

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: P192803

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26144.7 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

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: 28.75 FT

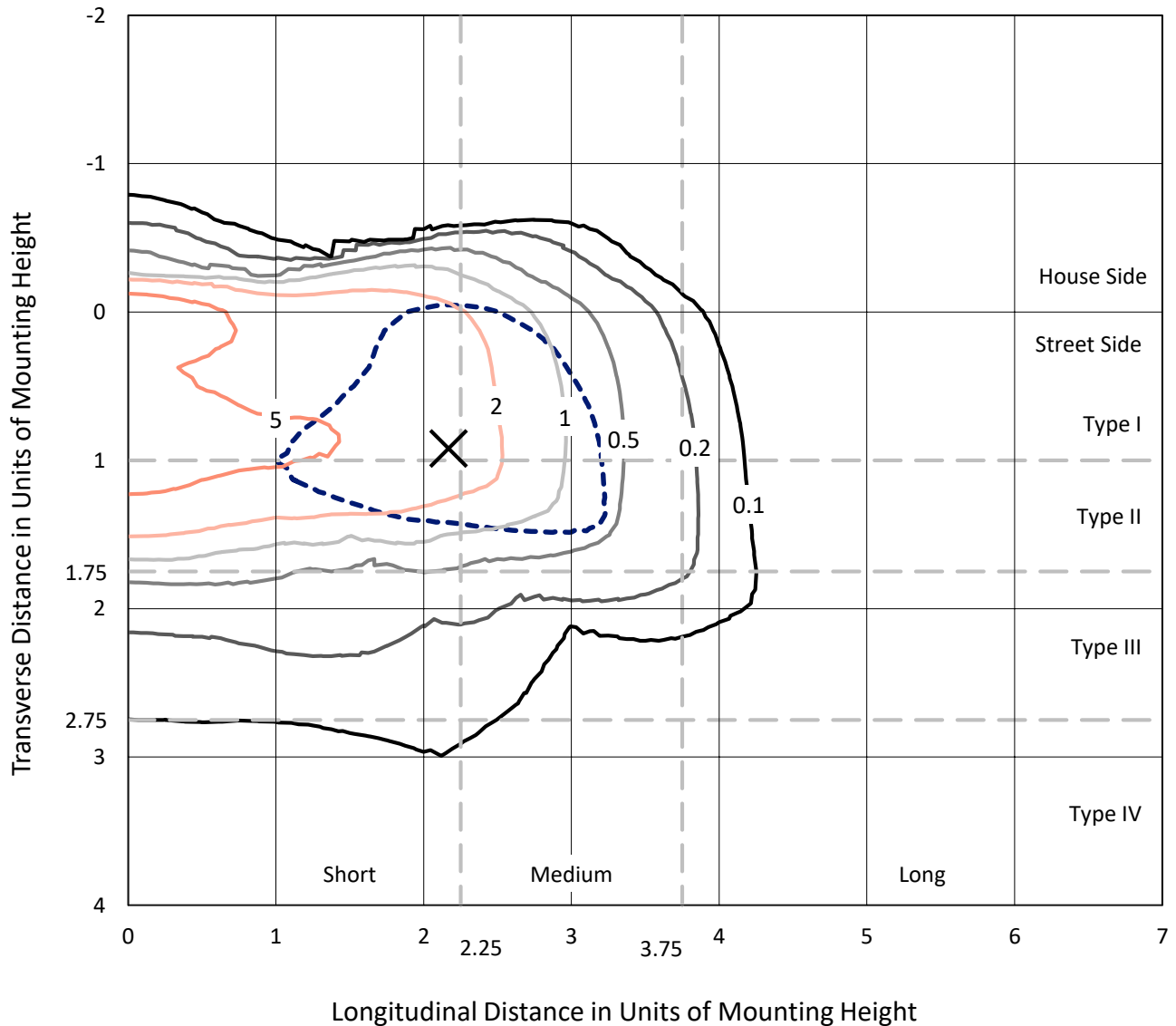


REPORT NUMBER: P192803

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

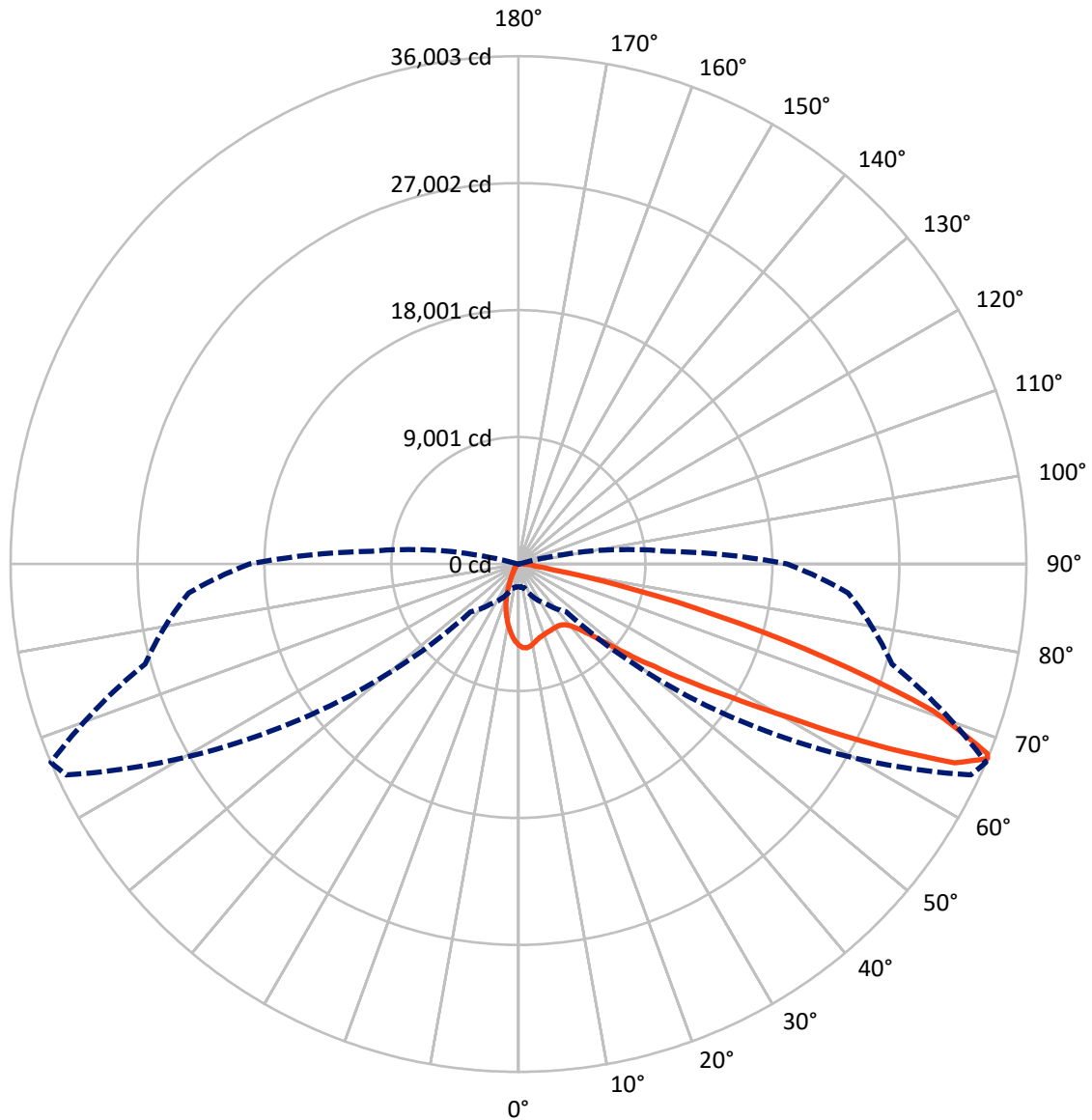


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P192803

CATALOG NUMBER: GAN-AF-05-LED-U-SL2-7030-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P192803

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2714.6 | 0.0 | 2714.6 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 23430.1 | 0.0 | 23430.1 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 26144.7 | 0.0 | 26144.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 469.2 | 1.8 |
| 10°-20° | 998.5 | 3.8 |
| 20°-30° | 1451.8 | 5.6 |
| 30°-40° | 2264.9 | 8.7 |
| 40°-50° | 4012.1 | 15.3 |
| 50°-60° | 6348.8 | 24.3 |
| 60°-70° | 7271.6 | 27.8 |
| 70°-80° | 3016.2 | 11.5 |
| 80°-90° | 311.6 | 1.2 |
| 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° | 26144.7 | 100.0 |
| 0°-180° | 26144.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P192803

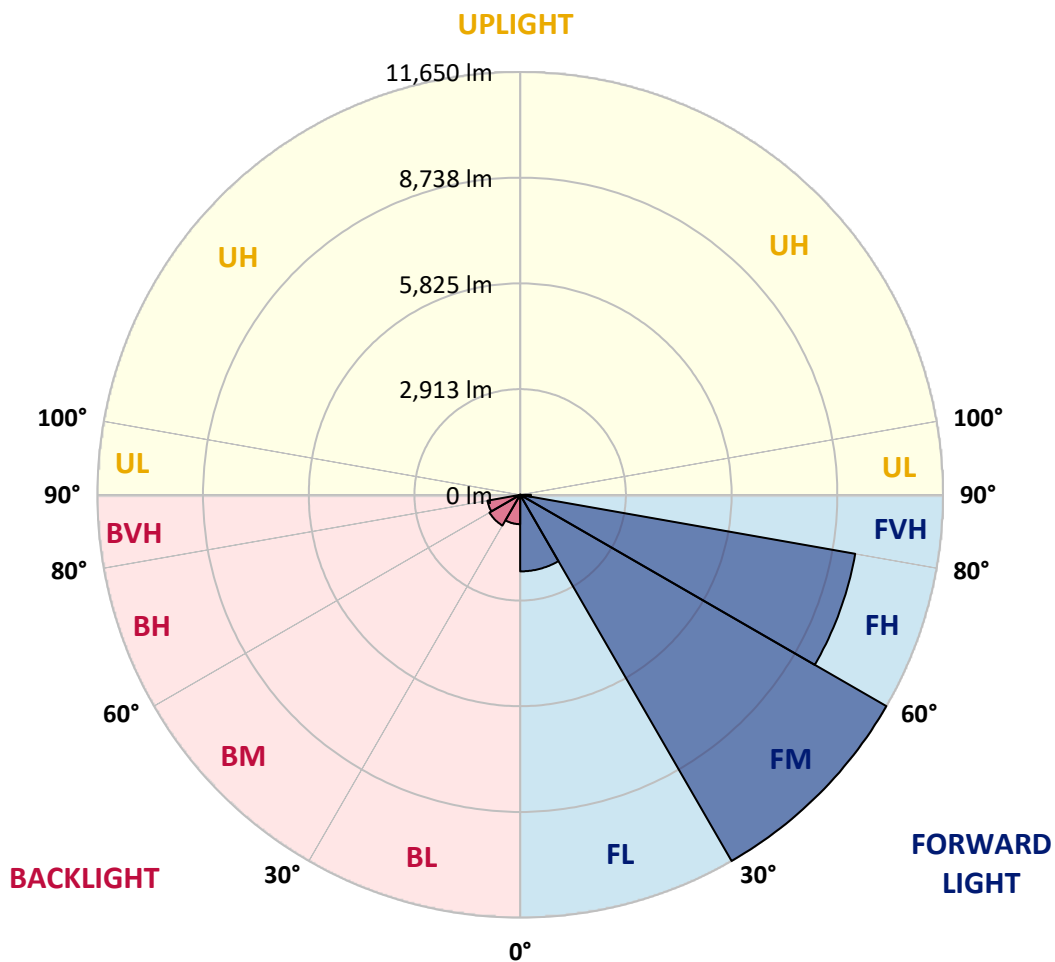
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2109.5 | 8.1 | | | |
| FM (30°-60°) | 11650.1 | 44.6 | | | |
| FH (60°-80°) | 9372.9 | 35.9 | | | G4/12000 |
| FVH (80°-90°) | 297.5 | 1.1 | | | G3/500 |
| BL (0°-30°) | 810.0 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 975.6 | 3.7 | B1/1000 | | |
| BH (60°-80°) | 914.9 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 14.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P192803

CATALOG NUMBER: GAN-AF-05-LED-U-SL2-7030-1200-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 |
| 2.5° | 5961.0 | 5973.2 | 5971.8 | 5980.9 | 6002.2 | 6003.8 | 5982.4 | 5941.2 | 5932.1 | 5878.7 | 5785.8 |
| 5° | 5497.5 | 5532.6 | 5553.8 | 5640.8 | 5738.4 | 5855.9 | 5944.2 | 5976.3 | 5971.8 | 5933.7 | 5793.4 |
| 7.5° | 4968.3 | 5003.4 | 5027.8 | 5129.9 | 5259.5 | 5460.9 | 5691.1 | 5880.3 | 5897.0 | 5938.1 | 5787.3 |
| 10° | 4616.1 | 4622.1 | 4655.6 | 4753.4 | 4889.1 | 5094.9 | 5369.3 | 5700.3 | 5750.7 | 5901.5 | 5771.9 |
| 12.5° | 4326.3 | 4330.9 | 4375.1 | 4480.2 | 4625.2 | 4832.5 | 5120.8 | 5503.6 | 5581.3 | 5855.9 | 5768.9 |
| 15° | 4120.3 | 4137.2 | 4176.9 | 4286.7 | 4440.7 | 4646.6 | 4942.4 | 5358.7 | 5451.7 | 5839.1 | 5796.3 |
| 17.5° | 4051.8 | 4070.1 | 4082.4 | 4161.5 | 4301.9 | 4503.2 | 4806.7 | 5264.1 | 5369.3 | 5848.2 | 5849.7 |
| 20° | 4123.5 | 4137.2 | 4109.8 | 4129.6 | 4216.6 | 4396.5 | 4692.2 | 5183.4 | 5308.4 | 5858.9 | 5918.3 |
| 22.5° | 4390.4 | 4396.5 | 4321.8 | 4234.8 | 4219.6 | 4318.7 | 4602.3 | 5119.3 | 5253.5 | 5887.9 | 5999.2 |
| 25° | 4847.9 | 4837.1 | 4715.2 | 4527.6 | 4350.7 | 4305.0 | 4548.9 | 5079.7 | 5226.0 | 5918.3 | 6083.0 |
| 27.5° | 5399.9 | 5415.1 | 5247.4 | 4974.3 | 4637.4 | 4396.5 | 4541.4 | 5062.8 | 5213.9 | 5939.7 | 6156.2 |
| 30° | 6070.9 | 6092.2 | 5900.1 | 5556.9 | 5073.6 | 4622.1 | 4611.5 | 5059.8 | 5206.2 | 5926.0 | 6162.3 |
| 32.5° | 6755.6 | 6781.5 | 6630.5 | 6276.7 | 5656.1 | 5000.4 | 4770.0 | 5093.3 | 5221.5 | 5878.7 | 6127.3 |
| 35° | 7472.2 | 7508.9 | 7408.3 | 7104.8 | 6446.0 | 5546.2 | 5049.1 | 5195.5 | 5293.2 | 5874.1 | 6092.2 |
| 37.5° | 8462.0 | 8495.6 | 8306.4 | 7984.6 | 7402.1 | 6278.2 | 5497.5 | 5387.7 | 5462.4 | 5947.3 | 6101.4 |
| 40° | 9939.7 | 9935.1 | 9447.1 | 8954.6 | 8452.9 | 7208.5 | 6127.3 | 5735.3 | 5773.5 | 6168.4 | 6214.2 |
| 42.5° | 11550.1 | 11542.3 | 10821.0 | 10072.3 | 9619.4 | 8353.8 | 6955.3 | 6336.2 | 6310.3 | 6575.7 | 6506.9 |
| 45° | 12791.3 | 12789.8 | 12201.2 | 11357.8 | 11023.9 | 9668.3 | 8025.8 | 7171.9 | 7132.2 | 7237.5 | 7046.7 |
| 47.5° | 13320.5 | 13329.6 | 13033.7 | 12440.6 | 12580.8 | 11446.3 | 9375.4 | 8382.7 | 8323.3 | 8280.5 | 7990.7 |
| 50° | 12908.8 | 12927.0 | 12951.5 | 12835.6 | 13723.1 | 13835.9 | 11185.5 | 10089.1 | 10060.1 | 9869.5 | 9416.6 |
| 52.5° | 11563.8 | 11656.8 | 11943.4 | 12311.0 | 14119.6 | 16129.5 | 14023.5 | 12208.8 | 12053.3 | 11850.5 | 11351.8 |
| 55° | 9297.6 | 9399.8 | 9944.2 | 10836.4 | 13529.5 | 17636.1 | 18000.6 | 14941.5 | 14682.3 | 14076.9 | 13357.1 |
| 57.5° | 6153.2 | 6311.8 | 7101.8 | 8236.3 | 11815.4 | 17878.6 | 21968.5 | 18734.1 | 17831.3 | 16173.6 | 15362.4 |
| 60° | 3390.0 | 3542.5 | 4399.6 | 5427.4 | 8533.7 | 16679.9 | 24637.2 | 23671.9 | 22076.8 | 18517.6 | 17797.8 |
| 62.5° | 2087.6 | 2170.0 | 2802.8 | 3759.1 | 5117.7 | 13164.9 | 25189.2 | 29877.0 | 28030.3 | 21535.4 | 20739.4 |
| 65° | 1662.2 | 1697.3 | 2006.9 | 3072.8 | 3669.0 | 7830.6 | 23406.6 | 34607.4 | 33991.3 | 25189.2 | 23373.0 |
| 67° | 1613.4 | 1627.1 | 1773.5 | 2638.2 | 3458.6 | 4800.6 | 19609.5 | 35377.5 | 36002.7 | 27400.4 | 23455.3 |
| 67.5° | 1624.0 | 1639.3 | 1778.0 | 2517.7 | 3452.5 | 4411.7 | 18301.0 | 35074.0 | 35864.0 | 27575.8 | 23090.9 |
| 70° | 1566.1 | 1613.4 | 2035.8 | 2516.1 | 3283.2 | 3665.9 | 10959.9 | 30389.4 | 31211.3 | 25622.3 | 19592.6 |
| 72.5° | 555.0 | 558.1 | 879.9 | 2035.8 | 3569.9 | 3705.6 | 5503.6 | 22278.1 | 22886.5 | 19600.2 | 14125.7 |
| 75° | 329.4 | 280.6 | 292.9 | 579.5 | 3411.3 | 3598.9 | 3175.0 | 14235.5 | 14462.6 | 11231.3 | 7153.5 |
| 77.5° | 227.3 | 198.2 | 204.4 | 256.2 | 1299.3 | 3548.5 | 2522.2 | 7423.5 | 7181.1 | 3939.1 | 1523.4 |
| 80° | 129.6 | 114.4 | 122.1 | 224.2 | 472.8 | 3310.7 | 2378.9 | 3010.3 | 2566.5 | 667.9 | 420.8 |
| 82.5° | 68.7 | 57.9 | 70.2 | 184.5 | 329.4 | 2063.3 | 2383.5 | 1454.8 | 1152.9 | 225.7 | 286.7 |
| 85° | 24.4 | 19.7 | 33.6 | 126.5 | 219.6 | 632.8 | 2209.7 | 1223.0 | 960.7 | 109.8 | 218.1 |
| 87.5° | 4.6 | 4.6 | 13.7 | 51.9 | 88.5 | 193.7 | 1306.8 | 725.9 | 486.4 | 65.5 | 149.4 |
| 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: P192803

CATALOG NUMBER: GAN-AF-05-LED-U-SL2-7030-1200-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 | 5765.8 |
| 2.5° | 5747.6 | 5682.0 | 5593.5 | 5485.3 | 5357.2 | 5244.3 | 5160.5 | 5073.6 | 5055.2 | 5024.8 | 5020.1 |
| 5° | 5709.5 | 5596.6 | 5376.9 | 5125.4 | 4857.0 | 4614.6 | 4417.8 | 4242.4 | 4164.6 | 4097.5 | 4089.9 |
| 7.5° | 5653.0 | 5483.7 | 5110.2 | 4704.4 | 4285.1 | 3904.0 | 3580.7 | 3351.8 | 3141.4 | 3040.8 | 3025.5 |
| 10° | 5587.4 | 5345.0 | 4809.7 | 4247.0 | 3667.5 | 3129.1 | 2648.9 | 2246.3 | 2002.2 | 1857.4 | 1839.1 |
| 12.5° | 5526.5 | 5209.3 | 4503.2 | 3772.7 | 3002.7 | 2282.9 | 1665.2 | 1280.9 | 1024.8 | 921.0 | 908.9 |
| 15° | 5497.5 | 5099.4 | 4216.6 | 3287.8 | 2307.2 | 1453.2 | 910.3 | 704.5 | 620.7 | 596.2 | 594.7 |
| 17.5° | 5494.4 | 5006.5 | 3935.9 | 2786.1 | 1616.5 | 844.8 | 593.2 | 541.4 | 524.6 | 518.4 | 518.4 |
| 20° | 5492.9 | 4918.0 | 3655.3 | 2266.0 | 1026.3 | 562.6 | 494.1 | 481.9 | 469.7 | 462.0 | 462.0 |
| 22.5° | 5509.6 | 4838.6 | 3362.6 | 1735.4 | 646.6 | 455.9 | 434.7 | 422.4 | 407.2 | 396.5 | 395.0 |
| 25° | 5526.5 | 4777.7 | 3063.6 | 1235.1 | 468.1 | 396.5 | 375.1 | 358.4 | 337.1 | 323.3 | 321.8 |
| 27.5° | 5529.5 | 4701.4 | 2743.4 | 826.5 | 391.9 | 346.2 | 318.7 | 292.9 | 268.3 | 254.7 | 253.2 |
| 30° | 5483.7 | 4573.4 | 2388.1 | 558.1 | 346.2 | 300.5 | 263.9 | 236.3 | 213.5 | 202.7 | 202.7 |
| 32.5° | 5393.8 | 4414.7 | 1997.7 | 420.8 | 308.0 | 257.8 | 218.1 | 192.2 | 176.9 | 172.3 | 170.8 |
| 35° | 5312.9 | 4243.9 | 1596.6 | 356.8 | 276.0 | 218.1 | 178.4 | 161.6 | 152.5 | 151.0 | 149.4 |
| 37.5° | 5265.6 | 4106.7 | 1220.0 | 323.3 | 245.5 | 183.0 | 151.0 | 138.8 | 134.2 | 131.1 | 132.6 |
| 40° | 5302.3 | 3992.4 | 901.3 | 295.9 | 215.0 | 152.5 | 128.1 | 122.1 | 117.5 | 116.0 | 116.0 |
| 42.5° | 5462.4 | 3972.5 | 669.4 | 271.4 | 186.1 | 126.5 | 111.3 | 106.7 | 103.7 | 102.1 | 103.7 |
| 45° | 5883.3 | 4094.5 | 520.0 | 248.6 | 157.2 | 106.7 | 94.5 | 93.0 | 91.4 | 91.4 | 91.4 |
| 47.5° | 6516.1 | 4346.2 | 433.1 | 222.7 | 131.1 | 91.4 | 82.4 | 80.9 | 79.3 | 80.9 | 80.9 |
| 50° | 7588.2 | 4806.7 | 387.4 | 196.6 | 108.2 | 77.8 | 70.2 | 70.2 | 70.2 | 70.2 | 71.7 |
| 52.5° | 9218.3 | 5712.5 | 356.8 | 170.8 | 88.5 | 65.5 | 59.4 | 59.4 | 60.9 | 60.9 | 62.5 |
| 55° | 11034.6 | 6914.2 | 329.4 | 144.9 | 74.8 | 54.8 | 48.8 | 50.4 | 51.9 | 53.4 | 53.4 |
| 57.5° | 13004.8 | 8245.5 | 306.5 | 119.0 | 64.0 | 44.2 | 41.2 | 42.7 | 44.2 | 47.3 | 47.3 |
| 60° | 15382.3 | 9686.5 | 272.9 | 93.0 | 53.4 | 35.1 | 32.0 | 35.1 | 39.7 | 42.7 | 44.2 |
| 62.5° | 17993.0 | 11080.3 | 230.3 | 73.2 | 44.2 | 27.5 | 25.9 | 32.0 | 38.1 | 41.2 | 42.7 |
| 65° | 19777.1 | 11518.0 | 176.9 | 59.4 | 33.6 | 19.7 | 21.3 | 29.0 | 36.6 | 41.2 | 41.2 |
| 67° | 19054.4 | 10442.9 | 144.9 | 50.4 | 27.5 | 15.3 | 19.7 | 29.0 | 36.6 | 39.7 | 41.2 |
| 67.5° | 18552.7 | 10022.1 | 138.8 | 48.8 | 25.9 | 15.3 | 19.7 | 29.0 | 36.6 | 41.2 | 41.2 |
| 70° | 15095.6 | 7528.7 | 116.0 | 36.6 | 21.3 | 13.7 | 16.8 | 27.5 | 35.1 | 39.7 | 39.7 |
| 72.5° | 10488.7 | 4642.0 | 103.7 | 25.9 | 18.2 | 12.2 | 15.3 | 25.9 | 33.6 | 38.1 | 39.7 |
| 75° | 4986.6 | 1680.5 | 88.5 | 19.7 | 16.8 | 10.7 | 13.7 | 25.9 | 33.6 | 38.1 | 38.1 |
| 77.5° | 1017.1 | 390.4 | 71.7 | 16.8 | 13.7 | 10.7 | 12.2 | 24.4 | 32.0 | 36.6 | 36.6 |
| 80° | 334.0 | 151.0 | 53.4 | 15.3 | 13.7 | 10.7 | 12.2 | 22.8 | 32.0 | 35.1 | 36.6 |
| 82.5° | 240.9 | 76.3 | 35.1 | 15.3 | 13.7 | 10.7 | 10.7 | 22.8 | 30.5 | 35.1 | 35.1 |
| 85° | 184.5 | 53.4 | 22.8 | 15.3 | 13.7 | 10.7 | 10.7 | 21.3 | 29.0 | 33.6 | 33.6 |
| 87.5° | 122.1 | 21.3 | 18.2 | 15.3 | 13.7 | 10.7 | 10.7 | 21.3 | 27.5 | 32.0 | 33.6 |
| 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)