

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: P971369

Luminaire Tested: **NVN-SB6D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6D-727-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58553.1 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

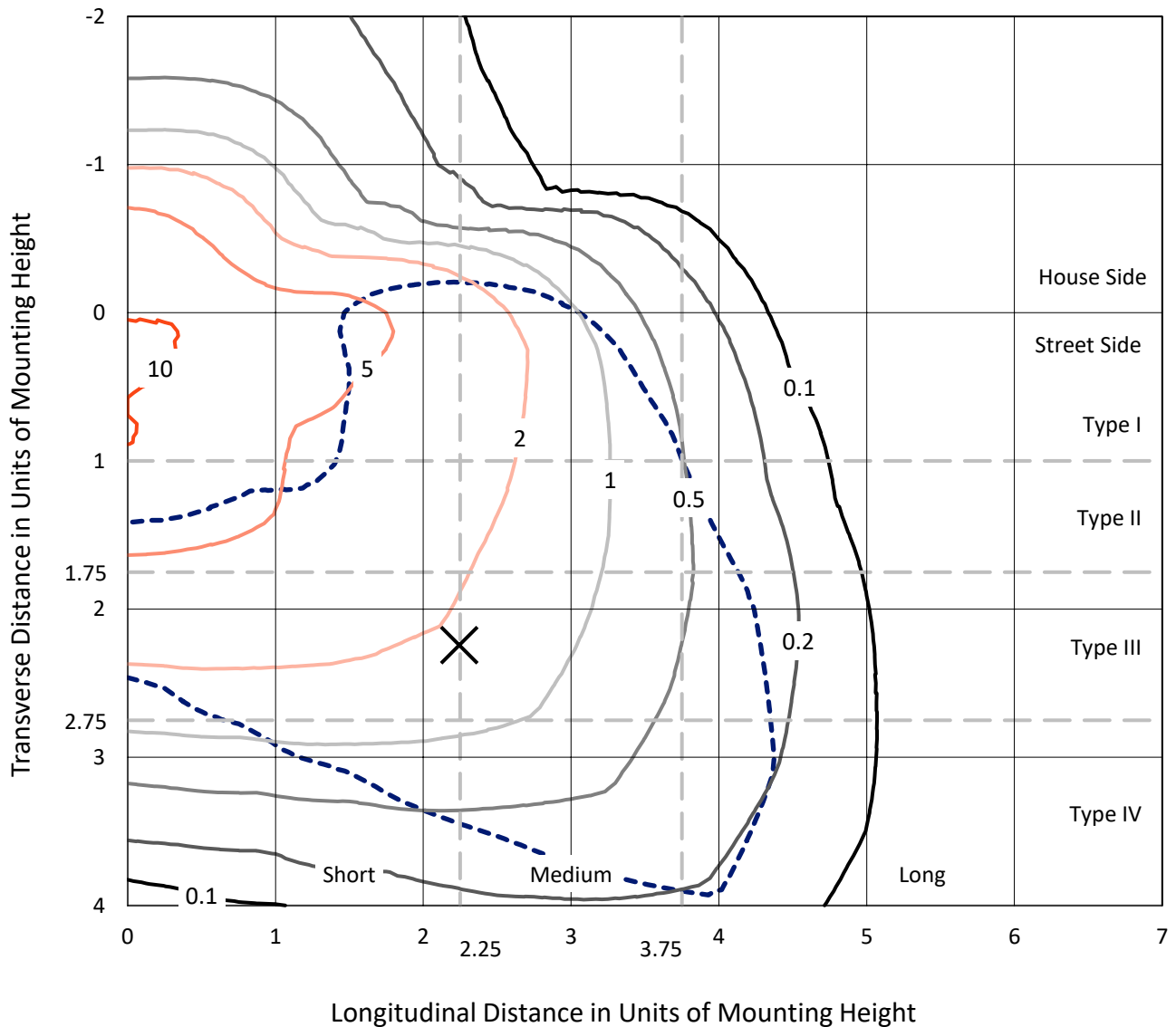
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

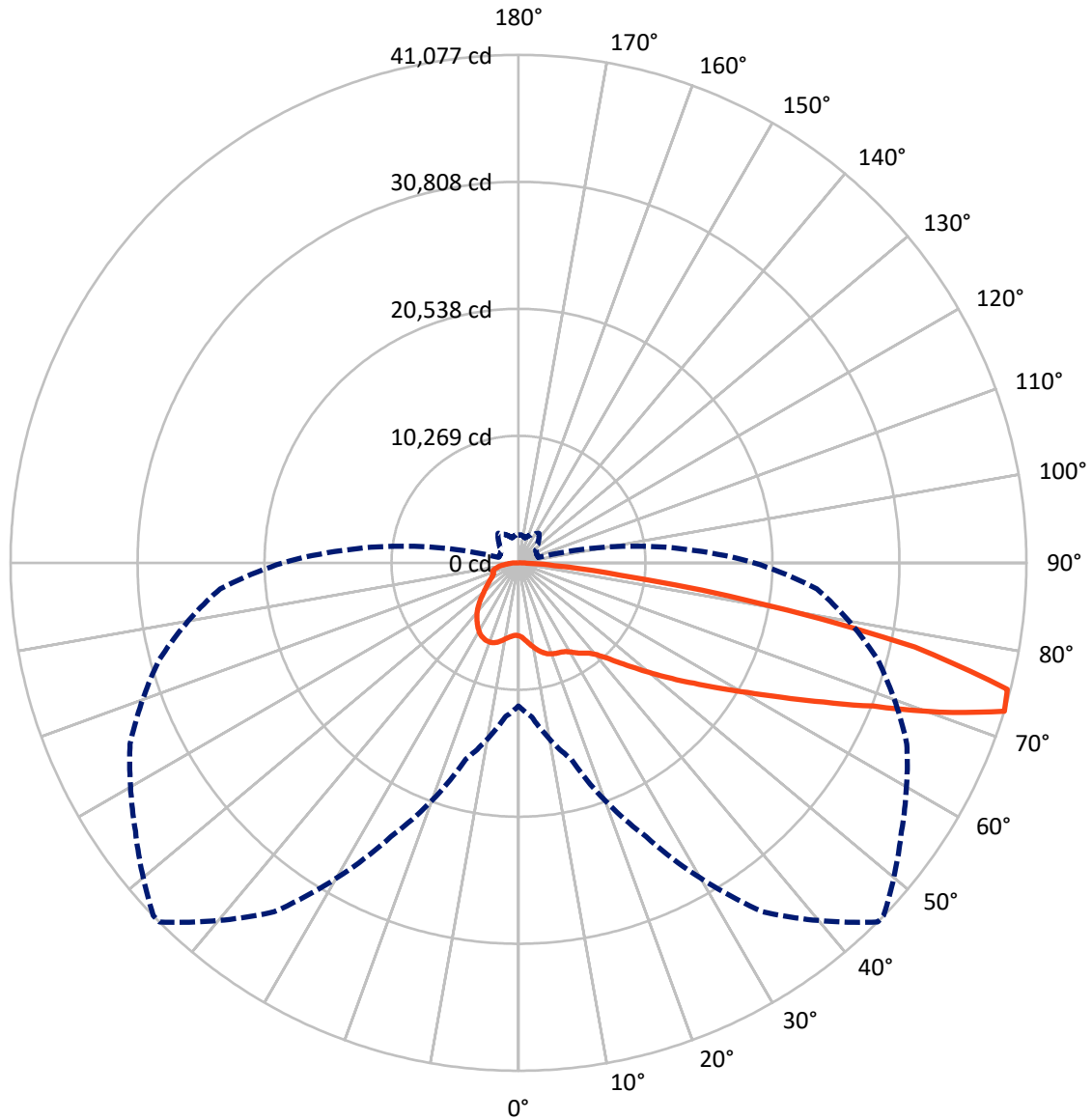
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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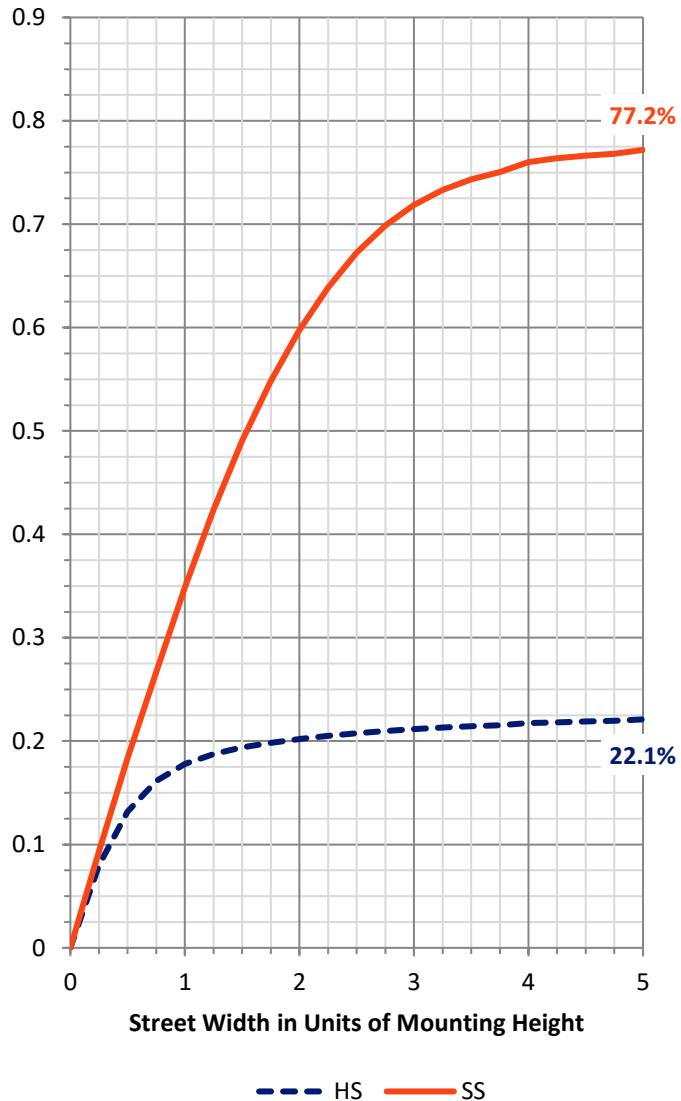
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13236.8 | 0.0 | 13236.8 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 45316.3 | 0.0 | 45316.3 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 58553.1 | 0.0 | 58553.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 601.2 | 1.0 |
| 10°-20° | 2004.5 | 3.4 |
| 20°-30° | 3486.9 | 6.0 |
| 30°-40° | 4998.7 | 8.5 |
| 40°-50° | 7038.4 | 12.0 |
| 50°-60° | 10780.8 | 18.4 |
| 60°-70° | 15617.6 | 26.7 |
| 70°-80° | 12471.6 | 21.3 |
| 80°-90° | 1553.3 | 2.7 |
| 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° | 58553.1 | 100.0 |
| 0°-180° | 58553.1 | 100.0 |

Coefficient of Utilization

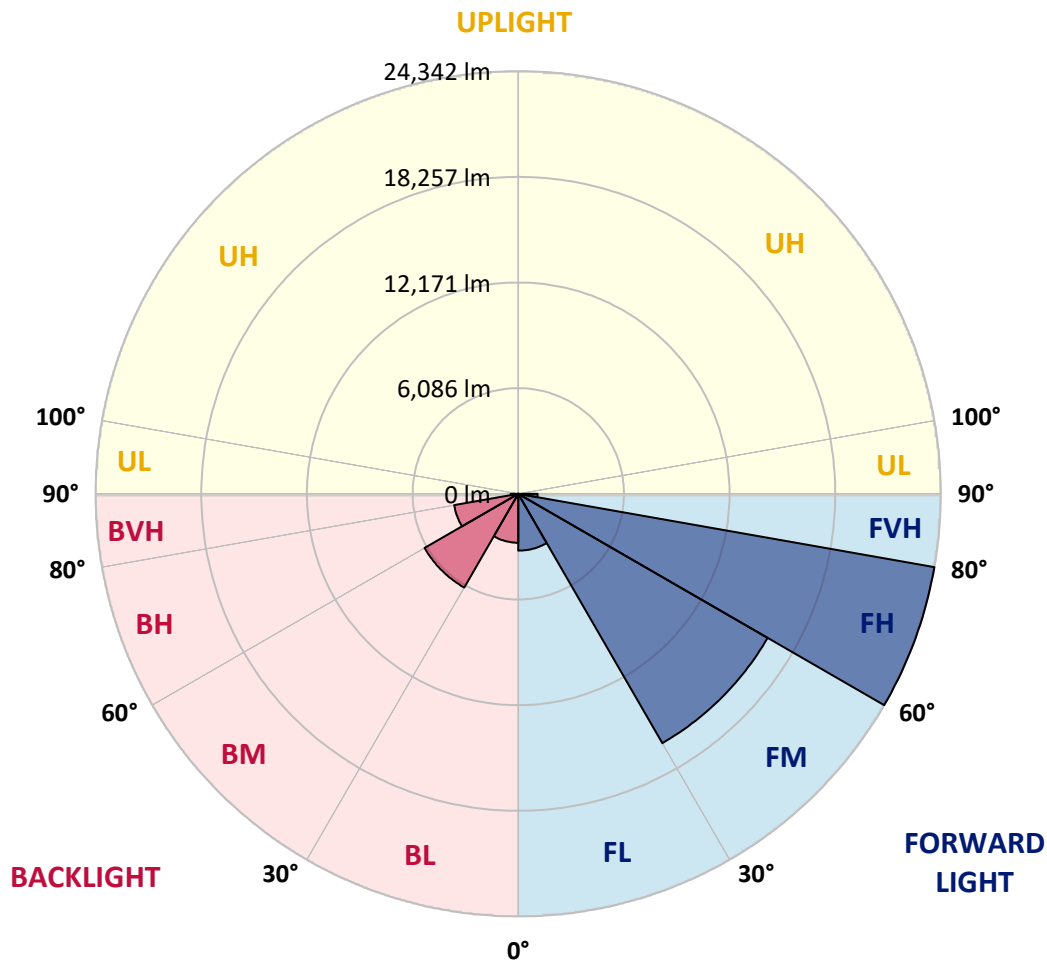


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3274.4 | 5.6 | | | |
| FM (30°-60°) | 16585.3 | 28.3 | | | |
| FH (60°-80°) | 24342.3 | 41.6 | | | G5 |
| FVH (80°-90°) | 1114.4 | 1.9 | | | G5 |
| BL (0°-30°) | 2818.2 | 4.8 | B4/5000 | | |
| BM (30°-60°) | 6232.7 | 10.6 | B4/8500 | | |
| BH (60°-80°) | 3747.0 | 6.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 438.9 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 |
| 2.5° | 6138.2 | 6178.3 | 6141.3 | 6107.4 | 6092.0 | 6051.8 | 6048.7 | 6024.1 | 6008.7 | 5965.5 | 5953.1 |
| 5° | 6567.0 | 6619.3 | 6557.7 | 6489.9 | 6428.2 | 6329.5 | 6317.1 | 6246.1 | 6166.0 | 6073.4 | 6021.0 |
| 7.5° | 7051.2 | 7097.5 | 7026.6 | 6924.8 | 6816.8 | 6653.4 | 6650.2 | 6520.7 | 6394.3 | 6236.9 | 6147.4 |
| 10° | 7473.8 | 7535.5 | 7439.9 | 7301.1 | 7165.4 | 6980.2 | 6958.7 | 6810.6 | 6650.2 | 6446.6 | 6310.9 |
| 12.5° | 7847.0 | 7890.2 | 7797.7 | 7628.0 | 7470.7 | 7285.7 | 7257.9 | 7094.4 | 6915.5 | 6684.1 | 6511.4 |
| 15° | 8143.1 | 8198.7 | 8075.3 | 7893.3 | 7726.8 | 7544.7 | 7520.1 | 7372.0 | 7193.1 | 6949.4 | 6727.4 |
| 17.5° | 8337.5 | 8383.8 | 8257.3 | 8053.7 | 7893.3 | 7742.1 | 7723.7 | 7600.3 | 7442.9 | 7196.2 | 6958.7 |
| 20° | 8411.5 | 8460.9 | 8328.2 | 8121.6 | 7973.5 | 7856.3 | 7847.0 | 7757.6 | 7649.7 | 7424.5 | 7183.8 |
| 22.5° | 8485.6 | 8531.8 | 8359.1 | 8143.1 | 8013.6 | 7939.5 | 7936.5 | 7877.8 | 7834.7 | 7649.7 | 7415.2 |
| 25° | 8784.8 | 8797.1 | 8565.7 | 8254.2 | 8069.1 | 8004.3 | 8001.3 | 7998.2 | 8016.7 | 7871.7 | 7665.1 |
| 27.5° | 9043.9 | 9040.7 | 8843.3 | 8550.3 | 8263.4 | 8127.7 | 8124.7 | 8155.5 | 8214.1 | 8093.8 | 7924.2 |
| 30° | 9423.2 | 9389.3 | 9154.9 | 8849.5 | 8587.3 | 8377.5 | 8359.1 | 8331.3 | 8377.5 | 8282.0 | 8183.3 |
| 32.5° | 10228.3 | 10120.3 | 9741.0 | 9198.0 | 8855.7 | 8695.3 | 8670.6 | 8497.9 | 8516.4 | 8457.8 | 8408.4 |
| 35° | 11381.9 | 11240.0 | 10734.1 | 9858.1 | 9188.8 | 8960.6 | 8948.2 | 8729.2 | 8692.2 | 8639.7 | 8658.3 |
| 37.5° | 12754.5 | 12578.7 | 11989.5 | 10814.4 | 9762.5 | 9269.0 | 9250.5 | 9053.1 | 8901.9 | 8846.5 | 8951.3 |
| 40° | 14133.3 | 13911.2 | 13423.9 | 11980.3 | 10607.7 | 9784.1 | 9725.5 | 9426.3 | 9253.6 | 9161.0 | 9383.2 |
| 42.5° | 15472.0 | 15287.0 | 14870.5 | 13288.1 | 11650.3 | 10536.8 | 10407.2 | 9895.1 | 9765.6 | 9679.3 | 10080.3 |
| 45° | 16656.5 | 16489.9 | 16184.5 | 14685.5 | 12871.7 | 11560.8 | 11434.4 | 10598.4 | 10558.3 | 10558.3 | 11138.3 |
| 47.5° | 17618.8 | 17581.8 | 17257.9 | 16110.4 | 14312.2 | 12726.8 | 12507.8 | 11576.2 | 11684.2 | 11850.7 | 12640.4 |
| 50° | 18686.1 | 18584.3 | 18238.8 | 17514.0 | 16005.6 | 14062.4 | 13883.4 | 12776.1 | 13180.2 | 13636.7 | 14811.9 |
| 52.5° | 19667.0 | 19722.4 | 19336.9 | 18976.0 | 17918.0 | 15552.2 | 15237.5 | 14191.9 | 15064.8 | 15820.6 | 17356.6 |
| 55° | 20675.6 | 20678.7 | 20570.7 | 20521.3 | 19922.9 | 17199.3 | 16853.9 | 15894.6 | 17282.6 | 18220.3 | 20323.9 |
| 57.5° | 21622.6 | 21628.7 | 21789.1 | 22224.0 | 22248.6 | 19099.4 | 18707.7 | 17985.9 | 19747.1 | 20703.4 | 23383.8 |
| 60° | 22467.7 | 22510.8 | 22948.9 | 23966.8 | 24293.7 | 21277.1 | 20906.9 | 20456.5 | 22295.0 | 23257.4 | 26601.0 |
| 62.5° | 22751.5 | 22908.7 | 23883.5 | 25330.1 | 26314.1 | 23948.3 | 23584.3 | 23316.0 | 24972.4 | 25866.9 | 29290.7 |
| 65° | 22270.3 | 22631.2 | 24515.8 | 26456.0 | 28393.1 | 27122.2 | 26761.3 | 26468.4 | 27754.5 | 28596.7 | 31499.2 |
| 67.5° | 21089.0 | 21554.7 | 24478.8 | 27637.4 | 30916.3 | 30940.9 | 30604.7 | 29916.9 | 30737.3 | 31061.2 | 32217.9 |
| 70° | 17976.7 | 18673.8 | 22322.8 | 28078.4 | 33812.6 | 36163.0 | 35839.1 | 34068.6 | 33713.9 | 32147.0 | 30194.4 |
| 72.5° | 11582.4 | 12520.1 | 16437.4 | 24448.0 | 34457.2 | 41076.7 | 41058.1 | 37816.4 | 34654.6 | 30037.1 | 24216.6 |
| 75° | 4225.8 | 4799.6 | 7637.3 | 15345.5 | 28923.7 | 40826.8 | 40947.1 | 37174.7 | 31634.9 | 23201.8 | 15086.5 |
| 77.5° | 1539.1 | 1684.2 | 2492.3 | 5897.6 | 17788.5 | 32757.7 | 33007.6 | 29719.5 | 22517.1 | 11644.1 | 5977.8 |
| 80° | 808.1 | 888.4 | 1276.9 | 2288.7 | 7621.9 | 19454.1 | 19845.8 | 17662.0 | 10583.0 | 3507.1 | 1792.1 |
| 82.5° | 447.2 | 484.3 | 715.7 | 1243.0 | 3433.0 | 8319.0 | 8553.4 | 6977.2 | 3723.0 | 1486.8 | 740.3 |
| 85° | 240.6 | 256.0 | 336.2 | 678.6 | 1678.0 | 2884.0 | 2948.8 | 2085.2 | 1483.7 | 872.9 | 357.8 |
| 87.5° | 70.9 | 86.4 | 111.0 | 216.0 | 657.0 | 647.8 | 663.2 | 413.3 | 586.1 | 441.1 | 117.3 |
| 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° | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 | 5906.9 |
| 2.5° | 5934.6 | 5925.4 | 5891.5 | 5876.0 | 5857.6 | 5854.4 | 5869.9 | 5872.9 | 5876.0 | 5879.1 | 5891.5 |
| 5° | 5990.2 | 5959.3 | 5928.5 | 5909.9 | 5916.1 | 5919.2 | 5950.0 | 5971.6 | 5987.0 | 5999.4 | 6005.6 |
| 7.5° | 6098.1 | 6073.4 | 6021.0 | 6017.9 | 6027.2 | 6054.9 | 6095.1 | 6144.4 | 6172.1 | 6193.8 | 6199.9 |
| 10° | 6258.5 | 6212.2 | 6150.5 | 6159.8 | 6178.3 | 6218.4 | 6301.7 | 6341.8 | 6388.1 | 6428.2 | 6418.9 |
| 12.5° | 6422.0 | 6381.9 | 6310.9 | 6317.1 | 6347.9 | 6418.9 | 6499.1 | 6548.4 | 6579.3 | 6610.1 | 6622.5 |
| 15° | 6634.8 | 6563.9 | 6486.7 | 6486.7 | 6542.3 | 6619.3 | 6656.5 | 6696.5 | 6715.0 | 6748.9 | 6761.3 |
| 17.5° | 6853.9 | 6761.3 | 6659.5 | 6653.4 | 6721.2 | 6758.2 | 6779.8 | 6785.9 | 6792.2 | 6829.2 | 6841.5 |
| 20° | 7072.8 | 6971.0 | 6826.1 | 6813.7 | 6829.2 | 6823.0 | 6819.9 | 6813.7 | 6823.0 | 6869.2 | 6887.8 |
| 22.5° | 7288.8 | 7171.5 | 6971.0 | 6915.5 | 6872.3 | 6813.7 | 6810.6 | 6807.5 | 6813.7 | 6860.0 | 6890.9 |
| 25° | 7541.6 | 7399.8 | 7131.4 | 6964.9 | 6819.9 | 6739.7 | 6748.9 | 6752.0 | 6758.2 | 6795.2 | 6844.5 |
| 27.5° | 7816.2 | 7658.9 | 7279.4 | 6949.4 | 6687.3 | 6631.7 | 6616.3 | 6625.6 | 6647.1 | 6705.8 | 6764.4 |
| 30° | 8090.7 | 7905.6 | 7415.2 | 6887.8 | 6520.7 | 6443.6 | 6394.3 | 6415.8 | 6483.6 | 6542.3 | 6607.0 |
| 32.5° | 8340.5 | 8155.5 | 7523.2 | 6752.0 | 6307.8 | 6187.5 | 6122.8 | 6150.5 | 6218.4 | 6240.0 | 6317.1 |
| 35° | 8633.6 | 8423.9 | 7569.4 | 6536.1 | 6076.5 | 5891.5 | 5805.1 | 5765.0 | 5798.9 | 5777.3 | 5845.2 |
| 37.5° | 8960.6 | 8741.5 | 7563.3 | 6252.3 | 5805.1 | 5592.3 | 5472.0 | 5320.8 | 5249.8 | 5175.8 | 5222.1 |
| 40° | 9444.9 | 9130.2 | 7489.3 | 5909.9 | 5468.9 | 5274.5 | 5058.6 | 4802.6 | 4642.2 | 4497.3 | 4506.5 |
| 42.5° | 10105.0 | 9670.0 | 7353.6 | 5533.7 | 5089.4 | 4907.5 | 4614.4 | 4315.2 | 4062.3 | 3821.7 | 3800.2 |
| 45° | 11088.9 | 10376.4 | 7183.8 | 5132.7 | 4679.2 | 4500.4 | 4182.6 | 3846.4 | 3559.5 | 3251.1 | 3214.1 |
| 47.5° | 12507.8 | 11326.4 | 7023.5 | 4676.2 | 4247.4 | 4083.9 | 3797.0 | 3485.5 | 3146.2 | 2847.0 | 2813.1 |
| 50° | 14457.2 | 12689.7 | 6875.4 | 4232.0 | 3821.7 | 3698.3 | 3470.1 | 3152.4 | 2810.0 | 2569.4 | 2554.0 |
| 52.5° | 16937.1 | 14543.5 | 6813.7 | 3803.3 | 3423.8 | 3377.6 | 3195.5 | 2899.4 | 2575.6 | 2372.0 | 2356.6 |
| 55° | 19784.1 | 16761.3 | 6813.7 | 3393.0 | 3075.3 | 3090.7 | 2964.2 | 2689.7 | 2409.1 | 2227.0 | 2208.6 |
| 57.5° | 22689.8 | 19006.9 | 6690.4 | 3013.6 | 2779.2 | 2844.0 | 2763.7 | 2523.1 | 2270.2 | 2082.1 | 2051.2 |
| 60° | 25367.1 | 20888.4 | 6190.7 | 2668.1 | 2517.0 | 2618.8 | 2566.3 | 2359.7 | 2051.2 | 1893.9 | 1869.2 |
| 62.5° | 27424.5 | 21949.5 | 5228.3 | 2393.6 | 2301.0 | 2418.3 | 2390.5 | 2143.8 | 2011.2 | 1946.4 | 1924.7 |
| 65° | 28454.7 | 21776.7 | 3997.5 | 2149.9 | 2119.1 | 2301.0 | 2242.5 | 2233.2 | 2128.3 | 2054.3 | 2029.6 |
| 67.5° | 27822.4 | 20290.0 | 2899.4 | 1971.0 | 2014.2 | 2193.1 | 2418.3 | 2455.3 | 2260.9 | 2116.0 | 2091.3 |
| 70° | 25049.5 | 17600.3 | 2159.2 | 1801.3 | 1881.6 | 2196.2 | 2757.6 | 2569.4 | 2217.8 | 2048.2 | 2020.4 |
| 72.5° | 19056.2 | 13124.7 | 1674.8 | 1622.5 | 1708.8 | 2211.6 | 2908.7 | 2517.0 | 2094.4 | 2264.0 | 2245.6 |
| 75° | 10897.6 | 7205.4 | 1344.9 | 1403.4 | 1492.9 | 2066.6 | 2831.6 | 2381.3 | 1998.7 | 2079.0 | 2079.0 |
| 77.5° | 4154.8 | 2769.9 | 1110.4 | 1187.6 | 1199.9 | 1804.4 | 2708.3 | 2372.0 | 1903.1 | 1856.9 | 1693.4 |
| 80° | 1440.4 | 1082.7 | 919.2 | 943.8 | 928.4 | 1603.9 | 2597.1 | 2063.5 | 1557.7 | 1394.2 | 1348.0 |
| 82.5° | 589.2 | 539.8 | 728.0 | 697.1 | 660.1 | 1246.2 | 2097.5 | 1687.3 | 1273.9 | 1125.9 | 1113.6 |
| 85° | 256.0 | 342.3 | 481.2 | 422.6 | 382.5 | 863.7 | 1681.1 | 1428.1 | 1076.5 | 928.4 | 925.4 |
| 87.5° | 52.5 | 129.6 | 203.6 | 191.3 | 197.4 | 576.8 | 1193.7 | 1014.9 | 761.9 | 570.6 | 447.2 |
| 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)