

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: P640950

Luminaire Tested: GWS-SA5E-830-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-830-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24153.3 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

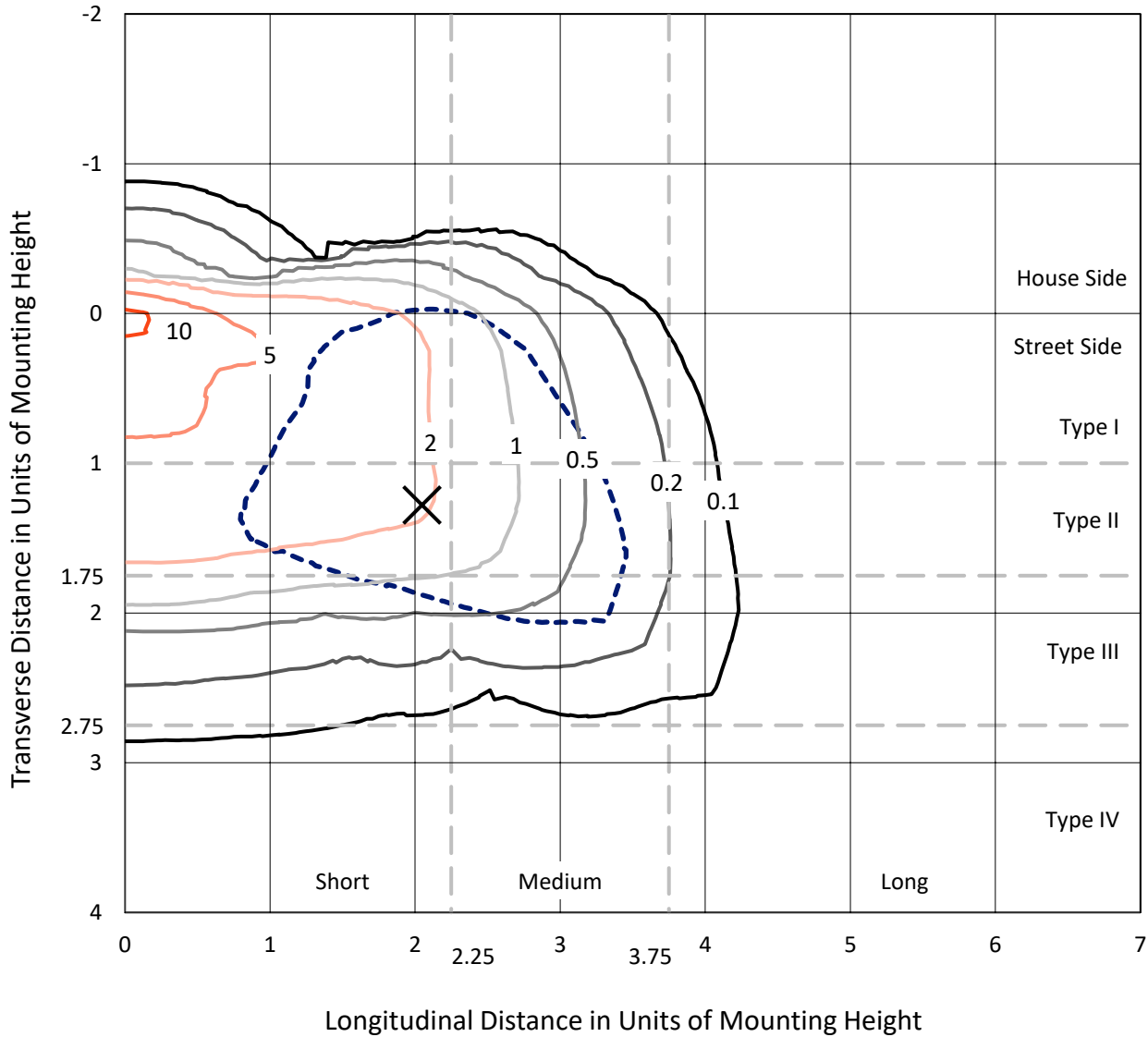
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

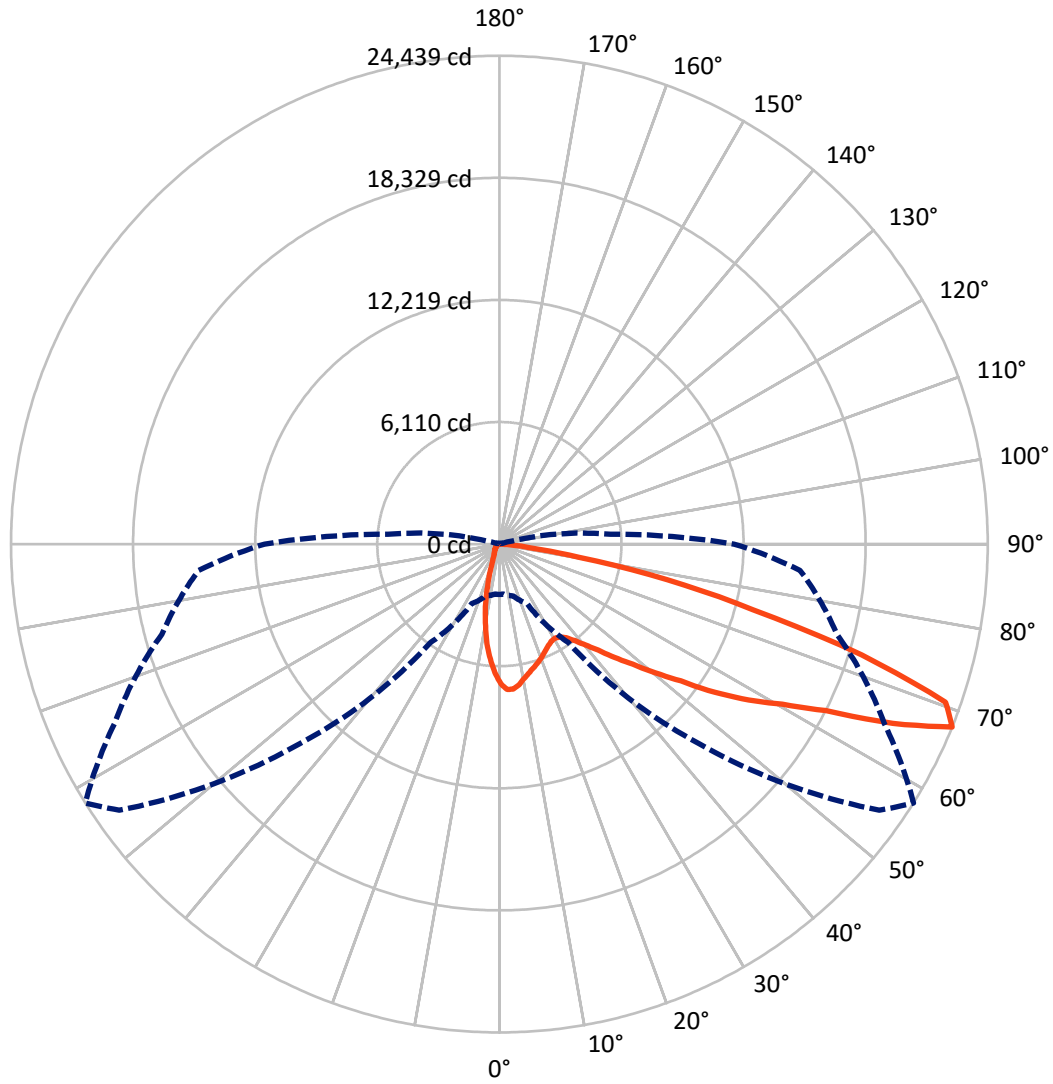
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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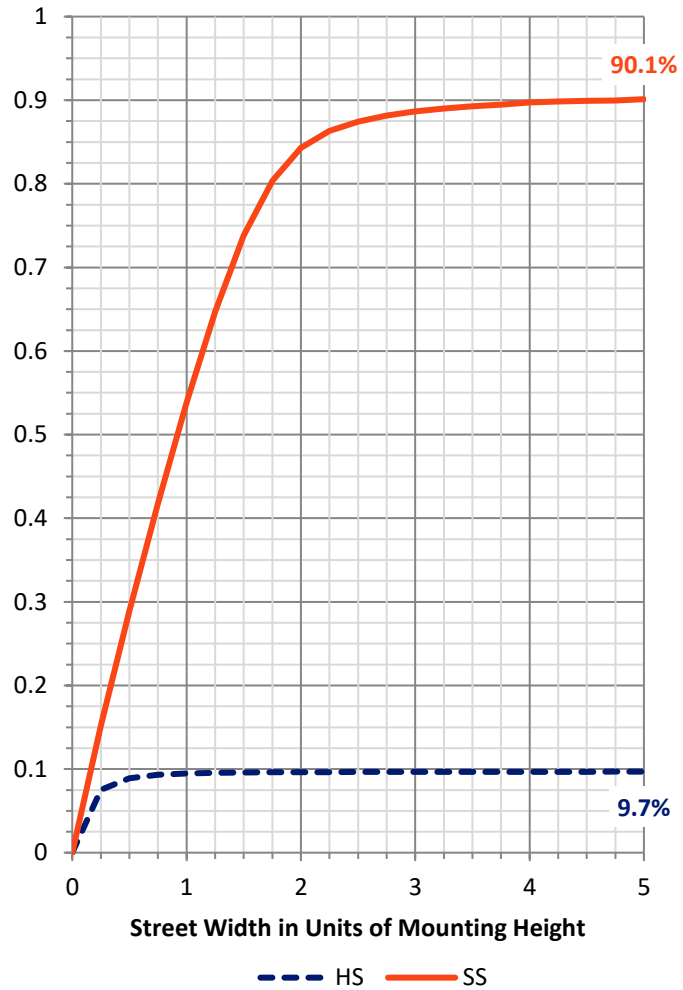
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2359.6 | 0.0 | 2359.6 |
| | % Fixture | 9.8 | 0.0 | 9.8 |
| Street Side | Lumens | 21793.7 | 0.0 | 21793.7 |
| | % Fixture | 90.2 | 0.0 | 90.2 |
| Total | Lumens | 24153.3 | 0.0 | 24153.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 566.1 | 2.3 |
| 10°-20° | 1178.5 | 4.9 |
| 20°-30° | 1589.3 | 6.6 |
| 30°-40° | 2233.2 | 9.2 |
| 40°-50° | 3449.0 | 14.3 |
| 50°-60° | 5515.5 | 22.8 |
| 60°-70° | 6530.7 | 27.0 |
| 70°-80° | 2889.0 | 12.0 |
| 80°-90° | 202.0 | 0.8 |
| 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° | 24153.3 | 100.0 |
| 0°-180° | 24153.3 | 100.0 |

Coefficient of Utilization



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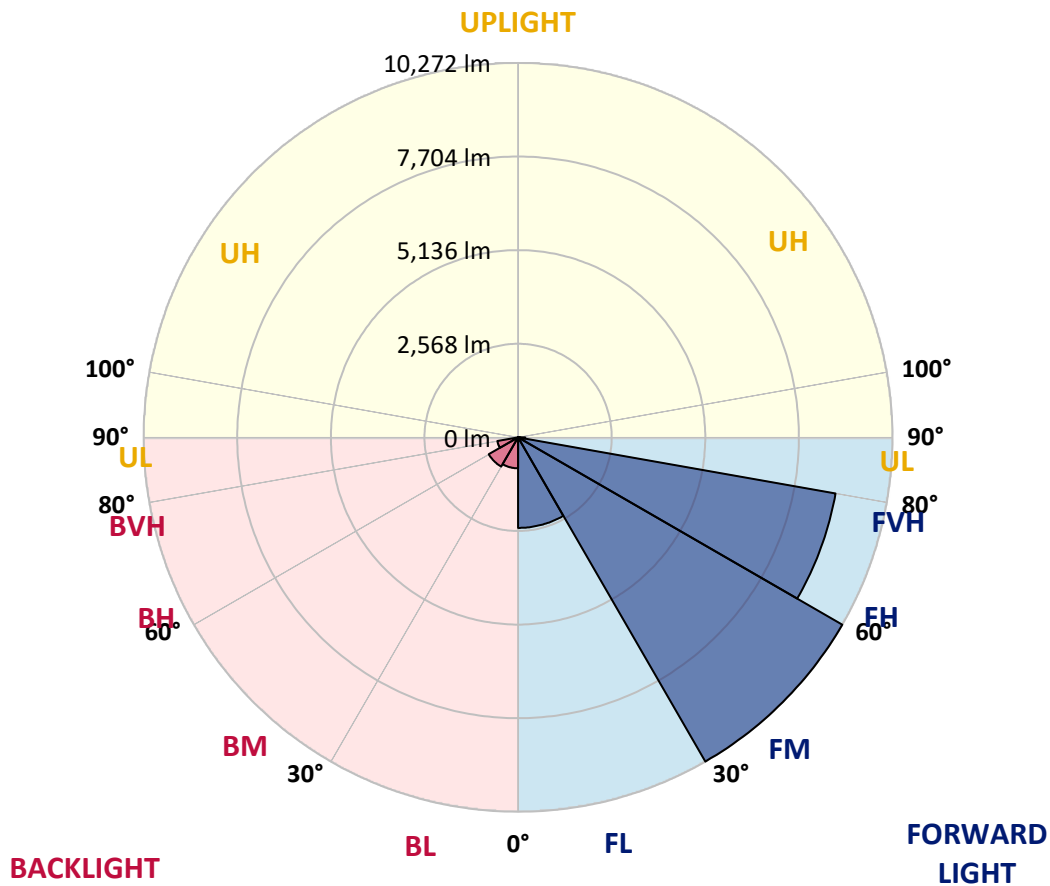
CATALOG NUMBER: GWS-SA5E-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2484.8 | 10.3 | | | |
| FM (30°-60°) | 10271.9 | 42.5 | | | |
| FH (60°-80°) | 8843.7 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 193.4 | 0.8 | | | G2/225 |
| BL (0°-30°) | 849.1 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 925.8 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 576.1 | 2.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 |
| 2.5° | 7328.2 | 7341.1 | 7358.2 | 7379.5 | 7375.3 | 7356.0 | 7332.5 | 7279.1 | 7244.9 | 7138.0 | 7007.6 |
| 5° | 7093.1 | 7090.9 | 7133.7 | 7174.3 | 7247.0 | 7285.5 | 7338.9 | 7289.7 | 7272.6 | 7144.4 | 6932.7 |
| 7.5° | 6633.5 | 6657.0 | 6706.1 | 6770.3 | 6875.0 | 6988.3 | 7116.6 | 7101.6 | 7152.9 | 7067.4 | 6804.5 |
| 10° | 6182.4 | 6169.6 | 6246.5 | 6342.7 | 6503.1 | 6648.4 | 6834.4 | 6832.3 | 6966.9 | 6958.4 | 6659.1 |
| 12.5° | 5786.9 | 5784.8 | 5844.6 | 5953.6 | 6141.8 | 6344.9 | 6597.1 | 6603.5 | 6770.3 | 6838.7 | 6535.1 |
| 15° | 5453.4 | 5457.7 | 5515.4 | 5628.7 | 5823.2 | 6071.2 | 6364.1 | 6417.5 | 6605.7 | 6744.6 | 6413.3 |
| 17.5° | 5216.1 | 5218.3 | 5252.5 | 5350.8 | 5541.1 | 5806.1 | 6158.9 | 6231.6 | 6473.1 | 6674.1 | 6314.9 |
| 20° | 5107.1 | 5098.5 | 5105.0 | 5154.1 | 5301.6 | 5543.2 | 5949.4 | 6043.4 | 6351.3 | 6624.9 | 6225.1 |
| 22.5° | 5122.1 | 5109.2 | 5079.3 | 5072.9 | 5139.2 | 5323.0 | 5727.0 | 5842.5 | 6218.7 | 6595.0 | 6143.9 |
| 25° | 5254.6 | 5226.8 | 5184.1 | 5119.9 | 5094.3 | 5186.2 | 5532.5 | 5652.2 | 6094.7 | 6597.1 | 6081.9 |
| 27.5° | 5457.7 | 5427.8 | 5374.3 | 5288.8 | 5188.3 | 5149.9 | 5400.0 | 5513.3 | 6007.1 | 6646.3 | 6052.0 |
| 30° | 5716.4 | 5692.8 | 5641.5 | 5538.9 | 5404.2 | 5246.1 | 5372.2 | 5466.2 | 5964.3 | 6746.8 | 6064.8 |
| 32.5° | 6022.1 | 6005.0 | 5962.2 | 5868.1 | 5714.2 | 5472.7 | 5466.2 | 5538.9 | 5998.5 | 6892.1 | 6114.0 |
| 35° | 6317.1 | 6323.5 | 6325.6 | 6274.3 | 6109.7 | 5816.8 | 5724.9 | 5750.6 | 6139.6 | 7110.2 | 6225.1 |
| 37.5° | 6635.6 | 6620.6 | 6697.6 | 6733.9 | 6575.7 | 6263.6 | 6124.7 | 6126.8 | 6409.0 | 7433.0 | 6434.6 |
| 40° | 6877.2 | 6881.4 | 7048.2 | 7197.8 | 7131.6 | 6830.1 | 6631.3 | 6629.2 | 6823.7 | 7875.5 | 6772.4 |
| 42.5° | 7103.8 | 7131.6 | 7377.4 | 7633.9 | 7725.8 | 7458.6 | 7315.4 | 7262.0 | 7405.2 | 8474.1 | 7279.1 |
| 45° | 7345.3 | 7385.9 | 7730.1 | 8095.7 | 8337.2 | 8179.1 | 8065.8 | 8087.1 | 8104.2 | 9171.0 | 7961.0 |
| 47.5° | 7627.5 | 7653.2 | 8078.6 | 8593.8 | 9044.8 | 9004.2 | 9010.6 | 8985.0 | 8976.4 | 10049.6 | 8863.1 |
| 50° | 7969.6 | 8029.4 | 8519.0 | 9134.6 | 9750.3 | 10019.7 | 10109.4 | 10120.1 | 9981.2 | 11007.3 | 9797.3 |
| 52.5° | 8696.4 | 8769.1 | 9188.1 | 9726.8 | 10519.9 | 11086.4 | 11452.0 | 11379.3 | 11165.5 | 11935.1 | 10821.3 |
| 55° | 9553.6 | 9609.2 | 10013.2 | 10571.2 | 11460.5 | 12255.8 | 13123.7 | 13093.8 | 12570.0 | 12912.0 | 11663.6 |
| 57.5° | 9634.9 | 9696.9 | 10323.2 | 11178.3 | 12668.3 | 13700.9 | 14613.7 | 14709.9 | 13942.4 | 13604.7 | 12416.1 |
| 60° | 8722.0 | 8848.2 | 9703.3 | 10853.4 | 13130.1 | 15644.1 | 16246.9 | 16266.2 | 14949.3 | 14308.0 | 13335.3 |
| 62.5° | 6990.5 | 7050.3 | 7911.8 | 9412.5 | 12418.2 | 16777.1 | 18741.7 | 18335.5 | 16242.7 | 15396.1 | 14791.1 |
| 65° | 3664.1 | 3907.8 | 4658.2 | 6319.2 | 10071.0 | 16381.6 | 21743.1 | 21631.9 | 18568.5 | 16954.5 | 15924.1 |
| 67.5° | 2514.0 | 2511.9 | 2689.3 | 3294.3 | 6005.0 | 14104.9 | 23216.0 | 24438.8 | 21257.8 | 17489.0 | 15103.2 |
| 70° | 1913.3 | 1919.7 | 2077.9 | 2471.2 | 3110.4 | 9389.0 | 21599.9 | 23690.6 | 21758.1 | 15879.2 | 12215.1 |
| 72.5° | 1269.8 | 1282.7 | 1545.6 | 1996.7 | 2484.1 | 4602.6 | 16785.7 | 18955.5 | 18307.7 | 12753.8 | 8598.1 |
| 75° | 758.9 | 769.6 | 957.7 | 1451.5 | 2208.3 | 2576.0 | 10665.3 | 13104.4 | 12602.1 | 8790.5 | 4609.0 |
| 77.5° | 312.1 | 320.7 | 491.7 | 904.3 | 1616.1 | 2000.9 | 5898.1 | 8574.5 | 7548.4 | 3495.2 | 1259.1 |
| 80° | 130.4 | 134.7 | 237.3 | 632.8 | 1165.1 | 1254.9 | 2732.1 | 4029.7 | 3093.3 | 752.5 | 384.8 |
| 82.5° | 47.0 | 49.2 | 87.6 | 348.5 | 724.7 | 944.9 | 1378.9 | 1592.6 | 872.2 | 245.8 | 207.4 |
| 85° | 2.1 | 2.1 | 21.4 | 117.6 | 275.8 | 267.2 | 788.8 | 763.2 | 288.6 | 102.6 | 124.0 |
| 87.5° | 0.0 | 0.0 | 2.1 | 2.1 | 4.3 | 10.7 | 74.8 | 132.5 | 62.0 | 25.7 | 53.4 |
| 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-SA5E-830-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 | 6966.9 |
| 2.5° | 6922.1 | 6808.8 | 6684.8 | 6569.3 | 6385.5 | 6276.5 | 6141.8 | 6081.9 | 5996.4 | 5975.0 | 5987.9 |
| 5° | 6781.0 | 6586.4 | 6289.3 | 6019.9 | 5671.5 | 5391.4 | 5109.2 | 4989.5 | 4835.6 | 4733.0 | 4690.2 |
| 7.5° | 6582.1 | 6327.8 | 5863.9 | 5374.3 | 4895.5 | 4384.5 | 3995.5 | 3738.9 | 3505.9 | 3377.7 | 3352.0 |
| 10° | 6381.2 | 6049.8 | 5385.0 | 4683.8 | 3942.0 | 3330.6 | 2804.7 | 2415.7 | 2099.3 | 1956.0 | 1844.9 |
| 12.5° | 6173.8 | 5761.3 | 4897.6 | 3982.6 | 3121.1 | 2287.4 | 1637.5 | 1259.1 | 1032.5 | 942.8 | 957.7 |
| 15° | 5983.6 | 5483.3 | 4414.5 | 3281.5 | 2197.6 | 1381.0 | 904.3 | 763.2 | 709.7 | 692.6 | 690.5 |
| 17.5° | 5801.9 | 5220.4 | 3933.5 | 2599.5 | 1449.4 | 846.6 | 692.6 | 658.4 | 643.5 | 634.9 | 634.9 |
| 20° | 5637.3 | 4968.1 | 3463.2 | 1958.2 | 936.3 | 671.3 | 626.4 | 609.3 | 596.4 | 590.0 | 590.0 |
| 22.5° | 5483.3 | 4724.4 | 3003.5 | 1385.3 | 690.5 | 602.8 | 575.1 | 558.0 | 543.0 | 534.4 | 534.4 |
| 25° | 5344.4 | 4504.3 | 2565.3 | 953.4 | 594.3 | 551.5 | 521.6 | 502.4 | 476.7 | 461.8 | 461.8 |
| 27.5° | 5243.9 | 4307.6 | 2144.2 | 694.8 | 536.6 | 496.0 | 461.8 | 436.1 | 408.3 | 391.2 | 386.9 |
| 30° | 5184.1 | 4140.8 | 1718.8 | 570.8 | 483.1 | 442.5 | 404.0 | 372.0 | 339.9 | 322.8 | 320.7 |
| 32.5° | 5149.9 | 3986.9 | 1329.7 | 498.1 | 438.2 | 391.2 | 348.5 | 314.3 | 282.2 | 262.9 | 260.8 |
| 35° | 5162.7 | 3867.2 | 996.2 | 448.9 | 395.5 | 346.3 | 299.3 | 265.1 | 237.3 | 220.2 | 215.9 |
| 37.5° | 5273.8 | 3813.8 | 748.2 | 410.4 | 359.1 | 307.8 | 258.7 | 226.6 | 200.9 | 188.1 | 186.0 |
| 40° | 5489.8 | 3824.4 | 587.9 | 380.5 | 329.2 | 269.4 | 222.3 | 192.4 | 173.2 | 162.5 | 160.3 |
| 42.5° | 5825.4 | 3914.2 | 485.3 | 354.9 | 297.1 | 235.2 | 192.4 | 168.9 | 149.6 | 139.0 | 136.8 |
| 45° | 6325.6 | 4100.2 | 423.3 | 324.9 | 262.9 | 203.1 | 166.7 | 145.4 | 128.3 | 115.4 | 113.3 |
| 47.5° | 7050.3 | 4423.0 | 382.7 | 297.1 | 233.0 | 175.3 | 143.2 | 121.9 | 106.9 | 96.2 | 94.1 |
| 50° | 7822.0 | 4809.9 | 348.5 | 269.4 | 207.4 | 151.8 | 121.9 | 100.5 | 87.6 | 77.0 | 74.8 |
| 52.5° | 8645.1 | 5226.8 | 322.8 | 243.7 | 183.8 | 130.4 | 102.6 | 83.4 | 70.5 | 59.9 | 57.7 |
| 55° | 9436.1 | 5645.8 | 292.9 | 226.6 | 156.1 | 111.2 | 85.5 | 68.4 | 55.6 | 47.0 | 47.0 |
| 57.5° | 10205.6 | 6030.6 | 260.8 | 198.8 | 128.3 | 94.1 | 70.5 | 55.6 | 44.9 | 38.5 | 36.3 |
| 60° | 11124.9 | 6562.9 | 224.5 | 168.9 | 106.9 | 79.1 | 57.7 | 44.9 | 36.3 | 29.9 | 29.9 |
| 62.5° | 12490.9 | 7116.6 | 192.4 | 141.1 | 89.8 | 66.3 | 47.0 | 36.3 | 29.9 | 25.7 | 23.5 |
| 65° | 12937.7 | 6817.3 | 162.5 | 115.4 | 72.7 | 53.4 | 38.5 | 32.1 | 25.7 | 23.5 | 21.4 |
| 67.5° | 11744.8 | 5588.1 | 134.7 | 94.1 | 59.9 | 44.9 | 34.2 | 27.8 | 23.5 | 21.4 | 19.2 |
| 70° | 9164.6 | 3965.5 | 104.8 | 70.5 | 49.2 | 36.3 | 29.9 | 25.7 | 21.4 | 19.2 | 19.2 |
| 72.5° | 6233.7 | 2345.1 | 83.4 | 53.4 | 40.6 | 32.1 | 25.7 | 23.5 | 21.4 | 19.2 | 17.1 |
| 75° | 3069.8 | 833.7 | 64.1 | 40.6 | 32.1 | 27.8 | 23.5 | 21.4 | 19.2 | 17.1 | 17.1 |
| 77.5° | 827.3 | 230.9 | 49.2 | 32.1 | 25.7 | 21.4 | 21.4 | 21.4 | 19.2 | 15.0 | 15.0 |
| 80° | 280.0 | 96.2 | 36.3 | 23.5 | 21.4 | 17.1 | 15.0 | 19.2 | 17.1 | 15.0 | 12.8 |
| 82.5° | 153.9 | 47.0 | 25.7 | 19.2 | 15.0 | 12.8 | 12.8 | 12.8 | 12.8 | 10.7 | 10.7 |
| 85° | 98.3 | 25.7 | 17.1 | 15.0 | 15.0 | 10.7 | 8.6 | 8.6 | 6.4 | 6.4 | 6.4 |
| 87.5° | 44.9 | 15.0 | 15.0 | 12.8 | 12.8 | 10.7 | 6.4 | 4.3 | 2.1 | 2.1 | 2.1 |
| 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)