

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: P450284

Luminaire Tested: **GLAN-SA1A-750-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4619 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

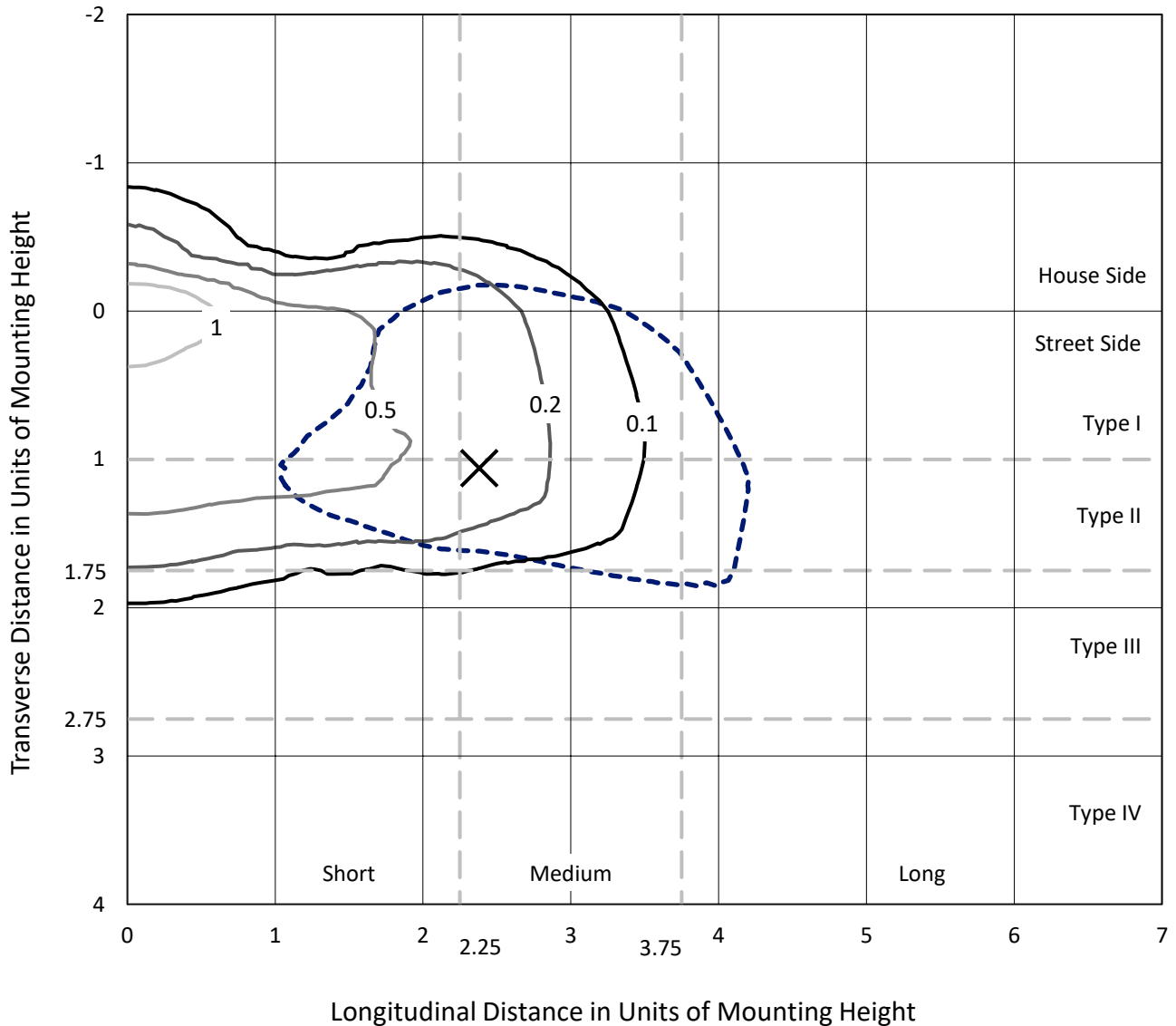
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

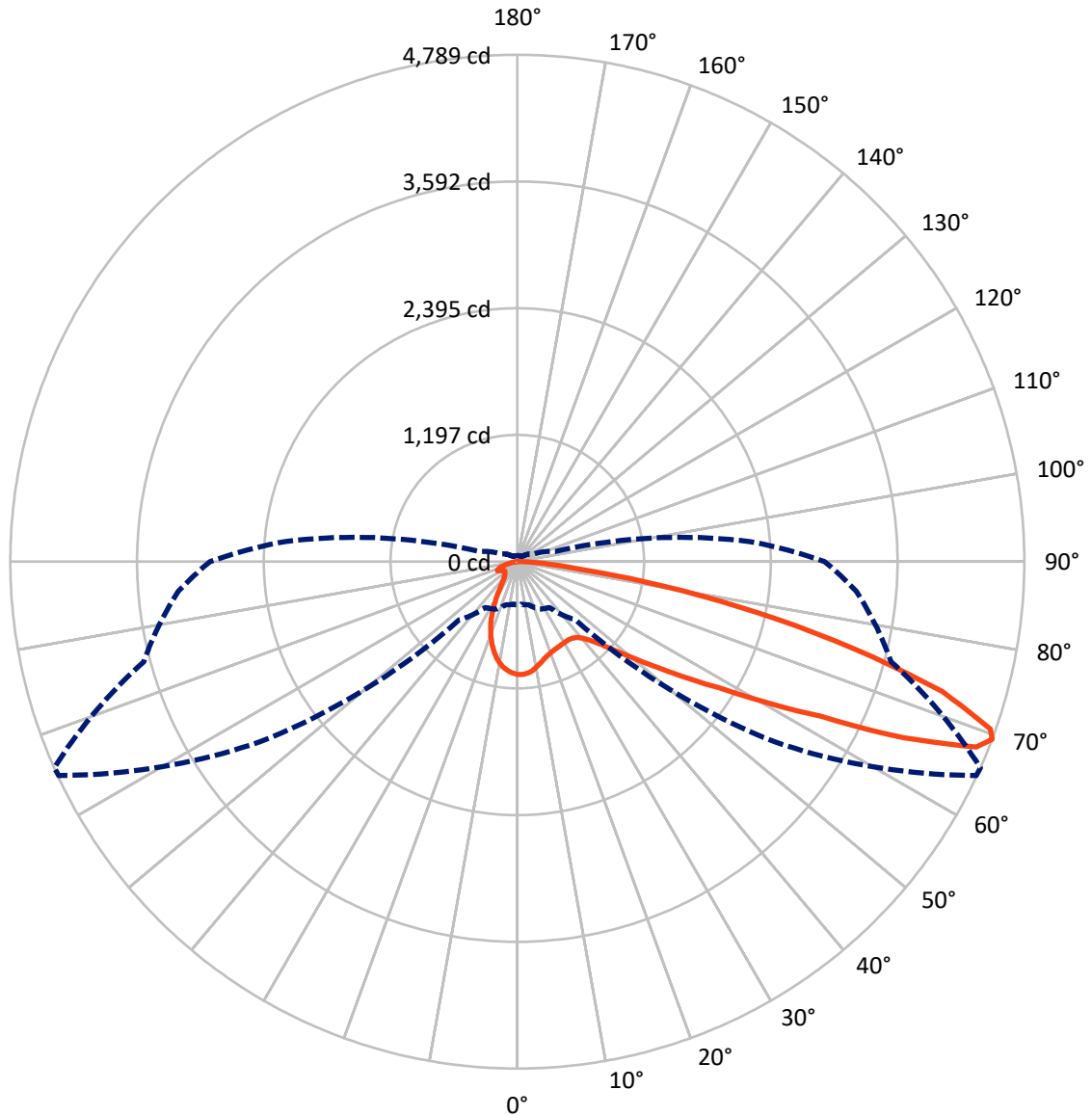
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 868.7 | 0.0 | 868.7 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 3750.3 | 0.0 | 3750.3 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 4619.0 | 0.0 | 4619.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.6 | 2.0 |
| 10°-20° | 219.7 | 4.8 |
| 20°-30° | 299.1 | 6.5 |
| 30°-40° | 401.9 | 8.7 |
| 40°-50° | 600.1 | 13.0 |
| 50°-60° | 954.6 | 20.7 |
| 60°-70° | 1174.1 | 25.4 |
| 70°-80° | 763.9 | 16.5 |
| 80°-90° | 112.8 | 2.4 |
| 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° | 4619.0 | 100.0 |
| 0°-180° | 4619.0 | 100.0 |



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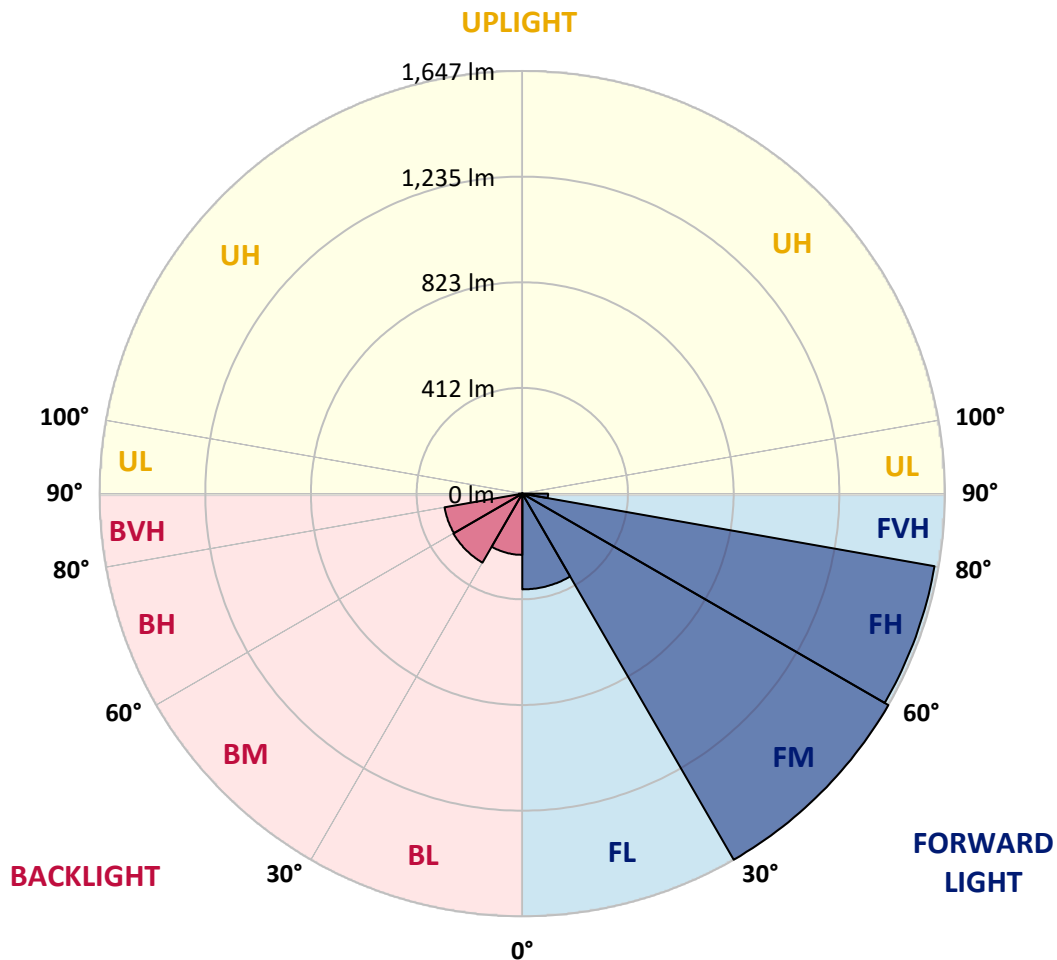
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 373.0 | 8.1 | | | |
| FM (30°-60°) | 1646.5 | 35.6 | | | |
| FH (60°-80°) | 1630.5 | 35.3 | | | G1/1800 |
| FVH (80°-90°) | 100.3 | 2.2 | | | G2/225 |
| BL (0°-30°) | 238.5 | 5.2 | B1/500 | | |
| BM (30°-60°) | 310.1 | 6.7 | B1/1000 | | |
| BH (60°-80°) | 307.5 | 6.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 |
| 2.5° | 1029.3 | 1033.4 | 1038.0 | 1043.1 | 1052.8 | 1058.2 | 1062.1 | 1066.4 | 1066.9 | 1069.2 | 1067.4 |
| 5° | 953.3 | 958.2 | 965.1 | 974.8 | 989.4 | 1012.2 | 1035.7 | 1054.9 | 1057.2 | 1067.9 | 1071.0 |
| 7.5° | 889.9 | 892.7 | 898.3 | 913.9 | 934.7 | 960.0 | 994.3 | 1033.1 | 1038.8 | 1064.4 | 1073.3 |
| 10° | 838.2 | 841.0 | 847.7 | 863.8 | 884.3 | 916.0 | 953.6 | 1004.8 | 1009.4 | 1053.4 | 1073.8 |
| 12.5° | 799.6 | 802.2 | 809.3 | 825.2 | 848.7 | 878.4 | 919.8 | 974.1 | 980.7 | 1038.8 | 1069.0 |
| 15° | 770.2 | 775.1 | 780.9 | 794.0 | 818.8 | 847.4 | 887.6 | 945.9 | 951.3 | 1023.4 | 1065.6 |
| 17.5° | 757.7 | 760.0 | 764.1 | 776.1 | 794.2 | 822.4 | 862.8 | 923.9 | 930.3 | 1012.7 | 1064.9 |
| 20° | 758.2 | 760.5 | 761.2 | 767.9 | 780.9 | 805.2 | 845.1 | 906.5 | 914.2 | 1003.2 | 1066.1 |
| 22.5° | 775.6 | 775.8 | 773.0 | 770.7 | 775.8 | 796.0 | 832.6 | 893.5 | 902.4 | 999.1 | 1067.2 |
| 25° | 802.4 | 807.0 | 802.9 | 792.2 | 782.7 | 792.4 | 827.7 | 886.3 | 894.8 | 993.2 | 1065.9 |
| 27.5° | 845.9 | 846.7 | 843.3 | 828.8 | 804.2 | 797.0 | 825.7 | 880.9 | 888.1 | 988.9 | 1059.5 |
| 30° | 904.2 | 901.9 | 898.9 | 882.7 | 844.1 | 814.7 | 830.0 | 876.1 | 883.5 | 982.5 | 1051.8 |
| 32.5° | 963.3 | 970.5 | 967.7 | 948.7 | 898.6 | 849.0 | 844.1 | 875.6 | 881.7 | 977.6 | 1043.4 |
| 35° | 1026.0 | 1029.3 | 1042.6 | 1032.9 | 981.5 | 904.5 | 870.5 | 883.5 | 888.4 | 977.9 | 1037.5 |
| 37.5° | 1075.1 | 1084.0 | 1115.3 | 1123.7 | 1075.4 | 977.9 | 913.2 | 906.0 | 908.1 | 990.4 | 1039.8 |
| 40° | 1134.4 | 1149.8 | 1189.9 | 1224.5 | 1192.8 | 1073.3 | 985.8 | 947.7 | 950.3 | 1020.6 | 1054.9 |
| 42.5° | 1209.6 | 1220.4 | 1274.4 | 1321.2 | 1316.1 | 1199.4 | 1073.8 | 1016.0 | 1017.3 | 1080.7 | 1097.1 |
| 45° | 1297.6 | 1313.0 | 1373.6 | 1443.9 | 1456.0 | 1342.1 | 1200.9 | 1119.3 | 1118.6 | 1174.1 | 1175.9 |
| 47.5° | 1410.2 | 1419.6 | 1479.8 | 1556.5 | 1605.1 | 1521.5 | 1355.2 | 1267.7 | 1259.5 | 1310.2 | 1295.6 |
| 50° | 1513.8 | 1528.6 | 1574.1 | 1658.0 | 1779.0 | 1731.5 | 1558.0 | 1460.1 | 1440.9 | 1488.2 | 1463.6 |
| 52.5° | 1557.3 | 1572.9 | 1611.2 | 1715.3 | 1928.2 | 2003.1 | 1815.6 | 1689.5 | 1657.5 | 1693.9 | 1684.9 |
| 55° | 1481.8 | 1502.0 | 1537.8 | 1664.4 | 1993.6 | 2316.5 | 2163.0 | 1954.8 | 1931.5 | 1915.9 | 1918.4 |
| 57.5° | 1279.0 | 1298.1 | 1346.5 | 1486.2 | 1915.4 | 2543.9 | 2659.0 | 2295.7 | 2245.9 | 2174.0 | 2186.3 |
| 60° | 973.5 | 985.6 | 1010.6 | 1165.4 | 1683.4 | 2602.9 | 3222.2 | 2726.7 | 2695.0 | 2431.1 | 2439.8 |
| 62.5° | 691.4 | 705.0 | 722.4 | 799.6 | 1232.4 | 2436.4 | 3663.2 | 3328.6 | 3215.3 | 2697.3 | 2688.9 |
| 65° | 561.5 | 552.3 | 573.2 | 609.3 | 723.1 | 1888.3 | 3762.5 | 4164.0 | 4008.0 | 3048.0 | 2930.9 |
| 67.5° | 461.7 | 452.0 | 472.7 | 536.9 | 550.0 | 1096.1 | 3404.9 | 4706.3 | 4675.1 | 3429.4 | 3176.7 |
| 69° | 408.8 | 403.6 | 421.8 | 495.0 | 528.0 | 778.4 | 2966.2 | 4781.8 | 4789.2 | 3654.3 | 3214.5 |
| 70° | 368.3 | 370.4 | 388.0 | 473.7 | 518.0 | 641.8 | 2535.2 | 4677.7 | 4740.6 | 3766.5 | 3173.6 |
| 72.5° | 271.1 | 275.5 | 300.0 | 392.4 | 508.5 | 544.6 | 1508.7 | 4085.8 | 4197.0 | 3773.2 | 2903.2 |
| 75° | 189.5 | 187.5 | 209.2 | 295.4 | 480.4 | 539.7 | 886.1 | 3159.8 | 3285.9 | 3261.4 | 2439.5 |
| 77.5° | 124.1 | 127.4 | 144.8 | 208.7 | 404.2 | 535.6 | 577.6 | 2241.8 | 2323.6 | 2181.1 | 1442.9 |
| 80° | 87.5 | 87.2 | 96.9 | 142.5 | 299.8 | 514.7 | 473.0 | 1413.0 | 1392.3 | 857.2 | 427.9 |
| 82.5° | 50.1 | 53.7 | 65.0 | 100.3 | 200.5 | 453.0 | 435.1 | 675.8 | 617.0 | 244.3 | 144.5 |
| 85° | 27.9 | 29.2 | 38.6 | 60.6 | 117.2 | 341.2 | 379.9 | 307.5 | 290.1 | 102.1 | 62.2 |
| 87.5° | 9.0 | 9.7 | 16.1 | 30.7 | 53.2 | 161.1 | 215.1 | 142.0 | 131.0 | 36.8 | 25.1 |
| 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° | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 | 1066.7 |
| 2.5° | 1068.2 | 1071.3 | 1063.1 | 1055.1 | 1048.0 | 1038.0 | 1029.1 | 1021.6 | 1016.5 | 1015.8 | 1013.2 |
| 5° | 1071.8 | 1072.0 | 1056.4 | 1035.4 | 1015.0 | 992.5 | 969.2 | 952.6 | 937.0 | 928.3 | 923.9 |
| 7.5° | 1074.3 | 1072.0 | 1043.9 | 1009.9 | 970.5 | 929.6 | 888.6 | 855.9 | 830.6 | 820.6 | 824.4 |
| 10° | 1073.3 | 1066.1 | 1025.0 | 970.5 | 913.2 | 852.0 | 793.2 | 747.2 | 705.0 | 683.2 | 683.7 |
| 12.5° | 1067.7 | 1055.9 | 996.8 | 926.2 | 842.1 | 760.2 | 670.2 | 608.0 | 559.2 | 530.3 | 521.3 |
| 15° | 1062.8 | 1042.4 | 963.8 | 866.1 | 761.5 | 644.6 | 534.9 | 458.1 | 417.2 | 394.4 | 394.2 |
| 17.5° | 1057.7 | 1029.3 | 927.8 | 802.4 | 668.9 | 518.5 | 403.4 | 344.8 | 325.6 | 327.9 | 324.1 |
| 20° | 1052.3 | 1014.0 | 890.2 | 731.6 | 556.1 | 386.8 | 302.1 | 278.3 | 283.7 | 294.2 | 295.7 |
| 22.5° | 1046.2 | 997.6 | 849.7 | 653.6 | 437.4 | 291.1 | 245.0 | 241.5 | 255.3 | 271.7 | 274.0 |
| 25° | 1036.7 | 977.1 | 798.8 | 572.0 | 337.4 | 234.6 | 214.6 | 217.2 | 230.7 | 244.5 | 246.1 |
| 27.5° | 1023.4 | 951.8 | 747.4 | 470.1 | 253.5 | 201.3 | 196.2 | 199.5 | 206.2 | 214.6 | 216.7 |
| 30° | 1005.5 | 923.2 | 688.3 | 382.2 | 203.1 | 184.7 | 182.6 | 184.4 | 188.3 | 191.8 | 192.9 |
| 32.5° | 987.6 | 895.5 | 628.7 | 292.6 | 181.1 | 173.7 | 171.6 | 171.6 | 171.6 | 172.1 | 172.4 |
| 35° | 971.0 | 869.4 | 564.8 | 227.9 | 169.6 | 165.0 | 162.2 | 159.1 | 158.6 | 156.8 | 156.8 |
| 37.5° | 961.8 | 845.7 | 496.7 | 190.8 | 161.1 | 157.8 | 154.0 | 148.9 | 146.1 | 146.3 | 145.8 |
| 40° | 963.6 | 830.0 | 434.8 | 169.8 | 154.2 | 150.7 | 144.8 | 138.9 | 137.1 | 137.1 | 136.6 |
| 42.5° | 983.8 | 824.9 | 375.5 | 158.8 | 147.6 | 143.5 | 136.1 | 130.7 | 129.7 | 129.4 | 129.9 |
| 45° | 1030.3 | 837.5 | 322.3 | 151.7 | 142.0 | 135.8 | 128.4 | 123.5 | 122.5 | 122.5 | 122.3 |
| 47.5° | 1121.1 | 878.1 | 284.2 | 147.1 | 137.9 | 129.9 | 122.3 | 117.4 | 115.6 | 115.1 | 115.1 |
| 50° | 1262.3 | 966.4 | 255.8 | 143.0 | 132.8 | 124.6 | 116.6 | 111.0 | 108.2 | 107.9 | 107.7 |
| 52.5° | 1458.5 | 1104.0 | 244.8 | 139.9 | 127.1 | 118.9 | 110.2 | 104.9 | 101.3 | 100.5 | 100.0 |
| 55° | 1688.0 | 1296.1 | 259.9 | 137.6 | 121.2 | 112.5 | 103.6 | 98.0 | 94.6 | 93.1 | 92.9 |
| 57.5° | 1953.7 | 1526.8 | 317.2 | 134.5 | 115.9 | 105.6 | 96.9 | 91.3 | 87.7 | 85.9 | 85.4 |
| 60° | 2192.4 | 1763.9 | 417.2 | 132.8 | 111.3 | 98.2 | 89.3 | 84.2 | 80.8 | 79.0 | 78.8 |
| 62.5° | 2454.6 | 1990.1 | 536.7 | 137.6 | 109.2 | 91.1 | 82.1 | 77.5 | 74.7 | 72.9 | 72.9 |
| 65° | 2734.7 | 2216.4 | 615.7 | 154.0 | 112.3 | 85.4 | 74.4 | 70.6 | 68.0 | 66.8 | 66.5 |
| 67.5° | 2923.5 | 2294.7 | 507.2 | 170.9 | 120.0 | 79.3 | 67.0 | 63.9 | 62.4 | 61.1 | 61.1 |
| 69° | 2903.0 | 2195.7 | 374.2 | 175.2 | 122.3 | 76.2 | 62.9 | 60.6 | 58.6 | 58.1 | 57.6 |
| 70° | 2838.3 | 2082.9 | 313.6 | 172.4 | 120.5 | 73.4 | 60.4 | 57.6 | 55.8 | 55.3 | 55.0 |
| 72.5° | 2528.0 | 1806.4 | 233.5 | 149.9 | 102.6 | 63.7 | 53.5 | 50.9 | 49.4 | 48.6 | 48.6 |
| 75° | 2100.3 | 1476.4 | 182.4 | 119.2 | 80.3 | 53.7 | 45.8 | 43.7 | 42.5 | 41.9 | 41.7 |
| 77.5° | 1177.2 | 824.4 | 131.0 | 93.4 | 60.9 | 43.5 | 38.4 | 36.6 | 35.3 | 34.8 | 34.8 |
| 80° | 327.9 | 235.6 | 77.0 | 61.6 | 41.4 | 33.0 | 30.4 | 29.2 | 27.4 | 26.1 | 26.9 |
| 82.5° | 123.5 | 102.1 | 44.0 | 37.1 | 26.3 | 22.0 | 21.2 | 20.2 | 19.4 | 17.6 | 17.6 |
| 85° | 60.1 | 49.6 | 28.1 | 19.7 | 14.6 | 11.5 | 11.0 | 10.5 | 10.0 | 8.7 | 9.0 |
| 87.5° | 20.7 | 22.0 | 12.3 | 7.2 | 4.3 | 2.8 | 2.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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)