

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: McGRAW-EDISON

Report Number: P533106

Luminaire Tested: **GALN-SA8C-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44081 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 429
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

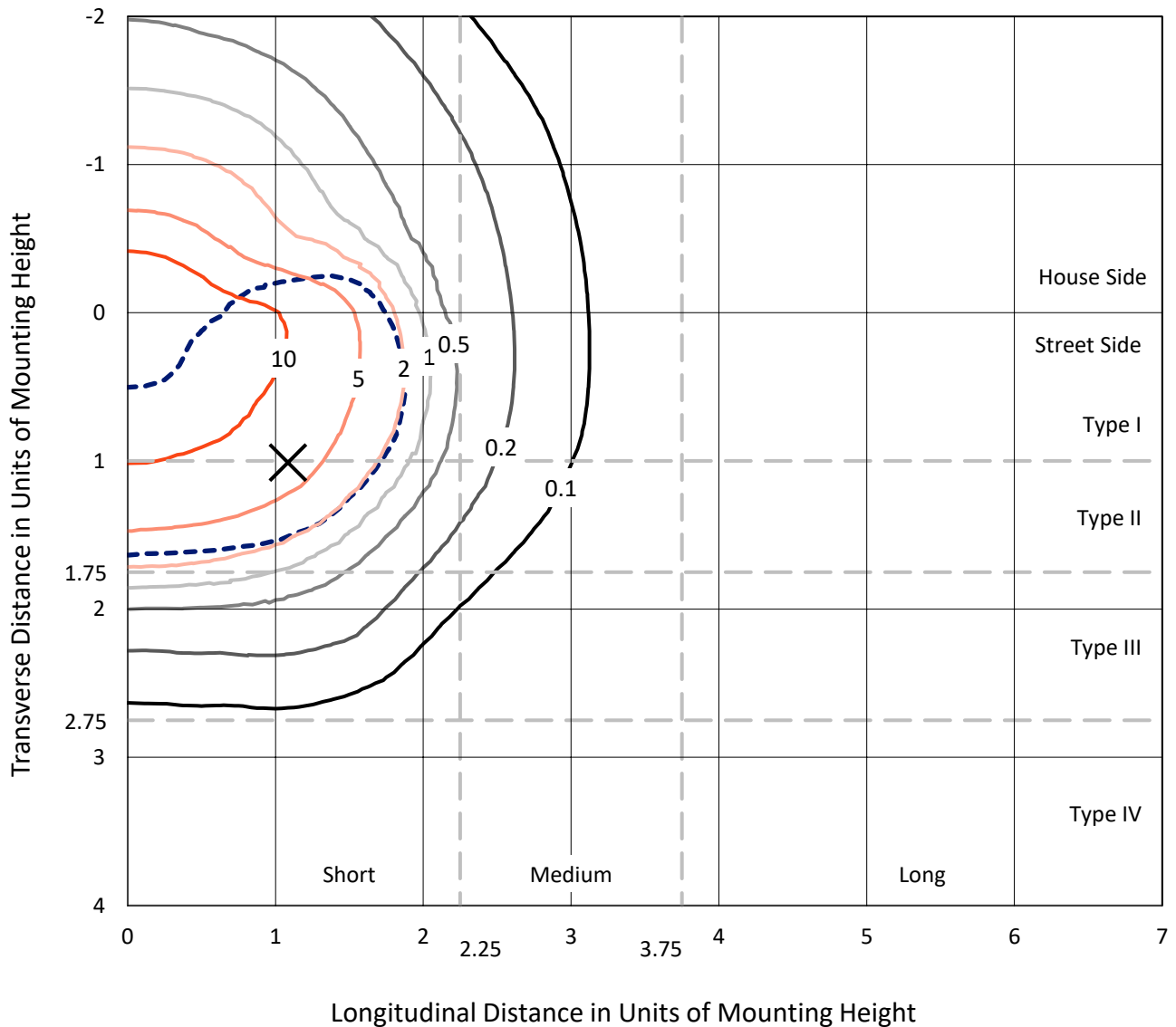




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Iso-Footcandle Lines of Horizontal Illumination

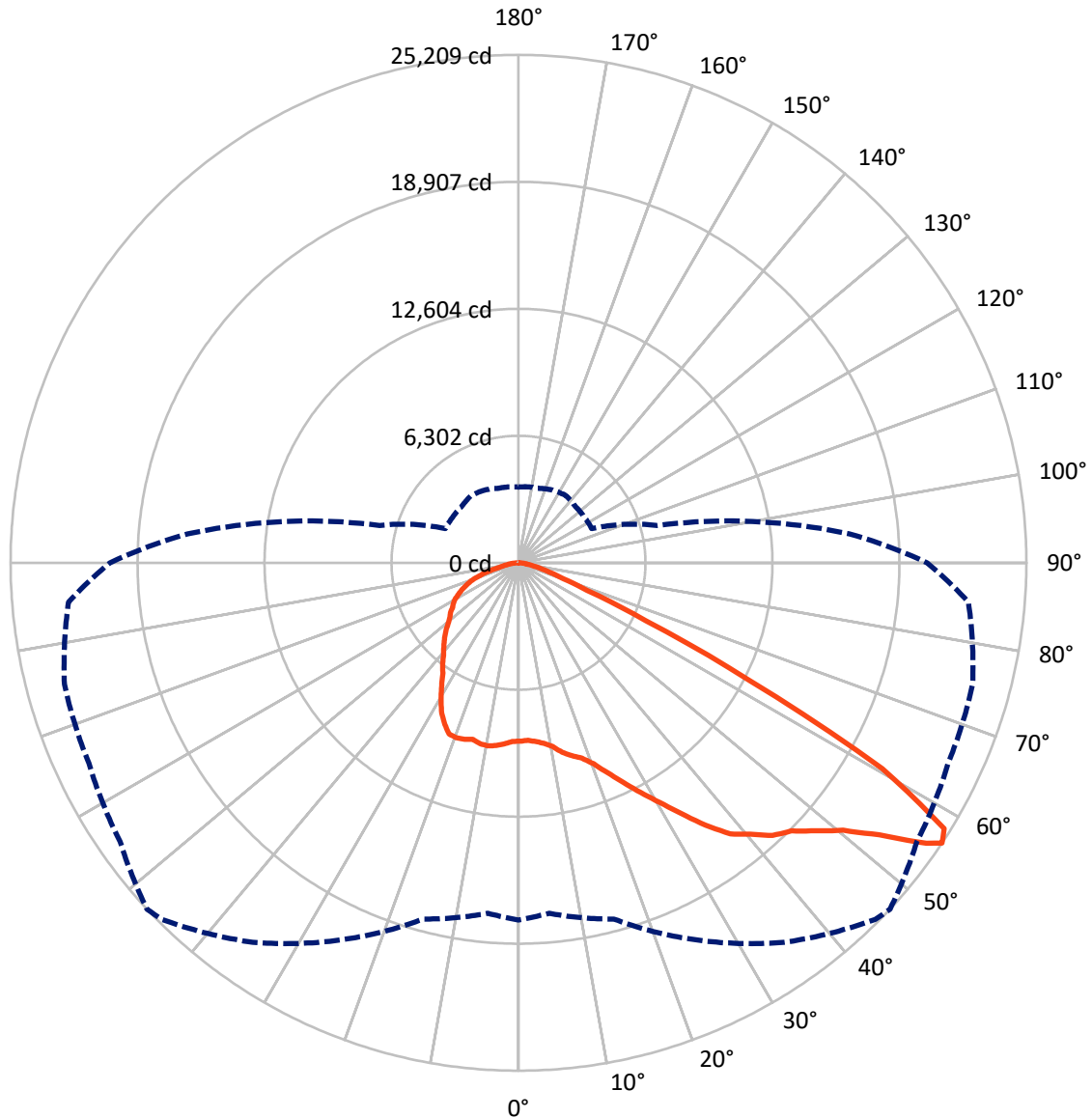
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13968.7 | 0.0 | 13968.7 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 30112.3 | 0.0 | 30112.3 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 44081.0 | 0.0 | 44081.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 862.8 | 2.0 |
| 10°-20° | 2721.6 | 6.2 |
| 20°-30° | 4811.1 | 10.9 |
| 30°-40° | 7226.0 | 16.4 |
| 40°-50° | 9917.1 | 22.5 |
| 50°-60° | 11814.8 | 26.8 |
| 60°-70° | 5056.0 | 11.5 |
| 70°-80° | 1430.8 | 3.2 |
| 80°-90° | 240.8 | 0.5 |
| 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° | 44081.0 | 100.0 |
| 0°-180° | 44081.0 | 100.0 |

Coefficient of Utilization



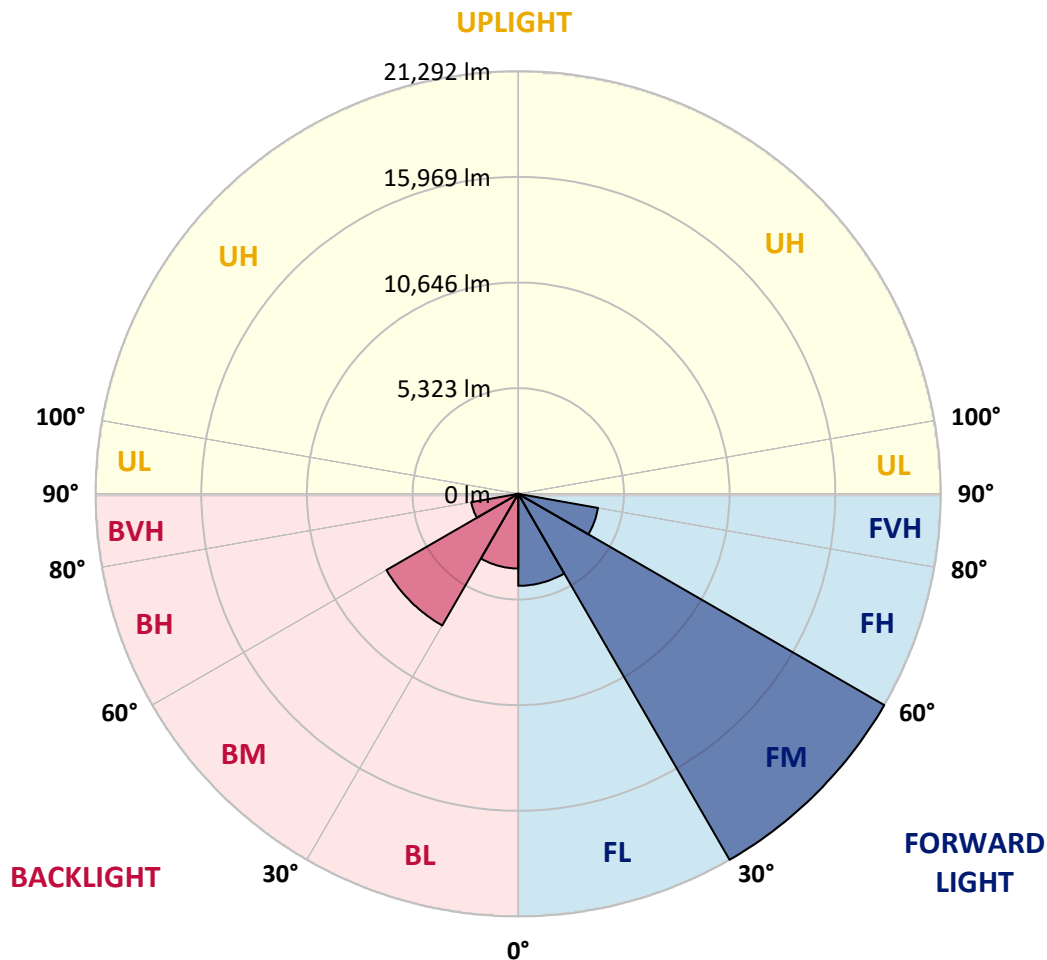
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4634.4 | 10.5 | | | |
| FM (30°-60°) | 21292.1 | 48.3 | | | |
| FH (60°-80°) | 4083.5 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 102.2 | 0.2 | | | G2/225 |
| BL (0°-30°) | 3761.0 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 7665.8 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 2403.4 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 138.6 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 |
| 2.5° | 8820.8 | 8803.9 | 8792.7 | 8882.6 | 8848.9 | 8854.5 | 8820.8 | 8854.5 | 8877.0 | 8826.4 | 8899.5 |
| 5° | 8803.9 | 8854.5 | 8809.6 | 8837.7 | 8910.8 | 8888.3 | 8910.8 | 8978.2 | 8961.4 | 8944.5 | 8922.0 |
| 7.5° | 8961.4 | 8967.0 | 9000.7 | 9011.9 | 9034.4 | 9011.9 | 9045.7 | 9107.5 | 9090.7 | 8995.1 | 9006.3 |
| 10° | 9186.2 | 9197.5 | 9203.1 | 9264.9 | 9304.3 | 9309.9 | 9270.6 | 9214.3 | 9208.7 | 9338.0 | 9248.1 |
| 12.5° | 9444.8 | 9416.7 | 9484.2 | 9506.7 | 9551.7 | 9602.2 | 9652.8 | 9534.8 | 9607.9 | 9613.5 | 9506.7 |
| 15° | 9821.5 | 9849.6 | 9770.9 | 9770.9 | 9787.8 | 9793.4 | 9933.9 | 9877.7 | 9866.5 | 9804.6 | 9849.6 |
| 17.5° | 10383.7 | 10192.6 | 10186.9 | 10108.2 | 10097.0 | 10142.0 | 10192.6 | 10237.5 | 10389.3 | 10265.6 | 10023.9 |
| 20° | 10794.1 | 10839.1 | 10676.0 | 10580.5 | 10597.3 | 10698.5 | 10647.9 | 10850.3 | 10957.1 | 10754.7 | 10518.6 |
| 22.5° | 11519.3 | 11367.5 | 11406.9 | 11193.3 | 11210.1 | 11316.9 | 11311.3 | 11519.3 | 11581.2 | 11260.7 | 10917.8 |
| 25° | 12008.4 | 11969.1 | 12002.8 | 11834.2 | 11856.6 | 11941.0 | 12075.9 | 12418.8 | 12317.6 | 11963.5 | 11170.8 |
| 27.5° | 12722.4 | 12643.7 | 12615.6 | 12553.8 | 12531.3 | 12756.2 | 12913.6 | 13279.0 | 13205.9 | 12688.7 | 11620.5 |
| 30° | 13453.3 | 13402.7 | 13430.8 | 13177.8 | 13267.7 | 13745.6 | 13790.6 | 14290.9 | 14257.2 | 13346.5 | 12120.9 |
| 32.5° | 13959.2 | 13987.4 | 14037.9 | 13897.4 | 14296.6 | 14678.8 | 14830.6 | 15398.5 | 15426.6 | 14476.5 | 13087.8 |
| 35° | 14774.4 | 14678.8 | 14707.0 | 14870.0 | 15055.5 | 15752.6 | 16000.0 | 16376.7 | 16612.8 | 15662.7 | 14015.5 |
| 37.5° | 15286.0 | 15387.2 | 15269.2 | 15527.8 | 16011.2 | 16848.9 | 17073.8 | 17461.7 | 17709.1 | 16832.0 | 15280.4 |
| 40° | 16084.3 | 15921.3 | 16005.6 | 16191.1 | 16685.9 | 17776.5 | 17714.7 | 18113.8 | 18192.6 | 17827.1 | 16461.0 |
| 42.5° | 16944.5 | 16865.8 | 16747.7 | 17169.4 | 17585.4 | 18378.1 | 18501.8 | 18316.2 | 18715.4 | 18799.7 | 18147.6 |
| 45° | 17973.3 | 18068.9 | 18085.7 | 18097.0 | 18462.4 | 19153.9 | 18985.2 | 18822.2 | 19283.2 | 19896.0 | 19193.3 |
| 47.5° | 18929.0 | 18625.4 | 18844.7 | 19148.3 | 19665.5 | 19671.1 | 19867.9 | 19480.0 | 19969.1 | 20514.4 | 20137.7 |
| 50° | 19249.5 | 19103.3 | 19395.6 | 19969.1 | 20767.4 | 20851.7 | 20874.2 | 20323.3 | 20576.2 | 21009.1 | 20463.8 |
| 52.5° | 19125.8 | 19075.2 | 19822.9 | 20711.2 | 21880.5 | 22307.8 | 22420.2 | 21740.0 | 21880.5 | 21683.8 | 21183.4 |
| 55° | 18535.5 | 18687.3 | 19440.6 | 21250.9 | 23044.3 | 24365.4 | 24579.1 | 23718.9 | 22825.0 | 22976.8 | 22425.9 |
| 56° | 17725.9 | 17461.7 | 18305.0 | 20638.1 | 22993.7 | 25034.4 | 25208.7 | 24134.9 | 23527.8 | 23331.0 | 22414.6 |
| 57.5° | 15038.7 | 14695.7 | 15803.2 | 18569.2 | 21717.5 | 24781.5 | 24910.8 | 24309.2 | 23409.7 | 23010.5 | 20778.6 |
| 60° | 8803.9 | 8972.6 | 10378.1 | 12806.7 | 16753.3 | 20317.6 | 20750.5 | 21189.0 | 20587.5 | 18799.7 | 15465.9 |
| 62.5° | 4250.2 | 4143.4 | 5149.7 | 7342.2 | 10209.4 | 12969.8 | 12840.5 | 14071.7 | 14746.3 | 13357.7 | 9765.3 |
| 65° | 2226.3 | 2215.0 | 2811.0 | 4008.4 | 5610.7 | 6813.8 | 6931.8 | 7595.2 | 8522.8 | 6881.2 | 4958.5 |
| 67.5° | 1636.0 | 1681.0 | 1978.9 | 2816.6 | 3609.3 | 3682.4 | 3665.5 | 3997.2 | 4087.1 | 3457.5 | 3047.1 |
| 70° | 1281.8 | 1304.3 | 1523.5 | 2142.0 | 2687.3 | 2406.2 | 2355.6 | 2394.9 | 2659.2 | 2771.6 | 2636.7 |
| 72.5° | 927.6 | 950.1 | 1135.6 | 1444.8 | 1681.0 | 1641.6 | 1675.3 | 1894.6 | 2220.7 | 2338.7 | 2198.2 |
| 75° | 618.4 | 635.3 | 736.5 | 882.6 | 995.1 | 1073.8 | 1135.6 | 1388.6 | 1692.2 | 1759.7 | 1692.2 |
| 77.5° | 427.3 | 444.1 | 511.6 | 624.0 | 635.3 | 685.9 | 708.4 | 826.4 | 1011.9 | 1096.3 | 1051.3 |
| 80° | 241.7 | 241.7 | 275.5 | 320.4 | 393.5 | 461.0 | 472.2 | 567.8 | 652.1 | 708.4 | 719.6 |
| 82.5° | 112.4 | 118.1 | 146.2 | 196.8 | 258.6 | 320.4 | 331.7 | 393.5 | 455.4 | 511.6 | 528.5 |
| 85° | 56.2 | 61.8 | 84.3 | 118.1 | 157.4 | 191.1 | 185.5 | 191.1 | 202.4 | 191.1 | 196.8 |
| 87.5° | 16.9 | 16.9 | 22.5 | 28.1 | 22.5 | 28.1 | 28.1 | 33.7 | 39.4 | 45.0 | 50.6 |
| 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: P533106

CATALOG NUMBER: GALN-SA8C-730-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 | 8854.5 |
| 2.5° | 8905.1 | 8922.0 | 8809.6 | 8916.4 | 8877.0 | 8871.4 | 8950.1 | 8938.9 | 8967.0 | 8955.7 | 8888.3 |
| 5° | 8910.8 | 8871.4 | 8989.5 | 8882.6 | 8933.2 | 9040.1 | 8967.0 | 9135.6 | 9051.3 | 9107.5 | 8983.8 |
| 7.5° | 9085.0 | 9096.3 | 9073.8 | 9118.8 | 9096.3 | 9146.9 | 9107.5 | 9146.9 | 9079.4 | 9085.0 | 9197.5 |
| 10° | 9236.8 | 9203.1 | 9242.4 | 9186.2 | 9225.6 | 9208.7 | 9118.8 | 9090.7 | 9113.1 | 9085.0 | 9158.1 |
| 12.5° | 9517.9 | 9456.1 | 9428.0 | 9360.5 | 9315.5 | 9146.9 | 9006.3 | 8927.6 | 9034.4 | 9051.3 | 9017.6 |
| 15° | 9804.6 | 9810.3 | 9681.0 | 9529.2 | 9248.1 | 8995.1 | 9028.8 | 9056.9 | 9056.9 | 9101.9 | 9017.6 |
| 17.5° | 9984.5 | 9984.5 | 9866.5 | 9562.9 | 9276.2 | 9130.0 | 9096.3 | 9006.3 | 8927.6 | 8916.4 | 8910.8 |
| 20° | 10299.4 | 10203.8 | 9933.9 | 9557.3 | 9264.9 | 9197.5 | 8944.5 | 8730.9 | 8567.8 | 8511.6 | 8506.0 |
| 22.5° | 10659.2 | 10417.4 | 10040.8 | 9568.5 | 9248.1 | 9152.5 | 8680.3 | 8359.8 | 8067.5 | 7943.8 | 7960.6 |
| 25° | 10990.9 | 10603.0 | 10102.6 | 9517.9 | 9186.2 | 8725.2 | 8196.8 | 7752.6 | 7449.1 | 7347.9 | 7297.3 |
| 27.5° | 11221.4 | 10799.7 | 10102.6 | 9562.9 | 8955.7 | 8247.4 | 7707.7 | 7139.8 | 6875.6 | 6808.2 | 6819.4 |
| 30° | 11530.6 | 11047.1 | 10276.9 | 9467.3 | 8494.7 | 7629.0 | 6982.4 | 6611.4 | 6454.0 | 6397.8 | 6437.1 |
| 32.5° | 12255.8 | 11693.6 | 10518.6 | 9236.8 | 7949.4 | 7010.5 | 6487.7 | 6279.7 | 6049.2 | 5936.8 | 5897.4 |
| 35° | 13042.9 | 12306.4 | 10754.7 | 8848.9 | 7336.6 | 6448.3 | 6122.3 | 5931.1 | 5655.7 | 5532.0 | 5554.5 |
| 37.5° | 14156.0 | 13093.5 | 10771.6 | 8208.0 | 6673.2 | 6133.5 | 5835.6 | 5537.6 | 5312.7 | 5121.6 | 5065.4 |
| 40° | 15657.1 | 14167.3 | 10732.3 | 7533.4 | 6139.1 | 5762.5 | 5543.2 | 5172.2 | 4919.2 | 4784.3 | 4812.4 |
| 42.5° | 16978.2 | 15426.6 | 10569.2 | 6768.8 | 5655.7 | 5509.5 | 5262.1 | 4896.7 | 4649.3 | 4508.8 | 4497.5 |
| 45° | 18091.4 | 16354.2 | 10260.0 | 6116.7 | 5250.9 | 5228.4 | 4941.7 | 4660.6 | 4463.8 | 4334.5 | 4390.7 |
| 47.5° | 19120.2 | 17101.9 | 9793.4 | 5464.5 | 4879.8 | 4924.8 | 4649.3 | 4475.1 | 4351.4 | 4233.3 | 4227.7 |
| 50° | 19491.2 | 17090.7 | 9383.0 | 4924.8 | 4581.9 | 4559.4 | 4548.1 | 4362.6 | 4233.3 | 4132.1 | 4177.1 |
| 52.5° | 20109.6 | 17281.8 | 8938.9 | 4553.8 | 4312.0 | 4317.6 | 4357.0 | 4222.1 | 4075.9 | 4014.1 | 4070.3 |
| 55° | 20997.9 | 17309.9 | 7960.6 | 4120.9 | 4087.1 | 4126.5 | 4126.5 | 4036.5 | 3912.9 | 3862.3 | 3834.2 |
| 56° | 20272.7 | 16472.2 | 7139.8 | 4008.4 | 3974.7 | 3974.7 | 4081.5 | 3980.3 | 3828.5 | 3789.2 | 3755.4 |
| 57.5° | 18698.5 | 14431.5 | 5976.1 | 3873.5 | 3822.9 | 3901.6 | 3957.8 | 3851.0 | 3710.5 | 3654.3 | 3688.0 |
| 60° | 12896.7 | 9765.3 | 4491.9 | 3581.2 | 3581.2 | 3710.5 | 3755.4 | 3598.0 | 3536.2 | 3530.6 | 3485.6 |
| 62.5° | 7527.8 | 5689.4 | 3513.7 | 3316.9 | 3328.2 | 3435.0 | 3468.7 | 3378.8 | 3300.1 | 3395.6 | 3440.6 |
| 65° | 3991.6 | 3395.6 | 3013.4 | 3035.8 | 3041.5 | 3125.8 | 3272.0 | 3266.3 | 3260.7 | 3288.8 | 3294.4 |
| 67.5° | 2889.7 | 2822.2 | 2737.9 | 2715.4 | 2726.6 | 2788.5 | 2934.6 | 3047.1 | 3041.5 | 2974.0 | 2923.4 |
| 70° | 2574.8 | 2479.3 | 2428.7 | 2434.3 | 2389.3 | 2462.4 | 2580.5 | 2653.5 | 2524.2 | 2445.5 | 2411.8 |
| 72.5° | 2142.0 | 2113.8 | 2080.1 | 2085.7 | 1995.8 | 1978.9 | 1844.0 | 1844.0 | 1810.3 | 1787.8 | 1827.1 |
| 75° | 1636.0 | 1624.7 | 1641.6 | 1613.5 | 1517.9 | 1416.7 | 1338.0 | 1264.9 | 1152.5 | 1107.5 | 1085.0 |
| 77.5° | 1034.4 | 1068.2 | 1107.5 | 1045.7 | 1006.3 | 933.2 | 854.5 | 781.4 | 691.5 | 640.9 | 640.9 |
| 80° | 702.7 | 730.9 | 759.0 | 747.7 | 702.7 | 635.3 | 573.4 | 494.7 | 432.9 | 393.5 | 387.9 |
| 82.5° | 534.1 | 556.6 | 595.9 | 550.9 | 506.0 | 449.8 | 399.2 | 342.9 | 286.7 | 241.7 | 241.7 |
| 85° | 191.1 | 219.3 | 241.7 | 264.2 | 281.1 | 286.7 | 247.4 | 202.4 | 163.0 | 129.3 | 123.7 |
| 87.5° | 50.6 | 56.2 | 61.8 | 56.2 | 56.2 | 56.2 | 61.8 | 56.2 | 50.6 | 39.4 | 39.4 |
| 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)