

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: P453297

Luminaire Tested: **GLAN-SA4B-750-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22730 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

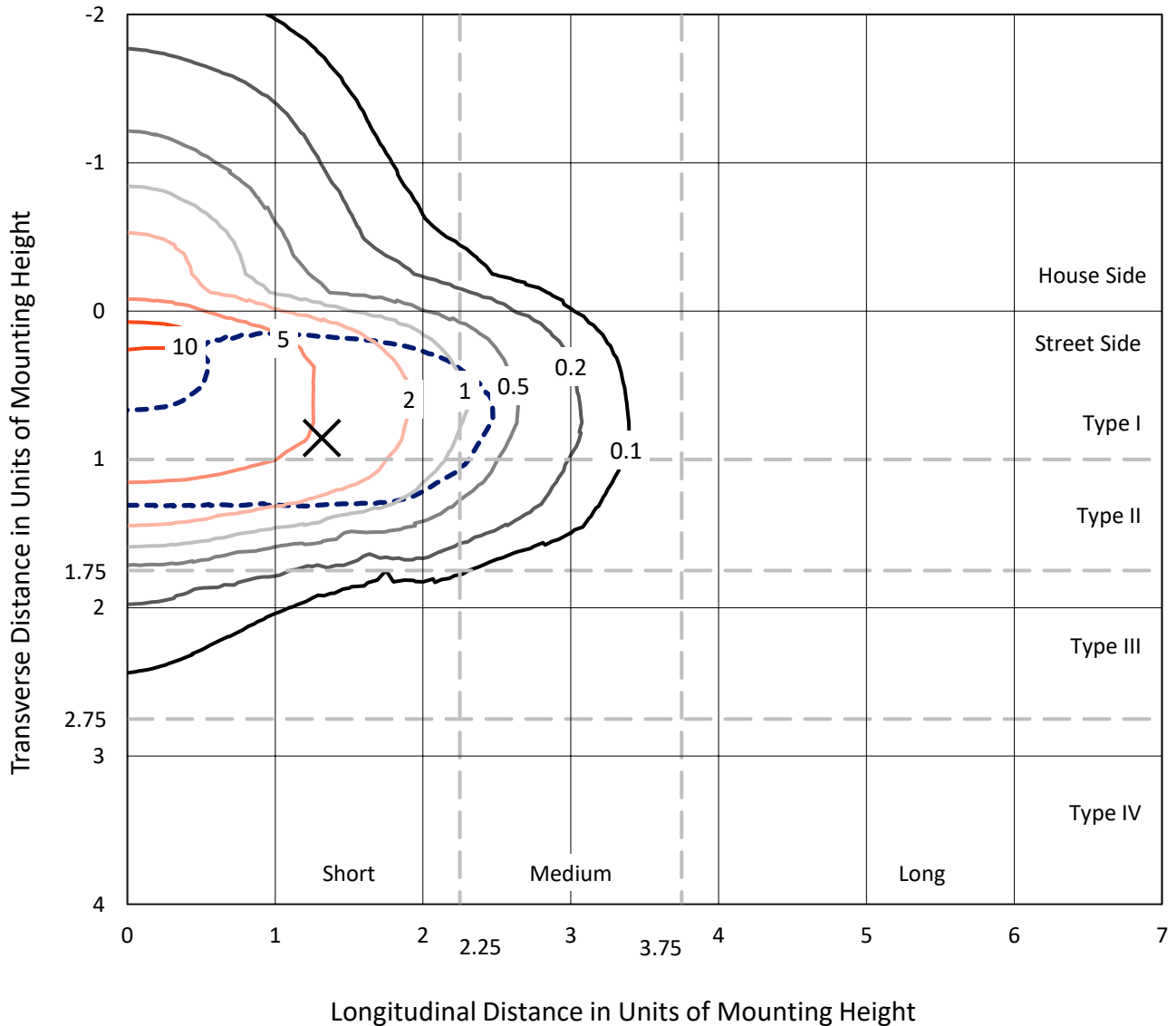
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

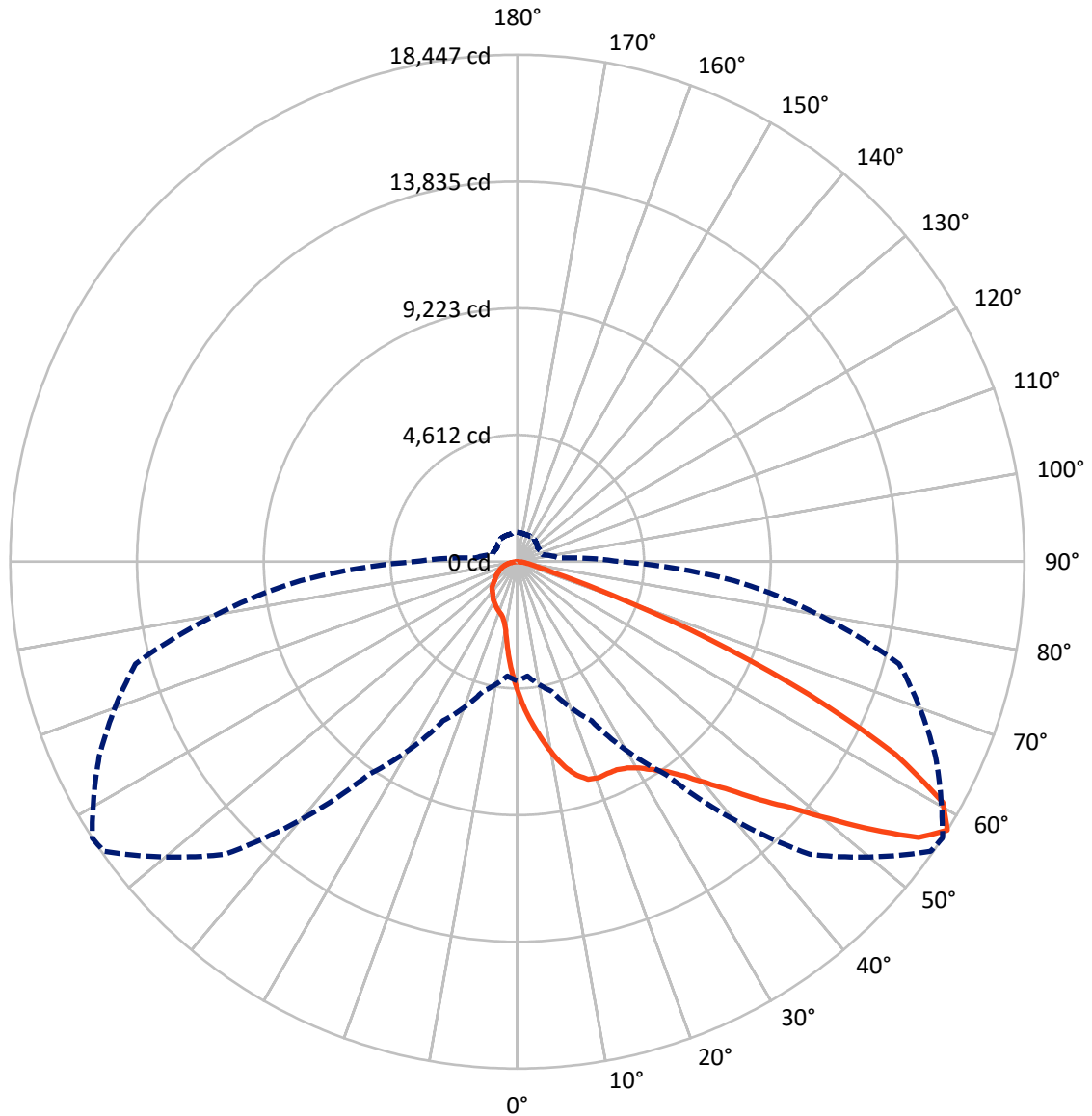
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3456.6 | 0.0 | 3456.6 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 19273.4 | 0.0 | 19273.4 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 22730.0 | 0.0 | 22730.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 459.0 | 2.0 |
| 10°-20° | 1352.6 | 6.0 |
| 20°-30° | 2246.0 | 9.9 |
| 30°-40° | 3383.1 | 14.9 |
| 40°-50° | 5079.3 | 22.3 |
| 50°-60° | 5693.3 | 25.0 |
| 60°-70° | 3332.0 | 14.7 |
| 70°-80° | 985.6 | 4.3 |
| 80°-90° | 199.2 | 0.9 |
| 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° | 22730.0 | 100.0 |
| 0°-180° | 22730.0 | 100.0 |

Coefficient of Utilization



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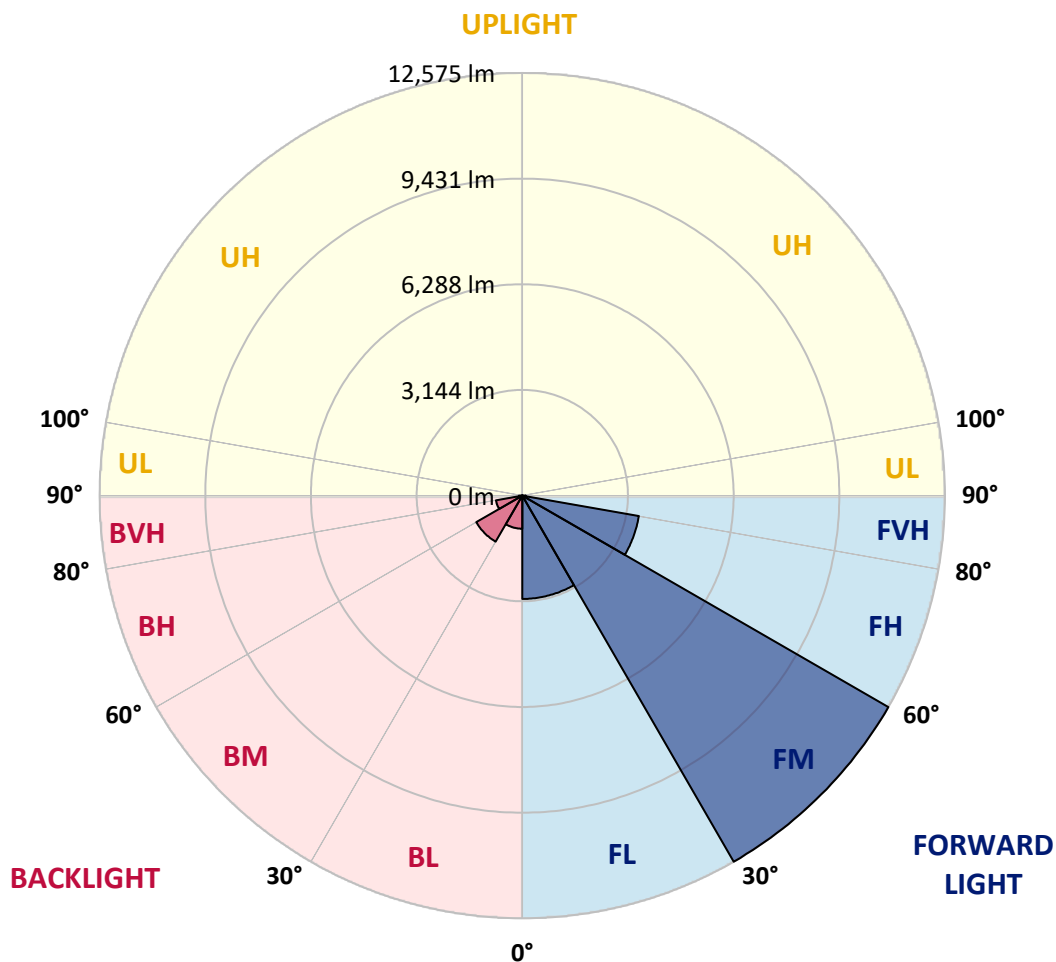
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3072.6 | 13.5 | | | |
| FM | (30°-60°) | 12575.2 | 55.3 | | | |
| FH | (60°-80°) | 3522.2 | 15.5 | | | G2/5000 |
| FVH | (80°-90°) | 103.4 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 984.9 | 4.3 | B2/1000 | | |
| BM | (30°-60°) | 1580.5 | 7.0 | B2/2500 | | |
| BH | (60°-80°) | 795.3 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 95.8 | 0.4 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 |
| 2.5° | 5933.7 | 5869.0 | 5818.0 | 5773.2 | 5714.7 | 5556.7 | 5398.7 | 5396.2 | 5270.5 | 5076.4 | 4877.3 |
| 5° | 6900.4 | 6813.3 | 6824.5 | 6685.2 | 6545.8 | 6316.9 | 5982.2 | 5964.8 | 5697.3 | 5334.0 | 4964.4 |
| 7.5° | 7530.0 | 7531.3 | 7496.4 | 7416.8 | 7266.2 | 7006.2 | 6626.7 | 6540.9 | 6168.8 | 5617.6 | 5064.0 |
| 10° | 7497.7 | 7531.3 | 7589.7 | 7658.2 | 7704.2 | 7576.1 | 7230.2 | 7125.6 | 6641.6 | 5961.1 | 5174.7 |
| 12.5° | 7067.2 | 7119.4 | 7202.8 | 7374.5 | 7651.9 | 7863.5 | 7745.3 | 7660.7 | 7189.1 | 6303.2 | 5296.6 |
| 15° | 6798.4 | 6829.5 | 6875.6 | 6991.3 | 7289.9 | 7796.3 | 8102.4 | 8057.6 | 7705.4 | 6690.2 | 5433.5 |
| 17.5° | 6716.3 | 6747.4 | 6762.3 | 6833.3 | 7046.0 | 7564.9 | 8243.0 | 8322.6 | 8163.3 | 7046.0 | 5571.6 |
| 20° | 6798.4 | 6813.3 | 6813.3 | 6855.6 | 7022.4 | 7429.2 | 8236.7 | 8397.2 | 8539.1 | 7472.8 | 5701.0 |
| 22.5° | 7013.7 | 7019.9 | 7011.2 | 7026.1 | 7150.5 | 7466.6 | 8178.3 | 8377.3 | 8842.7 | 7834.8 | 5801.8 |
| 25° | 7363.3 | 7373.2 | 7316.0 | 7281.2 | 7372.0 | 7630.8 | 8210.6 | 8393.5 | 9080.3 | 8180.7 | 5869.0 |
| 27.5° | 7760.2 | 7772.6 | 7703.0 | 7622.1 | 7664.4 | 7833.6 | 8337.5 | 8501.7 | 9258.2 | 8521.7 | 5911.3 |
| 30° | 8246.7 | 8251.7 | 8134.7 | 8037.7 | 8010.3 | 8135.9 | 8554.0 | 8707.0 | 9479.7 | 8923.5 | 5974.7 |
| 32.5° | 8744.4 | 8781.7 | 8631.1 | 8494.3 | 8448.2 | 8486.8 | 8873.8 | 9021.8 | 9743.5 | 9355.3 | 6076.8 |
| 35° | 9421.2 | 9427.4 | 9247.0 | 9080.3 | 8928.5 | 8978.3 | 9283.1 | 9390.1 | 10108.0 | 9854.2 | 6221.1 |
| 37.5° | 10266.1 | 10323.3 | 10074.4 | 9763.4 | 9576.8 | 9504.6 | 9778.3 | 9895.3 | 10619.4 | 10466.4 | 6438.8 |
| 40° | 11204.2 | 11225.3 | 11012.6 | 10818.5 | 10477.6 | 10268.5 | 10457.7 | 10584.6 | 11250.2 | 11196.7 | 6691.4 |
| 42.5° | 11794.0 | 11840.0 | 11856.2 | 11836.3 | 11579.9 | 11229.1 | 11301.2 | 11361.0 | 11996.8 | 11882.3 | 6950.2 |
| 45° | 11993.0 | 12061.5 | 12292.9 | 12783.1 | 12810.5 | 12464.6 | 12296.6 | 12353.9 | 12810.5 | 12574.1 | 7197.8 |
| 47.5° | 11663.3 | 11780.3 | 12207.0 | 13212.4 | 13965.1 | 13991.2 | 13484.8 | 13359.2 | 13552.0 | 13147.7 | 7377.0 |
| 50° | 10811.0 | 10835.9 | 11489.1 | 12944.9 | 14506.4 | 15450.7 | 14926.9 | 14693.0 | 14256.3 | 13571.9 | 7500.2 |
| 52.5° | 9492.1 | 9520.8 | 10068.2 | 11701.9 | 14172.9 | 16471.0 | 16614.1 | 16196.0 | 14971.7 | 13901.7 | 7581.0 |
| 55° | 7046.0 | 7211.5 | 7813.7 | 9392.6 | 12592.7 | 16375.2 | 17955.3 | 17717.7 | 15836.4 | 14162.9 | 7707.9 |
| 57.5° | 4332.4 | 4180.6 | 4894.8 | 6390.3 | 9471.0 | 15058.8 | 18369.7 | 18446.8 | 16788.2 | 14381.9 | 7920.7 |
| 60° | 1993.2 | 2023.1 | 2318.0 | 3295.9 | 5773.2 | 11780.3 | 17302.1 | 17789.8 | 17314.6 | 14374.5 | 7974.2 |
| 62.5° | 1373.6 | 1346.2 | 1271.6 | 1447.0 | 2632.8 | 7450.4 | 14614.6 | 15440.8 | 16259.5 | 13927.8 | 7761.4 |
| 65° | 1228.0 | 1200.7 | 1056.3 | 1007.8 | 1209.4 | 3247.4 | 10624.4 | 11667.0 | 13690.1 | 12800.5 | 7231.4 |
| 67.5° | 1147.2 | 1109.8 | 960.5 | 866.0 | 863.5 | 1292.7 | 6264.6 | 7520.1 | 10154.1 | 10822.2 | 6265.9 |
| 70° | 1062.6 | 1032.7 | 884.6 | 780.1 | 735.3 | 812.5 | 2753.5 | 3604.5 | 6593.1 | 7798.8 | 4881.1 |
| 72.5° | 978.0 | 943.1 | 810.0 | 698.0 | 639.5 | 608.4 | 1055.1 | 1372.4 | 3725.2 | 4675.8 | 2992.3 |
| 75° | 854.8 | 837.4 | 724.1 | 632.1 | 568.6 | 491.5 | 669.4 | 764.0 | 1781.7 | 2147.5 | 1501.8 |
| 77.5° | 747.8 | 729.1 | 643.3 | 552.4 | 506.4 | 399.4 | 475.3 | 518.8 | 751.5 | 871.0 | 678.1 |
| 80° | 547.5 | 566.1 | 542.5 | 487.7 | 451.7 | 313.5 | 319.8 | 355.8 | 446.7 | 494.0 | 414.3 |
| 82.5° | 347.1 | 382.0 | 418.1 | 375.8 | 342.2 | 247.6 | 221.5 | 235.2 | 304.8 | 323.5 | 184.1 |
| 85° | 145.6 | 148.1 | 242.6 | 228.9 | 195.3 | 146.8 | 133.1 | 140.6 | 163.0 | 170.5 | 85.9 |
| 87.5° | 56.0 | 54.7 | 85.9 | 79.6 | 61.0 | 42.3 | 42.3 | 47.3 | 64.7 | 59.7 | 27.4 |
| 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° | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 | 4775.3 |
| 2.5° | 4791.5 | 4703.1 | 4527.7 | 4310.0 | 4150.7 | 3971.5 | 3813.5 | 3700.3 | 3658.0 | 3638.1 | 3600.8 |
| 5° | 4787.8 | 4613.6 | 4250.3 | 3869.5 | 3563.4 | 3249.9 | 2984.9 | 2813.2 | 2798.2 | 2683.8 | 2672.6 |
| 7.5° | 4789.0 | 4522.7 | 3944.2 | 3384.3 | 2917.7 | 2596.7 | 2377.7 | 2320.5 | 2252.0 | 2234.6 | 2243.3 |
| 10° | 4792.7 | 4407.0 | 3615.7 | 2904.0 | 2452.4 | 2242.1 | 2160.0 | 2137.6 | 2140.1 | 2147.5 | 2148.8 |
| 12.5° | 4797.7 | 4295.0 | 3274.8 | 2539.5 | 2191.1 | 2104.0 | 2095.3 | 2115.2 | 2136.3 | 2152.5 | 2156.2 |
| 15° | 4803.9 | 4166.9 | 2942.6 | 2245.8 | 2060.4 | 2053.0 | 2081.6 | 2115.2 | 2145.0 | 2168.7 | 2172.4 |
| 17.5° | 4796.5 | 4017.6 | 2663.9 | 2065.4 | 1988.3 | 2024.3 | 2071.6 | 2113.9 | 2141.3 | 2163.7 | 2166.2 |
| 20° | 4779.0 | 3850.9 | 2395.1 | 1938.5 | 1943.5 | 2001.9 | 2053.0 | 2092.8 | 2122.6 | 2133.8 | 2142.5 |
| 22.5° | 4711.9 | 3651.8 | 2161.2 | 1840.2 | 1890.0 | 1970.8 | 2031.8 | 2055.4 | 2021.9 | 1998.2 | 2004.4 |
| 25° | 4597.4 | 3393.0 | 1943.5 | 1760.6 | 1841.4 | 1927.3 | 1989.5 | 1932.3 | 1904.9 | 1894.9 | 1899.9 |
| 27.5° | 4454.3 | 3109.3 | 1779.2 | 1677.2 | 1779.2 | 1878.8 | 1861.4 | 1851.4 | 1839.0 | 1822.8 | 1826.5 |
| 30° | 4300.0 | 2831.8 | 1639.9 | 1612.5 | 1712.0 | 1769.3 | 1776.7 | 1792.9 | 1779.2 | 1754.3 | 1764.3 |
| 32.5° | 4156.9 | 2570.6 | 1534.1 | 1557.8 | 1664.8 | 1656.1 | 1712.0 | 1730.7 | 1667.3 | 1583.9 | 1587.6 |
| 35° | 4035.0 | 2327.9 | 1454.5 | 1504.3 | 1583.9 | 1587.6 | 1643.6 | 1578.9 | 1510.5 | 1470.7 | 1473.2 |
| 37.5° | 3942.9 | 2138.8 | 1402.2 | 1458.2 | 1480.6 | 1527.9 | 1498.0 | 1464.4 | 1455.7 | 1428.4 | 1429.6 |
| 40° | 3888.2 | 1973.3 | 1368.6 | 1422.1 | 1418.4 | 1450.8 | 1355.0 | 1388.5 | 1401.0 | 1392.3 | 1393.5 |
| 42.5° | 3833.4 | 1856.4 | 1333.8 | 1372.4 | 1371.1 | 1307.7 | 1286.5 | 1315.1 | 1347.5 | 1351.2 | 1348.7 |
| 45° | 3789.9 | 1765.5 | 1297.7 | 1296.5 | 1321.4 | 1221.8 | 1215.6 | 1233.0 | 1279.1 | 1301.5 | 1300.2 |
| 47.5° | 3741.4 | 1689.6 | 1243.0 | 1208.1 | 1215.6 | 1168.3 | 1158.4 | 1165.8 | 1221.8 | 1257.9 | 1267.9 |
| 50° | 3680.4 | 1613.8 | 1174.5 | 1127.3 | 1096.2 | 1118.6 | 1121.0 | 1122.3 | 1178.3 | 1219.3 | 1228.0 |
| 52.5° | 3631.9 | 1556.5 | 1096.2 | 1061.3 | 1024.0 | 1073.8 | 1092.4 | 1094.9 | 1128.5 | 1162.1 | 1168.3 |
| 55° | 3660.5 | 1524.2 | 1019.0 | 994.1 | 960.5 | 1027.7 | 1063.8 | 1068.8 | 1076.2 | 1101.1 | 1104.9 |
| 57.5° | 3746.3 | 1531.6 | 956.8 | 924.5 | 899.6 | 973.0 | 1033.9 | 1037.7 | 1032.7 | 1062.6 | 1067.5 |
| 60° | 3772.5 | 1527.9 | 910.8 | 847.3 | 832.4 | 914.5 | 990.4 | 997.9 | 996.6 | 1040.2 | 1048.9 |
| 62.5° | 3663.0 | 1480.6 | 864.7 | 782.6 | 772.7 | 854.8 | 929.4 | 959.3 | 965.5 | 1027.7 | 1038.9 |
| 65° | 3405.4 | 1383.6 | 803.8 | 714.2 | 714.2 | 791.3 | 871.0 | 912.0 | 929.4 | 1012.8 | 1025.2 |
| 67.5° | 3065.8 | 1269.1 | 741.6 | 655.7 | 653.2 | 730.4 | 808.7 | 851.0 | 878.4 | 991.6 | 999.1 |
| 70° | 2544.4 | 1114.8 | 664.4 | 592.2 | 592.2 | 661.9 | 732.8 | 783.9 | 823.7 | 951.8 | 951.8 |
| 72.5° | 1743.2 | 926.9 | 571.1 | 520.1 | 521.3 | 586.0 | 658.2 | 715.4 | 762.7 | 872.2 | 874.7 |
| 75° | 1102.4 | 724.1 | 469.1 | 442.9 | 447.9 | 508.9 | 583.5 | 643.3 | 737.8 | 862.2 | 866.0 |
| 77.5° | 586.0 | 508.9 | 373.3 | 367.0 | 373.3 | 429.3 | 512.6 | 594.7 | 740.3 | 747.8 | 735.3 |
| 80° | 379.5 | 360.8 | 294.9 | 282.4 | 284.9 | 345.9 | 456.6 | 564.9 | 594.7 | 602.2 | 574.8 |
| 82.5° | 206.5 | 228.9 | 209.0 | 196.6 | 196.6 | 270.0 | 389.4 | 449.2 | 426.8 | 354.6 | 338.4 |
| 85° | 88.3 | 107.0 | 108.2 | 94.6 | 90.8 | 166.7 | 261.3 | 245.1 | 227.7 | 217.7 | 215.2 |
| 87.5° | 24.9 | 34.8 | 34.8 | 26.1 | 19.9 | 46.0 | 52.3 | 14.9 | 0.0 | 1.2 | 2.5 |
| 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)