

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640117

Luminaire Tested: GWS-SA5D-730-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24115.1 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

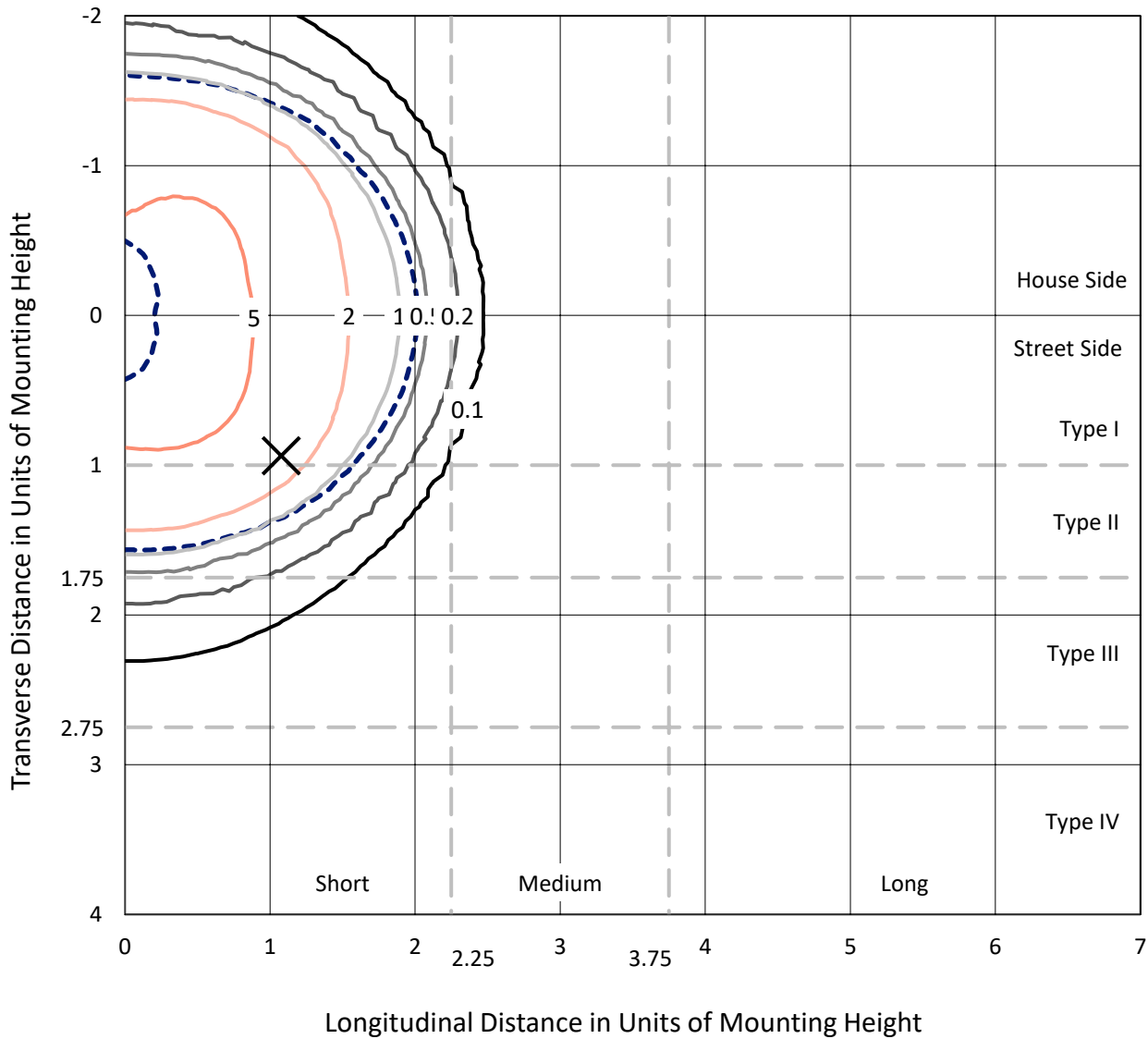
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

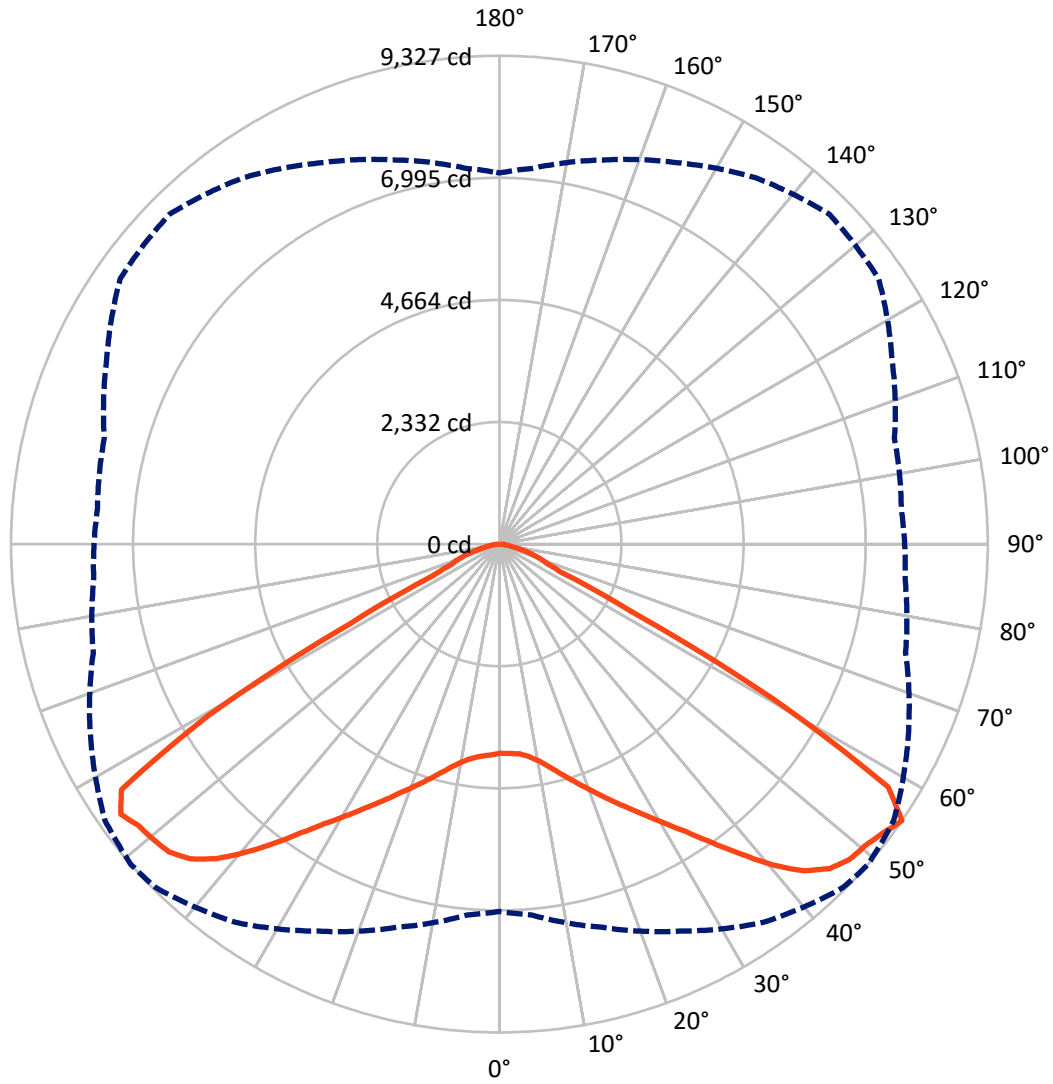
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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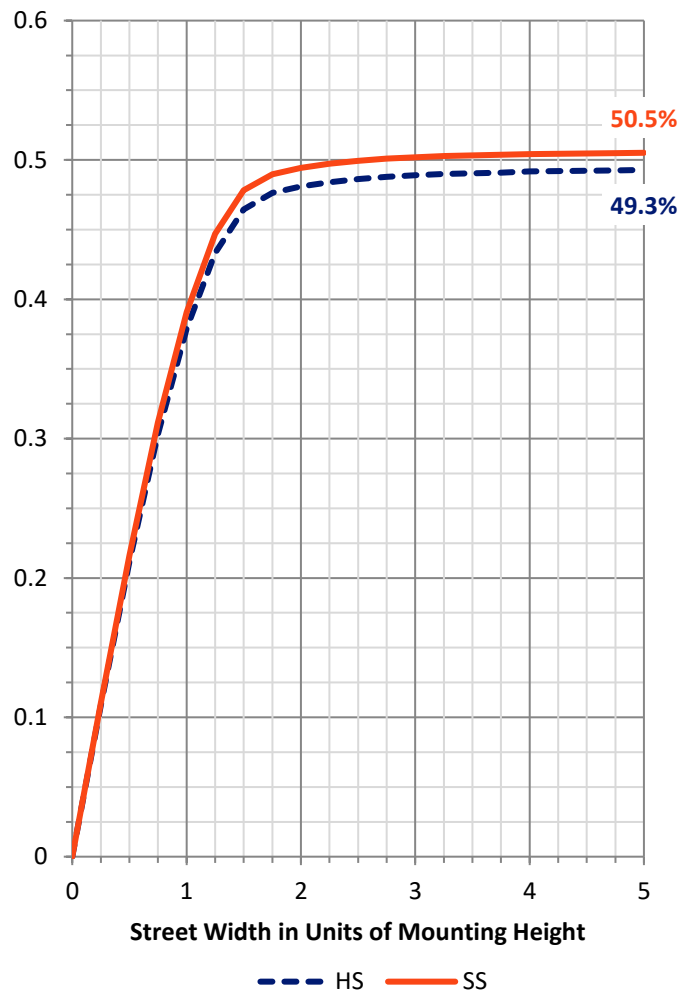
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11939.3 | 0.0 | 11939.3 |
| | % Fixture | 49.5 | 0.0 | 49.5 |
| Street Side | Lumens | 12175.8 | 0.0 | 12175.8 |
| | % Fixture | 50.5 | 0.0 | 50.5 |
| Total | Lumens | 24115.1 | 0.0 | 24115.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 389.7 | 1.6 |
| 10°-20° | 1285.4 | 5.3 |
| 20°-30° | 2448.3 | 10.2 |
| 30°-40° | 4150.4 | 17.2 |
| 40°-50° | 6246.0 | 25.9 |
| 50°-60° | 6836.9 | 28.4 |
| 60°-70° | 2161.8 | 9.0 |
| 70°-80° | 518.8 | 2.2 |
| 80°-90° | 77.9 | 0.3 |
| 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° | 24115.1 | 100.0 |
| 0°-180° | 24115.1 | 100.0 |

Coefficient of Utilization

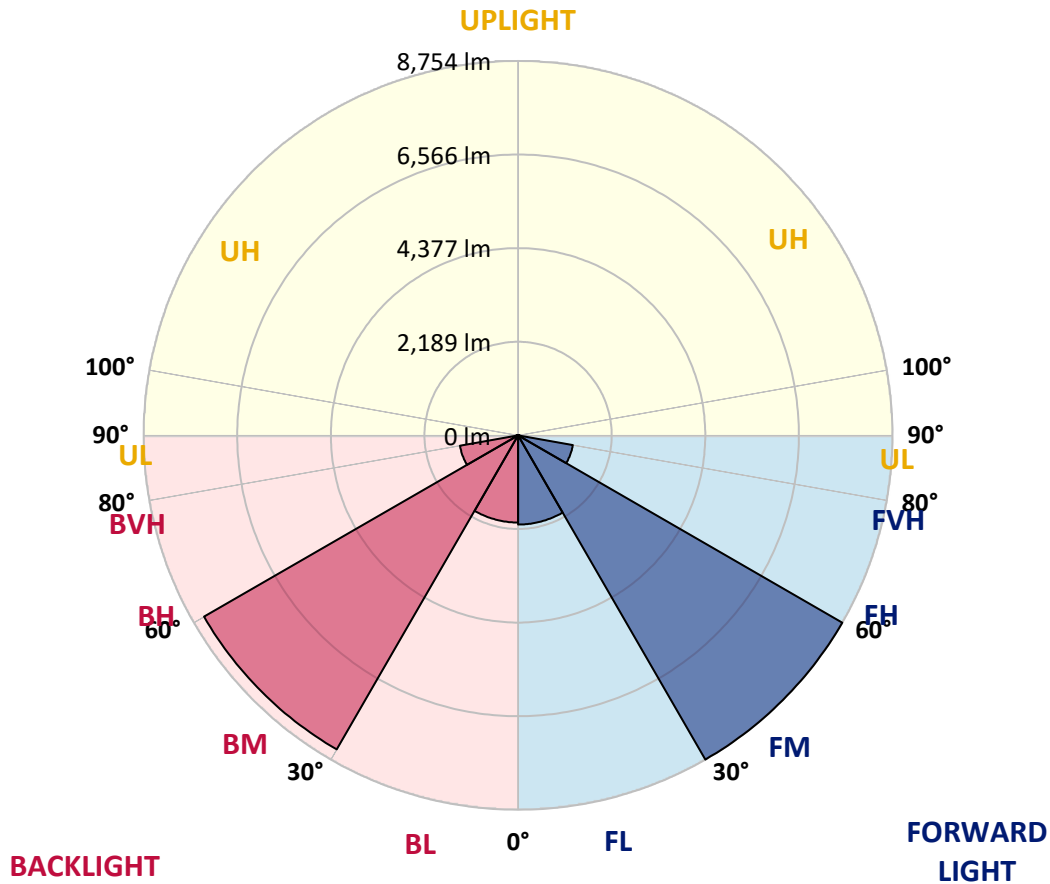


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2085.0 | 8.6 | | | |
| FM (30°-60°) | 8754.4 | 36.3 | | | |
| FH (60°-80°) | 1300.4 | 5.4 | | | G1/1800 |
| FVH (80°-90°) | 36.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2038.4 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 8478.7 | 35.2 | B4/8500 | | |
| BH (60°-80°) | 1380.3 | 5.7 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 41.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 49° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 |
| 2.5° | 3936.0 | 3939.9 | 3947.7 | 3961.5 | 3975.2 | 3994.8 | 4002.7 | 4012.5 | 4010.5 | 4022.3 | 4022.3 |
| 5° | 3916.4 | 3922.3 | 3934.0 | 3953.6 | 3977.2 | 4014.4 | 4024.2 | 4047.8 | 4071.3 | 4100.7 | 4110.5 |
| 7.5° | 3939.9 | 3947.7 | 3961.5 | 3992.9 | 4028.2 | 4077.2 | 4096.8 | 4136.0 | 4181.1 | 4234.1 | 4255.6 |
| 10° | 3985.0 | 3994.8 | 4018.3 | 4069.3 | 4126.2 | 4200.7 | 4218.4 | 4267.4 | 4340.0 | 4412.5 | 4455.7 |
| 12.5° | 4036.0 | 4051.7 | 4094.8 | 4175.2 | 4259.6 | 4357.6 | 4385.1 | 4445.9 | 4524.3 | 4618.5 | 4677.3 |
| 15° | 4094.8 | 4108.6 | 4175.2 | 4289.0 | 4420.4 | 4549.8 | 4581.2 | 4640.0 | 4728.3 | 4820.4 | 4902.8 |
| 17.5° | 4218.4 | 4241.9 | 4320.4 | 4451.8 | 4604.7 | 4757.7 | 4793.0 | 4859.7 | 4930.3 | 5002.8 | 5081.3 |
| 20° | 4387.0 | 4406.6 | 4506.7 | 4669.4 | 4849.9 | 4989.1 | 5024.4 | 5083.2 | 5116.6 | 5153.8 | 5220.5 |
| 22.5° | 4555.7 | 4583.2 | 4696.9 | 4889.1 | 5100.9 | 5251.9 | 5279.3 | 5334.3 | 5310.7 | 5299.0 | 5342.1 |
| 25° | 4765.5 | 4802.8 | 4914.6 | 5124.4 | 5340.1 | 5526.5 | 5548.0 | 5595.1 | 5555.9 | 5495.1 | 5493.1 |
| 27.5° | 5026.4 | 5059.7 | 5175.4 | 5391.1 | 5604.9 | 5799.0 | 5840.2 | 5903.0 | 5816.7 | 5742.2 | 5689.2 |
| 30° | 5336.2 | 5357.8 | 5485.3 | 5714.7 | 5934.4 | 6118.7 | 6171.7 | 6234.4 | 6169.7 | 6046.1 | 5993.2 |
| 32.5° | 5697.1 | 5726.5 | 5873.6 | 6114.8 | 6310.9 | 6495.2 | 6548.2 | 6626.6 | 6556.0 | 6416.8 | 6350.1 |
| 35° | 6130.5 | 6159.9 | 6314.8 | 6577.6 | 6777.6 | 6967.9 | 7005.1 | 7069.9 | 6981.6 | 6820.8 | 6767.8 |
| 37.5° | 6601.1 | 6638.4 | 6834.5 | 7083.6 | 7293.4 | 7515.0 | 7517.0 | 7536.6 | 7411.1 | 7211.1 | 7152.2 |
| 40° | 7130.7 | 7179.7 | 7375.8 | 7634.7 | 7887.6 | 8068.1 | 8066.1 | 8011.2 | 7799.4 | 7489.5 | 7399.3 |
| 42.5° | 7654.3 | 7693.5 | 7891.6 | 8158.3 | 8411.3 | 8581.9 | 8530.9 | 8397.5 | 8091.6 | 7670.0 | 7550.3 |
| 45° | 8032.8 | 8062.2 | 8270.1 | 8570.1 | 8827.0 | 8932.9 | 8840.8 | 8679.9 | 8266.1 | 7783.7 | 7607.2 |
| 47.5° | 8211.2 | 8250.5 | 8460.3 | 8758.4 | 9048.6 | 9109.4 | 8999.6 | 8848.6 | 8368.1 | 7889.6 | 7652.3 |
| 50° | 8115.1 | 8166.1 | 8403.4 | 8679.9 | 9007.4 | 9133.0 | 9054.5 | 8903.5 | 8476.0 | 7993.5 | 7732.7 |
| 52.5° | 7866.1 | 7915.1 | 8215.2 | 8550.5 | 8921.2 | 9170.2 | 9168.3 | 9044.7 | 8599.5 | 8023.0 | 7736.6 |
| 55° | 7014.9 | 7111.0 | 7577.8 | 8156.3 | 8815.3 | 9280.0 | 9327.1 | 9195.7 | 8619.1 | 8030.8 | 7777.8 |
| 57.5° | 4565.5 | 4734.2 | 5177.4 | 5930.4 | 7252.2 | 8440.7 | 8758.4 | 8789.8 | 8477.9 | 7997.5 | 7785.7 |
| 60° | 1906.2 | 2041.5 | 2392.6 | 2892.7 | 3985.0 | 5399.0 | 6014.8 | 6632.5 | 7377.8 | 7648.4 | 7713.1 |
| 62.5° | 1184.5 | 1196.3 | 1231.6 | 1345.3 | 1710.1 | 2400.4 | 2796.6 | 3375.1 | 4483.1 | 5426.4 | 5861.8 |
| 65° | 1068.8 | 1074.7 | 1082.5 | 1074.7 | 1092.3 | 1176.7 | 1282.6 | 1484.6 | 1935.6 | 2404.3 | 2961.3 |
| 67.5° | 941.3 | 949.2 | 955.1 | 949.2 | 955.1 | 959.0 | 970.8 | 988.4 | 1070.8 | 1137.5 | 1188.4 |
| 70° | 760.9 | 772.7 | 782.5 | 778.6 | 802.1 | 802.1 | 813.9 | 827.6 | 868.8 | 917.8 | 953.1 |
| 72.5° | 580.5 | 570.7 | 582.5 | 586.4 | 607.9 | 619.7 | 637.4 | 653.1 | 700.1 | 729.5 | 774.6 |
| 75° | 376.5 | 366.7 | 384.4 | 394.2 | 423.6 | 439.3 | 455.0 | 470.7 | 504.0 | 523.6 | 566.8 |
| 77.5° | 204.0 | 202.0 | 219.6 | 233.4 | 264.8 | 284.4 | 296.1 | 307.9 | 335.4 | 341.2 | 368.7 |
| 80° | 117.7 | 117.7 | 129.4 | 139.2 | 158.9 | 180.4 | 192.2 | 202.0 | 221.6 | 227.5 | 239.3 |
| 82.5° | 64.7 | 64.7 | 70.6 | 76.5 | 92.2 | 103.9 | 113.7 | 121.6 | 139.2 | 145.1 | 151.0 |
| 85° | 31.4 | 29.4 | 33.3 | 37.3 | 43.1 | 49.0 | 54.9 | 58.8 | 72.6 | 76.5 | 84.3 |
| 87.5° | 3.9 | 3.9 | 3.9 | 5.9 | 7.8 | 11.8 | 13.7 | 13.7 | 21.6 | 25.5 | 29.4 |
| 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: GWS-SA5D-730-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 | 3994.8 |
| 2.5° | 4034.0 | 4008.5 | 4024.2 | 4030.1 | 4030.1 | 4024.2 | 3998.7 | 3990.9 | 3979.1 | 3961.5 | 3961.5 |
| 5° | 4124.2 | 4104.6 | 4108.6 | 4098.8 | 4075.2 | 4045.8 | 3998.7 | 3975.2 | 3955.6 | 3934.0 | 3932.1 |
| 7.5° | 4279.2 | 4253.7 | 4249.8 | 4212.5 | 4149.7 | 4087.0 | 4016.4 | 3973.2 | 3943.8 | 3916.4 | 3914.4 |
| 10° | 4481.2 | 4457.6 | 4428.2 | 4353.7 | 4261.5 | 4169.4 | 4073.3 | 4014.4 | 3971.3 | 3932.1 | 3930.1 |
| 12.5° | 4706.7 | 4679.2 | 4624.3 | 4514.5 | 4398.8 | 4308.6 | 4198.8 | 4108.6 | 4043.8 | 3990.9 | 3981.1 |
| 15° | 4951.8 | 4912.6 | 4818.5 | 4689.1 | 4575.3 | 4479.2 | 4361.5 | 4232.1 | 4134.1 | 4049.7 | 4039.9 |
| 17.5° | 5140.1 | 5089.1 | 4987.1 | 4865.6 | 4771.4 | 4675.3 | 4522.4 | 4359.6 | 4218.4 | 4112.5 | 4096.8 |
| 20° | 5269.5 | 5228.4 | 5112.7 | 5022.4 | 4967.5 | 4883.2 | 4704.7 | 4520.4 | 4361.5 | 4228.2 | 4220.3 |
| 22.5° | 5389.2 | 5340.1 | 5226.4 | 5173.4 | 5173.4 | 5116.6 | 4946.0 | 4728.3 | 4542.0 | 4387.0 | 4367.4 |
| 25° | 5524.5 | 5471.5 | 5385.3 | 5379.4 | 5406.8 | 5381.3 | 5175.4 | 4942.0 | 4724.4 | 4549.8 | 4518.4 |
| 27.5° | 5712.8 | 5653.9 | 5602.9 | 5638.2 | 5677.5 | 5650.0 | 5420.6 | 5149.9 | 4920.5 | 4744.0 | 4716.5 |
| 30° | 6012.8 | 5940.2 | 5893.2 | 5936.3 | 6012.8 | 5932.4 | 5683.3 | 5397.0 | 5165.6 | 4971.5 | 4957.7 |
| 32.5° | 6361.9 | 6279.5 | 6230.5 | 6299.1 | 6367.8 | 6242.3 | 5995.2 | 5720.6 | 5477.4 | 5273.5 | 5249.9 |
| 35° | 6781.6 | 6677.6 | 6605.1 | 6697.2 | 6767.8 | 6644.3 | 6399.2 | 6138.3 | 5867.7 | 5655.9 | 5624.5 |
| 37.5° | 7154.2 | 7028.7 | 6979.6 | 7109.1 | 7203.2 | 7122.8 | 6856.1 | 6611.0 | 6314.8 | 6083.4 | 6069.7 |
| 40° | 7424.8 | 7301.3 | 7266.0 | 7479.7 | 7644.5 | 7624.9 | 7385.6 | 7105.2 | 6826.7 | 6560.0 | 6534.5 |
| 42.5° | 7542.5 | 7456.2 | 7464.0 | 7752.3 | 8007.3 | 8132.8 | 7919.0 | 7619.0 | 7350.3 | 7073.8 | 7056.1 |
| 45° | 7568.0 | 7515.0 | 7577.8 | 7938.6 | 8274.0 | 8530.9 | 8348.5 | 8097.5 | 7793.5 | 7526.8 | 7519.0 |
| 47.5° | 7595.4 | 7566.0 | 7662.1 | 8044.5 | 8442.6 | 8740.7 | 8638.8 | 8379.9 | 8072.0 | 7811.2 | 7791.6 |
| 50° | 7660.2 | 7648.4 | 7756.3 | 8119.1 | 8523.1 | 8797.6 | 8681.9 | 8425.0 | 8109.3 | 7852.3 | 7805.3 |
| 52.5° | 7679.8 | 7660.2 | 7815.1 | 8234.8 | 8656.4 | 8795.6 | 8546.6 | 8211.2 | 7893.5 | 7607.2 | 7558.2 |
| 55° | 7740.6 | 7705.3 | 7811.2 | 8277.9 | 8840.8 | 8909.4 | 8538.7 | 8036.7 | 7593.5 | 7203.2 | 7087.5 |
| 57.5° | 7756.3 | 7717.0 | 7785.7 | 8207.3 | 8640.7 | 8579.9 | 7505.2 | 6485.4 | 5650.0 | 5216.6 | 5265.6 |
| 60° | 7671.9 | 7683.7 | 7566.0 | 7519.0 | 6930.6 | 6118.7 | 4594.9 | 3673.2 | 2884.8 | 2551.4 | 2624.0 |
| 62.5° | 5840.2 | 5889.3 | 5487.2 | 4771.4 | 3669.3 | 2908.3 | 1923.9 | 1494.4 | 1264.9 | 1206.1 | 1215.9 |
| 65° | 2947.6 | 3014.2 | 2596.5 | 2147.4 | 1596.4 | 1290.4 | 1115.9 | 1080.6 | 1068.8 | 1055.1 | 1055.1 |
| 67.5° | 1166.9 | 1186.5 | 1170.8 | 1096.3 | 1019.8 | 992.3 | 984.5 | 980.6 | 966.8 | 959.0 | 961.0 |
| 70° | 937.4 | 953.1 | 929.6 | 882.5 | 851.1 | 849.2 | 845.2 | 837.4 | 827.6 | 827.6 | 833.5 |
| 72.5° | 764.8 | 780.5 | 747.2 | 717.8 | 694.2 | 676.6 | 666.8 | 660.9 | 647.2 | 647.2 | 653.1 |
| 75° | 562.8 | 572.6 | 545.2 | 541.3 | 515.8 | 498.1 | 482.4 | 474.6 | 456.9 | 449.1 | 455.0 |
| 77.5° | 374.6 | 372.6 | 358.9 | 358.9 | 349.1 | 327.5 | 309.9 | 292.2 | 268.7 | 253.0 | 256.9 |
| 80° | 243.2 | 243.2 | 237.3 | 237.3 | 227.5 | 209.8 | 188.3 | 170.6 | 156.9 | 145.1 | 145.1 |
| 82.5° | 154.9 | 153.0 | 151.0 | 149.0 | 145.1 | 127.5 | 111.8 | 100.0 | 90.2 | 82.4 | 84.3 |
| 85° | 86.3 | 86.3 | 82.4 | 82.4 | 74.5 | 64.7 | 56.9 | 49.0 | 43.1 | 41.2 | 41.2 |
| 87.5° | 29.4 | 29.4 | 27.5 | 27.5 | 23.5 | 17.7 | 13.7 | 11.8 | 9.8 | 7.8 | 9.8 |
| 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)