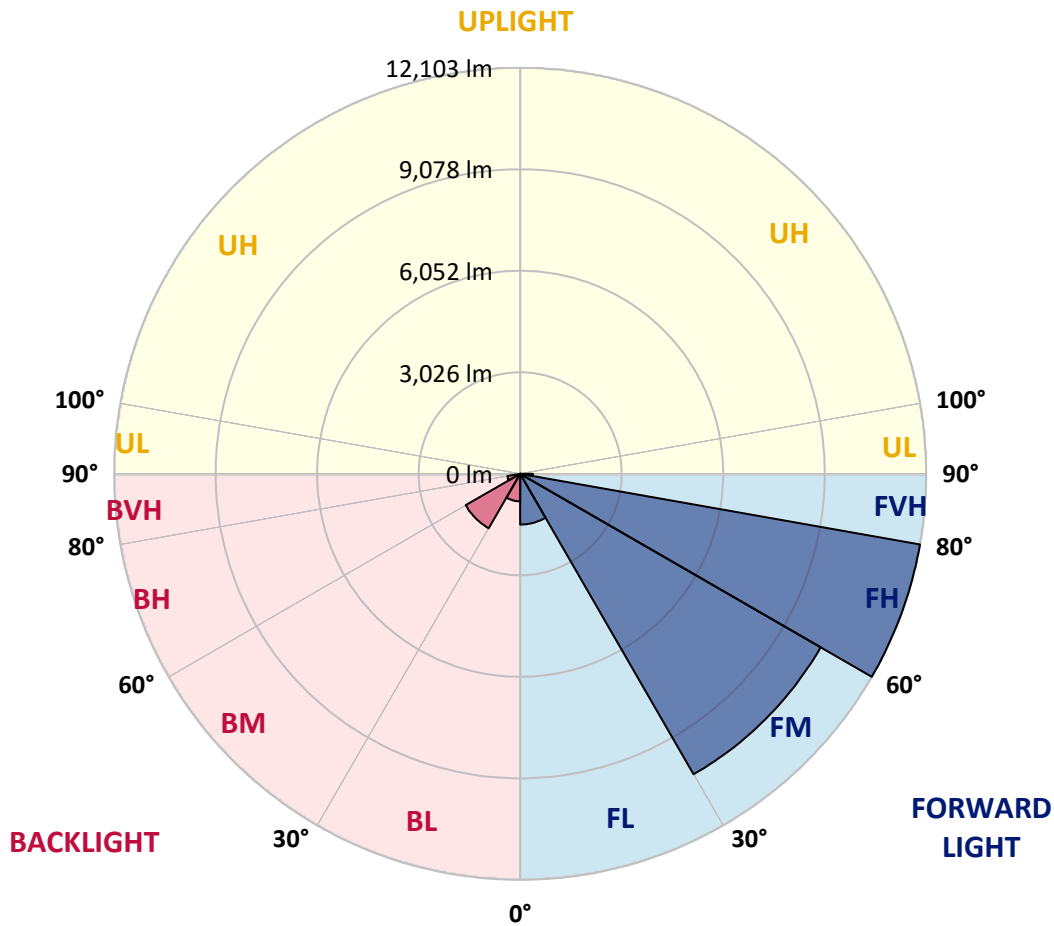
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1511.9 | 5.5 | | | |
| FM (30°-60°) | 10342.3 | 37.7 | | | |
| FH (60°-80°) | 12103.4 | 44.1 | | | G5 |
| FVH (80°-90°) | 381.7 | 1.4 | | | G3/500 |
| BL (0°-30°) | 820.2 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1873.9 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 387.3 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.3 | 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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 |
| 2.5° | 3798.1 | 3830.3 | 3836.3 | 3846.3 | 3846.3 | 3858.4 | 3878.5 | 3906.6 | 3952.8 | 3977.0 | 3993.0 |
| 5° | 3500.7 | 3524.8 | 3554.9 | 3579.1 | 3625.3 | 3631.3 | 3709.7 | 3786.0 | 3892.6 | 3972.9 | 4029.2 |
| 7.5° | 3201.3 | 3229.4 | 3269.6 | 3327.9 | 3388.1 | 3406.2 | 3524.8 | 3653.4 | 3822.2 | 3972.9 | 4067.4 |
| 10° | 2990.3 | 2992.3 | 3028.4 | 3086.7 | 3183.2 | 3205.3 | 3350.0 | 3532.8 | 3743.8 | 3948.8 | 4103.6 |
| 12.5° | 2871.7 | 2885.8 | 2901.8 | 2946.0 | 3038.5 | 3052.6 | 3207.3 | 3422.3 | 3665.5 | 3934.8 | 4145.8 |
| 15° | 2871.7 | 2881.7 | 2891.8 | 2913.9 | 2988.2 | 3000.3 | 3137.0 | 3352.0 | 3625.3 | 3940.8 | 4214.1 |
| 17.5° | 2901.8 | 2917.9 | 2909.9 | 2936.0 | 3014.4 | 3022.4 | 3143.0 | 3331.9 | 3623.3 | 3979.0 | 4318.6 |
| 20° | 2974.2 | 2986.2 | 2970.2 | 2986.2 | 3064.6 | 3080.7 | 3205.3 | 3370.1 | 3657.4 | 4045.3 | 4449.2 |
| 22.5° | 3088.7 | 3094.8 | 3056.6 | 3068.6 | 3149.0 | 3169.1 | 3313.8 | 3478.6 | 3739.8 | 4151.8 | 4624.0 |
| 25° | 3233.4 | 3245.5 | 3187.2 | 3201.3 | 3277.6 | 3301.7 | 3468.5 | 3641.4 | 3870.4 | 4298.5 | 4847.1 |
| 27.5° | 3400.2 | 3406.2 | 3356.0 | 3354.0 | 3452.5 | 3486.6 | 3655.4 | 3842.3 | 4045.3 | 4483.4 | 5128.4 |
| 30° | 3591.1 | 3609.2 | 3561.0 | 3552.9 | 3677.5 | 3705.7 | 3872.5 | 4089.5 | 4302.5 | 4760.7 | 5528.4 |
| 32.5° | 3741.8 | 3755.9 | 3727.8 | 3747.9 | 3874.5 | 3896.6 | 4135.7 | 4439.2 | 4706.4 | 5154.6 | 6072.9 |
| 35° | 3958.9 | 3966.9 | 3902.6 | 3938.8 | 4083.5 | 4139.7 | 4495.4 | 4929.5 | 5214.9 | 5648.9 | 6784.3 |
| 37.5° | 4744.6 | 4744.6 | 4471.3 | 4292.5 | 4431.1 | 4481.4 | 4987.8 | 5546.4 | 5841.8 | 6312.1 | 7680.6 |
| 40° | 5831.8 | 5813.7 | 5413.8 | 5048.1 | 5030.0 | 5128.4 | 5689.1 | 6324.1 | 6651.7 | 7107.9 | 8689.4 |
| 42.5° | 6991.3 | 6963.2 | 6418.6 | 6056.9 | 5996.6 | 6030.7 | 6499.0 | 7282.7 | 7616.3 | 8078.5 | 9774.6 |
| 45° | 8020.2 | 8012.2 | 7513.8 | 7027.5 | 6919.0 | 7027.5 | 7509.8 | 8404.1 | 8643.2 | 9129.5 | 10857.8 |
| 47.5° | 8882.3 | 8882.3 | 8518.6 | 8201.1 | 8144.8 | 8209.1 | 8878.3 | 9648.0 | 9625.9 | 10248.9 | 11912.8 |
| 50° | 9875.1 | 9867.0 | 9521.4 | 9384.7 | 9443.0 | 9533.4 | 10453.8 | 10958.2 | 10642.7 | 11348.1 | 12855.3 |
| 52.5° | 10570.4 | 10618.6 | 10500.0 | 10477.9 | 10775.4 | 10932.1 | 12053.5 | 12240.3 | 11553.1 | 12391.1 | 13560.6 |
| 55° | 11121.0 | 11177.3 | 11313.9 | 11468.7 | 12041.4 | 12246.4 | 13602.8 | 13456.1 | 12314.7 | 13295.4 | 13966.6 |
| 57.5° | 11900.7 | 11820.3 | 12031.3 | 12336.8 | 13263.2 | 13510.4 | 15104.0 | 14603.6 | 12927.6 | 14028.9 | 14010.8 |
| 60° | 12847.2 | 12859.3 | 12895.5 | 13281.3 | 14483.0 | 14800.5 | 16583.0 | 15688.8 | 13321.5 | 14479.0 | 13520.4 |
| 62.5° | 13984.7 | 14002.7 | 14077.1 | 14669.9 | 16120.8 | 16420.3 | 18158.6 | 16577.0 | 13502.4 | 14352.4 | 12254.4 |
| 65° | 13906.3 | 13982.6 | 14812.6 | 16840.3 | 18610.7 | 18906.1 | 19997.3 | 17200.0 | 13229.1 | 13194.9 | 9977.6 |
| 67.5° | 12668.4 | 12793.0 | 14181.6 | 19432.6 | 22364.6 | 22694.2 | 22219.9 | 17322.6 | 12049.4 | 10260.9 | 6509.0 |
| 70° | 11044.6 | 11088.9 | 12758.8 | 21763.7 | 26711.3 | 27044.9 | 24209.4 | 15974.1 | 9143.6 | 5723.3 | 2915.9 |
| 72.5° | 8625.1 | 8635.2 | 10594.5 | 22304.3 | 29070.6 | 29088.7 | 22648.0 | 11858.5 | 4917.4 | 2198.5 | 1012.8 |
| 75° | 6161.4 | 6101.1 | 7095.8 | 18088.2 | 25575.9 | 25780.9 | 16978.9 | 5562.5 | 1879.0 | 1039.0 | 504.4 |
| 77.5° | 3303.7 | 3370.1 | 4015.1 | 10727.1 | 17668.2 | 18017.9 | 9264.2 | 1603.6 | 956.6 | 707.4 | 333.6 |
| 80° | 1020.9 | 1077.1 | 1645.8 | 4911.4 | 10007.7 | 10218.7 | 3434.4 | 713.4 | 667.2 | 504.4 | 219.0 |
| 82.5° | 321.5 | 333.6 | 767.7 | 2063.8 | 4153.8 | 4250.3 | 994.7 | 403.9 | 456.2 | 333.6 | 128.6 |
| 85° | 92.4 | 94.5 | 341.6 | 769.7 | 1026.9 | 1047.0 | 279.3 | 156.7 | 261.2 | 207.0 | 66.3 |
| 87.5° | 10.0 | 32.2 | 128.6 | 128.6 | 90.4 | 88.4 | 30.1 | 34.2 | 74.4 | 26.1 | 12.1 |
| 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° | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 | 3974.9 |
| 2.5° | 3983.0 | 3985.0 | 3958.9 | 3914.7 | 3866.4 | 3826.2 | 3776.0 | 3735.8 | 3707.7 | 3699.6 | 3713.7 |
| 5° | 4011.1 | 3997.1 | 3922.7 | 3788.1 | 3627.3 | 3488.6 | 3333.9 | 3211.3 | 3130.9 | 3096.8 | 3108.8 |
| 7.5° | 4053.3 | 4013.1 | 3850.4 | 3585.1 | 3277.6 | 3004.3 | 2727.0 | 2512.0 | 2375.3 | 2307.0 | 2317.0 |
| 10° | 4089.5 | 4009.1 | 3729.8 | 3291.7 | 2821.4 | 2407.5 | 2033.7 | 1774.5 | 1629.8 | 1561.4 | 1563.5 |
| 12.5° | 4123.7 | 4007.1 | 3573.0 | 2944.0 | 2307.0 | 1800.6 | 1452.9 | 1324.3 | 1284.1 | 1270.1 | 1266.0 |
| 15° | 4188.0 | 4013.1 | 3376.1 | 2546.1 | 1794.6 | 1360.5 | 1233.9 | 1231.9 | 1239.9 | 1235.9 | 1233.9 |
| 17.5° | 4276.4 | 4019.2 | 3153.0 | 2124.1 | 1384.6 | 1199.7 | 1193.7 | 1211.8 | 1223.8 | 1217.8 | 1215.8 |
| 20° | 4390.9 | 4043.3 | 2915.9 | 1706.1 | 1189.7 | 1159.5 | 1173.6 | 1189.7 | 1199.7 | 1189.7 | 1187.7 |
| 22.5° | 4551.7 | 4085.5 | 2656.7 | 1370.5 | 1127.4 | 1135.4 | 1147.5 | 1165.6 | 1175.6 | 1161.5 | 1159.5 |
| 25° | 4748.6 | 4151.8 | 2401.4 | 1191.7 | 1097.2 | 1107.3 | 1125.4 | 1145.5 | 1157.5 | 1143.5 | 1141.4 |
| 27.5° | 5003.9 | 4258.3 | 2166.3 | 1151.5 | 1067.1 | 1073.1 | 1099.2 | 1129.4 | 1145.5 | 1127.4 | 1127.4 |
| 30° | 5373.6 | 4433.1 | 1963.4 | 1169.6 | 1049.0 | 1034.9 | 1071.1 | 1113.3 | 1131.4 | 1115.3 | 1113.3 |
| 32.5° | 5864.0 | 4680.3 | 1838.8 | 1197.7 | 1041.0 | 990.7 | 1024.9 | 1079.1 | 1109.3 | 1099.2 | 1099.2 |
| 35° | 6507.0 | 5056.1 | 1790.5 | 1229.9 | 1034.9 | 944.5 | 968.6 | 1026.9 | 1079.1 | 1089.2 | 1089.2 |
| 37.5° | 7286.7 | 5578.6 | 1804.6 | 1243.9 | 1016.8 | 906.3 | 918.4 | 968.6 | 1036.9 | 1069.1 | 1077.1 |
| 40° | 8173.0 | 6187.5 | 1885.0 | 1229.9 | 996.8 | 874.2 | 876.2 | 914.4 | 974.6 | 1022.9 | 1039.0 |
| 42.5° | 9087.3 | 6898.9 | 2033.7 | 1177.6 | 978.7 | 846.0 | 840.0 | 866.1 | 906.3 | 940.5 | 954.5 |
| 45° | 9957.5 | 7630.4 | 2180.4 | 1105.3 | 956.6 | 817.9 | 803.8 | 813.9 | 821.9 | 836.0 | 844.0 |
| 47.5° | 10717.1 | 8144.8 | 2138.2 | 1039.0 | 926.4 | 785.7 | 761.6 | 757.6 | 733.5 | 731.5 | 729.5 |
| 50° | 11241.6 | 8257.4 | 1899.1 | 972.6 | 882.2 | 749.6 | 711.4 | 687.3 | 645.1 | 625.0 | 627.0 |
| 52.5° | 11408.4 | 7813.2 | 1551.4 | 906.3 | 809.9 | 701.3 | 647.1 | 608.9 | 556.7 | 538.6 | 536.6 |
| 55° | 11187.3 | 6943.1 | 1239.9 | 825.9 | 709.4 | 637.0 | 576.7 | 526.5 | 484.3 | 462.2 | 462.2 |
| 57.5° | 10646.7 | 5835.8 | 980.7 | 731.5 | 602.9 | 564.7 | 504.4 | 454.2 | 418.0 | 395.9 | 391.9 |
| 60° | 9750.5 | 4634.1 | 775.7 | 619.0 | 514.5 | 486.3 | 424.0 | 391.9 | 359.7 | 333.6 | 327.6 |
| 62.5° | 8390.0 | 3307.8 | 608.9 | 490.3 | 430.0 | 397.9 | 361.7 | 337.6 | 299.4 | 263.3 | 257.2 |
| 65° | 6547.2 | 2023.6 | 470.2 | 359.7 | 345.6 | 329.6 | 307.5 | 285.4 | 239.1 | 203.0 | 196.9 |
| 67.5° | 4129.7 | 958.6 | 335.6 | 271.3 | 273.3 | 265.3 | 255.2 | 237.1 | 203.0 | 170.8 | 166.8 |
| 70° | 1818.7 | 464.2 | 221.1 | 207.0 | 203.0 | 203.0 | 211.0 | 205.0 | 172.8 | 142.7 | 136.7 |
| 72.5° | 619.0 | 249.2 | 164.8 | 156.7 | 146.7 | 144.7 | 176.8 | 170.8 | 138.7 | 110.5 | 104.5 |
| 75° | 323.5 | 166.8 | 120.6 | 112.5 | 88.4 | 106.5 | 140.7 | 132.6 | 98.5 | 72.3 | 66.3 |
| 77.5° | 211.0 | 118.6 | 82.4 | 72.3 | 50.2 | 70.3 | 104.5 | 92.4 | 58.3 | 36.2 | 32.2 |
| 80° | 132.6 | 78.4 | 48.2 | 34.2 | 24.1 | 38.2 | 56.3 | 40.2 | 22.1 | 8.0 | 6.0 |
| 82.5° | 70.3 | 40.2 | 18.1 | 12.1 | 10.0 | 12.1 | 14.1 | 10.0 | 4.0 | 0.0 | 0.0 |
| 85° | 28.1 | 14.1 | 6.0 | 4.0 | 2.0 | 0.0 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.0 | 2.0 | 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)