

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: P318700

Luminaire Tested: **GAN-SA6D-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318700
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-SA6D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 42517 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

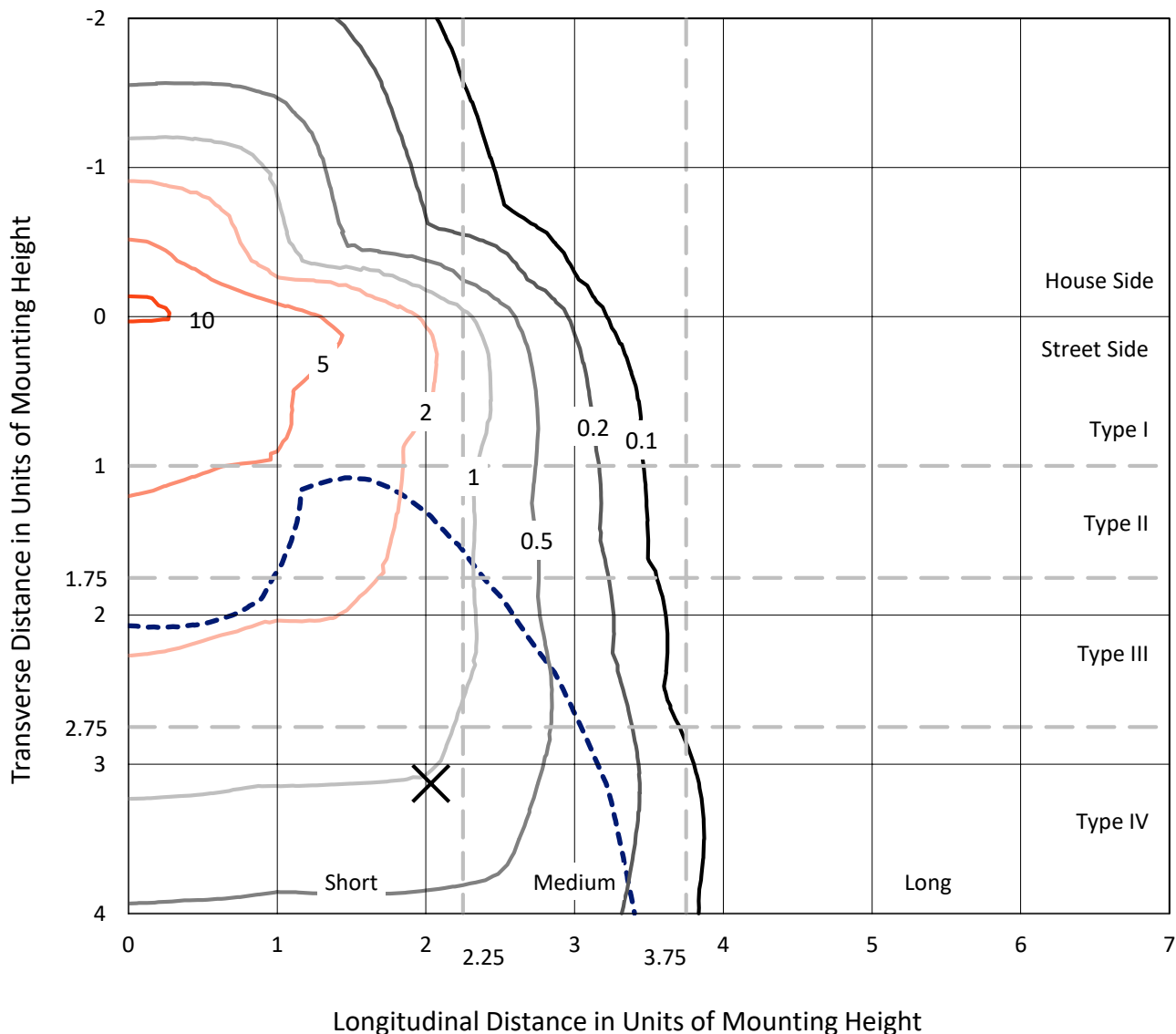
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

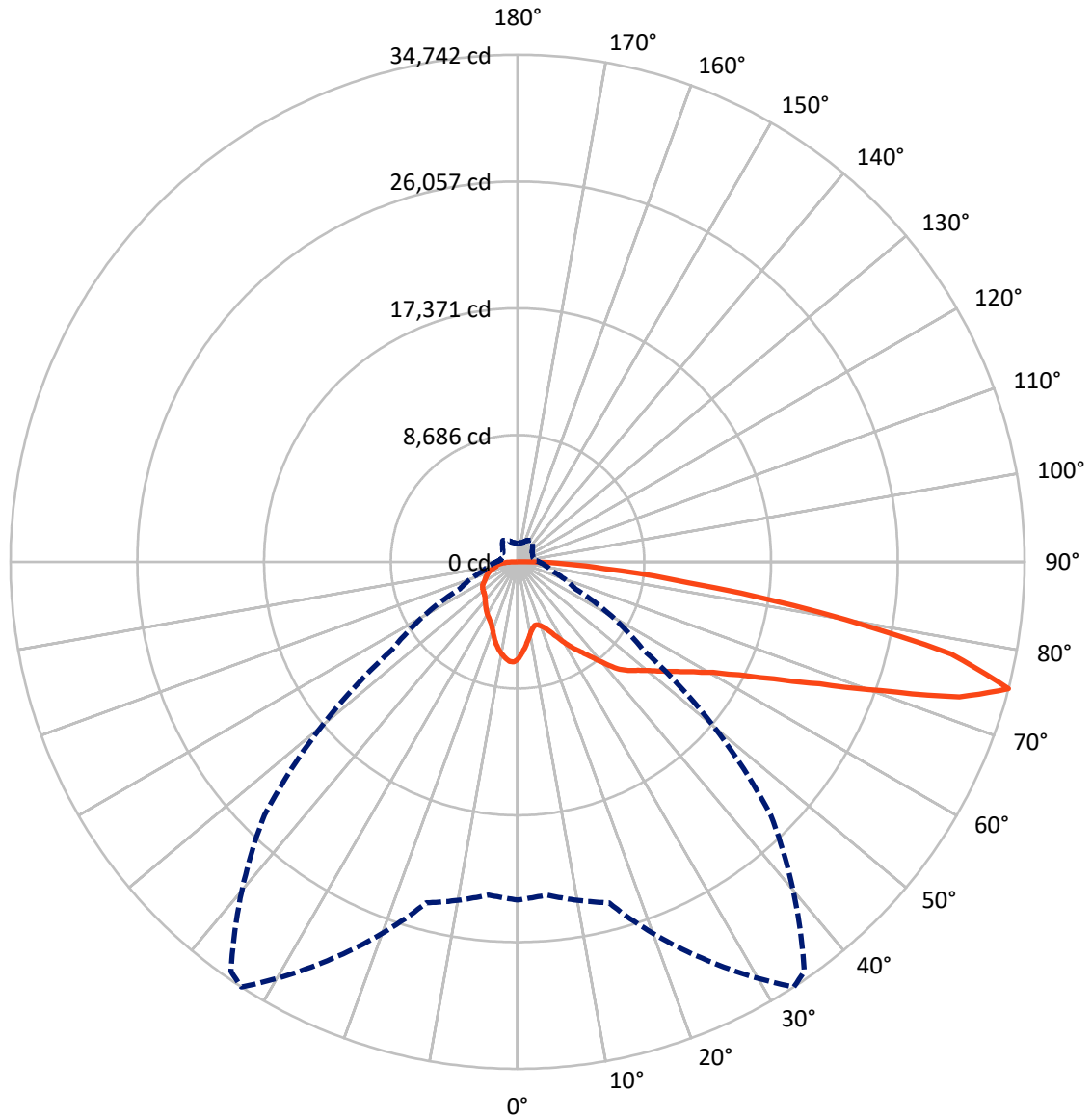
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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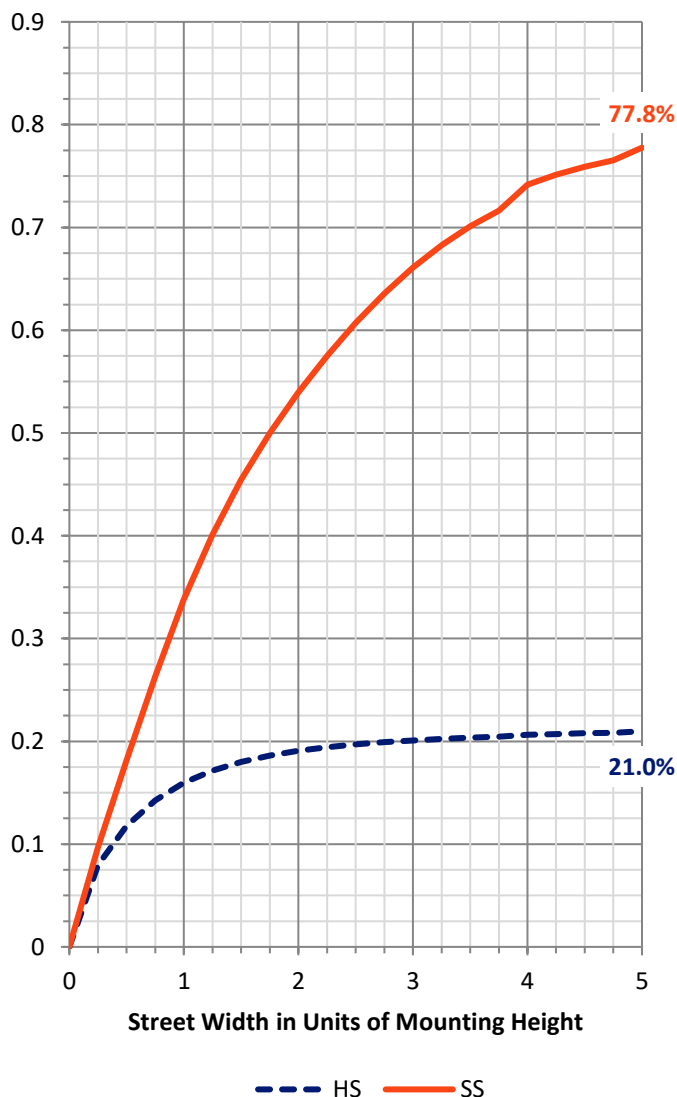
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9129.5 | 0.0 | 9129.5 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 33387.5 | 0.0 | 33387.5 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 42517.0 | 0.0 | 42517.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 601.0 | 1.4 |
| 10°-20° | 1627.8 | 3.8 |
| 20°-30° | 2658.4 | 6.3 |
| 30°-40° | 3959.0 | 9.3 |
| 40°-50° | 5678.3 | 13.4 |
| 50°-60° | 7795.5 | 18.3 |
| 60°-70° | 9759.6 | 23.0 |
| 70°-80° | 8829.0 | 20.8 |
| 80°-90° | 1608.3 | 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° | 42517.0 | 100.0 |
| 0°-180° | 42517.0 | 100.0 |

Coefficient of Utilization

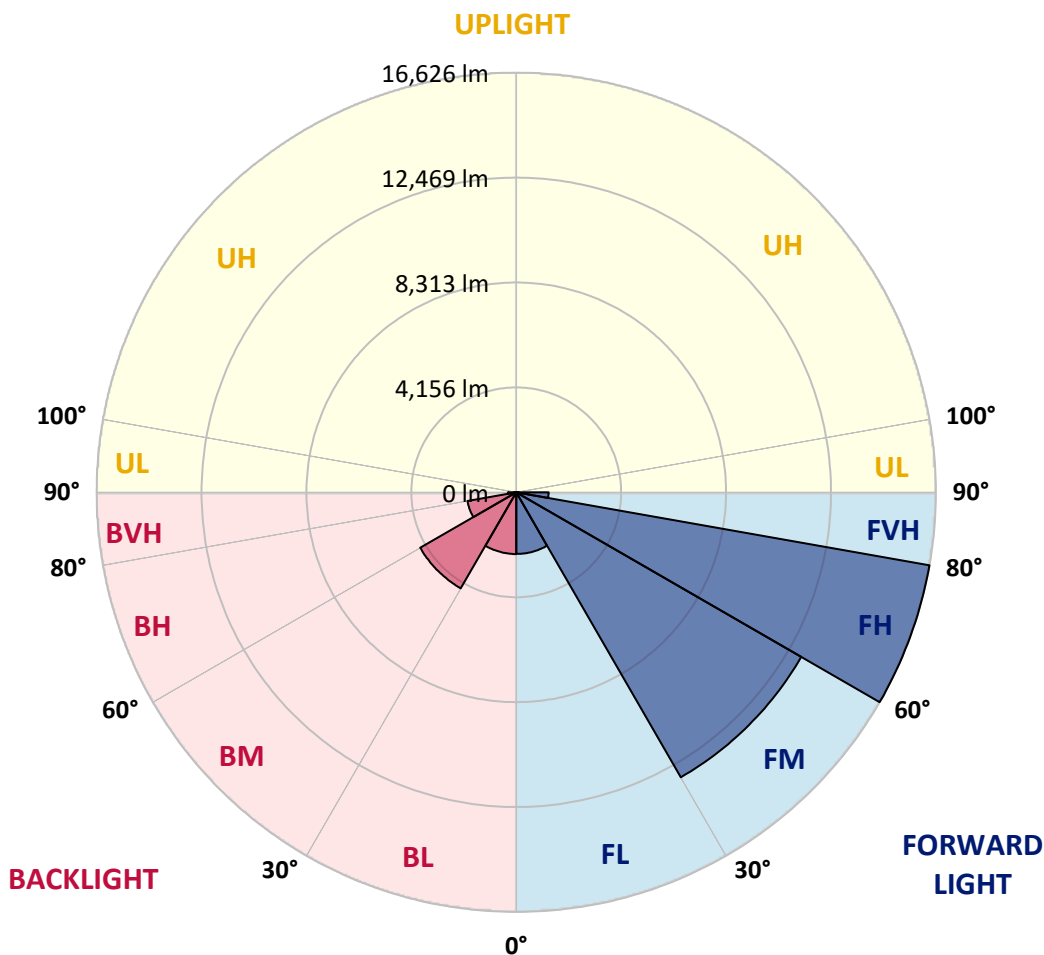


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2441.9 | 5.7 | | | |
| FM (30°-60°) | 13039.1 | 30.7 | | | |
| FH (60°-80°) | 16625.6 | 39.1 | | | G5 |
| FVH (80°-90°) | 1280.8 | 3.0 | | | G5 |
| BL (0°-30°) | 2445.3 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4393.8 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 1963.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 327.4 | 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° | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 |
| 2.5° | 6171.3 | 6147.8 | 6191.8 | 6197.7 | 6235.9 | 6250.6 | 6303.4 | 6385.7 | 6453.3 | 6531.1 | 6601.6 |
| 5° | 5611.7 | 5595.6 | 5657.2 | 5701.3 | 5785.0 | 5820.3 | 5945.1 | 6119.9 | 6275.5 | 6451.8 | 6611.9 |
| 7.5° | 5080.1 | 5071.3 | 5140.3 | 5240.1 | 5337.1 | 5385.5 | 5601.4 | 5855.5 | 6115.5 | 6400.4 | 6645.6 |
| 10° | 4632.1 | 4629.2 | 4695.3 | 4793.7 | 4936.1 | 4990.5 | 5269.5 | 5604.4 | 5968.6 | 6360.7 | 6702.9 |
| 12.5° | 4381.0 | 4391.3 | 4422.1 | 4504.4 | 4636.5 | 4690.9 | 5000.8 | 5394.4 | 5845.2 | 6347.5 | 6786.6 |
| 15° | 4442.7 | 4458.8 | 4406.0 | 4403.0 | 4497.0 | 4539.6 | 4830.4 | 5244.6 | 5757.1 | 6369.5 | 6908.5 |
| 17.5° | 4705.6 | 4708.5 | 4569.0 | 4480.9 | 4538.1 | 4560.2 | 4777.5 | 5159.4 | 5705.7 | 6419.5 | 7061.3 |
| 20° | 5075.7 | 5068.3 | 4821.6 | 4674.7 | 4705.6 | 4711.4 | 4852.4 | 5160.8 | 5701.3 | 6506.1 | 7259.5 |
| 22.5° | 5566.2 | 5511.8 | 5179.9 | 4980.2 | 4972.9 | 4964.0 | 5044.8 | 5269.5 | 5765.9 | 6647.1 | 7496.0 |
| 25° | 6206.5 | 6155.1 | 5698.4 | 5425.2 | 5366.5 | 5344.4 | 5356.2 | 5501.6 | 5893.7 | 6798.4 | 7760.4 |
| 27.5° | 6918.8 | 6829.2 | 6388.6 | 6002.4 | 5880.5 | 5849.6 | 5779.1 | 5829.1 | 6033.2 | 6943.8 | 8074.6 |
| 30° | 7515.1 | 7466.6 | 7081.8 | 6623.6 | 6479.7 | 6435.6 | 6250.6 | 6196.2 | 6234.4 | 7142.0 | 8471.2 |
| 32.5° | 7848.5 | 7816.2 | 7582.6 | 7212.5 | 7078.9 | 7017.2 | 6755.8 | 6647.1 | 6557.5 | 7454.9 | 9008.7 |
| 35° | 8252.3 | 8231.8 | 8090.8 | 7822.0 | 7623.8 | 7559.1 | 7356.5 | 7243.4 | 7012.8 | 7885.2 | 9703.4 |
| 37.5° | 8766.4 | 8744.3 | 8747.3 | 8529.9 | 8293.5 | 8233.3 | 8099.6 | 7980.6 | 7603.2 | 8450.6 | 10458.3 |
| 40° | 9348.0 | 9305.4 | 9289.2 | 9278.9 | 9129.1 | 9095.4 | 9024.9 | 8863.3 | 8343.4 | 9126.2 | 11202.9 |
| 42.5° | 10223.3 | 10072.0 | 9748.9 | 9870.8 | 10019.1 | 10001.5 | 10058.8 | 9826.7 | 9165.9 | 9925.1 | 11929.9 |
| 45° | 11067.8 | 10819.6 | 10261.5 | 10287.9 | 10612.5 | 10710.9 | 11139.7 | 10975.2 | 10057.3 | 10800.5 | 12681.8 |
| 47.5° | 11452.5 | 11264.6 | 10790.2 | 10791.6 | 11113.3 | 11317.4 | 12257.4 | 12139.9 | 10994.3 | 11794.7 | 13599.7 |
| 50° | 11882.9 | 11694.9 | 11269.0 | 11429.0 | 11709.6 | 11926.9 | 13336.8 | 13276.6 | 11885.8 | 12883.0 | 14699.7 |
| 52.5° | 12352.8 | 12034.1 | 11763.9 | 12050.3 | 12443.9 | 12696.5 | 14417.7 | 14253.3 | 12703.8 | 13978.6 | 15964.2 |
| 55° | 12358.7 | 12272.0 | 12477.7 | 12687.7 | 13276.6 | 13586.5 | 15550.1 | 15115.4 | 13370.6 | 15055.1 | 16993.8 |
| 57.5° | 13062.2 | 12921.2 | 13357.4 | 13454.3 | 14223.9 | 14573.4 | 16676.5 | 15865.8 | 14049.1 | 15880.5 | 17548.9 |
| 60° | 13993.3 | 13872.9 | 14229.8 | 14485.3 | 15395.9 | 15862.9 | 17879.4 | 16636.9 | 14582.2 | 16503.2 | 17522.5 |
| 62.5° | 15601.5 | 15464.9 | 15460.5 | 15818.8 | 17045.2 | 17588.6 | 19229.0 | 17393.2 | 14793.7 | 16626.6 | 16774.9 |
| 65° | 17955.7 | 17738.4 | 17328.6 | 17499.0 | 19323.0 | 19865.0 | 20737.4 | 17941.0 | 14514.7 | 15965.7 | 14849.5 |
| 67.5° | 20246.8 | 20239.5 | 19735.7 | 20085.3 | 22330.8 | 22765.6 | 22455.7 | 17995.4 | 13643.8 | 13664.3 | 11433.4 |
| 70° | 22530.6 | 22559.9 | 22474.8 | 23690.8 | 26394.6 | 26846.9 | 24285.6 | 17265.5 | 11686.1 | 9867.9 | 6849.8 |
| 72.5° | 24340.0 | 24332.6 | 24761.5 | 27897.0 | 31668.5 | 31567.2 | 25827.7 | 15053.7 | 8390.4 | 5326.8 | 3273.6 |
| 75° | 23168.0 | 22912.4 | 24190.1 | 29979.6 | 34742.4 | 34247.5 | 24516.2 | 10500.9 | 4354.6 | 2424.7 | 1762.4 |
| 77.5° | 15110.9 | 15353.3 | 17228.7 | 24765.9 | 30389.3 | 29787.2 | 17986.6 | 4899.4 | 2051.7 | 1590.5 | 1277.7 |
| 80° | 5472.2 | 5727.7 | 8067.3 | 14028.6 | 20937.1 | 20838.7 | 8857.4 | 2013.5 | 1387.9 | 1201.4 | 931.1 |
| 82.5° | 1882.8 | 1976.8 | 3182.6 | 6230.0 | 11821.2 | 12261.8 | 3332.4 | 1144.1 | 1009.0 | 851.8 | 637.4 |
| 85° | 738.7 | 845.9 | 1455.4 | 2997.5 | 5962.7 | 6006.8 | 1349.7 | 684.4 | 702.0 | 558.1 | 349.5 |
| 87.5° | 280.5 | 340.7 | 696.1 | 1392.3 | 2722.9 | 2501.1 | 483.2 | 326.0 | 399.5 | 331.9 | 166.0 |
| 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-SA6D-730-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 | 6645.6 |
| 2.5° | 6655.9 | 6686.8 | 6751.4 | 6795.4 | 6842.4 | 6855.7 | 6861.5 | 6873.3 | 6885.0 | 6880.6 | 6882.1 |
| 5° | 6697.0 | 6757.3 | 6861.5 | 6905.6 | 6926.2 | 6902.7 | 6857.1 | 6820.4 | 6794.0 | 6779.3 | 6774.9 |
| 7.5° | 6764.6 | 6849.8 | 6961.4 | 6954.1 | 6907.1 | 6802.8 | 6685.3 | 6597.2 | 6523.7 | 6497.3 | 6482.6 |
| 10° | 6854.2 | 6954.1 | 7031.9 | 6948.2 | 6811.6 | 6631.0 | 6454.7 | 6318.1 | 6208.0 | 6165.4 | 6158.1 |
| 12.5° | 6968.7 | 7070.1 | 7084.8 | 6907.1 | 6680.9 | 6434.2 | 6194.8 | 6014.1 | 5849.6 | 5796.8 | 5785.0 |
| 15° | 7117.1 | 7212.5 | 7121.5 | 6835.1 | 6519.3 | 6187.4 | 5877.5 | 5632.3 | 5459.0 | 5394.4 | 5370.9 |
| 17.5° | 7272.8 | 7363.8 | 7128.8 | 6716.1 | 6307.9 | 5895.2 | 5506.0 | 5254.8 | 5056.6 | 4981.7 | 4972.9 |
| 20° | 7459.3 | 7500.4 | 7098.0 | 6545.8 | 6017.1 | 5516.3 | 5106.5 | 4870.0 | 4764.3 | 4711.4 | 4705.6 |
| 22.5° | 7689.9 | 7645.8 | 7027.5 | 6315.2 | 5648.4 | 5078.6 | 4745.2 | 4635.1 | 4608.6 | 4596.9 | 4601.3 |
| 25° | 7933.7 | 7798.5 | 6923.2 | 6014.1 | 5182.9 | 4640.9 | 4480.9 | 4511.7 | 4546.9 | 4542.5 | 4542.5 |
| 27.5° | 8202.4 | 7954.2 | 6763.1 | 5614.7 | 4667.4 | 4282.6 | 4301.7 | 4414.8 | 4467.6 | 4466.2 | 4464.7 |
| 30° | 8547.5 | 8130.5 | 6559.0 | 5134.4 | 4185.7 | 4030.0 | 4146.0 | 4284.1 | 4356.0 | 4353.1 | 4354.6 |
| 32.5° | 8972.0 | 8324.3 | 6281.4 | 4598.3 | 3837.6 | 3843.5 | 3977.1 | 4113.7 | 4197.4 | 4190.1 | 4191.5 |
| 35° | 9468.4 | 8541.7 | 5905.4 | 4069.6 | 3607.0 | 3695.1 | 3800.9 | 3896.3 | 3975.6 | 3965.4 | 3955.1 |
| 37.5° | 10008.9 | 8754.6 | 5406.1 | 3596.7 | 3419.0 | 3557.1 | 3645.2 | 3661.3 | 3698.1 | 3671.6 | 3652.5 |
| 40° | 10522.9 | 8917.6 | 4762.8 | 3209.0 | 3229.6 | 3439.6 | 3496.9 | 3432.2 | 3366.1 | 3357.3 | 3330.9 |
| 42.5° | 10970.8 | 8972.0 | 4112.2 | 2899.1 | 3029.8 | 3316.2 | 3351.5 | 3216.3 | 3097.4 | 3041.6 | 3018.1 |
| 45° | 11443.7 | 8991.1 | 3505.7 | 2639.2 | 2837.4 | 3206.1 | 3244.2 | 3063.6 | 2896.2 | 2775.8 | 2736.1 |
| 47.5° | 12062.0 | 9129.1 | 3034.2 | 2446.8 | 2690.6 | 3132.6 | 3187.0 | 2941.7 | 2724.3 | 2552.5 | 2515.8 |
| 50° | 12871.3 | 9402.3 | 2650.9 | 2299.9 | 2595.1 | 3084.2 | 3145.9 | 2822.7 | 2583.4 | 2376.3 | 2339.6 |
| 52.5° | 13770.1 | 9653.4 | 2341.0 | 2180.9 | 2502.6 | 2999.0 | 3093.0 | 2737.6 | 2451.2 | 2213.3 | 2173.6 |
| 55° | 14398.7 | 9461.0 | 2091.4 | 2057.6 | 2382.2 | 2877.1 | 3019.5 | 2665.6 | 2261.7 | 2054.6 | 2019.4 |
| 57.5° | 14519.1 | 8803.1 | 1901.9 | 1929.8 | 2236.8 | 2724.3 | 2906.5 | 2505.5 | 2158.9 | 1985.6 | 1948.9 |
| 60° | 14190.1 | 7886.7 | 1760.9 | 1812.3 | 2081.1 | 2532.0 | 2695.0 | 2392.4 | 2060.5 | 1912.2 | 1881.3 |
| 62.5° | 13363.3 | 6948.2 | 1656.6 | 1706.6 | 1935.7 | 2336.6 | 2562.8 | 2273.5 | 1960.6 | 1828.5 | 1797.6 |
| 65° | 11693.4 | 5833.5 | 1556.8 | 1612.6 | 1800.6 | 2167.7 | 2443.8 | 2163.3 | 1862.2 | 1760.9 | 1731.5 |
| 67.5° | 8826.6 | 4369.2 | 1462.8 | 1512.7 | 1680.1 | 2020.9 | 2314.6 | 2054.6 | 1766.8 | 1702.2 | 1666.9 |
| 70° | 5197.6 | 2736.1 | 1355.6 | 1408.4 | 1553.8 | 1868.1 | 2176.5 | 1935.7 | 1647.8 | 1618.5 | 1572.9 |
| 72.5° | 2418.9 | 1646.4 | 1233.7 | 1285.1 | 1395.2 | 1664.0 | 1998.8 | 1780.0 | 1506.8 | 1442.2 | 1380.5 |
| 75° | 1443.7 | 1204.3 | 1089.7 | 1135.3 | 1213.1 | 1446.6 | 1775.6 | 1621.4 | 1373.2 | 1288.0 | 1223.4 |
| 77.5° | 1079.5 | 920.8 | 931.1 | 979.6 | 1042.7 | 1266.0 | 1572.9 | 1496.6 | 1270.4 | 1204.3 | 1160.2 |
| 80° | 776.9 | 699.1 | 759.3 | 812.2 | 878.3 | 1151.4 | 1506.8 | 1383.5 | 1148.5 | 1060.4 | 1019.2 |
| 82.5° | 518.4 | 502.3 | 571.3 | 625.6 | 690.3 | 1007.5 | 1415.8 | 1211.6 | 981.1 | 869.4 | 778.4 |
| 85° | 286.4 | 302.5 | 384.8 | 408.3 | 464.1 | 709.4 | 1160.2 | 973.7 | 738.7 | 594.8 | 568.4 |
| 87.5° | 119.0 | 139.5 | 207.1 | 199.7 | 246.7 | 423.0 | 763.7 | 587.5 | 470.0 | 351.0 | 273.2 |
| 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)