

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: P322357

Luminaire Tested: **GLEON-SA3B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9346 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

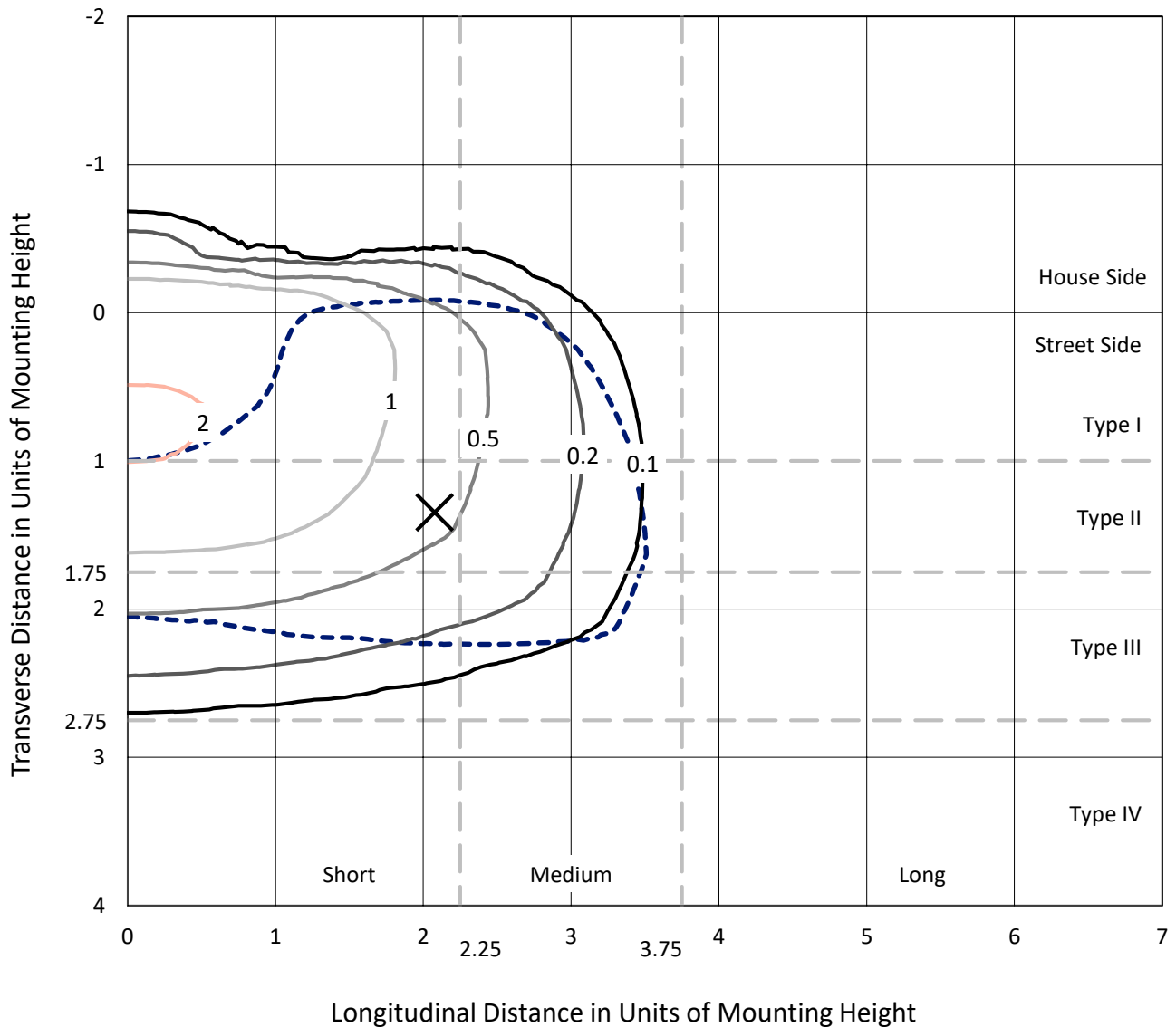
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

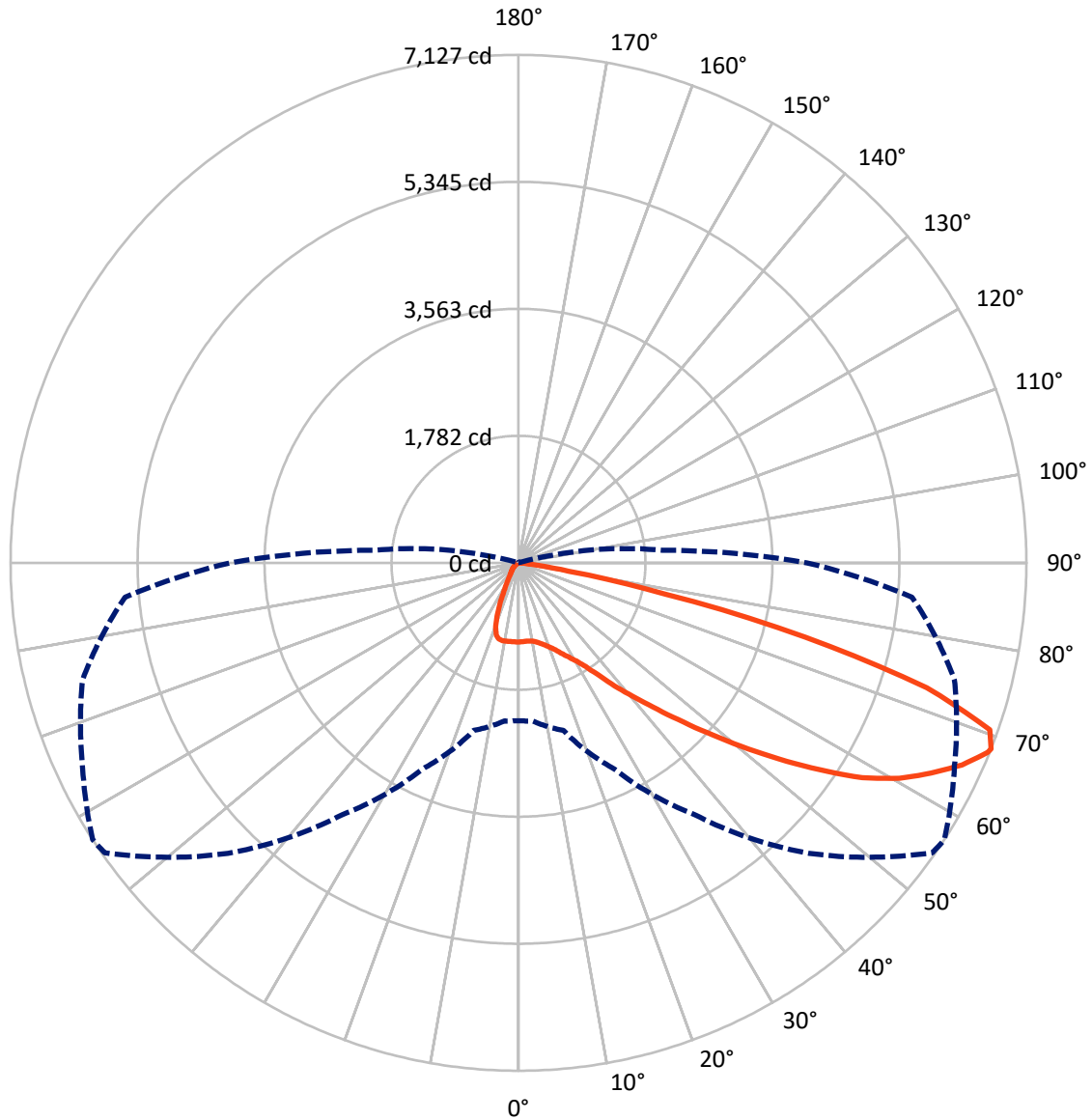
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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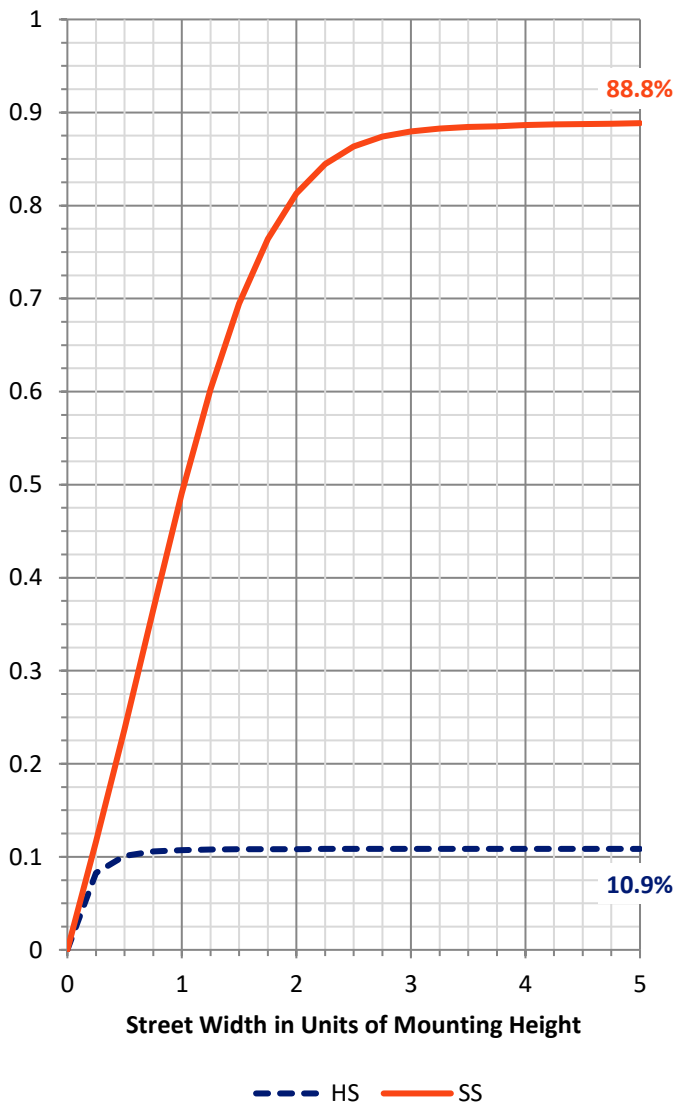
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1024.8 | 0.0 | 1024.8 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 8321.2 | 0.0 | 8321.2 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 9346.0 | 0.0 | 9346.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.9 | 1.1 |
| 10°-20° | 288.0 | 3.1 |
| 20°-30° | 496.8 | 5.3 |
| 30°-40° | 857.5 | 9.2 |
| 40°-50° | 1466.8 | 15.7 |
| 50°-60° | 2346.7 | 25.1 |
| 60°-70° | 2711.4 | 29.0 |
| 70°-80° | 1036.1 | 11.1 |
| 80°-90° | 38.8 | 0.4 |
| 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° | 9346.0 | 100.0 |
| 0°-180° | 9346.0 | 100.0 |

Coefficient of Utilization



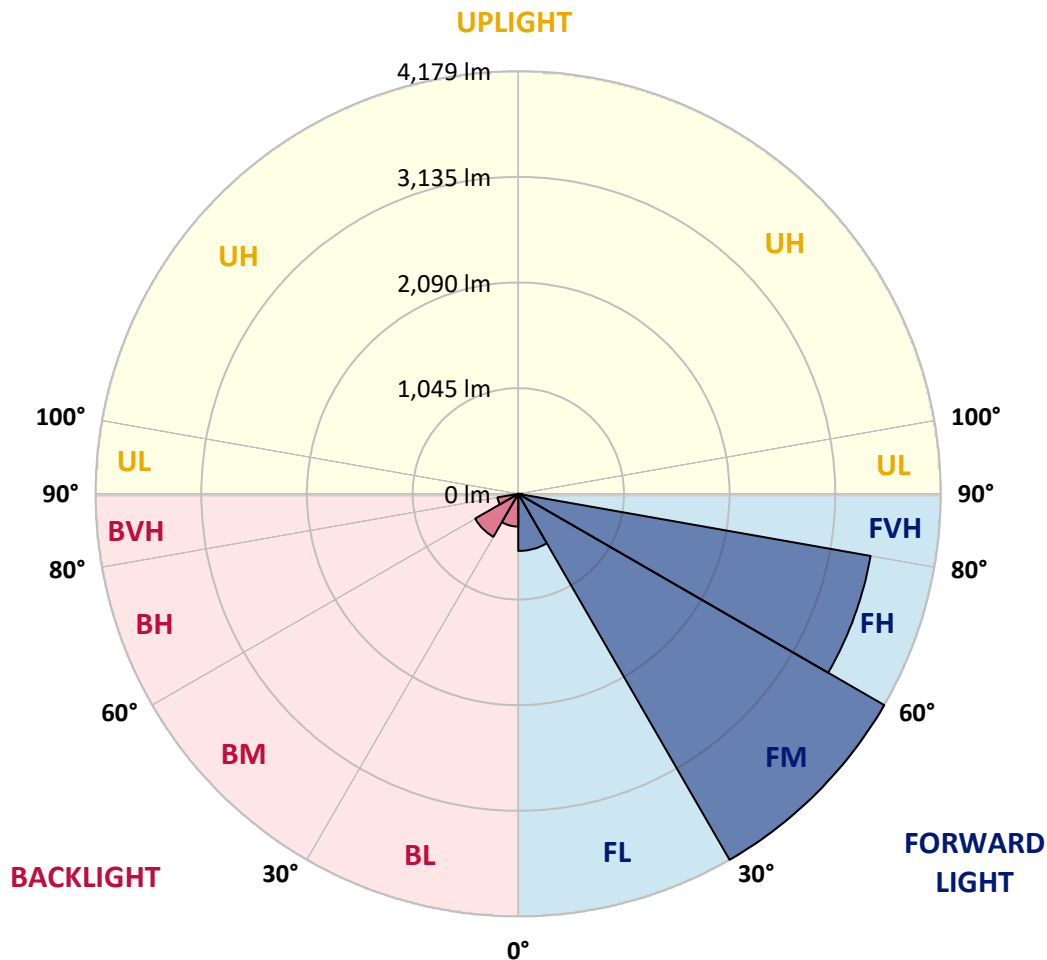
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 564.9 | 6.0 | | | |
| FM (30°-60°) | 4179.5 | 44.7 | | | |
| FH (60°-80°) | 3538.7 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 38.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 323.9 | 3.5 | B1/500 | | |
| BM (30°-60°) | 491.5 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 208.7 | 2.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 |
| 2.5° | 1084.5 | 1089.3 | 1092.9 | 1095.1 | 1097.7 | 1103.5 | 1105.2 | 1107.9 | 1109.2 | 1109.2 | 1112.3 |
| 5° | 1041.6 | 1046.9 | 1054.4 | 1060.6 | 1073.0 | 1088.9 | 1100.4 | 1104.8 | 1112.8 | 1119.8 | 1123.8 |
| 7.5° | 1001.8 | 1008.0 | 1016.9 | 1031.4 | 1052.7 | 1078.3 | 1102.2 | 1108.3 | 1123.8 | 1138.8 | 1146.3 |
| 10° | 976.2 | 981.1 | 992.6 | 1013.3 | 1041.2 | 1077.0 | 1110.6 | 1118.1 | 1144.6 | 1169.8 | 1183.9 |
| 12.5° | 967.4 | 971.8 | 983.7 | 1007.1 | 1041.6 | 1083.6 | 1130.0 | 1141.0 | 1179.9 | 1216.6 | 1236.5 |
| 15° | 980.2 | 981.1 | 993.9 | 1016.0 | 1050.0 | 1099.9 | 1162.3 | 1175.5 | 1224.6 | 1272.3 | 1297.0 |
| 17.5° | 1029.7 | 1025.7 | 1032.3 | 1042.1 | 1069.0 | 1121.6 | 1196.3 | 1216.2 | 1281.6 | 1337.7 | 1361.1 |
| 20° | 1153.4 | 1153.4 | 1138.4 | 1111.9 | 1112.3 | 1155.2 | 1242.2 | 1264.8 | 1344.8 | 1409.7 | 1430.9 |
| 22.5° | 1365.1 | 1361.1 | 1331.1 | 1266.1 | 1206.4 | 1213.1 | 1298.4 | 1327.5 | 1420.8 | 1490.2 | 1497.2 |
| 25° | 1619.6 | 1614.8 | 1568.4 | 1476.9 | 1373.5 | 1306.8 | 1374.4 | 1408.0 | 1511.4 | 1572.8 | 1558.2 |
| 27.5° | 1889.2 | 1885.2 | 1839.3 | 1725.7 | 1578.5 | 1456.1 | 1465.0 | 1496.8 | 1603.7 | 1664.3 | 1617.9 |
| 30° | 2150.4 | 2151.7 | 2106.2 | 1989.5 | 1822.9 | 1646.6 | 1579.9 | 1598.4 | 1693.4 | 1754.9 | 1688.6 |
| 32.5° | 2398.8 | 2400.5 | 2361.2 | 2230.8 | 2075.3 | 1868.0 | 1739.0 | 1734.1 | 1797.7 | 1858.3 | 1782.3 |
| 35° | 2620.2 | 2624.6 | 2597.6 | 2496.4 | 2331.6 | 2114.6 | 1945.3 | 1933.9 | 1945.8 | 2014.3 | 1925.9 |
| 37.5° | 2833.6 | 2836.3 | 2815.9 | 2730.6 | 2592.8 | 2385.5 | 2206.1 | 2189.7 | 2164.1 | 2216.7 | 2115.5 |
| 40° | 3067.4 | 3060.8 | 3037.3 | 2960.0 | 2841.6 | 2684.7 | 2486.3 | 2458.0 | 2413.3 | 2460.2 | 2364.7 |
| 42.5° | 3284.8 | 3277.3 | 3281.3 | 3193.8 | 3093.9 | 2992.3 | 2812.8 | 2764.2 | 2738.2 | 2792.1 | 2670.5 |
| 45° | 3556.6 | 3552.6 | 3565.9 | 3489.9 | 3409.0 | 3335.2 | 3187.1 | 3134.1 | 3122.6 | 3185.8 | 3040.4 |
| 47.5° | 3824.8 | 3834.6 | 3875.7 | 3843.4 | 3810.7 | 3745.7 | 3583.5 | 3559.7 | 3566.8 | 3643.2 | 3430.6 |
| 50° | 4048.5 | 4059.9 | 4172.6 | 4209.8 | 4257.0 | 4219.0 | 4056.4 | 4041.8 | 4069.7 | 4138.6 | 3850.5 |
| 52.5° | 4210.2 | 4233.6 | 4373.7 | 4544.7 | 4717.1 | 4742.7 | 4580.5 | 4567.3 | 4604.8 | 4615.4 | 4174.8 |
| 55° | 4322.4 | 4343.2 | 4501.9 | 4814.7 | 5165.6 | 5276.1 | 5175.4 | 5124.1 | 5117.0 | 5012.3 | 4516.0 |
| 57.5° | 4342.3 | 4340.1 | 4568.2 | 4989.3 | 5517.4 | 5802.4 | 5738.8 | 5688.4 | 5543.5 | 5379.1 | 4907.1 |
| 60° | 4230.1 | 4242.9 | 4507.6 | 5049.8 | 5738.4 | 6200.6 | 6205.5 | 6140.1 | 5914.2 | 5735.7 | 5286.3 |
| 62.5° | 3884.5 | 3936.6 | 4204.0 | 4891.2 | 5735.7 | 6361.0 | 6547.5 | 6497.6 | 6227.6 | 6027.8 | 5670.7 |
| 65° | 3324.1 | 3342.7 | 3597.7 | 4347.6 | 5348.1 | 6293.9 | 6855.5 | 6837.0 | 6510.0 | 6311.5 | 5868.3 |
| 67.5° | 2427.5 | 2387.3 | 2655.1 | 3423.6 | 4527.9 | 5902.3 | 7076.5 | 7099.9 | 6727.8 | 6369.9 | 5657.9 |
| 68° | 2215.4 | 2227.3 | 2435.9 | 3195.1 | 4313.2 | 5764.0 | 7091.1 | 7126.9 | 6749.5 | 6331.9 | 5543.0 |
| 70° | 1320.5 | 1343.4 | 1529.5 | 2199.9 | 3281.3 | 4981.4 | 6933.8 | 7015.5 | 6620.4 | 5939.9 | 4794.4 |
| 72.5° | 337.2 | 364.6 | 540.5 | 984.6 | 1874.2 | 3509.7 | 5853.3 | 5991.6 | 5748.1 | 4818.7 | 3236.6 |
| 75° | 138.8 | 145.8 | 193.1 | 324.4 | 698.2 | 1581.2 | 3858.0 | 4154.1 | 3984.8 | 2884.9 | 1462.8 |
| 77.5° | 95.9 | 100.8 | 124.2 | 179.9 | 302.3 | 536.1 | 1891.4 | 2105.3 | 1896.7 | 984.6 | 319.1 |
| 80° | 68.9 | 72.9 | 88.8 | 119.8 | 173.7 | 191.4 | 616.5 | 712.8 | 566.1 | 216.1 | 79.1 |
| 82.5° | 41.1 | 44.2 | 66.3 | 85.3 | 105.6 | 91.5 | 153.3 | 174.1 | 164.0 | 107.4 | 35.4 |
| 85° | 20.3 | 23.9 | 44.6 | 61.0 | 57.0 | 38.4 | 46.8 | 52.1 | 64.5 | 65.4 | 19.0 |
| 87.5° | 1.3 | 2.7 | 26.1 | 36.7 | 15.9 | 8.8 | 13.7 | 16.8 | 23.0 | 32.3 | 8.0 |
| 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: P322357

CATALOG NUMBER: GLEON-SA3B-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 | 1110.6 |
| 2.5° | 1113.6 | 1114.1 | 1111.0 | 1109.7 | 1110.6 | 1105.2 | 1103.0 | 1103.9 | 1103.9 | 1105.2 | 1103.0 |
| 5° | 1124.7 | 1124.7 | 1119.4 | 1112.3 | 1108.3 | 1098.2 | 1091.5 | 1089.8 | 1088.5 | 1087.6 | 1085.8 |
| 7.5° | 1148.6 | 1145.9 | 1136.6 | 1121.2 | 1107.9 | 1085.8 | 1069.0 | 1060.2 | 1055.8 | 1054.0 | 1052.7 |
| 10° | 1187.0 | 1182.1 | 1166.7 | 1138.0 | 1107.5 | 1068.1 | 1031.4 | 1005.4 | 983.7 | 974.9 | 969.6 |
| 12.5° | 1238.7 | 1231.6 | 1205.6 | 1157.8 | 1104.4 | 1031.9 | 952.3 | 875.9 | 804.7 | 775.6 | 761.0 |
| 15° | 1298.4 | 1288.2 | 1247.1 | 1174.6 | 1086.2 | 950.1 | 777.3 | 643.4 | 544.9 | 507.8 | 491.9 |
| 17.5° | 1358.9 | 1345.7 | 1283.3 | 1185.2 | 1031.9 | 780.9 | 545.3 | 411.9 | 346.0 | 328.3 | 322.2 |
| 20° | 1419.9 | 1400.5 | 1314.7 | 1177.3 | 909.0 | 563.0 | 359.7 | 300.9 | 281.9 | 276.6 | 274.9 |
| 22.5° | 1477.8 | 1447.7 | 1343.0 | 1146.3 | 719.9 | 377.8 | 284.6 | 266.0 | 259.9 | 256.8 | 255.9 |
| 25° | 1528.2 | 1486.2 | 1367.8 | 1050.9 | 509.5 | 285.5 | 256.3 | 250.1 | 242.2 | 236.4 | 236.9 |
| 27.5° | 1575.5 | 1524.6 | 1382.8 | 893.6 | 339.8 | 243.9 | 237.3 | 228.9 | 214.3 | 205.9 | 205.9 |
| 30° | 1632.5 | 1575.9 | 1393.8 | 687.6 | 250.1 | 215.7 | 210.4 | 197.5 | 177.7 | 166.6 | 166.6 |
| 32.5° | 1718.2 | 1653.7 | 1386.8 | 482.6 | 207.3 | 189.6 | 177.2 | 159.5 | 137.9 | 127.3 | 126.8 |
| 35° | 1849.4 | 1773.9 | 1336.4 | 316.4 | 183.0 | 164.8 | 145.0 | 123.3 | 104.3 | 95.5 | 95.0 |
| 37.5° | 2026.2 | 1934.7 | 1223.2 | 226.3 | 164.0 | 141.9 | 118.0 | 94.1 | 80.0 | 74.2 | 73.8 |
| 40° | 2255.6 | 2121.7 | 1061.5 | 183.4 | 146.3 | 119.8 | 91.0 | 72.9 | 63.2 | 58.8 | 59.2 |
| 42.5° | 2530.9 | 2321.9 | 867.5 | 158.2 | 129.0 | 98.5 | 71.1 | 57.4 | 51.3 | 48.2 | 47.3 |
| 45° | 2836.7 | 2519.4 | 664.2 | 141.0 | 111.8 | 79.5 | 55.7 | 45.5 | 40.7 | 38.9 | 38.9 |
| 47.5° | 3173.0 | 2711.6 | 486.1 | 125.9 | 93.2 | 61.4 | 44.6 | 37.1 | 33.1 | 31.8 | 31.4 |
| 50° | 3478.4 | 2845.1 | 350.4 | 110.0 | 76.5 | 48.6 | 36.2 | 30.9 | 28.3 | 26.5 | 26.5 |
| 52.5° | 3732.9 | 2887.1 | 258.1 | 92.8 | 61.9 | 38.9 | 30.1 | 26.5 | 23.9 | 22.5 | 22.5 |
| 55° | 3957.0 | 2869.8 | 191.8 | 76.5 | 49.9 | 31.8 | 25.6 | 22.5 | 20.3 | 19.0 | 19.0 |
| 57.5° | 4171.7 | 2814.2 | 143.2 | 62.3 | 40.2 | 25.6 | 21.7 | 19.0 | 16.8 | 15.9 | 15.9 |
| 60° | 4347.2 | 2721.4 | 106.5 | 50.4 | 32.3 | 20.8 | 18.1 | 15.5 | 13.7 | 12.4 | 12.4 |
| 62.5° | 4489.5 | 2618.8 | 78.2 | 41.5 | 25.6 | 16.4 | 14.1 | 12.8 | 10.2 | 8.8 | 8.8 |
| 65° | 4490.4 | 2448.7 | 58.8 | 34.5 | 19.9 | 12.8 | 10.6 | 10.2 | 6.6 | 5.3 | 4.9 |
| 67.5° | 4165.6 | 2111.1 | 45.1 | 29.6 | 15.5 | 9.7 | 8.0 | 8.4 | 3.5 | 2.2 | 1.8 |
| 68° | 4047.6 | 2025.3 | 42.4 | 29.2 | 14.6 | 9.3 | 7.5 | 8.4 | 3.1 | 1.8 | 1.3 |
| 70° | 3412.5 | 1611.2 | 34.0 | 28.3 | 12.8 | 7.1 | 6.2 | 8.4 | 2.7 | 1.3 | 0.9 |
| 72.5° | 2182.7 | 935.1 | 25.2 | 22.5 | 9.7 | 5.3 | 4.0 | 7.5 | 2.7 | 0.9 | 0.4 |
| 75° | 928.9 | 289.9 | 17.2 | 15.9 | 5.7 | 4.0 | 2.7 | 4.9 | 1.8 | 0.4 | 0.0 |
| 77.5° | 195.8 | 65.4 | 10.2 | 9.7 | 4.0 | 2.7 | 1.8 | 1.3 | 0.4 | 0.0 | 0.0 |
| 80° | 50.4 | 19.0 | 5.3 | 4.9 | 2.2 | 1.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 15.9 | 7.5 | 3.1 | 2.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 8.0 | 4.4 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.4 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)