

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: P193741

Luminaire Tested: **GAN-AF-03-LED-U-SL4-8030-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL4-8030-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9724 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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: 28.75 FT

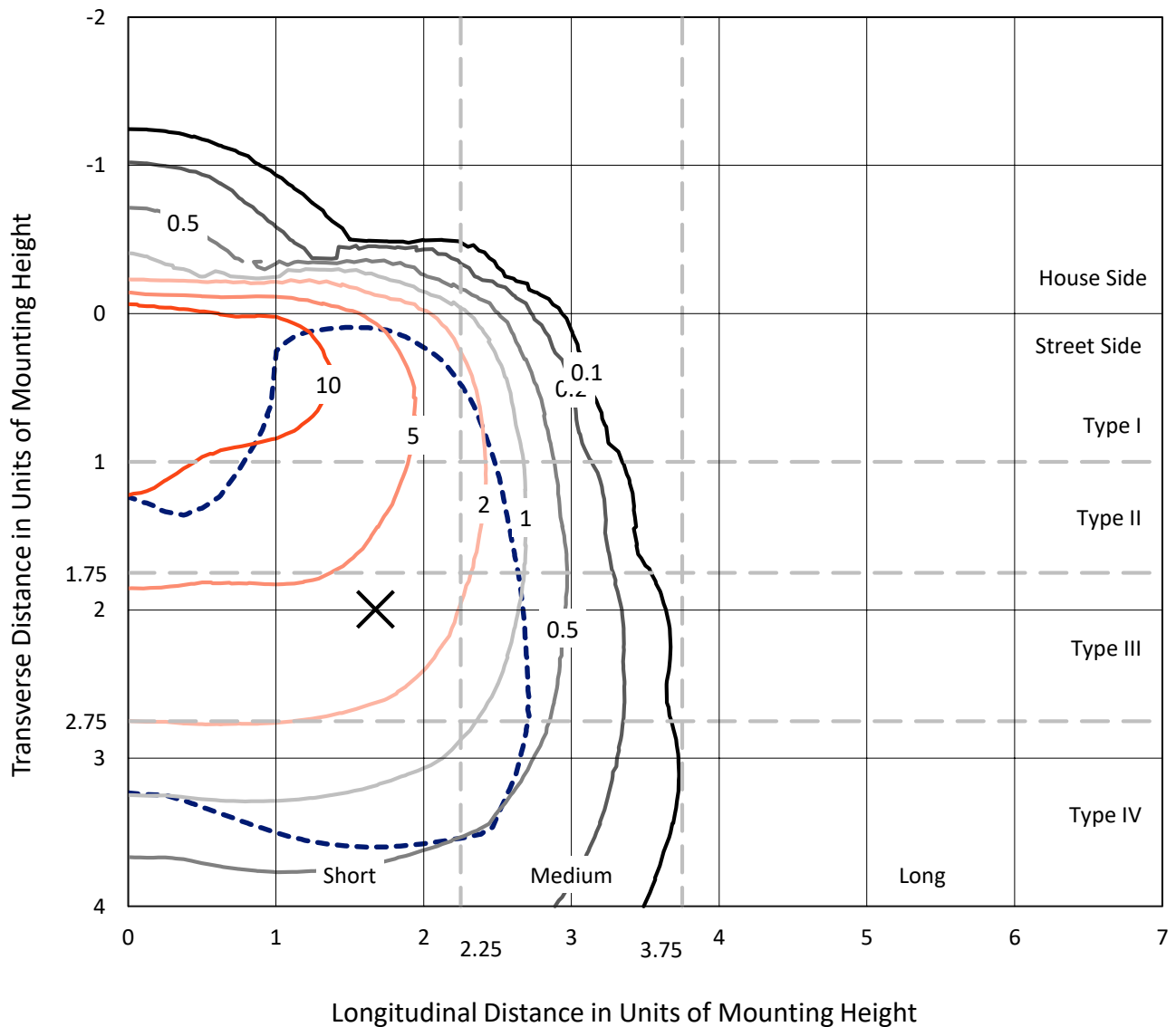


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

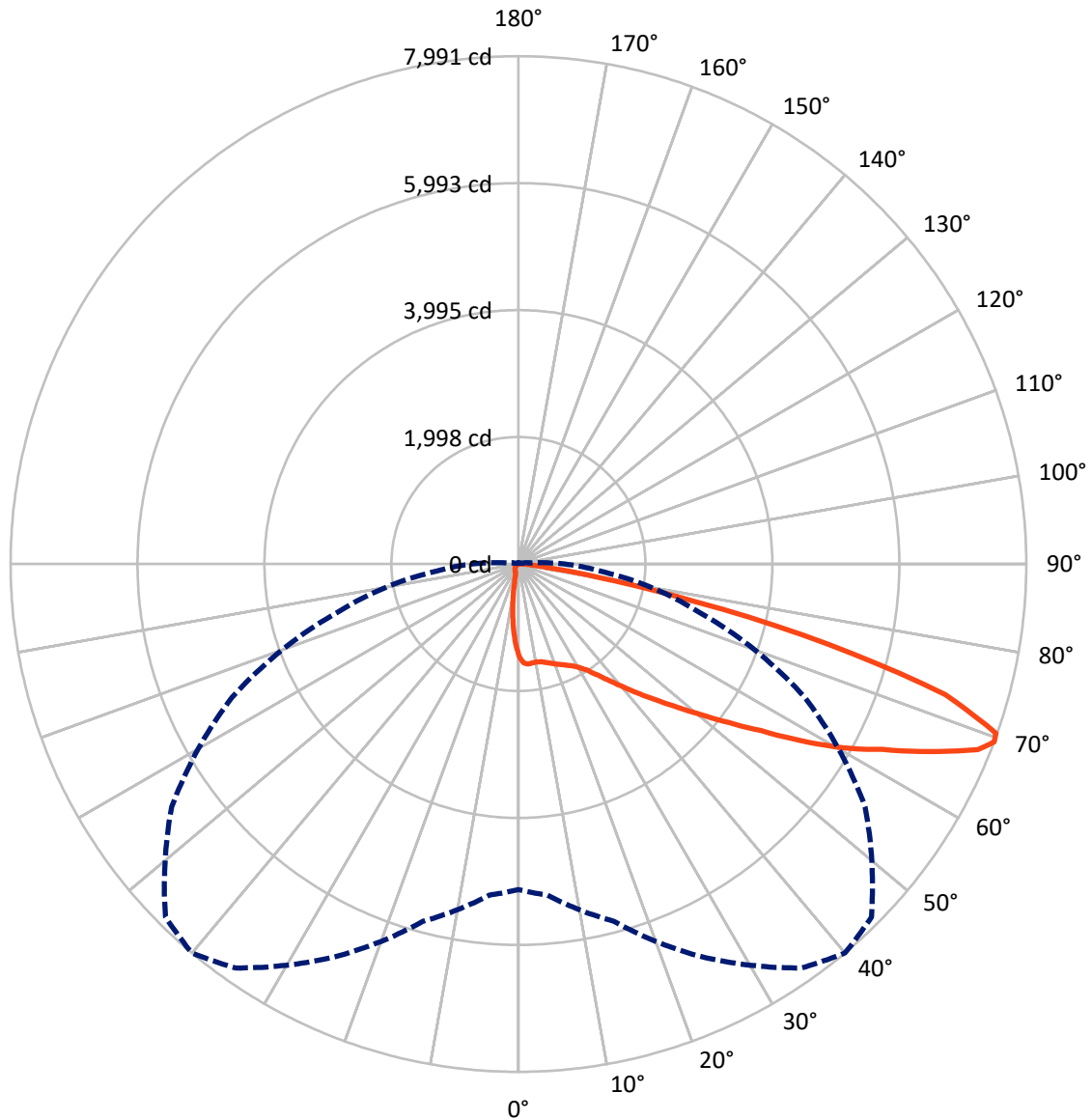


Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 568.9 | 0.0 | 568.9 |
| | % Fixture | 5.9 | 0.0 | 5.9 |
| Street Side | Lumens | 9155.1 | 0.0 | 9155.1 |
| | % Fixture | 94.1 | 0.0 | 94.1 |
| Total | Lumens | 9724.0 | 0.0 | 9724.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.8 | 1.2 |
| 10°-20° | 289.7 | 3.0 |
| 20°-30° | 487.9 | 5.0 |
| 30°-40° | 798.7 | 8.2 |
| 40°-50° | 1383.0 | 14.2 |
| 50°-60° | 2178.3 | 22.4 |
| 60°-70° | 2844.8 | 29.3 |
| 70°-80° | 1465.2 | 15.1 |
| 80°-90° | 158.5 | 1.6 |
| 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° | 9724.0 | 100.0 |
| 0°-180° | 9724.0 | 100.0 |

Coefficient of Utilization



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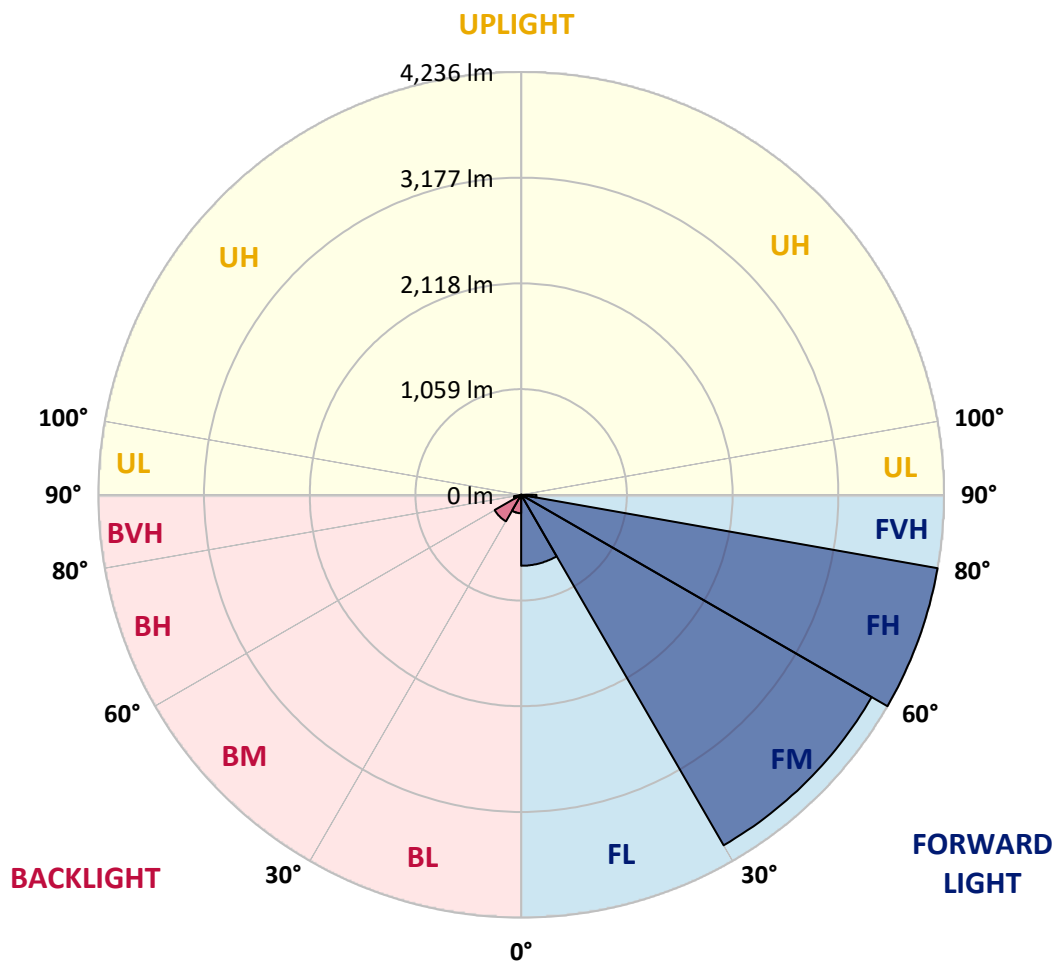
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 711.1 | 7.3 | | | |
| FM | (30°-60°) | 4054.3 | 41.7 | | | |
| FH | (60°-80°) | 4236.2 | 43.6 | | | G2/5000 |
| FVH | (80°-90°) | 153.5 | 1.6 | | | G2/225 |
| BL | (0°-30°) | 184.3 | 1.9 | B1/500 | | |
| BM | (30°-60°) | 305.8 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 73.9 | 0.8 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 5.0 | 0.1 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 |
| 2.5° | 1595.2 | 1586.5 | 1581.3 | 1574.4 | 1565.7 | 1558.2 | 1555.3 | 1533.8 | 1513.6 | 1485.8 | 1454.0 |
| 5° | 1624.7 | 1621.8 | 1612.6 | 1603.3 | 1592.9 | 1581.3 | 1574.9 | 1549.5 | 1520.5 | 1480.0 | 1424.5 |
| 7.5° | 1627.6 | 1624.1 | 1612.6 | 1599.8 | 1585.4 | 1571.5 | 1560.5 | 1535.0 | 1508.4 | 1467.3 | 1399.6 |
| 10° | 1623.0 | 1618.9 | 1610.3 | 1596.4 | 1578.4 | 1565.1 | 1554.1 | 1529.8 | 1507.2 | 1470.2 | 1394.9 |
| 12.5° | 1617.8 | 1613.7 | 1609.7 | 1602.7 | 1587.1 | 1577.8 | 1568.6 | 1545.4 | 1525.2 | 1493.9 | 1411.7 |
| 15° | 1623.0 | 1620.7 | 1625.3 | 1622.4 | 1613.7 | 1605.6 | 1596.4 | 1575.5 | 1557.0 | 1531.0 | 1442.4 |
| 17.5° | 1645.0 | 1645.0 | 1659.5 | 1661.2 | 1653.1 | 1641.5 | 1628.2 | 1607.4 | 1591.7 | 1569.7 | 1478.9 |
| 20° | 1696.5 | 1694.8 | 1713.3 | 1716.8 | 1697.1 | 1679.1 | 1659.5 | 1634.0 | 1621.8 | 1607.9 | 1514.7 |
| 22.5° | 1785.1 | 1776.9 | 1787.9 | 1784.5 | 1745.7 | 1717.9 | 1693.6 | 1662.3 | 1656.0 | 1649.6 | 1554.7 |
| 25° | 1900.2 | 1895.6 | 1903.1 | 1869.0 | 1800.7 | 1763.1 | 1734.1 | 1698.8 | 1698.8 | 1705.2 | 1599.8 |
| 27.5° | 2067.5 | 2050.1 | 2024.7 | 1964.5 | 1862.0 | 1814.0 | 1782.7 | 1745.1 | 1755.0 | 1778.7 | 1659.5 |
| 30° | 2238.8 | 2219.7 | 2161.3 | 2068.7 | 1936.7 | 1886.3 | 1849.9 | 1810.5 | 1833.7 | 1877.1 | 1739.3 |
| 32.5° | 2407.9 | 2386.4 | 2303.7 | 2186.7 | 2043.8 | 1993.4 | 1958.1 | 1914.7 | 1953.5 | 2026.4 | 1856.2 |
| 35° | 2571.7 | 2552.6 | 2457.1 | 2319.3 | 2186.2 | 2144.5 | 2112.1 | 2074.5 | 2124.2 | 2226.1 | 2021.2 |
| 37.5° | 2755.7 | 2734.9 | 2618.5 | 2469.2 | 2359.2 | 2329.1 | 2305.4 | 2267.8 | 2354.6 | 2503.9 | 2251.0 |
| 40° | 2982.0 | 2946.7 | 2789.9 | 2641.1 | 2559.5 | 2545.0 | 2528.8 | 2523.6 | 2658.5 | 2865.1 | 2557.2 |
| 42.5° | 3241.3 | 3183.5 | 2969.3 | 2822.3 | 2779.5 | 2789.9 | 2785.8 | 2809.0 | 3038.8 | 3314.3 | 2929.9 |
| 45° | 3500.6 | 3426.0 | 3169.0 | 3015.6 | 3021.4 | 3057.9 | 3080.4 | 3173.0 | 3515.1 | 3829.4 | 3331.1 |
| 47.5° | 3720.6 | 3647.1 | 3360.6 | 3224.6 | 3294.0 | 3365.8 | 3427.1 | 3602.5 | 4004.8 | 4336.5 | 3643.0 |
| 50° | 3908.7 | 3839.3 | 3563.7 | 3454.3 | 3610.6 | 3726.4 | 3825.9 | 4085.8 | 4531.5 | 4722.5 | 3861.8 |
| 52.5° | 4062.7 | 4016.4 | 3774.4 | 3717.7 | 3972.4 | 4142.0 | 4287.8 | 4599.2 | 4998.0 | 5036.2 | 4032.0 |
| 55° | 4212.6 | 4179.6 | 4000.7 | 4030.8 | 4397.2 | 4628.2 | 4812.8 | 5143.9 | 5399.7 | 5297.9 | 4195.2 |
| 57.5° | 4385.1 | 4355.0 | 4258.9 | 4427.9 | 4955.8 | 5246.3 | 5447.8 | 5626.6 | 5753.4 | 5565.3 | 4349.2 |
| 60° | 4561.0 | 4543.7 | 4546.0 | 4869.0 | 5597.1 | 5876.1 | 5987.2 | 6033.5 | 6100.7 | 5817.1 | 4357.9 |
| 62.5° | 4728.9 | 4761.9 | 4874.2 | 5359.8 | 6211.2 | 6425.4 | 6481.5 | 6527.3 | 6448.5 | 5857.0 | 4026.2 |
| 65° | 5013.1 | 5066.9 | 5334.9 | 6016.7 | 6886.7 | 7115.9 | 7173.8 | 7016.9 | 6503.5 | 5340.7 | 3274.9 |
| 67.5° | 5152.0 | 5250.4 | 5728.5 | 6629.1 | 7541.9 | 7796.6 | 7775.2 | 7048.8 | 5836.2 | 4072.5 | 2101.7 |
| 69° | 5123.1 | 5227.8 | 5819.4 | 6816.7 | 7759.5 | 7990.5 | 7854.5 | 6659.2 | 4972.0 | 2950.2 | 1290.2 |
| 70° | 5008.5 | 5114.4 | 5772.5 | 6809.7 | 7787.3 | 7970.2 | 7707.4 | 6178.2 | 4203.9 | 2157.2 | 806.9 |
| 72.5° | 4182.5 | 4273.9 | 5124.8 | 6155.1 | 7173.8 | 7025.0 | 6448.0 | 4280.3 | 2048.4 | 587.5 | 181.7 |
| 75° | 2574.6 | 2625.5 | 3677.2 | 4636.9 | 5418.2 | 5036.2 | 4295.9 | 2129.4 | 610.6 | 166.1 | 100.7 |
| 77.5° | 1360.2 | 1383.4 | 2013.1 | 2733.1 | 3434.7 | 2842.0 | 2201.8 | 830.6 | 281.3 | 104.2 | 72.9 |
| 80° | 804.0 | 821.3 | 1084.1 | 1249.7 | 1486.4 | 1241.5 | 880.4 | 509.9 | 201.4 | 65.4 | 64.8 |
| 82.5° | 460.2 | 471.2 | 786.0 | 694.6 | 585.8 | 500.1 | 438.2 | 483.3 | 121.0 | 44.0 | 67.1 |
| 85° | 169.0 | 171.3 | 442.2 | 528.5 | 348.4 | 207.2 | 217.6 | 400.5 | 32.4 | 27.8 | 52.7 |
| 87.5° | 78.7 | 77.0 | 227.5 | 323.6 | 203.7 | 131.4 | 169.6 | 88.0 | 12.7 | 17.9 | 14.5 |
| 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° | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 | 1452.8 |
| 2.5° | 1435.5 | 1414.0 | 1375.3 | 1335.3 | 1294.8 | 1263.5 | 1232.9 | 1208.6 | 1200.5 | 1185.4 | 1186.6 |
| 5° | 1391.5 | 1352.1 | 1271.1 | 1188.9 | 1103.2 | 1032.6 | 966.0 | 912.2 | 886.2 | 859.5 | 859.5 |
| 7.5° | 1353.3 | 1296.0 | 1169.2 | 1035.5 | 897.2 | 780.8 | 676.1 | 597.3 | 553.9 | 519.2 | 518.6 |
| 10° | 1338.8 | 1261.2 | 1084.1 | 892.5 | 699.8 | 541.2 | 416.7 | 336.9 | 295.8 | 269.1 | 268.0 |
| 12.5° | 1345.2 | 1249.1 | 1018.7 | 760.6 | 518.6 | 347.9 | 241.4 | 189.9 | 172.5 | 164.4 | 164.4 |
| 15° | 1363.7 | 1245.6 | 953.3 | 631.5 | 366.4 | 217.6 | 160.3 | 146.4 | 145.3 | 145.3 | 145.3 |
| 17.5° | 1386.3 | 1246.8 | 886.2 | 505.9 | 249.5 | 155.7 | 138.3 | 136.6 | 137.8 | 137.8 | 137.8 |
| 20° | 1409.4 | 1247.3 | 813.8 | 389.5 | 176.0 | 135.4 | 130.2 | 129.7 | 130.8 | 130.8 | 131.4 |
| 22.5° | 1437.8 | 1250.2 | 741.5 | 291.1 | 145.3 | 127.9 | 123.9 | 123.9 | 124.4 | 124.4 | 123.9 |
| 25° | 1470.2 | 1256.0 | 666.2 | 215.9 | 132.5 | 122.7 | 119.2 | 118.7 | 119.2 | 118.7 | 118.1 |
| 27.5° | 1510.7 | 1264.1 | 582.3 | 169.0 | 126.8 | 117.5 | 114.6 | 114.6 | 114.0 | 113.4 | 112.9 |
| 30° | 1561.6 | 1273.4 | 487.9 | 143.5 | 121.0 | 112.9 | 110.0 | 109.4 | 108.8 | 107.7 | 107.7 |
| 32.5° | 1639.2 | 1293.6 | 394.7 | 130.2 | 114.6 | 106.5 | 104.2 | 104.2 | 103.0 | 101.9 | 101.3 |
| 35° | 1758.4 | 1333.6 | 311.4 | 122.1 | 107.7 | 99.6 | 96.7 | 96.7 | 95.5 | 94.9 | 94.3 |
| 37.5° | 1923.4 | 1394.4 | 241.9 | 114.6 | 100.7 | 92.0 | 89.1 | 88.6 | 87.4 | 86.2 | 85.7 |
| 40° | 2142.8 | 1469.6 | 190.4 | 107.7 | 93.8 | 84.5 | 82.2 | 81.0 | 78.7 | 77.0 | 77.0 |
| 42.5° | 2418.3 | 1555.3 | 154.5 | 100.1 | 85.7 | 77.6 | 75.8 | 74.1 | 70.0 | 68.3 | 67.7 |
| 45° | 2706.5 | 1632.2 | 130.8 | 91.5 | 77.6 | 70.6 | 69.5 | 66.6 | 61.4 | 59.6 | 59.6 |
| 47.5° | 2914.3 | 1650.2 | 115.2 | 83.3 | 70.0 | 63.1 | 62.5 | 57.3 | 52.7 | 51.5 | 50.9 |
| 50° | 3044.0 | 1614.9 | 102.4 | 75.2 | 63.1 | 56.1 | 54.4 | 48.0 | 45.1 | 44.0 | 43.4 |
| 52.5° | 3131.4 | 1551.8 | 92.0 | 68.3 | 56.7 | 49.8 | 45.7 | 41.1 | 38.8 | 37.6 | 37.6 |
| 55° | 3201.4 | 1462.7 | 81.6 | 61.9 | 51.5 | 44.6 | 38.8 | 35.3 | 33.0 | 31.8 | 31.8 |
| 57.5° | 3221.1 | 1341.7 | 71.2 | 56.7 | 46.3 | 39.4 | 33.0 | 30.7 | 27.8 | 27.2 | 27.2 |
| 60° | 3078.1 | 1123.5 | 63.1 | 50.4 | 41.7 | 34.1 | 28.9 | 26.0 | 23.2 | 22.6 | 22.0 |
| 62.5° | 2701.3 | 869.4 | 55.6 | 44.6 | 36.5 | 29.5 | 24.9 | 21.4 | 19.1 | 19.1 | 19.1 |
| 65° | 2060.6 | 582.9 | 48.6 | 38.8 | 31.8 | 24.9 | 21.4 | 17.4 | 16.2 | 16.2 | 16.8 |
| 67.5° | 1233.4 | 317.2 | 41.7 | 33.0 | 27.2 | 20.8 | 17.9 | 15.0 | 14.5 | 15.0 | 15.0 |
| 69° | 722.9 | 186.4 | 37.6 | 29.5 | 23.7 | 18.5 | 15.6 | 13.3 | 14.5 | 15.0 | 15.0 |
| 70° | 446.3 | 125.6 | 34.7 | 26.6 | 21.4 | 16.8 | 14.5 | 12.7 | 13.9 | 14.5 | 14.5 |
| 72.5° | 124.4 | 64.8 | 27.8 | 20.8 | 17.4 | 13.9 | 11.6 | 11.6 | 13.3 | 13.9 | 13.9 |
| 75° | 81.0 | 48.0 | 21.4 | 15.6 | 13.3 | 11.0 | 9.8 | 11.0 | 12.7 | 13.3 | 13.3 |
| 77.5° | 67.1 | 39.4 | 17.4 | 12.7 | 11.0 | 10.4 | 9.3 | 9.8 | 11.6 | 12.2 | 12.2 |
| 80° | 61.4 | 27.8 | 13.9 | 11.6 | 9.8 | 9.3 | 8.7 | 8.1 | 10.4 | 11.0 | 11.0 |
| 82.5° | 58.5 | 22.0 | 12.2 | 10.4 | 9.3 | 8.1 | 7.5 | 8.1 | 9.3 | 9.8 | 10.4 |
| 85° | 36.5 | 14.5 | 11.0 | 9.8 | 8.1 | 7.5 | 7.5 | 7.5 | 8.7 | 9.3 | 9.3 |
| 87.5° | 13.3 | 11.6 | 9.8 | 8.1 | 6.9 | 6.9 | 6.9 | 6.9 | 7.5 | 8.7 | 8.7 |
| 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)