

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: P319220

Luminaire Tested: **GAN-SA6D-830-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-830-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36619 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

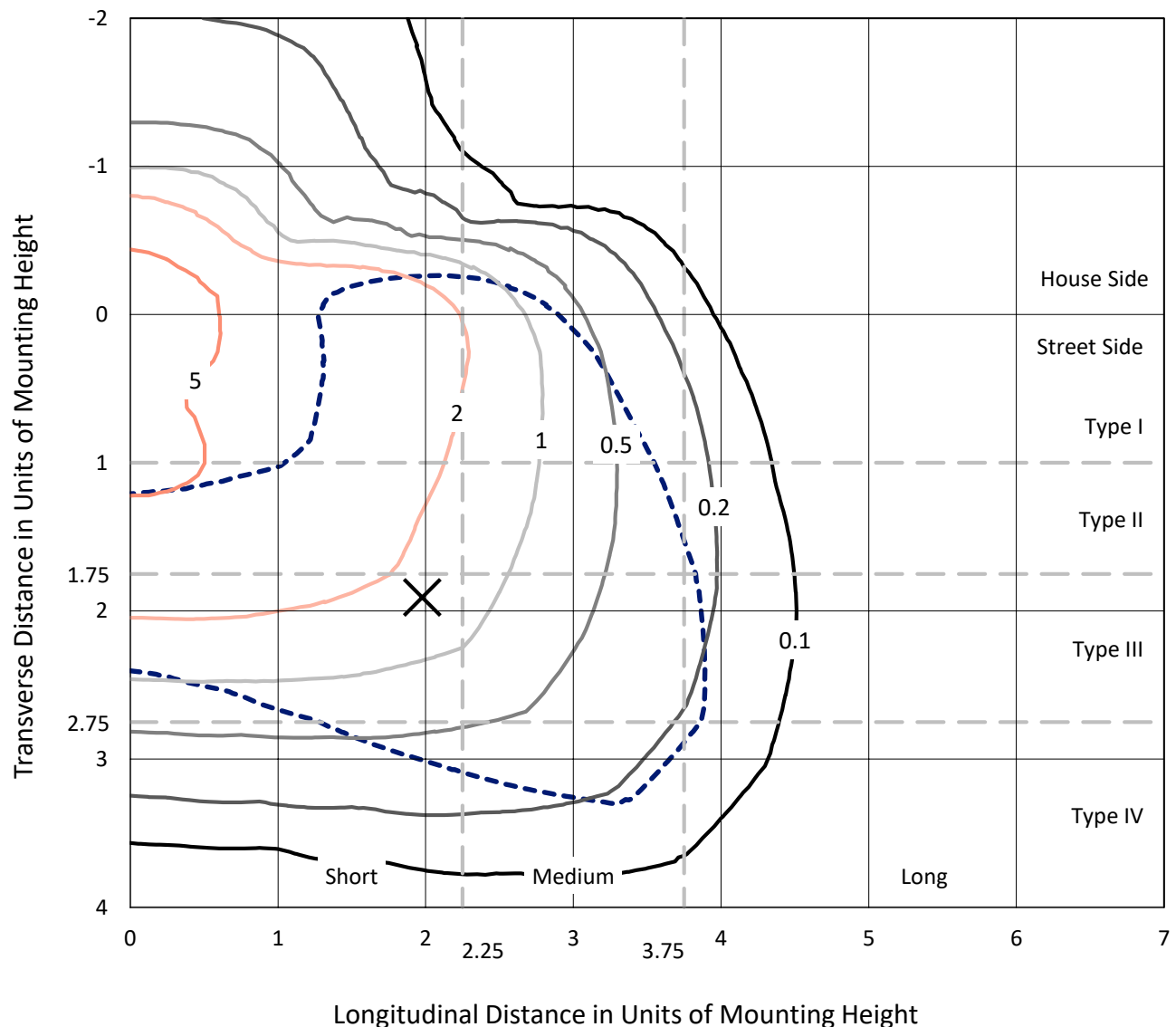
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P319220  
 CATALOG NUMBER: GAN-SA6D-830-U-T4W

## Iso-Footcandle Lines of Horizontal Illumination

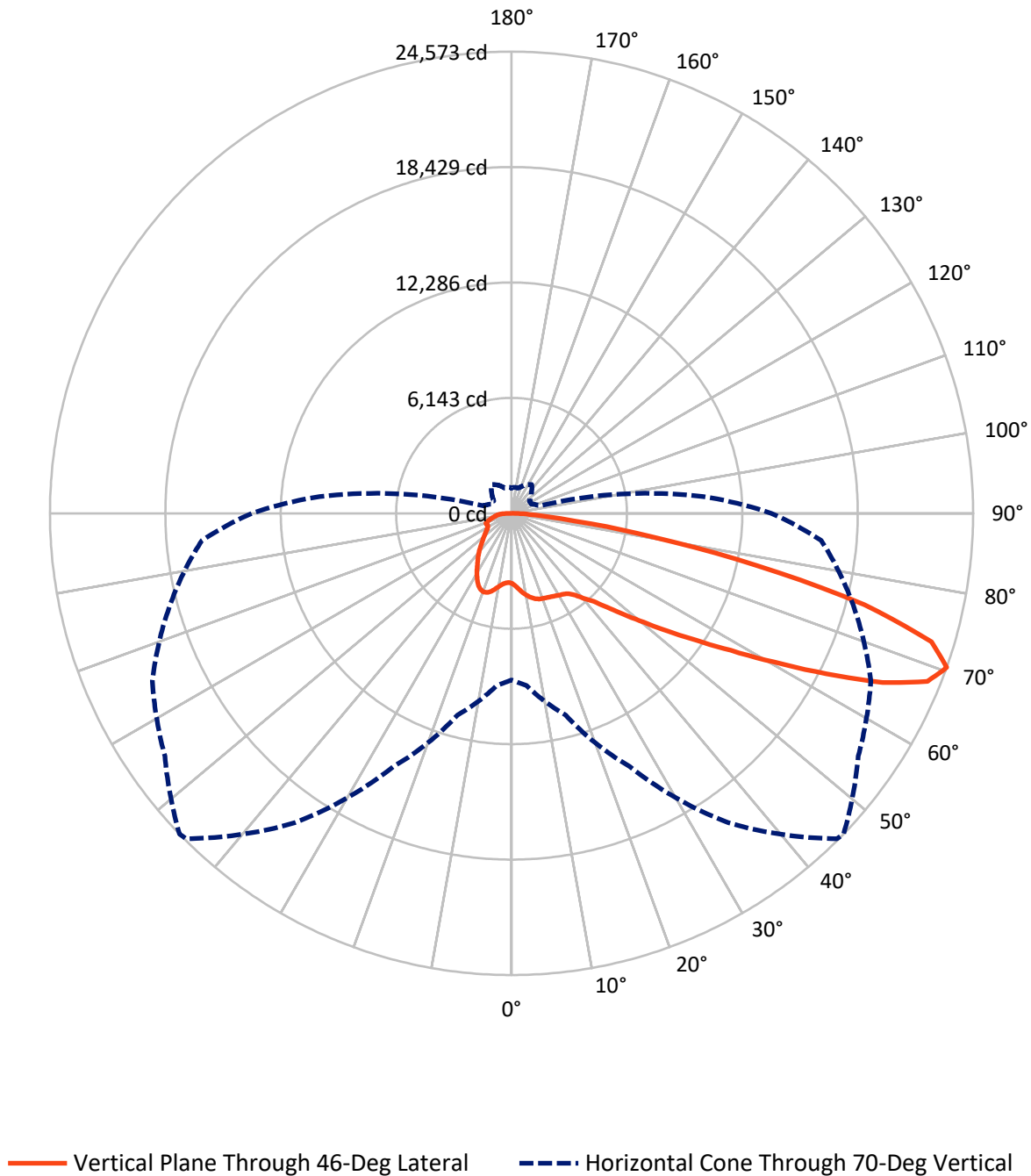
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P319220  
CATALOG NUMBER: GAN-SA6D-830-U-T4W

## Luminous Intensity Polar Plot



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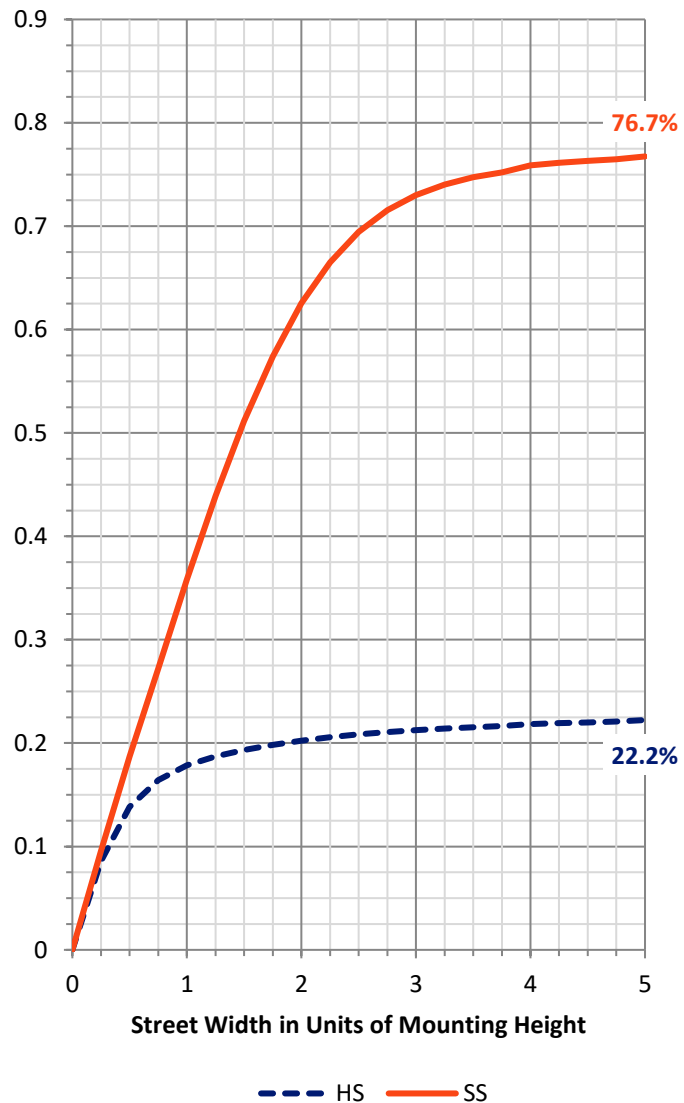
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8393.0   | 0.0    | 8393.0  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 28226.0  | 0.0    | 28226.0 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 36619.0  | 0.0    | 36619.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 380.3   | 1.0       |
| 10°-20°   | 1267.1  | 3.5       |
| 20°-30°   | 2112.8  | 5.8       |
| 30°-40°   | 2998.2  | 8.2       |
| 40°-50°   | 4410.1  | 12.0      |
| 50°-60°   | 7468.6  | 20.4      |
| 60°-70°   | 10601.5 | 29.0      |
| 70°-80°   | 6440.5  | 17.6      |
| 80°-90°   | 939.9   | 2.6       |
| 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°    | 36619.0 | 100.0     |
| 0°-180°   | 36619.0 | 100.0     |

**Coefficient of Utilization**



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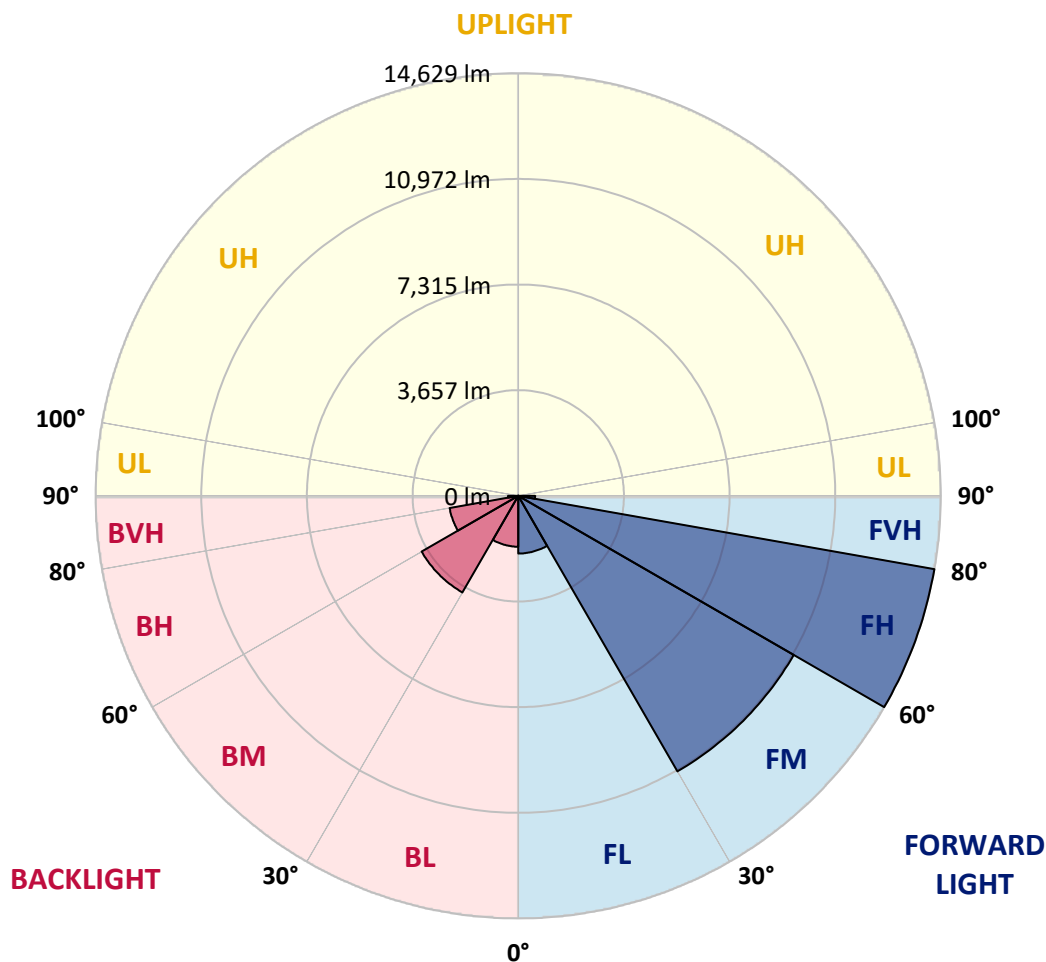
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1998.1  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 11013.4 | 30.1      |                         |      |         |
| FH   | (60°-80°)   | 14629.1 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 585.5   | 1.6       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1762.1  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3863.5  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2412.9  | 6.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 354.4   | 1.0       |                         |      | 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: P319220

CATALOG NUMBER: GAN-SA6D-830-U-T4W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3730.8  | 3730.8  | 3730.8  | 3730.8  | 3730.8  | 3730.8  | 3730.8  | 3730.8  | 3730.8  | 3730.8  | 3730.8  |
| 2.5°  | 3917.5  | 3920.0  | 3925.0  | 3912.5  | 3877.4  | 3867.4  | 3863.6  | 3827.3  | 3803.4  | 3768.4  | 3738.3  |
| 5°    | 4230.8  | 4233.3  | 4225.8  | 4190.7  | 4113.0  | 4055.3  | 4050.3  | 3967.6  | 3892.4  | 3812.2  | 3752.1  |
| 7.5°  | 4557.9  | 4561.6  | 4537.8  | 4471.4  | 4362.4  | 4262.1  | 4255.8  | 4143.1  | 4029.0  | 3907.5  | 3817.2  |
| 10°   | 4847.4  | 4832.3  | 4793.5  | 4700.7  | 4571.7  | 4448.8  | 4443.8  | 4326.0  | 4194.4  | 4047.8  | 3927.5  |
| 12.5° | 5040.3  | 5027.8  | 4977.7  | 4864.9  | 4723.3  | 4610.5  | 4600.5  | 4491.4  | 4363.6  | 4203.2  | 4059.1  |
| 15°   | 5146.9  | 5155.6  | 5088.0  | 4960.1  | 4822.3  | 4727.0  | 4718.3  | 4640.6  | 4526.5  | 4364.9  | 4199.5  |
| 17.5° | 5160.7  | 5168.2  | 5103.0  | 4976.4  | 4863.6  | 4798.5  | 4794.7  | 4743.3  | 4660.6  | 4505.2  | 4332.3  |
| 20°   | 5080.4  | 5085.5  | 5031.6  | 4927.6  | 4853.6  | 4833.6  | 4832.3  | 4809.8  | 4748.4  | 4610.5  | 4442.6  |
| 22.5° | 4963.9  | 4967.7  | 4928.8  | 4853.6  | 4828.6  | 4859.9  | 4868.7  | 4859.9  | 4816.0  | 4686.9  | 4529.0  |
| 25°   | 4935.1  | 4932.6  | 4892.5  | 4816.0  | 4837.3  | 4903.7  | 4915.0  | 4918.8  | 4888.7  | 4775.9  | 4639.3  |
| 27.5° | 5074.2  | 5065.4  | 4989.0  | 4866.2  | 4879.9  | 4960.1  | 4975.2  | 5011.5  | 4992.7  | 4893.7  | 4764.6  |
| 30°   | 5476.5  | 5461.4  | 5304.8  | 5056.6  | 4989.0  | 5030.3  | 5049.1  | 5106.8  | 5110.5  | 5027.8  | 4931.3  |
| 32.5° | 6155.7  | 6136.9  | 5856.2  | 5412.5  | 5173.2  | 5101.8  | 5119.3  | 5205.8  | 5252.1  | 5188.2  | 5084.2  |
| 35°   | 7014.1  | 6992.8  | 6624.4  | 6017.8  | 5481.5  | 5238.4  | 5250.9  | 5319.8  | 5412.5  | 5322.3  | 5184.5  |
| 37.5° | 7908.9  | 7857.5  | 7502.9  | 6729.7  | 5971.5  | 5530.3  | 5530.3  | 5539.1  | 5583.0  | 5395.0  | 5302.3  |
| 40°   | 8798.7  | 8747.3  | 8426.5  | 7566.8  | 6605.6  | 5990.3  | 5961.4  | 5767.2  | 5732.1  | 5570.4  | 5539.1  |
| 42.5° | 9625.8  | 9610.7  | 9421.5  | 8512.9  | 7350.0  | 6442.7  | 6402.6  | 6073.0  | 6080.5  | 5980.2  | 5981.5  |
| 45°   | 10505.5 | 10505.5 | 10351.4 | 9467.9  | 8217.2  | 7169.5  | 7129.4  | 6644.4  | 6719.6  | 6673.3  | 6784.8  |
| 47.5° | 11223.6 | 11246.2 | 11224.9 | 10462.9 | 9226.0  | 8093.1  | 8020.4  | 7436.5  | 7647.0  | 7806.1  | 8130.7  |
| 50°   | 11956.7 | 11991.8 | 11995.6 | 11554.5 | 10445.4 | 9190.9  | 9108.2  | 8487.9  | 8957.8  | 9414.0  | 10051.9 |
| 52.5° | 13020.7 | 13099.6 | 12785.1 | 12643.5 | 11939.2 | 10494.2 | 10412.8 | 9840.1  | 10624.6 | 11265.0 | 12364.0 |
| 55°   | 14007.0 | 13938.0 | 13713.7 | 13801.4 | 13538.3 | 11978.0 | 11916.6 | 11414.1 | 12481.8 | 13313.9 | 14741.3 |
| 57.5° | 14540.8 | 14535.8 | 14761.4 | 15137.3 | 15262.7 | 13807.7 | 13756.3 | 13267.6 | 14575.9 | 15201.2 | 16973.3 |
| 60°   | 15167.4 | 15176.2 | 15735.1 | 16588.5 | 17104.8 | 16086.0 | 16063.4 | 15692.5 | 16609.8 | 16963.2 | 18724.0 |
| 62.5° | 15255.1 | 15413.0 | 16375.5 | 17844.2 | 18829.2 | 18747.8 | 18797.9 | 17876.8 | 18429.5 | 18369.3 | 20031.1 |
| 65°   | 14246.3 | 14454.3 | 16196.3 | 18224.0 | 20543.6 | 21659.0 | 21705.3 | 20073.7 | 19864.4 | 19571.1 | 20498.5 |
| 67.5° | 12178.5 | 12486.8 | 14379.2 | 17398.1 | 21108.8 | 23810.7 | 23875.9 | 21776.8 | 21054.9 | 19978.4 | 19373.1 |
| 70°   | 8862.6  | 9204.7  | 11109.6 | 14859.1 | 20101.2 | 24498.7 | 24572.6 | 22529.9 | 21100.0 | 18819.2 | 16538.4 |
| 72.5° | 5353.6  | 5621.8  | 7192.1  | 10939.1 | 16965.7 | 23245.5 | 23377.1 | 21575.0 | 19264.1 | 15940.6 | 12212.4 |
| 75°   | 2351.0  | 2526.4  | 3477.6  | 6303.6  | 12146.0 | 19232.8 | 19396.9 | 18467.1 | 15652.4 | 11584.5 | 7218.4  |
| 77.5° | 1001.3  | 1051.4  | 1426.1  | 2738.2  | 6866.3  | 13142.2 | 13367.8 | 13493.1 | 10619.6 | 6303.6  | 3050.3  |
| 80°   | 624.1   | 644.1   | 807.1   | 1239.4  | 3213.2  | 7381.3  | 7624.4  | 7939.0  | 5273.4  | 2317.2  | 1065.2  |
| 82.5° | 379.7   | 402.3   | 536.4   | 749.4   | 1673.0  | 3346.0  | 3462.6  | 3684.4  | 2046.5  | 1001.3  | 551.4   |
| 85°   | 228.1   | 244.4   | 328.3   | 473.7   | 952.4   | 1315.9  | 1314.6  | 1453.7  | 963.7   | 644.1   | 290.7   |
| 87.5° | 109.0   | 121.6   | 175.4   | 245.6   | 480.0   | 493.8   | 462.4   | 523.8   | 585.2   | 422.3   | 146.6   |
| 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: P319220

CATALOG NUMBER: GAN-SA6D-830-U-T4W

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3730.8  | 3730.8  | 3730.8 | 3730.8 | 3730.8 | 3730.8 | 3730.8 | 3730.8 | 3730.8 | 3730.8 | 3730.8 |
| 2.5°  | 3728.3  | 3723.2  | 3706.9 | 3694.4 | 3691.9 | 3684.4 | 3678.1 | 3681.9 | 3686.9 | 3688.2 | 3688.2 |
| 5°    | 3727.0  | 3713.2  | 3691.9 | 3683.1 | 3694.4 | 3709.5 | 3728.3 | 3753.3 | 3768.4 | 3779.6 | 3787.2 |
| 7.5°  | 3787.2  | 3760.8  | 3737.0 | 3732.0 | 3754.6 | 3794.7 | 3837.3 | 3889.9 | 3926.3 | 3951.3 | 3956.3 |
| 10°   | 3887.4  | 3854.8  | 3831.0 | 3836.0 | 3876.1 | 3933.8 | 3993.9 | 4061.6 | 4116.7 | 4150.6 | 4153.1 |
| 12.5° | 4002.7  | 3971.4  | 3948.8 | 3970.1 | 4036.5 | 4106.7 | 4169.4 | 4228.3 | 4278.4 | 4312.2 | 4312.2 |
| 15°   | 4135.5  | 4113.0  | 4086.7 | 4135.5 | 4225.8 | 4288.4 | 4314.7 | 4343.6 | 4371.1 | 4396.2 | 4391.2 |
| 17.5° | 4263.4  | 4242.1  | 4228.3 | 4285.9 | 4379.9 | 4408.7 | 4391.2 | 4369.9 | 4369.9 | 4383.7 | 4386.2 |
| 20°   | 4373.6  | 4354.9  | 4363.6 | 4420.0 | 4468.9 | 4438.8 | 4373.6 | 4306.0 | 4278.4 | 4285.9 | 4293.4 |
| 22.5° | 4470.1  | 4461.4  | 4487.7 | 4514.0 | 4478.9 | 4373.6 | 4253.3 | 4161.9 | 4128.0 | 4125.5 | 4128.0 |
| 25°   | 4582.9  | 4581.7  | 4614.3 | 4566.6 | 4411.2 | 4217.0 | 4055.3 | 3966.4 | 3947.6 | 3962.6 | 3987.7 |
| 27.5° | 4723.3  | 4737.1  | 4753.4 | 4579.2 | 4273.4 | 3980.1 | 3816.0 | 3754.6 | 3773.4 | 3809.7 | 3833.5 |
| 30°   | 4902.5  | 4940.1  | 4905.0 | 4547.8 | 4075.4 | 3709.5 | 3552.8 | 3535.3 | 3586.6 | 3638.0 | 3663.1 |
| 32.5° | 5076.7  | 5135.6  | 5050.4 | 4466.4 | 3819.7 | 3422.5 | 3300.9 | 3295.9 | 3358.6 | 3408.7 | 3443.8 |
| 35°   | 5217.0  | 5333.6  | 5159.4 | 4304.7 | 3524.0 | 3158.0 | 3069.1 | 3035.2 | 3057.8 | 3116.7 | 3156.8 |
| 37.5° | 5400.0  | 5594.3  | 5234.6 | 4057.8 | 3203.2 | 2940.0 | 2836.0 | 2758.3 | 2738.2 | 2762.0 | 2782.1 |
| 40°   | 5734.6  | 5991.5  | 5269.7 | 3713.2 | 2889.9 | 2721.9 | 2616.7 | 2502.6 | 2423.7 | 2366.0 | 2367.3 |
| 42.5° | 6281.0  | 6509.1  | 5247.1 | 3294.6 | 2600.4 | 2508.9 | 2389.8 | 2258.3 | 2130.4 | 2000.1 | 1990.1 |
| 45°   | 7168.3  | 7278.6  | 5179.5 | 2851.0 | 2346.0 | 2285.8 | 2174.3 | 2042.7 | 1872.3 | 1724.4 | 1710.6 |
| 47.5° | 8588.1  | 8343.8  | 5074.2 | 2463.8 | 2121.7 | 2096.6 | 1993.8 | 1842.2 | 1661.7 | 1542.7 | 1532.7 |
| 50°   | 10524.3 | 9881.4  | 5022.8 | 2155.5 | 1923.7 | 1931.2 | 1847.2 | 1686.8 | 1516.4 | 1428.6 | 1418.6 |
| 52.5° | 12840.2 | 11672.3 | 5121.8 | 1917.4 | 1764.5 | 1790.8 | 1728.2 | 1577.8 | 1434.9 | 1366.0 | 1356.0 |
| 55°   | 15242.6 | 13527.0 | 5228.3 | 1744.4 | 1614.1 | 1665.5 | 1644.2 | 1520.1 | 1391.0 | 1327.1 | 1318.4 |
| 57.5° | 17299.1 | 14911.8 | 5015.3 | 1604.1 | 1480.0 | 1560.2 | 1579.0 | 1483.8 | 1368.5 | 1310.8 | 1300.8 |
| 60°   | 18593.6 | 15469.4 | 4456.4 | 1472.5 | 1373.5 | 1476.3 | 1541.4 | 1473.8 | 1377.3 | 1372.2 | 1364.7 |
| 62.5° | 19207.7 | 15420.6 | 3618.0 | 1368.5 | 1307.1 | 1439.9 | 1569.0 | 1530.2 | 1477.5 | 1522.6 | 1526.4 |
| 65°   | 18932.0 | 14683.7 | 2694.4 | 1299.6 | 1259.5 | 1453.7 | 1651.7 | 1636.7 | 1506.3 | 1551.5 | 1557.7 |
| 67.5° | 17117.4 | 12925.4 | 1995.1 | 1239.4 | 1206.8 | 1492.6 | 1802.1 | 1671.8 | 1449.9 | 1482.5 | 1462.5 |
| 70°   | 13835.3 | 10247.4 | 1538.9 | 1171.7 | 1152.9 | 1487.5 | 1869.8 | 1650.5 | 1388.5 | 1396.1 | 1342.2 |
| 72.5° | 9540.6  | 6987.8  | 1251.9 | 1109.1 | 1075.2 | 1356.0 | 1822.1 | 1597.8 | 1337.2 | 1279.5 | 1208.1 |
| 75°   | 5188.2  | 3750.8  | 1064.0 | 1043.9 | 938.6  | 1190.5 | 1734.4 | 1560.2 | 1290.8 | 1214.3 | 1174.2 |
| 77.5° | 2041.5  | 1556.5  | 923.6  | 954.9  | 820.8  | 1051.4 | 1636.7 | 1488.8 | 1226.9 | 1126.6 | 1106.6 |
| 80°   | 833.4   | 794.5   | 765.7  | 825.9  | 705.5  | 919.8  | 1518.9 | 1404.8 | 1150.4 | 1045.2 | 1005.1 |
| 82.5° | 472.5   | 493.8   | 595.3  | 651.7  | 572.7  | 847.2  | 1462.5 | 1337.2 | 1058.9 | 936.1  | 888.5  |
| 85°   | 241.9   | 289.5   | 414.8  | 467.4  | 421.1  | 720.6  | 1347.2 | 1170.5 | 849.7  | 716.8  | 720.6  |
| 87.5° | 116.5   | 161.7   | 261.9  | 293.2  | 273.2  | 521.3  | 1006.3 | 848.4  | 661.7  | 523.8  | 507.5  |
| 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)