

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: P452832

Luminaire Tested: **GLAN-SA3D-750-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18921 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

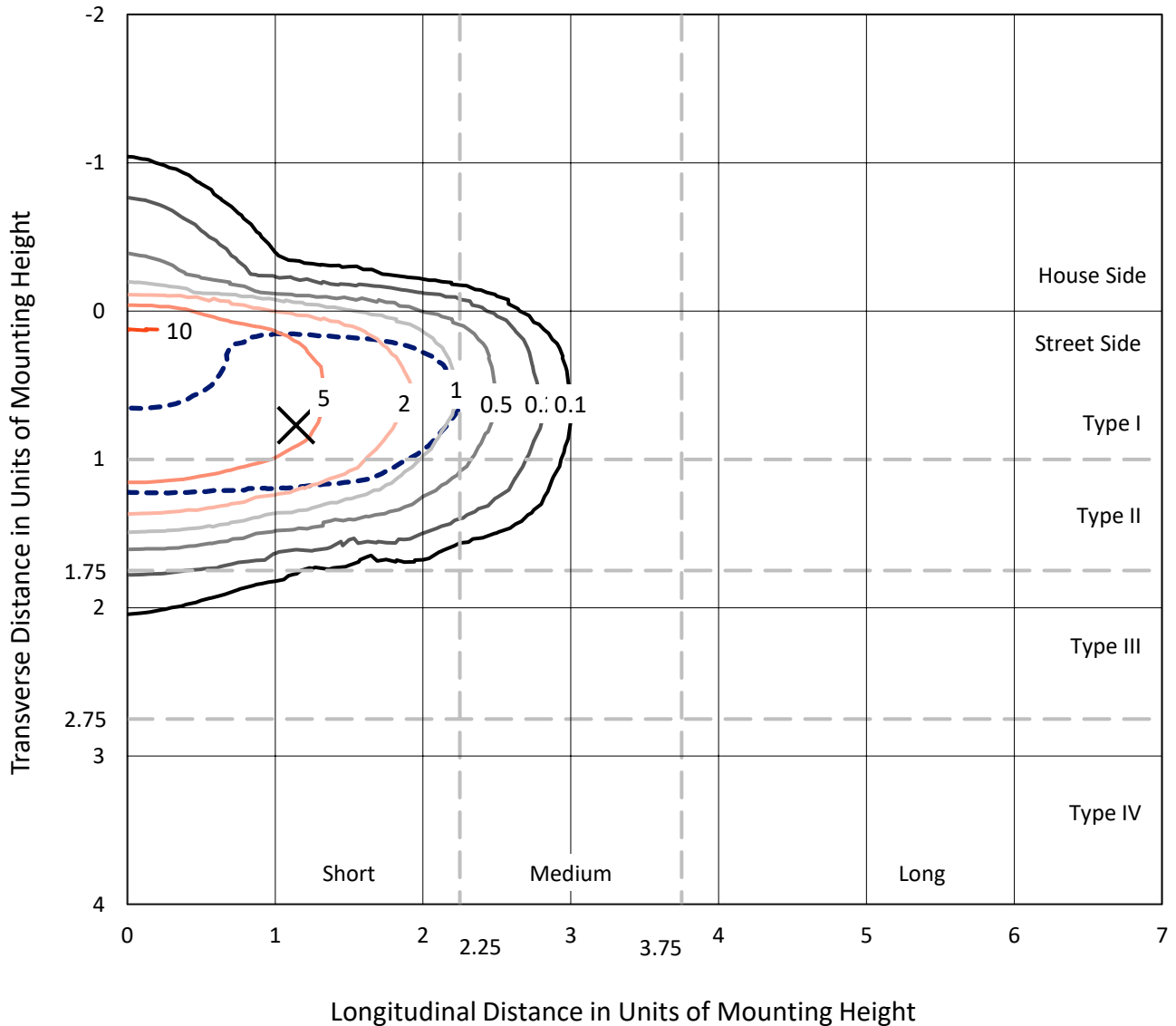
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

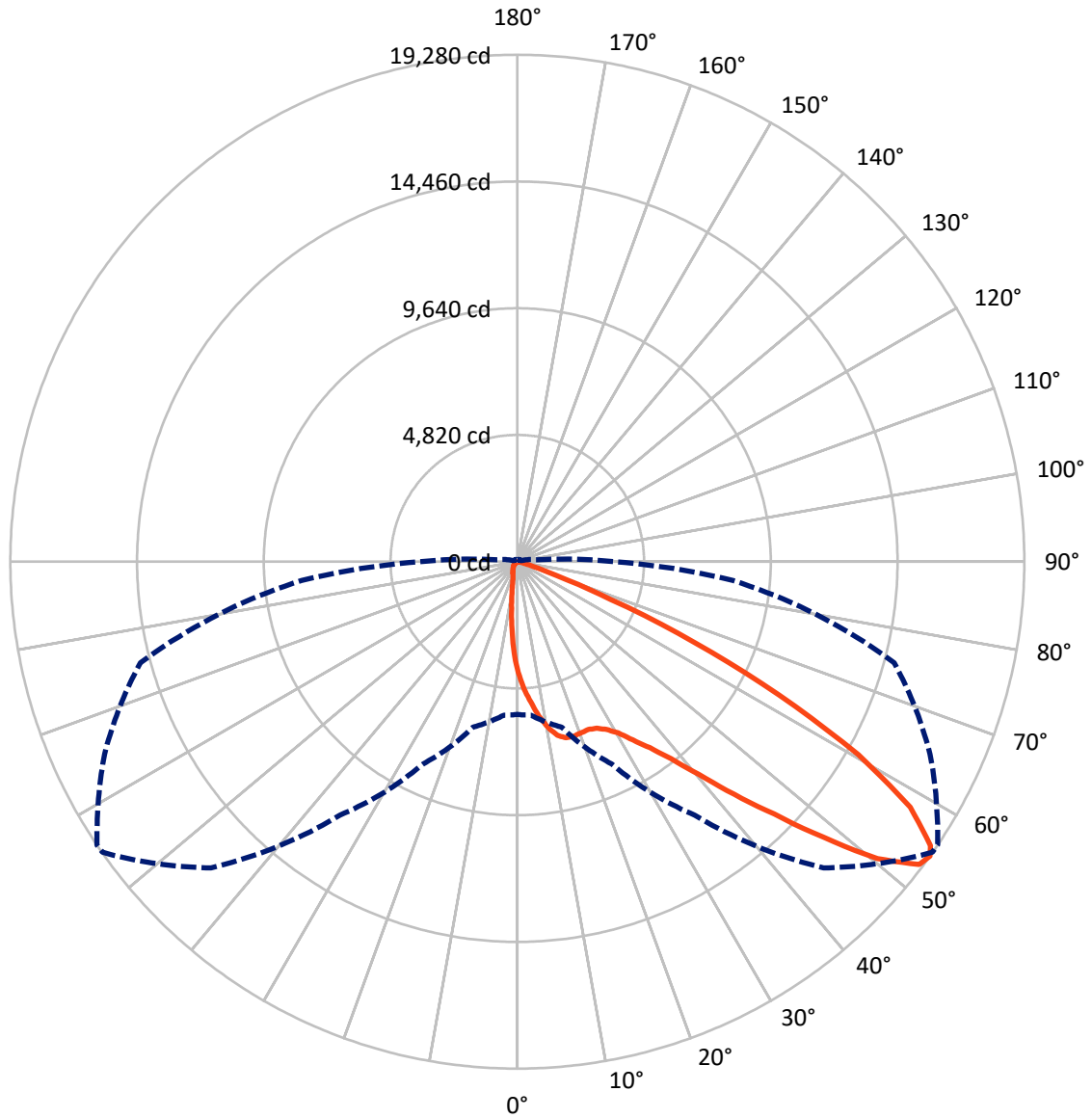
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 894.7 | 0.0 | 894.7 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 18026.3 | 0.0 | 18026.3 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 18921.0 | 0.0 | 18921.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 371.5 | 2.0 |
| 10°-20° | 1004.2 | 5.3 |
| 20°-30° | 1739.2 | 9.2 |
| 30°-40° | 3002.1 | 15.9 |
| 40°-50° | 5109.7 | 27.0 |
| 50°-60° | 5056.6 | 26.7 |
| 60°-70° | 2308.0 | 12.2 |
| 70°-80° | 296.4 | 1.6 |
| 80°-90° | 33.4 | 0.2 |
| 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° | 18921.0 | 100.0 |
| 0°-180° | 18921.0 | 100.0 |

Coefficient of Utilization



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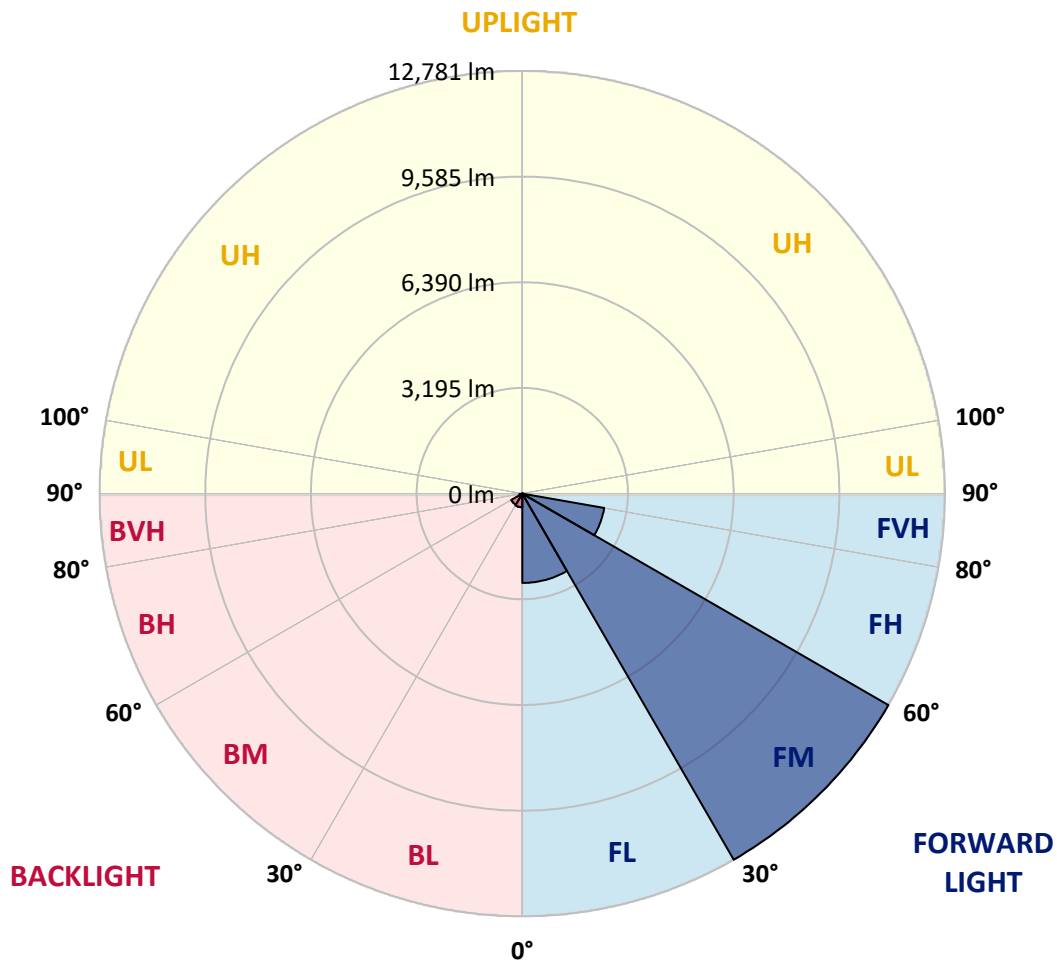
CATALOG NUMBER: GLAN-SA3D-750-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2701.0 | 14.3 | | | |
| FM (30°-60°) | 12780.6 | 67.5 | | | |
| FH (60°-80°) | 2514.8 | 13.3 | | | G2/5000 |
| FVH (80°-90°) | 29.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 413.8 | 2.2 | B1/500 | | |
| BM (30°-60°) | 387.8 | 2.0 | B1/1000 | | |
| BH (60°-80°) | 89.6 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 |
| 2.5° | 5342.4 | 5305.4 | 5254.3 | 5214.7 | 5121.5 | 4987.5 | 4845.8 | 4845.8 | 4709.2 | 4519.0 | 4325.0 |
| 5° | 6161.9 | 6137.7 | 6087.9 | 5985.8 | 5881.1 | 5693.4 | 5408.8 | 5359.0 | 5115.2 | 4770.5 | 4408.0 |
| 7.5° | 6495.1 | 6506.6 | 6509.2 | 6482.4 | 6432.6 | 6247.5 | 5965.4 | 5930.9 | 5541.5 | 5079.4 | 4516.5 |
| 10° | 6176.0 | 6232.2 | 6287.0 | 6398.1 | 6555.1 | 6599.8 | 6440.2 | 6404.5 | 6021.5 | 5392.2 | 4633.9 |
| 12.5° | 5701.1 | 5731.7 | 5762.4 | 5937.3 | 6252.6 | 6613.8 | 6781.1 | 6779.8 | 6455.5 | 5703.7 | 4783.3 |
| 15° | 5480.3 | 5507.1 | 5509.6 | 5587.5 | 5860.7 | 6386.6 | 6926.6 | 6945.7 | 6879.4 | 6087.9 | 4944.1 |
| 17.5° | 5526.2 | 5547.9 | 5530.0 | 5549.2 | 5692.2 | 6136.4 | 6910.0 | 6973.8 | 7222.8 | 6456.8 | 5089.6 |
| 20° | 5826.2 | 5868.3 | 5799.4 | 5745.8 | 5789.2 | 6070.0 | 6853.8 | 6943.2 | 7465.3 | 6816.8 | 5222.4 |
| 22.5° | 6364.9 | 6387.9 | 6301.1 | 6154.3 | 6077.7 | 6209.2 | 6838.5 | 6926.6 | 7672.1 | 7111.7 | 5299.0 |
| 25° | 6963.6 | 6956.0 | 6860.2 | 6695.5 | 6534.7 | 6490.0 | 6939.4 | 7018.5 | 7843.2 | 7377.2 | 5322.0 |
| 27.5° | 7562.3 | 7585.3 | 7424.5 | 7220.2 | 7027.4 | 6911.3 | 7165.3 | 7224.0 | 8035.9 | 7679.8 | 5350.1 |
| 30° | 8258.0 | 8221.0 | 8062.7 | 7829.1 | 7608.3 | 7446.2 | 7529.1 | 7545.7 | 8301.5 | 8080.6 | 5424.1 |
| 32.5° | 9163.1 | 9061.0 | 8883.6 | 8475.1 | 8316.8 | 8042.3 | 8062.7 | 8083.2 | 8624.4 | 8477.6 | 5513.4 |
| 35° | 10391.2 | 10386.1 | 10038.8 | 9488.6 | 9103.1 | 8762.3 | 8672.9 | 8689.5 | 9113.3 | 9067.4 | 5711.3 |
| 37.5° | 11869.4 | 11889.9 | 11494.1 | 10940.1 | 10230.3 | 9689.1 | 9505.2 | 9507.8 | 9856.3 | 9881.8 | 6012.6 |
| 40° | 13073.2 | 13126.8 | 12890.7 | 12516.6 | 11815.8 | 10969.5 | 10660.5 | 10632.4 | 10900.5 | 10868.6 | 6442.8 |
| 42.5° | 13591.5 | 13641.3 | 13729.4 | 13859.6 | 13474.1 | 12775.8 | 12046.9 | 12085.2 | 12166.9 | 11943.5 | 6925.3 |
| 45° | 13337.5 | 13416.6 | 13762.6 | 14566.8 | 14929.3 | 14694.4 | 13825.1 | 13691.1 | 13345.1 | 13111.5 | 7410.4 |
| 47.5° | 12279.2 | 12472.0 | 13050.2 | 14389.4 | 15658.2 | 16452.3 | 15831.9 | 15654.4 | 14524.7 | 13964.3 | 7719.3 |
| 50° | 10539.3 | 10550.7 | 11356.3 | 13068.1 | 15280.4 | 17561.6 | 17880.7 | 17748.0 | 15623.8 | 14443.0 | 7875.1 |
| 52.5° | 7640.2 | 7891.7 | 8629.5 | 10612.0 | 13643.8 | 17393.1 | 19186.7 | 19131.8 | 16757.4 | 14688.1 | 8099.8 |
| 54° | 5808.3 | 5856.8 | 6513.0 | 8480.2 | 11763.5 | 16467.6 | 19267.1 | 19279.8 | 17320.3 | 14836.1 | 8232.5 |
| 55° | 4761.6 | 4645.4 | 5334.7 | 7224.0 | 10480.5 | 15649.3 | 19004.1 | 19065.4 | 17573.1 | 14912.7 | 8330.8 |
| 57.5° | 2257.0 | 2258.2 | 2785.4 | 3810.5 | 6564.1 | 12151.5 | 17396.9 | 17613.9 | 17601.2 | 15044.2 | 8633.4 |
| 60° | 1142.5 | 1150.2 | 1266.3 | 1759.1 | 3242.5 | 8078.1 | 14384.2 | 14901.3 | 16246.7 | 15063.4 | 8732.9 |
| 62.5° | 799.1 | 790.2 | 771.0 | 846.4 | 1364.6 | 4105.4 | 10709.0 | 11158.4 | 13803.4 | 14334.5 | 8416.3 |
| 65° | 684.2 | 665.1 | 611.5 | 600.0 | 689.3 | 1635.3 | 6670.0 | 7402.8 | 10539.3 | 12412.0 | 7515.1 |
| 67.5° | 584.7 | 577.0 | 528.5 | 499.1 | 487.6 | 712.3 | 3441.6 | 3827.1 | 7203.6 | 8921.9 | 5692.2 |
| 70° | 496.6 | 492.8 | 463.4 | 426.4 | 394.5 | 426.4 | 1276.6 | 1581.7 | 4014.8 | 4803.7 | 2685.9 |
| 72.5° | 403.4 | 407.2 | 412.3 | 365.1 | 331.9 | 302.5 | 545.1 | 634.4 | 1679.9 | 1717.0 | 939.5 |
| 75° | 353.6 | 349.8 | 349.8 | 317.9 | 277.0 | 224.7 | 300.0 | 323.0 | 514.5 | 477.4 | 218.3 |
| 77.5° | 248.9 | 240.0 | 280.8 | 261.7 | 231.1 | 159.6 | 171.1 | 181.3 | 213.2 | 182.5 | 102.1 |
| 80° | 172.3 | 172.3 | 180.0 | 234.9 | 208.1 | 116.2 | 104.7 | 112.3 | 126.4 | 108.5 | 58.7 |
| 82.5° | 97.0 | 99.6 | 117.4 | 125.1 | 121.3 | 77.9 | 68.9 | 70.2 | 84.3 | 74.0 | 37.0 |
| 85° | 11.5 | 19.1 | 67.7 | 66.4 | 49.8 | 34.5 | 38.3 | 39.6 | 52.3 | 46.0 | 21.7 |
| 87.5° | 1.3 | 2.6 | 14.0 | 17.9 | 12.8 | 14.0 | 14.0 | 14.0 | 17.9 | 20.4 | 15.3 |
| 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: GLAN-SA3D-750-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 | 4203.7 |
| 2.5° | 4220.3 | 4123.3 | 3892.2 | 3624.1 | 3453.1 | 3174.8 | 2939.9 | 2770.1 | 2728.0 | 2646.3 | 2670.6 |
| 5° | 4215.2 | 4013.5 | 3542.4 | 3044.6 | 2513.5 | 2117.8 | 1822.9 | 1590.6 | 1488.5 | 1420.8 | 1373.6 |
| 7.5° | 4217.7 | 3902.4 | 3146.7 | 2354.0 | 1719.5 | 1331.4 | 1058.3 | 916.6 | 822.1 | 782.5 | 787.6 |
| 10° | 4225.4 | 3777.3 | 2687.2 | 1743.8 | 1160.4 | 860.4 | 693.2 | 625.5 | 593.6 | 588.5 | 587.2 |
| 12.5° | 4243.3 | 3640.7 | 2248.0 | 1294.4 | 811.9 | 625.5 | 561.7 | 538.7 | 528.5 | 528.5 | 524.7 |
| 15° | 4262.4 | 3490.1 | 1882.9 | 962.5 | 625.5 | 537.4 | 508.1 | 496.6 | 490.2 | 490.2 | 488.9 |
| 17.5° | 4262.4 | 3316.5 | 1542.1 | 746.8 | 538.7 | 494.0 | 471.0 | 455.7 | 450.6 | 450.6 | 449.3 |
| 20° | 4235.6 | 3114.8 | 1239.5 | 601.3 | 488.9 | 453.2 | 430.2 | 413.6 | 407.2 | 404.7 | 403.4 |
| 22.5° | 4142.4 | 2845.4 | 986.8 | 517.0 | 448.1 | 417.4 | 388.1 | 368.9 | 363.8 | 361.3 | 362.5 |
| 25° | 3976.5 | 2541.6 | 781.3 | 454.5 | 411.1 | 374.0 | 348.5 | 334.5 | 329.4 | 329.4 | 330.6 |
| 27.5° | 3805.4 | 2223.8 | 619.1 | 407.2 | 366.4 | 333.2 | 312.8 | 303.8 | 302.5 | 306.4 | 307.7 |
| 30° | 3647.1 | 1904.6 | 501.7 | 368.9 | 326.8 | 298.7 | 284.7 | 282.1 | 282.1 | 283.4 | 284.7 |
| 32.5° | 3471.0 | 1625.1 | 420.0 | 335.7 | 294.9 | 270.6 | 263.0 | 263.0 | 265.5 | 265.5 | 268.1 |
| 35° | 3359.9 | 1385.1 | 368.9 | 303.8 | 270.6 | 250.2 | 245.1 | 246.4 | 250.2 | 255.3 | 257.9 |
| 37.5° | 3299.9 | 1193.6 | 335.7 | 278.3 | 247.7 | 233.6 | 228.5 | 231.1 | 240.0 | 248.9 | 250.2 |
| 40° | 3305.0 | 1049.3 | 308.9 | 256.6 | 229.8 | 214.5 | 210.6 | 218.3 | 227.2 | 236.2 | 237.4 |
| 42.5° | 3361.2 | 942.1 | 283.4 | 231.1 | 214.5 | 192.8 | 191.5 | 199.1 | 203.0 | 211.9 | 213.2 |
| 45° | 3427.6 | 864.2 | 256.6 | 204.2 | 186.4 | 167.2 | 168.5 | 174.9 | 180.0 | 194.0 | 196.6 |
| 47.5° | 3448.0 | 810.6 | 226.0 | 173.6 | 153.2 | 146.8 | 148.1 | 151.9 | 162.1 | 174.9 | 176.2 |
| 50° | 3471.0 | 777.4 | 196.6 | 146.8 | 130.2 | 128.9 | 130.2 | 132.8 | 139.1 | 144.3 | 143.0 |
| 52.5° | 3569.3 | 776.1 | 172.3 | 127.7 | 111.1 | 113.6 | 114.9 | 113.6 | 108.5 | 100.8 | 98.3 |
| 54° | 3661.2 | 780.0 | 160.8 | 118.7 | 102.1 | 106.0 | 104.7 | 98.3 | 85.5 | 77.9 | 74.0 |
| 55° | 3735.2 | 783.8 | 154.5 | 112.3 | 97.0 | 98.3 | 99.6 | 86.8 | 70.2 | 62.6 | 60.0 |
| 57.5° | 3880.7 | 774.9 | 139.1 | 98.3 | 85.5 | 80.4 | 79.1 | 57.4 | 38.3 | 33.2 | 30.6 |
| 60° | 3808.0 | 699.6 | 126.4 | 84.3 | 72.8 | 65.1 | 53.6 | 31.9 | 19.1 | 14.0 | 14.0 |
| 62.5° | 3522.0 | 593.6 | 112.3 | 68.9 | 60.0 | 49.8 | 28.1 | 17.9 | 8.9 | 5.1 | 3.8 |
| 65° | 3150.5 | 499.1 | 100.8 | 54.9 | 47.2 | 31.9 | 15.3 | 11.5 | 3.8 | 0.0 | 0.0 |
| 67.5° | 2342.5 | 370.2 | 85.5 | 43.4 | 35.7 | 20.4 | 10.2 | 6.4 | 1.3 | 0.0 | 0.0 |
| 70° | 1085.1 | 226.0 | 72.8 | 33.2 | 25.5 | 15.3 | 7.7 | 3.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 311.5 | 141.7 | 60.0 | 24.3 | 17.9 | 12.8 | 6.4 | 2.6 | 1.3 | 0.0 | 0.0 |
| 75° | 108.5 | 113.6 | 44.7 | 17.9 | 14.0 | 8.9 | 5.1 | 2.6 | 1.3 | 0.0 | 0.0 |
| 77.5° | 65.1 | 91.9 | 28.1 | 15.3 | 11.5 | 7.7 | 5.1 | 2.6 | 1.3 | 1.3 | 0.0 |
| 80° | 37.0 | 61.3 | 17.9 | 12.8 | 10.2 | 6.4 | 3.8 | 2.6 | 1.3 | 1.3 | 0.0 |
| 82.5° | 20.4 | 29.4 | 14.0 | 11.5 | 8.9 | 6.4 | 3.8 | 2.6 | 1.3 | 1.3 | 1.3 |
| 85° | 16.6 | 15.3 | 11.5 | 10.2 | 7.7 | 5.1 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.8 | 10.2 | 10.2 | 10.2 | 7.7 | 5.1 | 3.8 | 1.3 | 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)