

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: P968758

Luminaire Tested: **NVN-SB5C-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968758
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: STREETWORKS
Catalog Number: NVN-SB5C-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 30411.7 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

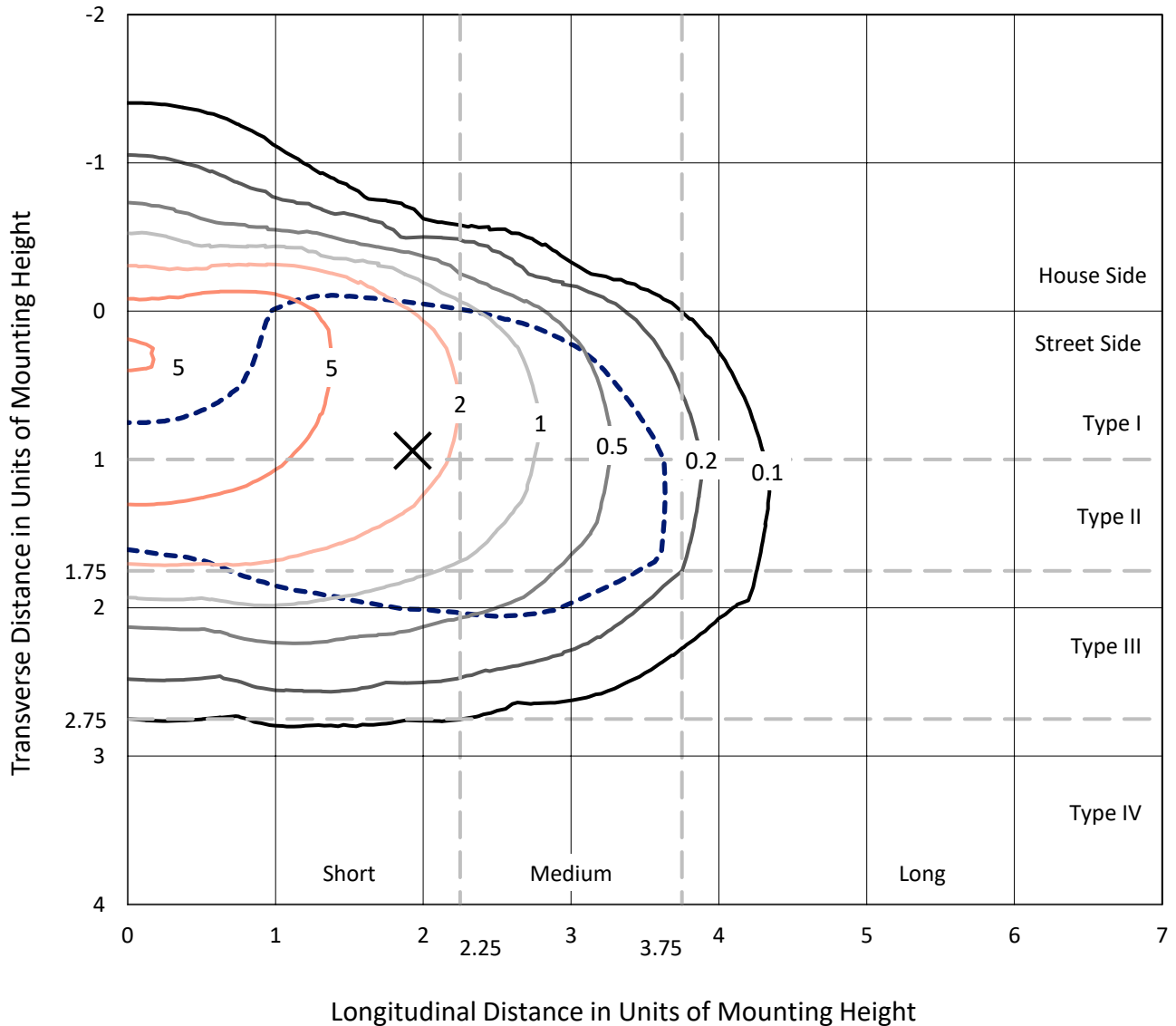
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

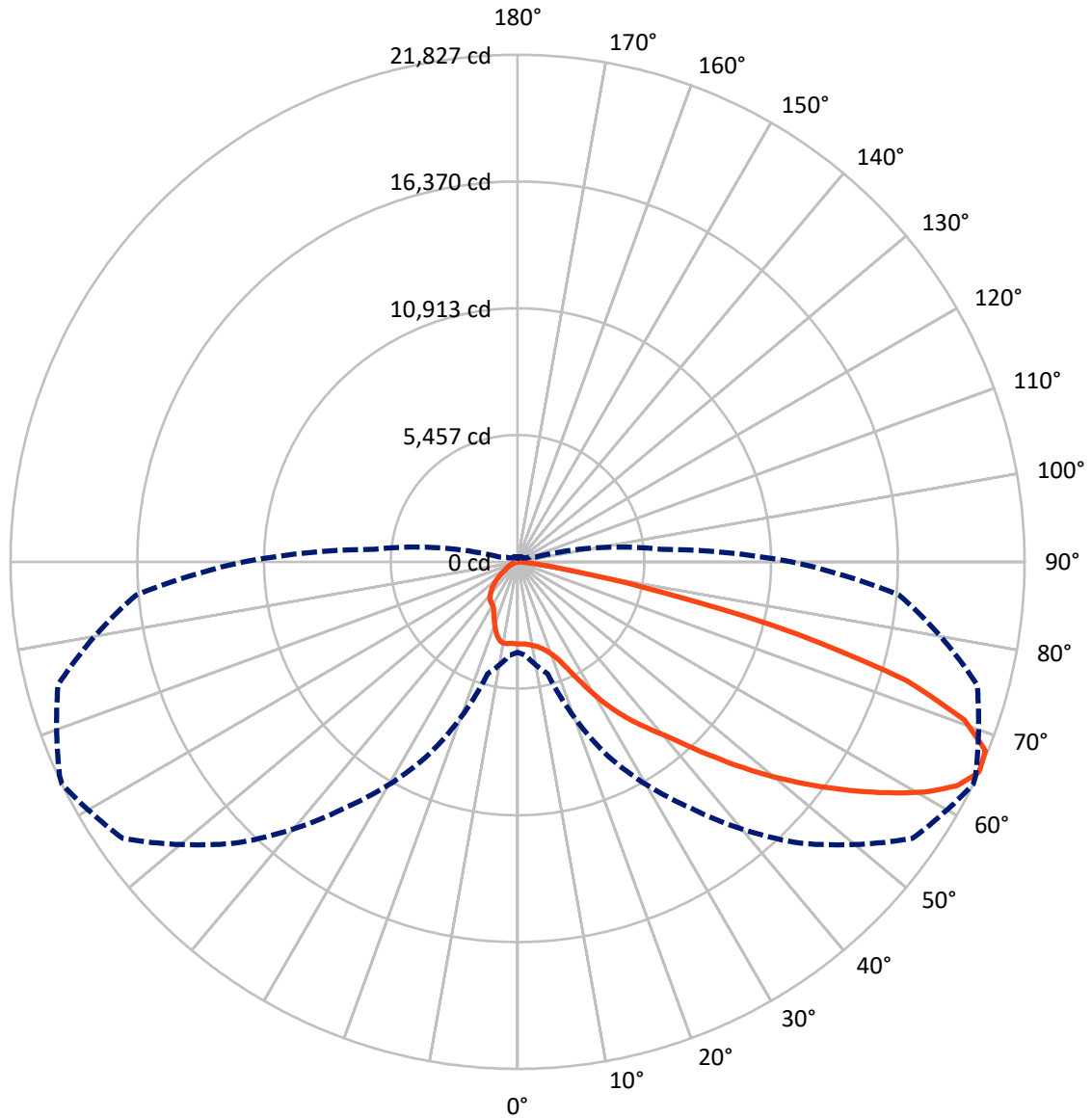
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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 | 4067.0 | 0.0 | 4067.0 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 26344.8 | 0.0 | 26344.8 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 30411.7 | 0.0 | 30411.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 326.3 | 1.1 |
| 10°-20° | 885.1 | 2.9 |
| 20°-30° | 1677.2 | 5.5 |
| 30°-40° | 3394.0 | 11.2 |
| 40°-50° | 5781.6 | 19.0 |
| 50°-60° | 7862.6 | 25.9 |
| 60°-70° | 7383.4 | 24.3 |
| 70°-80° | 2958.1 | 9.7 |
| 80°-90° | 143.3 | 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° | 30411.7 | 100.0 |
| 0°-180° | 30411.7 | 100.0 |

Coefficient of Utilization



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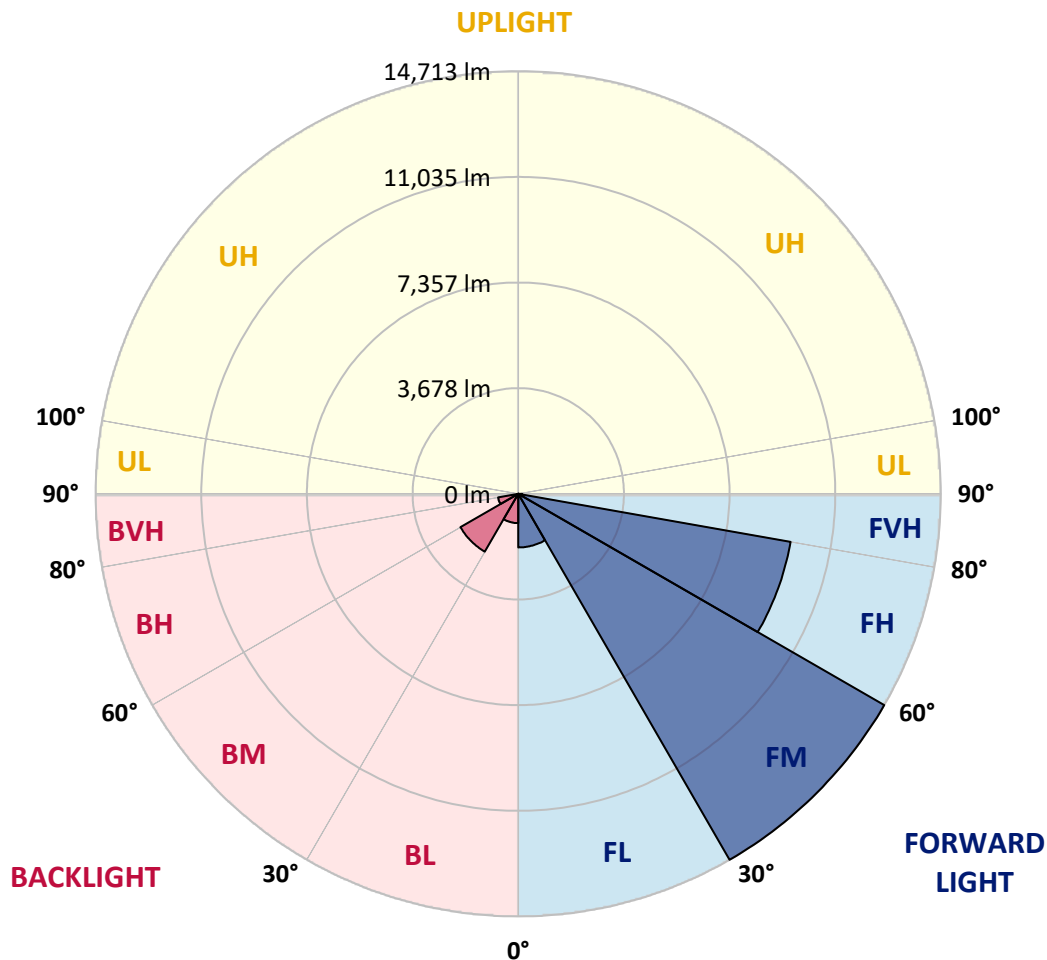
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1867.6 | 6.1 | | | |
| FM (30°-60°) | 14713.2 | 48.4 | | | |
| FH (60°-80°) | 9627.7 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 136.3 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1021.1 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 2325.1 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 713.8 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 |
| 2.5° | 3525.0 | 3549.5 | 3543.3 | 3537.2 | 3535.1 | 3539.2 | 3541.3 | 3539.2 | 3539.2 | 3539.2 | 3541.3 |
| 5° | 3457.7 | 3478.0 | 3478.0 | 3492.4 | 3512.8 | 3537.2 | 3555.5 | 3559.6 | 3563.7 | 3569.9 | 3567.8 |
| 7.5° | 3329.3 | 3345.6 | 3357.8 | 3404.6 | 3455.7 | 3520.9 | 3575.9 | 3604.5 | 3608.5 | 3631.0 | 3639.2 |
| 10° | 3241.6 | 3262.0 | 3282.4 | 3331.2 | 3404.6 | 3502.5 | 3596.3 | 3665.6 | 3675.9 | 3728.8 | 3753.3 |
| 12.5° | 3237.5 | 3257.9 | 3284.4 | 3337.4 | 3423.0 | 3527.0 | 3641.2 | 3741.0 | 3759.4 | 3836.9 | 3887.8 |
| 15° | 3280.3 | 3304.8 | 3329.3 | 3394.5 | 3486.2 | 3612.6 | 3735.0 | 3859.3 | 3877.7 | 3987.8 | 4042.8 |
| 17.5° | 3367.9 | 3400.6 | 3419.0 | 3484.2 | 3582.1 | 3722.7 | 3883.8 | 4026.5 | 4042.8 | 4171.2 | 4240.5 |
| 20° | 3541.3 | 3580.0 | 3586.2 | 3639.2 | 3735.0 | 3885.8 | 4077.4 | 4254.9 | 4275.3 | 4422.1 | 4499.4 |
| 22.5° | 3900.1 | 3955.2 | 3906.2 | 3932.7 | 4018.3 | 4169.2 | 4377.2 | 4601.4 | 4629.9 | 4797.1 | 4866.5 |
| 25° | 4532.1 | 4609.5 | 4483.1 | 4438.4 | 4475.0 | 4632.0 | 4892.9 | 5176.4 | 5208.9 | 5343.5 | 5378.2 |
| 27.5° | 5773.7 | 5673.8 | 5482.1 | 5294.6 | 5184.4 | 5274.2 | 5567.8 | 5918.5 | 5959.2 | 6089.7 | 6048.9 |
| 30° | 7137.6 | 7050.0 | 6791.0 | 6375.1 | 6114.1 | 6099.9 | 6371.1 | 6762.4 | 6809.4 | 6933.7 | 6809.4 |
| 32.5° | 8503.6 | 8420.0 | 8138.6 | 7626.9 | 7174.3 | 6950.0 | 7137.6 | 7571.9 | 7596.3 | 7675.8 | 7492.3 |
| 35° | 9847.1 | 9761.5 | 9480.1 | 8956.1 | 8399.6 | 7889.9 | 7853.2 | 8342.5 | 8350.7 | 8434.2 | 8161.0 |
| 37.5° | 11198.7 | 11127.4 | 10827.7 | 10314.0 | 9765.5 | 9062.1 | 8721.7 | 9072.4 | 9082.5 | 9164.1 | 8880.7 |
| 40° | 12163.1 | 12193.7 | 11987.8 | 11590.2 | 11119.3 | 10350.7 | 9696.2 | 9849.1 | 9787.9 | 9924.6 | 9755.3 |
| 42.5° | 12990.8 | 13051.9 | 12872.6 | 12672.8 | 12399.5 | 11722.7 | 10903.1 | 10876.7 | 10778.8 | 10852.2 | 10676.8 |
| 45° | 13706.4 | 13757.3 | 13596.3 | 13549.4 | 13543.3 | 13068.2 | 12222.2 | 12063.2 | 11926.6 | 11912.3 | 11702.3 |
| 47.5° | 13969.4 | 14067.3 | 14136.6 | 14293.5 | 14599.4 | 14399.6 | 13586.2 | 13339.5 | 13186.5 | 13074.4 | 12742.1 |
| 50° | 14069.3 | 14173.3 | 14409.8 | 14866.4 | 15590.1 | 15675.8 | 14943.9 | 14666.6 | 14479.0 | 14275.2 | 13785.9 |
| 52.5° | 13934.8 | 14120.3 | 14438.4 | 15206.9 | 16256.9 | 16699.3 | 16246.7 | 16004.0 | 15790.0 | 15457.7 | 14731.9 |
| 55° | 13141.6 | 13327.2 | 13977.5 | 15202.8 | 16589.2 | 17416.9 | 17478.1 | 17370.0 | 17129.4 | 16605.5 | 15496.5 |
| 57.5° | 11470.0 | 11745.2 | 12774.7 | 14685.0 | 16583.1 | 18034.7 | 18685.0 | 18762.4 | 18493.4 | 17743.1 | 16097.8 |
| 60° | 9153.9 | 9527.0 | 10782.9 | 13537.2 | 16071.4 | 18369.0 | 19743.1 | 20130.5 | 19845.0 | 18864.4 | 16585.1 |
| 62.5° | 6387.4 | 6819.5 | 8008.1 | 11739.0 | 14901.1 | 18128.5 | 20515.8 | 21231.3 | 21015.3 | 19867.5 | 16772.7 |
| 65° | 3896.0 | 4034.6 | 4992.9 | 9237.5 | 12911.3 | 17121.3 | 20754.3 | 21826.7 | 21755.3 | 20481.1 | 16495.4 |
| 67.5° | 2595.3 | 2711.5 | 2986.7 | 6334.3 | 10022.4 | 15109.0 | 20183.5 | 21722.7 | 21743.1 | 20381.2 | 15480.1 |
| 70° | 1563.7 | 1663.6 | 1843.1 | 3684.0 | 6495.4 | 11959.2 | 18415.9 | 20397.5 | 20515.8 | 19045.8 | 13555.5 |
| 72.5° | 644.2 | 711.6 | 874.6 | 1669.7 | 3363.9 | 7590.2 | 14664.6 | 17512.7 | 17788.0 | 16014.3 | 10403.6 |
| 75° | 364.9 | 399.5 | 513.7 | 837.9 | 1459.7 | 3537.2 | 8882.8 | 12432.2 | 12837.9 | 11037.7 | 6259.0 |
| 77.5° | 242.6 | 258.9 | 332.3 | 542.3 | 821.6 | 1206.9 | 3796.1 | 6477.1 | 7251.8 | 6028.5 | 2709.5 |
| 80° | 163.1 | 177.3 | 228.4 | 362.8 | 534.1 | 517.8 | 1209.0 | 2399.6 | 2952.1 | 2071.3 | 660.5 |
| 82.5° | 110.1 | 112.1 | 163.1 | 238.5 | 338.5 | 250.7 | 356.8 | 746.2 | 937.8 | 599.4 | 250.7 |
| 85° | 63.2 | 61.2 | 120.3 | 138.7 | 150.9 | 103.9 | 108.0 | 224.3 | 293.6 | 252.8 | 142.7 |
| 87.5° | 8.2 | 12.2 | 46.8 | 36.7 | 20.4 | 22.4 | 22.4 | 38.7 | 57.1 | 61.2 | 30.5 |
| 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° | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 | 3537.2 |
| 2.5° | 3541.3 | 3539.2 | 3533.2 | 3527.0 | 3512.8 | 3504.6 | 3508.7 | 3504.6 | 3502.5 | 3504.6 | 3512.8 |
| 5° | 3567.8 | 3561.7 | 3545.4 | 3525.0 | 3496.4 | 3461.7 | 3439.4 | 3406.7 | 3376.1 | 3357.8 | 3361.9 |
| 7.5° | 3639.2 | 3633.0 | 3610.6 | 3553.5 | 3461.7 | 3317.0 | 3184.5 | 3068.3 | 2980.6 | 2929.7 | 2931.7 |
| 10° | 3753.3 | 3743.1 | 3708.4 | 3582.1 | 3341.5 | 3025.5 | 2762.5 | 2544.4 | 2401.7 | 2334.3 | 2328.2 |
| 12.5° | 3887.8 | 3875.6 | 3814.4 | 3555.5 | 3113.1 | 2619.8 | 2256.8 | 2014.2 | 1881.8 | 1822.7 | 1816.5 |
| 15° | 4046.9 | 4030.6 | 3910.3 | 3429.1 | 2780.8 | 2171.3 | 1839.0 | 1657.5 | 1571.8 | 1518.8 | 1520.9 |
| 17.5° | 4244.6 | 4216.1 | 3981.6 | 3239.5 | 2420.0 | 1828.7 | 1582.1 | 1445.5 | 1370.0 | 1319.1 | 1315.0 |
| 20° | 4501.5 | 4454.6 | 4038.7 | 3013.3 | 2087.6 | 1612.6 | 1408.8 | 1294.6 | 1237.5 | 1192.7 | 1184.5 |
| 22.5° | 4860.3 | 4793.1 | 4108.1 | 2768.6 | 1853.2 | 1463.8 | 1280.3 | 1196.7 | 1149.8 | 1098.9 | 1090.7 |
| 25° | 5304.8 | 5225.2 | 4193.7 | 2542.3 | 1692.2 | 1335.4 | 1186.5 | 1117.2 | 1062.2 | 1003.1 | 996.9 |
| 27.5° | 5926.5 | 5783.9 | 4295.6 | 2356.8 | 1553.5 | 1225.3 | 1101.0 | 1023.5 | 960.2 | 911.3 | 901.1 |
| 30° | 6619.8 | 6385.3 | 4385.4 | 2244.6 | 1427.1 | 1123.3 | 988.8 | 911.3 | 852.2 | 817.5 | 811.4 |
| 32.5° | 7276.3 | 6958.2 | 4444.4 | 2195.8 | 1312.9 | 1007.2 | 866.4 | 782.9 | 738.0 | 727.9 | 733.9 |
| 35° | 7896.0 | 7476.0 | 4438.4 | 2148.8 | 1211.0 | 890.9 | 746.2 | 660.5 | 625.9 | 632.0 | 632.0 |
| 37.5° | 8609.6 | 8028.5 | 4395.5 | 2075.4 | 1127.4 | 784.9 | 642.2 | 566.7 | 536.2 | 538.2 | 546.4 |
| 40° | 9439.3 | 8666.7 | 4369.0 | 1936.8 | 1035.7 | 687.1 | 556.6 | 495.4 | 472.9 | 464.8 | 462.8 |
| 42.5° | 10324.1 | 9284.3 | 4373.1 | 1779.8 | 921.5 | 599.4 | 497.4 | 446.5 | 426.1 | 419.9 | 417.9 |
| 45° | 11213.0 | 9873.6 | 4379.2 | 1616.7 | 801.2 | 532.1 | 454.6 | 411.8 | 399.5 | 391.4 | 391.4 |
| 47.5° | 12048.9 | 10375.2 | 4265.0 | 1441.4 | 683.0 | 481.1 | 419.9 | 391.4 | 381.2 | 371.0 | 371.0 |
| 50° | 12827.7 | 10709.5 | 3989.8 | 1237.5 | 589.2 | 440.3 | 393.5 | 373.1 | 362.8 | 352.7 | 352.7 |
| 52.5° | 13433.2 | 10762.5 | 3535.1 | 1027.6 | 524.0 | 409.8 | 377.2 | 358.9 | 346.6 | 336.4 | 334.4 |
| 55° | 13702.3 | 10430.2 | 2888.9 | 831.8 | 472.9 | 383.2 | 360.9 | 342.6 | 328.2 | 318.1 | 316.0 |
| 57.5° | 13633.0 | 9730.8 | 2252.8 | 668.7 | 424.0 | 356.8 | 340.5 | 328.2 | 311.9 | 295.6 | 293.6 |
| 60° | 13292.5 | 8795.1 | 1698.2 | 556.6 | 379.2 | 328.2 | 318.1 | 307.8 | 285.5 | 261.0 | 256.9 |
| 62.5° | 12703.3 | 7618.7 | 1211.0 | 460.7 | 330.3 | 295.6 | 291.5 | 283.4 | 250.7 | 205.9 | 201.8 |
| 65° | 11802.3 | 6189.6 | 815.5 | 383.2 | 283.4 | 258.9 | 261.0 | 246.7 | 203.9 | 152.9 | 148.8 |
| 67.5° | 10485.2 | 4526.0 | 521.9 | 314.0 | 236.5 | 216.1 | 218.1 | 210.0 | 173.3 | 130.5 | 124.3 |
| 70° | 8807.3 | 2996.9 | 340.5 | 238.5 | 189.6 | 167.2 | 179.4 | 181.4 | 146.8 | 106.0 | 102.0 |
| 72.5° | 6456.7 | 1769.7 | 238.5 | 177.3 | 138.7 | 116.2 | 146.8 | 150.9 | 118.3 | 79.5 | 75.4 |
| 75° | 3680.0 | 840.0 | 179.4 | 128.4 | 85.6 | 81.6 | 114.2 | 114.2 | 81.6 | 53.0 | 48.9 |
| 77.5° | 1545.4 | 350.7 | 126.4 | 83.5 | 48.9 | 46.8 | 77.5 | 71.3 | 40.8 | 24.5 | 24.5 |
| 80° | 446.5 | 157.0 | 67.2 | 40.8 | 20.4 | 18.3 | 30.5 | 22.4 | 10.1 | 4.1 | 4.1 |
| 82.5° | 175.4 | 69.3 | 26.5 | 16.3 | 8.2 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 103.9 | 28.5 | 12.2 | 6.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 26.5 | 6.1 | 4.1 | 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)