

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: P318699

Luminaire Tested: **GAN-SA5D-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 35529 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

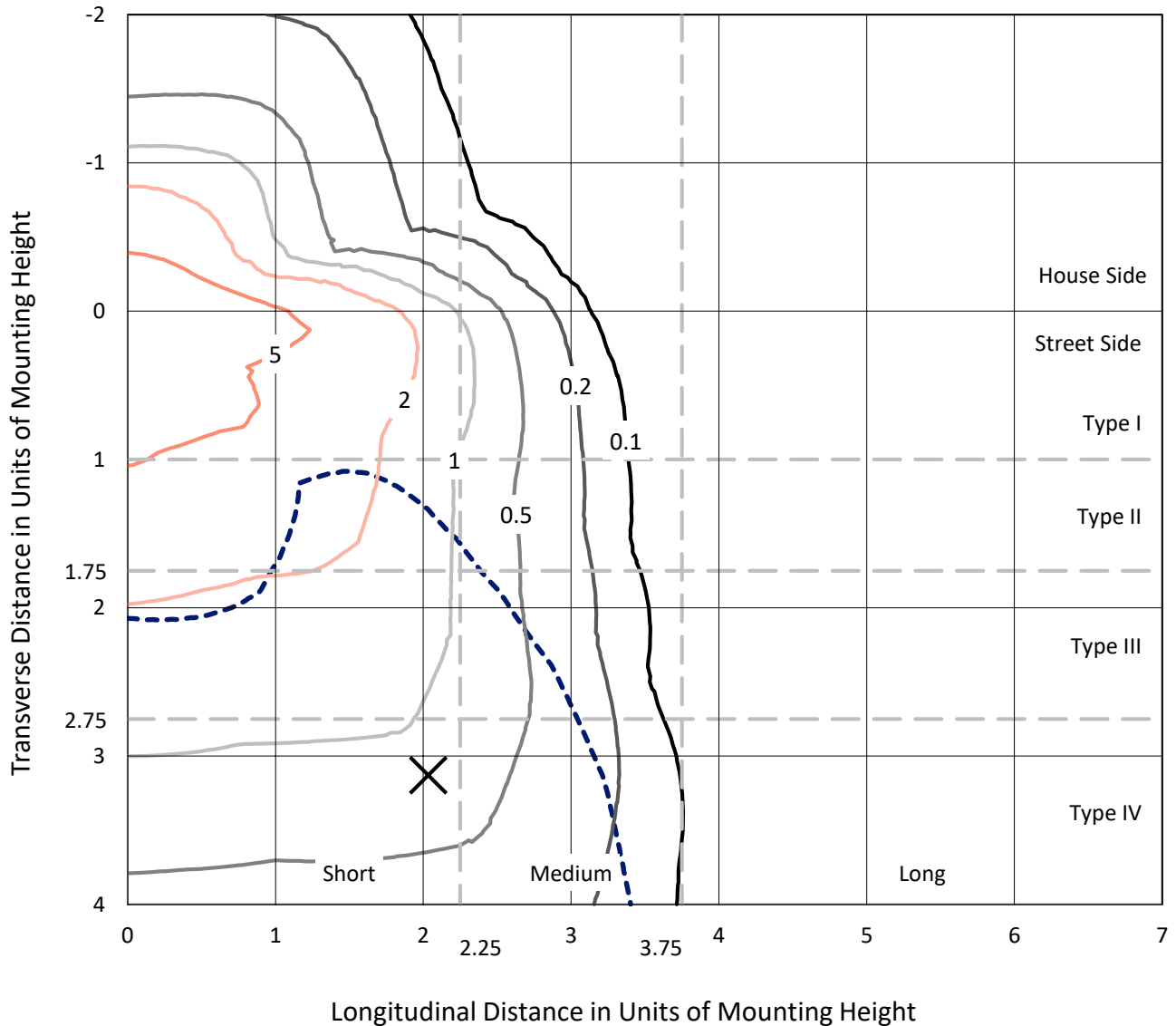
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

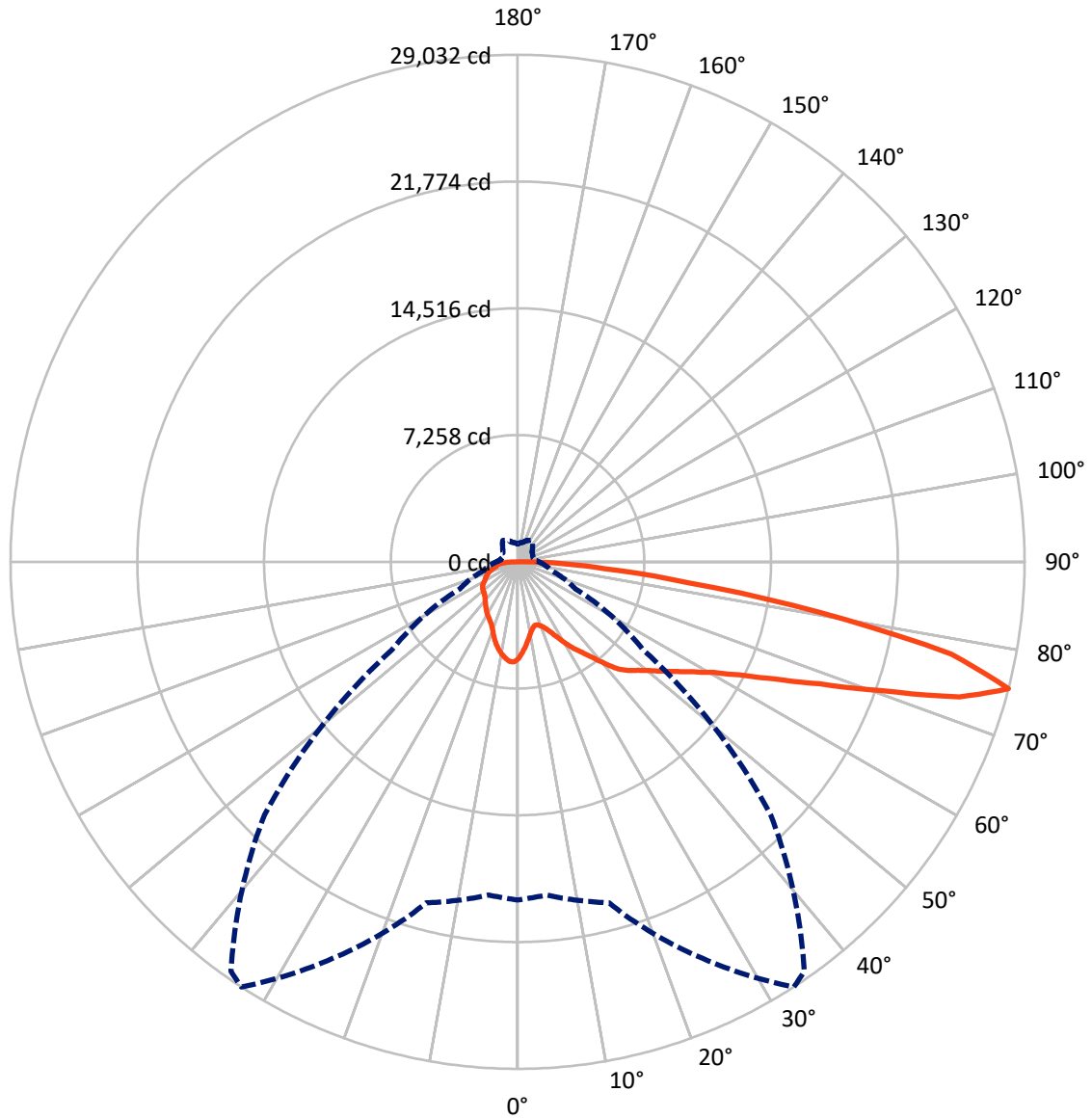
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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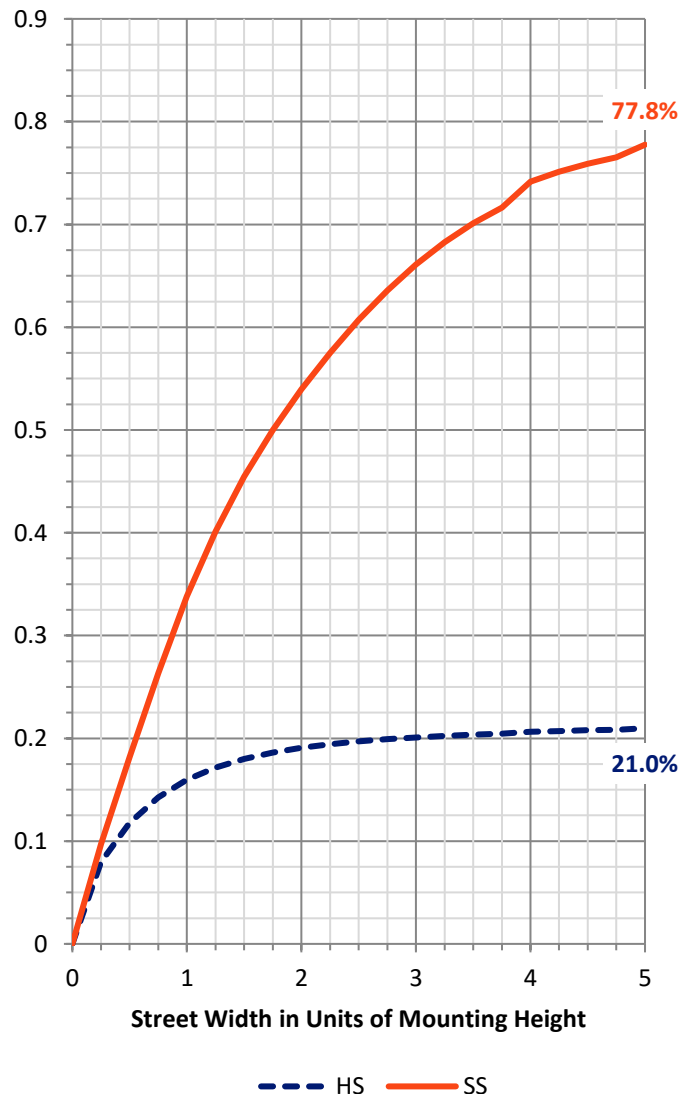
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7629.0 | 0.0 | 7629.0 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 27900.0 | 0.0 | 27900.0 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 35529.0 | 0.0 | 35529.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 502.2 | 1.4 |
| 10°-20° | 1360.3 | 3.8 |
| 20°-30° | 2221.5 | 6.3 |
| 30°-40° | 3308.3 | 9.3 |
| 40°-50° | 4745.1 | 13.4 |
| 50°-60° | 6514.2 | 18.3 |
| 60°-70° | 8155.5 | 23.0 |
| 70°-80° | 7377.9 | 20.8 |
| 80°-90° | 1343.9 | 3.8 |
| 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° | 35529.0 | 100.0 |
| 0°-180° | 35529.0 | 100.0 |

Coefficient of Utilization



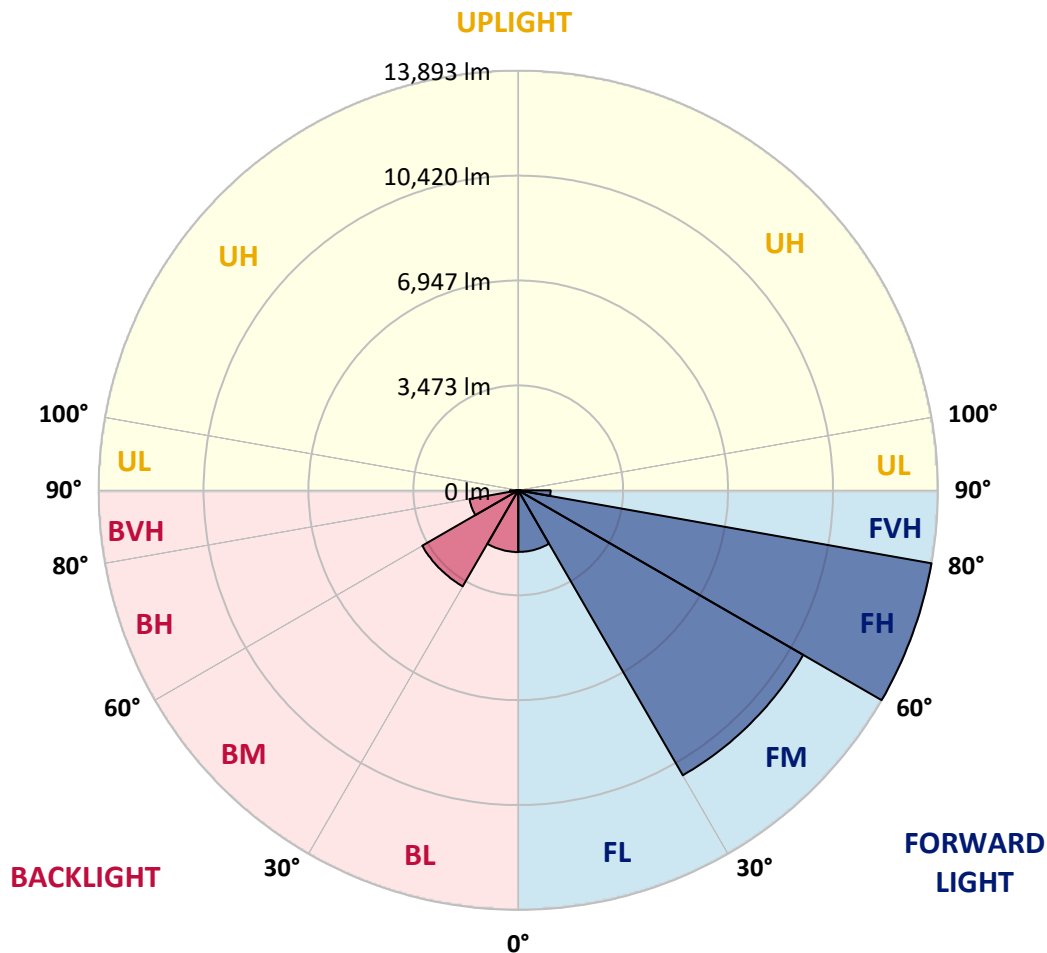
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2040.6 | 5.7 | | | |
| FM (30°-60°) | 10896.0 | 30.7 | | | |
| FH (60°-80°) | 13893.1 | 39.1 | | | G5 |
| FVH (80°-90°) | 1070.3 | 3.0 | | | G5 |
| BL (0°-30°) | 2043.4 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3671.6 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 1640.4 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 273.6 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 |
| 2.5° | 5157.0 | 5137.3 | 5174.2 | 5179.1 | 5211.0 | 5223.2 | 5267.4 | 5336.2 | 5392.6 | 5457.7 | 5516.6 |
| 5° | 4689.4 | 4675.9 | 4727.4 | 4764.2 | 4834.2 | 4863.7 | 4968.0 | 5114.0 | 5244.1 | 5391.4 | 5525.2 |
| 7.5° | 4245.1 | 4237.8 | 4295.4 | 4378.9 | 4459.9 | 4500.4 | 4680.8 | 4893.1 | 5110.3 | 5348.4 | 5553.4 |
| 10° | 3870.8 | 3868.3 | 3923.6 | 4005.8 | 4124.8 | 4170.3 | 4403.4 | 4683.2 | 4987.6 | 5315.3 | 5601.2 |
| 12.5° | 3660.9 | 3669.5 | 3695.3 | 3764.0 | 3874.5 | 3919.9 | 4178.8 | 4507.8 | 4884.5 | 5304.2 | 5671.2 |
| 15° | 3712.5 | 3726.0 | 3681.8 | 3679.3 | 3757.9 | 3793.5 | 4036.5 | 4382.6 | 4810.9 | 5322.7 | 5773.1 |
| 17.5° | 3932.2 | 3934.6 | 3818.0 | 3744.4 | 3792.3 | 3810.7 | 3992.3 | 4311.4 | 4767.9 | 5364.4 | 5900.7 |
| 20° | 4241.4 | 4235.3 | 4029.1 | 3906.4 | 3932.2 | 3937.1 | 4054.9 | 4312.6 | 4764.2 | 5436.8 | 6066.4 |
| 22.5° | 4651.3 | 4605.9 | 4328.6 | 4161.7 | 4155.5 | 4148.2 | 4215.7 | 4403.4 | 4818.2 | 5554.6 | 6264.0 |
| 25° | 5186.4 | 5143.5 | 4761.8 | 4533.5 | 4484.4 | 4466.0 | 4475.8 | 4597.3 | 4925.0 | 5681.0 | 6484.9 |
| 27.5° | 5781.7 | 5706.8 | 5338.6 | 5015.8 | 4914.0 | 4888.2 | 4829.3 | 4871.0 | 5041.6 | 5802.5 | 6747.5 |
| 30° | 6279.9 | 6239.4 | 5917.9 | 5535.0 | 5414.7 | 5377.9 | 5223.2 | 5177.8 | 5209.7 | 5968.2 | 7078.9 |
| 32.5° | 6558.5 | 6531.5 | 6336.4 | 6027.1 | 5915.4 | 5863.9 | 5645.4 | 5554.6 | 5479.7 | 6229.6 | 7528.1 |
| 35° | 6896.0 | 6878.8 | 6761.0 | 6536.4 | 6370.7 | 6316.7 | 6147.4 | 6052.9 | 5860.2 | 6589.2 | 8108.6 |
| 37.5° | 7325.6 | 7307.1 | 7309.6 | 7128.0 | 6930.4 | 6880.1 | 6768.4 | 6669.0 | 6353.6 | 7061.7 | 8739.4 |
| 40° | 7811.6 | 7776.0 | 7762.5 | 7753.9 | 7628.7 | 7600.5 | 7541.6 | 7406.6 | 6972.1 | 7626.2 | 9361.6 |
| 42.5° | 8543.0 | 8416.6 | 8146.6 | 8248.5 | 8372.4 | 8357.7 | 8405.5 | 8211.6 | 7659.4 | 8293.9 | 9969.1 |
| 45° | 9248.7 | 9041.3 | 8574.9 | 8597.0 | 8868.2 | 8950.5 | 9308.8 | 9171.4 | 8404.3 | 9025.3 | 10597.4 |
| 47.5° | 9570.2 | 9413.1 | 9016.7 | 9018.0 | 9286.7 | 9457.3 | 10242.8 | 10144.6 | 9187.3 | 9856.2 | 11364.5 |
| 50° | 9929.8 | 9772.7 | 9416.8 | 9550.6 | 9785.0 | 9966.6 | 11144.8 | 11094.5 | 9932.3 | 10765.6 | 12283.7 |
| 52.5° | 10322.5 | 10056.2 | 9830.4 | 10069.7 | 10398.6 | 10609.7 | 12048.1 | 11910.6 | 10615.9 | 11681.1 | 13340.4 |
| 55° | 10327.4 | 10255.0 | 10426.9 | 10602.4 | 11094.5 | 11353.4 | 12994.3 | 12631.0 | 11173.0 | 12580.7 | 14200.7 |
| 57.5° | 10915.3 | 10797.5 | 11162.0 | 11243.0 | 11886.1 | 12178.2 | 13935.6 | 13258.2 | 11740.0 | 13270.4 | 14664.6 |
| 60° | 11693.4 | 11592.8 | 11891.0 | 12104.5 | 12865.4 | 13255.7 | 14940.7 | 13902.5 | 12185.5 | 13790.8 | 14642.5 |
| 62.5° | 13037.3 | 12923.1 | 12919.4 | 13218.9 | 14243.7 | 14697.7 | 16068.6 | 14534.5 | 12362.3 | 13893.9 | 14017.8 |
| 65° | 15004.6 | 14822.9 | 14480.5 | 14622.9 | 16147.1 | 16600.0 | 17329.0 | 14992.3 | 12129.1 | 13341.6 | 12408.9 |
| 67.5° | 16919.1 | 16913.0 | 16492.0 | 16784.1 | 18660.6 | 19023.9 | 18764.9 | 15037.7 | 11401.3 | 11418.5 | 9554.3 |
| 70° | 18827.5 | 18852.0 | 18780.9 | 19797.0 | 22056.4 | 22434.4 | 20294.1 | 14427.7 | 9765.4 | 8246.0 | 5724.0 |
| 72.5° | 20339.5 | 20333.4 | 20691.7 | 23311.9 | 26463.6 | 26378.9 | 21582.7 | 12579.5 | 7011.4 | 4451.3 | 2735.6 |
| 75° | 19360.1 | 19146.6 | 20214.3 | 25052.2 | 29032.2 | 28618.6 | 20486.8 | 8775.0 | 3638.8 | 2026.2 | 1472.7 |
| 77.5° | 12627.3 | 12829.8 | 14397.1 | 20695.4 | 25394.6 | 24891.4 | 15030.3 | 4094.2 | 1714.5 | 1329.1 | 1067.7 |
| 80° | 4572.8 | 4786.3 | 6741.4 | 11722.9 | 17495.9 | 17413.7 | 7401.6 | 1682.6 | 1159.8 | 1003.9 | 778.1 |
| 82.5° | 1573.4 | 1651.9 | 2659.5 | 5206.1 | 9878.3 | 10246.4 | 2784.7 | 956.0 | 843.1 | 711.8 | 532.6 |
| 85° | 617.3 | 706.9 | 1216.2 | 2504.9 | 4982.7 | 5019.5 | 1127.9 | 571.9 | 586.6 | 466.4 | 292.1 |
| 87.5° | 234.4 | 284.7 | 581.7 | 1163.4 | 2275.4 | 2090.0 | 403.8 | 272.5 | 333.8 | 277.4 | 138.7 |
| 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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 CATALOG NUMBER: GAN-SA5D-730-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 | 5553.4 |
| 2.5° | 5562.0 | 5587.7 | 5641.7 | 5678.6 | 5717.8 | 5728.9 | 5733.8 | 5743.6 | 5753.4 | 5749.7 | 5751.0 |
| 5° | 5596.3 | 5646.7 | 5733.8 | 5770.6 | 5787.8 | 5768.2 | 5730.1 | 5699.4 | 5677.3 | 5665.1 | 5661.4 |
| 7.5° | 5652.8 | 5724.0 | 5817.2 | 5811.1 | 5771.8 | 5684.7 | 5586.5 | 5512.9 | 5451.5 | 5429.4 | 5417.2 |
| 10° | 5727.7 | 5811.1 | 5876.2 | 5806.2 | 5692.1 | 5541.1 | 5393.8 | 5279.7 | 5187.7 | 5152.1 | 5145.9 |
| 12.5° | 5823.4 | 5908.1 | 5920.3 | 5771.8 | 5582.8 | 5376.7 | 5176.6 | 5025.7 | 4888.2 | 4844.0 | 4834.2 |
| 15° | 5947.3 | 6027.1 | 5951.0 | 5711.7 | 5447.8 | 5170.5 | 4911.5 | 4706.6 | 4561.8 | 4507.8 | 4488.1 |
| 17.5° | 6077.4 | 6153.5 | 5957.2 | 5612.3 | 5271.1 | 4926.2 | 4601.0 | 4391.2 | 4225.5 | 4162.9 | 4155.5 |
| 20° | 6233.3 | 6267.7 | 5931.4 | 5469.9 | 5028.1 | 4609.6 | 4267.2 | 4069.6 | 3981.3 | 3937.1 | 3932.2 |
| 22.5° | 6426.0 | 6389.2 | 5872.5 | 5277.2 | 4720.1 | 4243.9 | 3965.3 | 3873.3 | 3851.2 | 3841.3 | 3845.0 |
| 25° | 6629.7 | 6516.8 | 5785.3 | 5025.7 | 4331.0 | 3878.2 | 3744.4 | 3770.2 | 3799.6 | 3795.9 | 3795.9 |
| 27.5° | 6854.3 | 6646.9 | 5651.6 | 4691.8 | 3900.3 | 3578.7 | 3594.7 | 3689.2 | 3733.3 | 3732.1 | 3730.9 |
| 30° | 7142.7 | 6794.1 | 5481.0 | 4290.5 | 3497.7 | 3367.6 | 3464.6 | 3579.9 | 3640.1 | 3637.6 | 3638.8 |
| 32.5° | 7497.4 | 6956.1 | 5249.0 | 3842.6 | 3206.8 | 3211.8 | 3323.4 | 3437.6 | 3507.5 | 3501.4 | 3502.6 |
| 35° | 7912.2 | 7137.8 | 4934.8 | 3400.8 | 3014.2 | 3087.8 | 3176.2 | 3255.9 | 3322.2 | 3313.6 | 3305.0 |
| 37.5° | 8363.8 | 7315.7 | 4517.6 | 3005.6 | 2857.1 | 2972.4 | 3046.1 | 3059.6 | 3090.3 | 3068.2 | 3052.2 |
| 40° | 8793.4 | 7452.0 | 3980.0 | 2681.6 | 2698.8 | 2874.3 | 2922.1 | 2868.1 | 2812.9 | 2805.5 | 2783.4 |
| 42.5° | 9167.7 | 7497.4 | 3436.3 | 2422.6 | 2531.9 | 2771.2 | 2800.6 | 2687.7 | 2588.3 | 2541.7 | 2522.0 |
| 45° | 9562.9 | 7513.3 | 2929.5 | 2205.4 | 2371.1 | 2679.1 | 2711.0 | 2560.1 | 2420.2 | 2319.5 | 2286.4 |
| 47.5° | 10079.5 | 7628.7 | 2535.5 | 2044.6 | 2248.4 | 2617.8 | 2663.2 | 2458.2 | 2276.6 | 2133.0 | 2102.3 |
| 50° | 10755.8 | 7857.0 | 2215.2 | 1921.9 | 2168.6 | 2577.3 | 2628.8 | 2358.8 | 2158.8 | 1985.7 | 1955.0 |
| 52.5° | 11506.9 | 8066.8 | 1956.3 | 1822.5 | 2091.3 | 2506.1 | 2584.6 | 2287.6 | 2048.3 | 1849.5 | 1816.4 |
| 55° | 12032.1 | 7906.1 | 1747.6 | 1719.4 | 1990.6 | 2404.2 | 2523.3 | 2227.5 | 1890.0 | 1716.9 | 1687.5 |
| 57.5° | 12132.8 | 7356.2 | 1589.3 | 1612.6 | 1869.1 | 2276.6 | 2428.8 | 2093.7 | 1804.1 | 1659.3 | 1628.6 |
| 60° | 11857.9 | 6590.4 | 1471.5 | 1514.4 | 1739.0 | 2115.8 | 2252.0 | 1999.2 | 1721.9 | 1597.9 | 1572.1 |
| 62.5° | 11166.9 | 5806.2 | 1384.4 | 1426.1 | 1617.5 | 1952.6 | 2141.6 | 1899.8 | 1638.4 | 1527.9 | 1502.2 |
| 65° | 9771.5 | 4874.7 | 1300.9 | 1347.5 | 1504.6 | 1811.4 | 2042.2 | 1807.8 | 1556.2 | 1471.5 | 1446.9 |
| 67.5° | 7375.9 | 3651.1 | 1222.4 | 1264.1 | 1404.0 | 1688.7 | 1934.2 | 1716.9 | 1476.4 | 1422.4 | 1392.9 |
| 70° | 4343.3 | 2286.4 | 1132.8 | 1176.9 | 1298.4 | 1561.1 | 1818.8 | 1617.5 | 1377.0 | 1352.4 | 1314.4 |
| 72.5° | 2021.3 | 1375.8 | 1030.9 | 1073.9 | 1165.9 | 1390.5 | 1670.3 | 1487.4 | 1259.2 | 1205.2 | 1153.6 |
| 75° | 1206.4 | 1006.4 | 910.6 | 948.7 | 1013.7 | 1208.9 | 1483.8 | 1354.9 | 1147.5 | 1076.3 | 1022.3 |
| 77.5° | 902.0 | 769.5 | 778.1 | 818.6 | 871.4 | 1057.9 | 1314.4 | 1250.6 | 1061.6 | 1006.4 | 969.5 |
| 80° | 649.2 | 584.2 | 634.5 | 678.7 | 733.9 | 962.2 | 1259.2 | 1156.1 | 959.7 | 886.1 | 851.7 |
| 82.5° | 433.2 | 419.7 | 477.4 | 522.8 | 576.8 | 841.9 | 1183.1 | 1012.5 | 819.8 | 726.5 | 650.5 |
| 85° | 239.3 | 252.8 | 321.5 | 341.2 | 387.8 | 592.8 | 969.5 | 813.7 | 617.3 | 497.0 | 475.0 |
| 87.5° | 99.4 | 116.6 | 173.0 | 166.9 | 206.2 | 353.5 | 638.2 | 490.9 | 392.7 | 293.3 | 228.3 |
| 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)