

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: P193258

Luminaire Tested: **GAN-AF-10-LED-U-T4FT-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T4FT-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37769.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

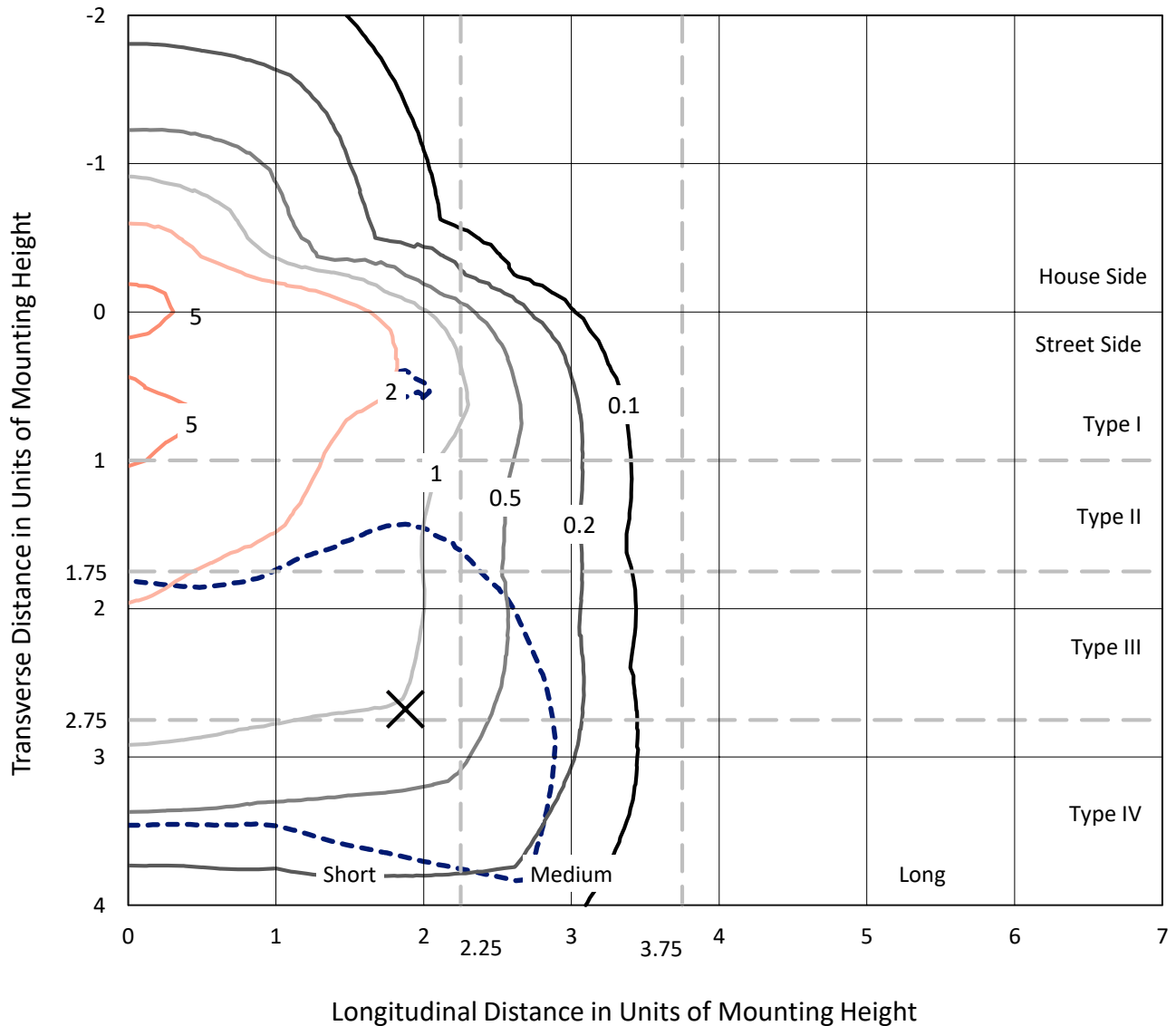


REPORT NUMBER: P193258

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

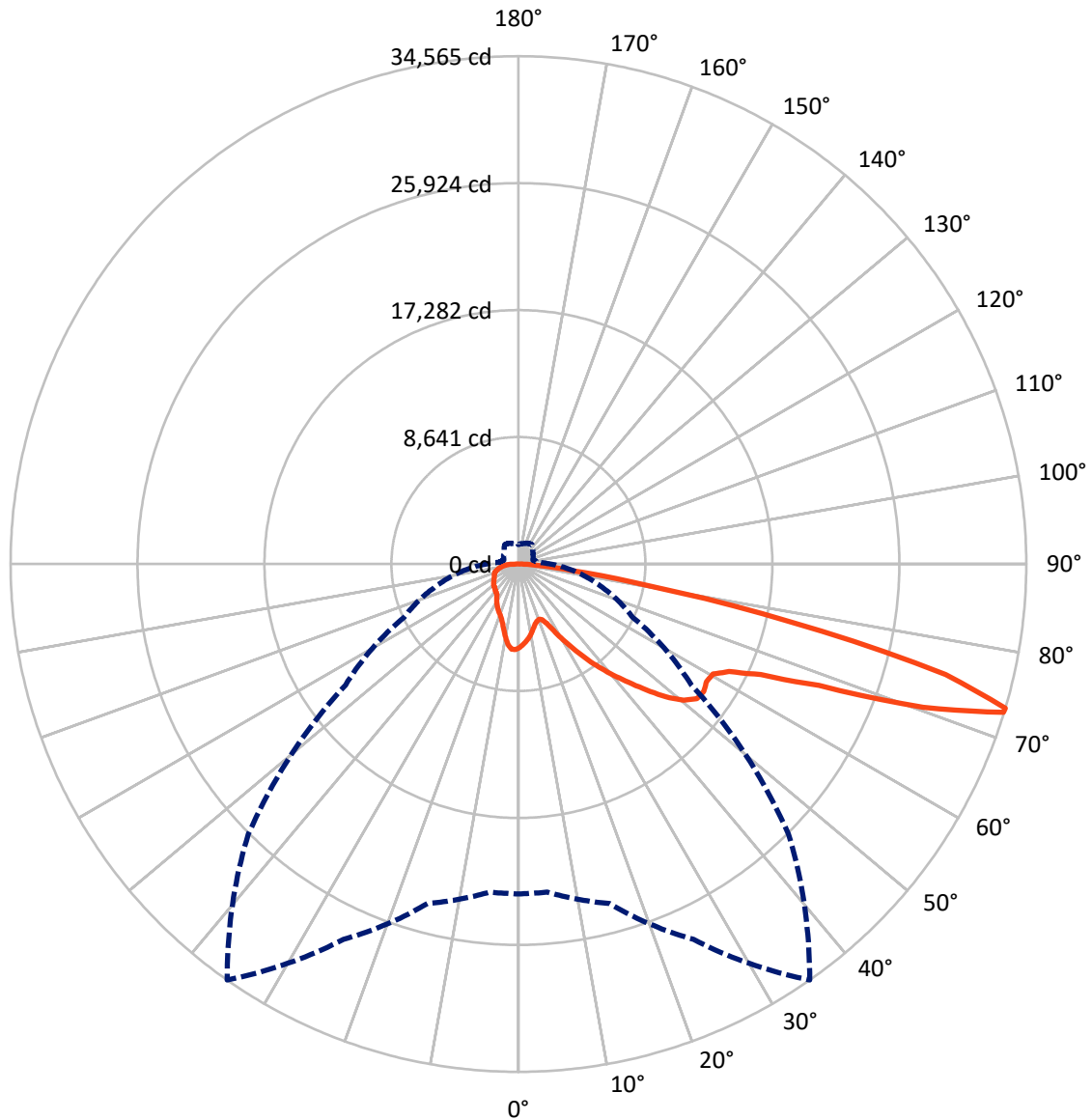


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193258

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7203.8 | 0.0 | 7203.8 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 30566.1 | 0.0 | 30566.1 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 37769.8 | 0.0 | 37769.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 516.1 | 1.4 |
| 10°-20° | 1288.0 | 3.4 |
| 20°-30° | 2082.3 | 5.5 |
| 30°-40° | 3491.7 | 9.2 |
| 40°-50° | 5382.3 | 14.3 |
| 50°-60° | 7221.0 | 19.1 |
| 60°-70° | 9619.8 | 25.5 |
| 70°-80° | 7337.0 | 19.4 |
| 80°-90° | 831.6 | 2.2 |
| 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° | 37769.8 | 100.0 |
| 0°-180° | 37769.8 | 100.0 |



REPORT NUMBER: P193258

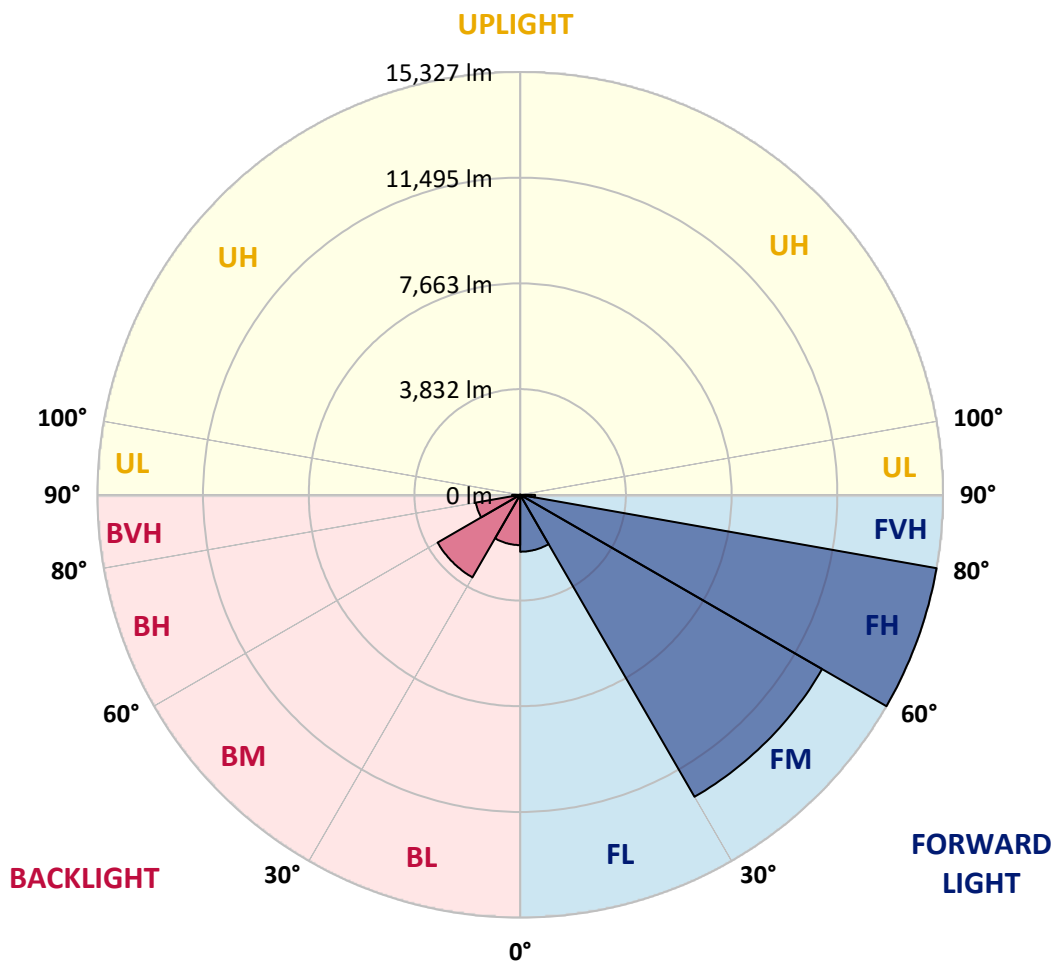
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2063.5 | 5.5 | | | |
| FM (30°-60°) | 12638.0 | 33.5 | | | |
| FH (60°-80°) | 15327.0 | 40.6 | | | G5 |
| FVH (80°-90°) | 537.6 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1822.9 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 3457.0 | 9.2 | B3/5000 | | |
| BH (60°-80°) | 1629.8 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 294.1 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P193258

CATALOG NUMBER: GAN-AF-10-LED-U-T4FT-7030-600-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 |
| 2.5° | 5475.7 | 5486.7 | 5473.9 | 5490.3 | 5517.5 | 5546.4 | 5566.4 | 5595.5 | 5628.1 | 5673.4 | 5684.3 |
| 5° | 5218.2 | 5234.5 | 5234.5 | 5263.6 | 5316.1 | 5363.3 | 5406.8 | 5454.0 | 5522.9 | 5600.8 | 5631.8 |
| 7.5° | 4935.2 | 4944.3 | 4960.6 | 5004.2 | 5080.3 | 5147.4 | 5209.2 | 5285.3 | 5379.6 | 5482.9 | 5537.4 |
| 10° | 4594.3 | 4606.9 | 4632.4 | 4694.0 | 4797.3 | 4889.9 | 4978.7 | 5084.0 | 5203.7 | 5332.4 | 5401.3 |
| 12.5° | 4353.0 | 4349.4 | 4360.3 | 4405.7 | 4496.3 | 4608.8 | 4737.5 | 4871.8 | 5018.8 | 5169.2 | 5252.6 |
| 15° | 4271.4 | 4251.5 | 4209.8 | 4198.9 | 4247.8 | 4360.3 | 4509.0 | 4674.0 | 4850.0 | 5031.4 | 5134.7 |
| 17.5° | 4322.2 | 4287.8 | 4173.4 | 4090.0 | 4082.8 | 4168.0 | 4325.8 | 4510.8 | 4714.0 | 4935.2 | 5064.0 |
| 20° | 4641.5 | 4559.8 | 4278.7 | 4084.5 | 4017.5 | 4059.2 | 4197.0 | 4392.9 | 4632.4 | 4926.2 | 5091.3 |
| 22.5° | 5404.9 | 5285.3 | 4688.6 | 4327.6 | 4100.9 | 4050.1 | 4153.5 | 4362.0 | 4641.5 | 5038.6 | 5249.1 |
| 25° | 6516.9 | 6346.4 | 5392.3 | 4933.4 | 4465.4 | 4195.2 | 4218.8 | 4432.8 | 4770.2 | 5299.8 | 5553.7 |
| 27.5° | 7394.6 | 7284.1 | 6311.9 | 5787.7 | 5129.2 | 4587.0 | 4431.0 | 4610.5 | 5033.1 | 5727.8 | 5987.2 |
| 30° | 7917.0 | 7849.9 | 7294.9 | 6756.3 | 5976.4 | 5210.9 | 4837.4 | 4944.3 | 5444.9 | 6320.9 | 6535.1 |
| 32.5° | 8522.9 | 8483.0 | 8210.9 | 7715.8 | 6890.4 | 6030.8 | 5481.2 | 5443.1 | 5996.2 | 7033.8 | 7131.7 |
| 35° | 9150.5 | 9137.7 | 8978.1 | 8622.6 | 7871.7 | 7111.8 | 6335.5 | 6077.9 | 6596.6 | 7773.8 | 7712.1 |
| 37.5° | 9734.5 | 9712.7 | 9620.2 | 9413.4 | 8898.3 | 8272.6 | 7206.0 | 6729.1 | 7244.1 | 8481.1 | 8207.2 |
| 40° | 10810.0 | 10639.5 | 10322.0 | 10166.1 | 9935.8 | 9250.2 | 7897.2 | 7336.6 | 7915.3 | 9155.8 | 8635.3 |
| 42.5° | 12121.3 | 11843.8 | 11252.5 | 11038.6 | 11005.9 | 10021.0 | 8368.7 | 7926.1 | 8591.8 | 9825.1 | 9056.1 |
| 45° | 13153.4 | 12892.1 | 12382.6 | 12112.3 | 12232.0 | 10719.3 | 8842.1 | 8555.5 | 9288.2 | 10527.0 | 9489.6 |
| 47.5° | 14254.3 | 13844.5 | 13169.7 | 13251.3 | 13512.5 | 11379.6 | 9324.5 | 9232.1 | 10051.9 | 11312.3 | 10028.3 |
| 50° | 14294.3 | 13980.5 | 13684.8 | 14172.7 | 14579.0 | 11987.2 | 9928.5 | 9941.2 | 10985.9 | 12301.0 | 10744.7 |
| 52.5° | 13465.3 | 13398.3 | 13868.0 | 14635.2 | 15221.0 | 12467.8 | 10615.9 | 10674.0 | 12181.2 | 13436.2 | 11531.9 |
| 55° | 13175.1 | 13099.0 | 13641.2 | 14473.8 | 15308.1 | 12864.9 | 11361.5 | 11466.5 | 13626.9 | 14633.4 | 12299.1 |
| 57.5° | 13882.5 | 13713.7 | 13750.1 | 14397.6 | 15096.0 | 13300.2 | 12174.0 | 12386.1 | 15197.5 | 15679.9 | 12792.4 |
| 60° | 15859.5 | 15498.5 | 14813.0 | 14796.7 | 15210.2 | 13953.3 | 13113.6 | 13372.8 | 16829.9 | 16180.5 | 12600.3 |
| 62.5° | 18632.7 | 18271.8 | 16987.6 | 16151.5 | 16089.8 | 15030.6 | 14267.1 | 14335.9 | 17772.9 | 15502.1 | 11426.7 |
| 65° | 21634.5 | 21311.7 | 19877.0 | 18696.2 | 18126.6 | 16815.3 | 15607.3 | 14765.9 | 17464.6 | 13635.9 | 9373.5 |
| 67.5° | 25278.3 | 24931.9 | 23698.6 | 22608.5 | 22060.7 | 19695.6 | 16548.7 | 14354.1 | 15507.6 | 10563.3 | 6738.1 |
| 70° | 27826.7 | 27473.0 | 26986.9 | 27870.2 | 29210.6 | 23851.0 | 16670.2 | 12680.0 | 11582.7 | 7021.1 | 4055.6 |
| 72.5° | 24502.1 | 24337.0 | 25223.9 | 28944.0 | 34526.7 | 26372.0 | 15068.7 | 9232.1 | 6727.2 | 3727.3 | 2347.0 |
| 73° | 22448.9 | 22412.6 | 23925.3 | 28191.3 | 34564.8 | 25983.9 | 14366.8 | 8580.9 | 5769.6 | 3297.5 | 2145.7 |
| 75° | 10137.1 | 10429.2 | 13744.7 | 21533.0 | 30030.4 | 21411.4 | 10111.7 | 4922.5 | 3259.3 | 2278.0 | 1619.7 |
| 77.5° | 2435.8 | 2537.4 | 4300.5 | 10226.0 | 18964.6 | 12759.8 | 4581.6 | 2434.1 | 2084.0 | 1608.9 | 1182.6 |
| 80° | 1037.4 | 1072.0 | 1656.0 | 3778.0 | 8929.1 | 5138.4 | 2111.2 | 1630.5 | 1441.9 | 1122.7 | 828.8 |
| 82.5° | 576.8 | 613.1 | 939.5 | 1714.0 | 3603.9 | 1752.1 | 1287.7 | 1135.4 | 948.6 | 676.6 | 538.6 |
| 85° | 326.4 | 346.5 | 549.6 | 957.6 | 1527.2 | 703.7 | 770.9 | 754.6 | 535.1 | 348.2 | 264.9 |
| 87.5° | 154.2 | 166.8 | 264.9 | 444.3 | 598.5 | 275.7 | 391.8 | 431.7 | 335.5 | 212.2 | 137.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P193258

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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 | 5700.6 |
| 2.5° | 5697.0 | 5729.7 | 5767.8 | 5787.7 | 5805.8 | 5827.6 | 5849.4 | 5849.4 | 5853.0 | 5854.7 |
| 5° | 5657.1 | 5724.2 | 5784.0 | 5809.5 | 5814.9 | 5814.9 | 5809.5 | 5780.5 | 5755.0 | 5765.9 |
| 7.5° | 5573.7 | 5671.6 | 5722.5 | 5713.3 | 5644.5 | 5564.6 | 5497.5 | 5415.9 | 5374.1 | 5367.0 |
| 10° | 5454.0 | 5566.4 | 5575.5 | 5484.9 | 5314.3 | 5143.8 | 5002.3 | 4864.6 | 4799.2 | 4783.0 |
| 12.5° | 5321.6 | 5424.9 | 5367.0 | 5180.1 | 4906.2 | 4657.7 | 4478.2 | 4338.4 | 4276.9 | 4260.6 |
| 15° | 5214.5 | 5285.3 | 5138.4 | 4844.5 | 4500.0 | 4237.0 | 4088.3 | 3984.8 | 3941.3 | 3928.6 |
| 17.5° | 5158.3 | 5172.9 | 4904.4 | 4507.2 | 4140.8 | 3921.4 | 3828.9 | 3779.9 | 3763.6 | 3754.4 |
| 20° | 5185.6 | 5084.0 | 4681.3 | 4193.4 | 3847.0 | 3692.9 | 3671.0 | 3658.3 | 3654.7 | 3649.3 |
| 22.5° | 5321.6 | 5056.7 | 4476.4 | 3895.9 | 3589.3 | 3522.3 | 3540.4 | 3538.7 | 3535.0 | 3531.4 |
| 25° | 5564.6 | 5080.3 | 4276.9 | 3612.9 | 3373.6 | 3359.0 | 3391.7 | 3391.7 | 3377.2 | 3377.2 |
| 27.5° | 5885.7 | 5129.2 | 4053.7 | 3344.5 | 3177.7 | 3179.6 | 3204.9 | 3197.7 | 3181.3 | 3170.4 |
| 30° | 6277.4 | 5160.1 | 3792.6 | 3103.3 | 2994.5 | 2987.2 | 2994.5 | 2963.6 | 2914.7 | 2911.1 |
| 32.5° | 6678.3 | 5122.1 | 3489.6 | 2889.4 | 2800.5 | 2784.2 | 2778.7 | 2735.2 | 2678.9 | 2662.6 |
| 35° | 7041.0 | 4982.4 | 3181.3 | 2718.8 | 2615.4 | 2579.2 | 2604.5 | 2590.1 | 2539.3 | 2526.5 |
| 37.5° | 7305.8 | 4723.1 | 2903.8 | 2568.2 | 2483.0 | 2473.9 | 2490.2 | 2495.7 | 2435.8 | 2423.2 |
| 40° | 7483.6 | 4371.1 | 2666.3 | 2441.3 | 2457.7 | 2423.2 | 2368.7 | 2330.7 | 2312.6 | 2307.1 |
| 42.5° | 7626.9 | 4004.8 | 2466.7 | 2381.5 | 2463.0 | 2363.3 | 2245.4 | 2183.8 | 2216.5 | 2231.0 |
| 45° | 7792.0 | 3647.5 | 2299.8 | 2307.1 | 2435.8 | 2294.5 | 2160.2 | 2100.3 | 2113.1 | 2116.7 |
| 47.5° | 8018.6 | 3212.1 | 2120.2 | 2187.4 | 2345.1 | 2247.3 | 2107.6 | 2022.4 | 1962.6 | 1935.3 |
| 50° | 8332.4 | 2697.1 | 1933.5 | 2053.2 | 2256.3 | 2212.8 | 2026.0 | 1935.3 | 1824.6 | 1799.3 |
| 52.5° | 8550.1 | 2216.5 | 1779.3 | 1940.8 | 2176.6 | 2143.8 | 1960.6 | 1842.7 | 1726.8 | 1704.9 |
| 55° | 8432.2 | 1841.0 | 1645.1 | 1815.6 | 2071.3 | 2058.7 | 1906.2 | 1748.4 | 1657.8 | 1639.7 |
| 57.5° | 7842.7 | 1603.4 | 1541.6 | 1697.7 | 1942.5 | 1986.2 | 1833.7 | 1668.6 | 1603.4 | 1590.7 |
| 60° | 6718.2 | 1454.7 | 1476.4 | 1617.9 | 1837.3 | 1913.5 | 1761.2 | 1625.1 | 1581.6 | 1572.6 |
| 62.5° | 5212.8 | 1355.0 | 1427.5 | 1559.7 | 1755.7 | 1862.8 | 1721.3 | 1619.7 | 1603.4 | 1592.5 |
| 65° | 3734.5 | 1275.0 | 1374.8 | 1501.8 | 1681.4 | 1815.6 | 1706.7 | 1612.4 | 1616.1 | 1606.9 |
| 67.5° | 2537.4 | 1204.4 | 1311.3 | 1436.5 | 1608.9 | 1773.9 | 1686.8 | 1587.0 | 1632.4 | 1621.5 |
| 70° | 1775.7 | 1135.4 | 1237.1 | 1353.0 | 1518.1 | 1715.8 | 1650.5 | 1549.0 | 1545.4 | 1501.8 |
| 72.5° | 1385.7 | 1044.7 | 1135.4 | 1237.1 | 1402.1 | 1634.2 | 1577.9 | 1463.7 | 1403.9 | 1358.5 |
| 73° | 1322.2 | 1023.0 | 1110.1 | 1211.5 | 1376.6 | 1614.2 | 1558.0 | 1440.1 | 1373.1 | 1331.4 |
| 75° | 1093.6 | 928.6 | 1008.5 | 1099.1 | 1267.9 | 1519.9 | 1460.0 | 1333.1 | 1247.8 | 1222.5 |
| 77.5° | 859.8 | 794.5 | 870.6 | 952.2 | 1117.2 | 1382.1 | 1314.9 | 1193.4 | 1146.3 | 1124.5 |
| 80° | 636.7 | 658.4 | 725.5 | 798.0 | 968.6 | 1235.1 | 1175.3 | 1053.8 | 1264.2 | 1211.5 |
| 82.5° | 448.0 | 498.8 | 560.5 | 625.7 | 812.6 | 1091.8 | 1019.3 | 894.2 | 925.0 | 769.0 |
| 85° | 264.9 | 326.4 | 384.5 | 440.8 | 585.8 | 905.1 | 841.7 | 712.8 | 584.0 | 556.7 |
| 87.5° | 154.2 | 181.4 | 197.6 | 255.7 | 402.6 | 682.0 | 593.1 | 527.8 | 302.8 | 205.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)