

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: P953160

Luminaire Tested: **GALN-SB6D-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66496 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

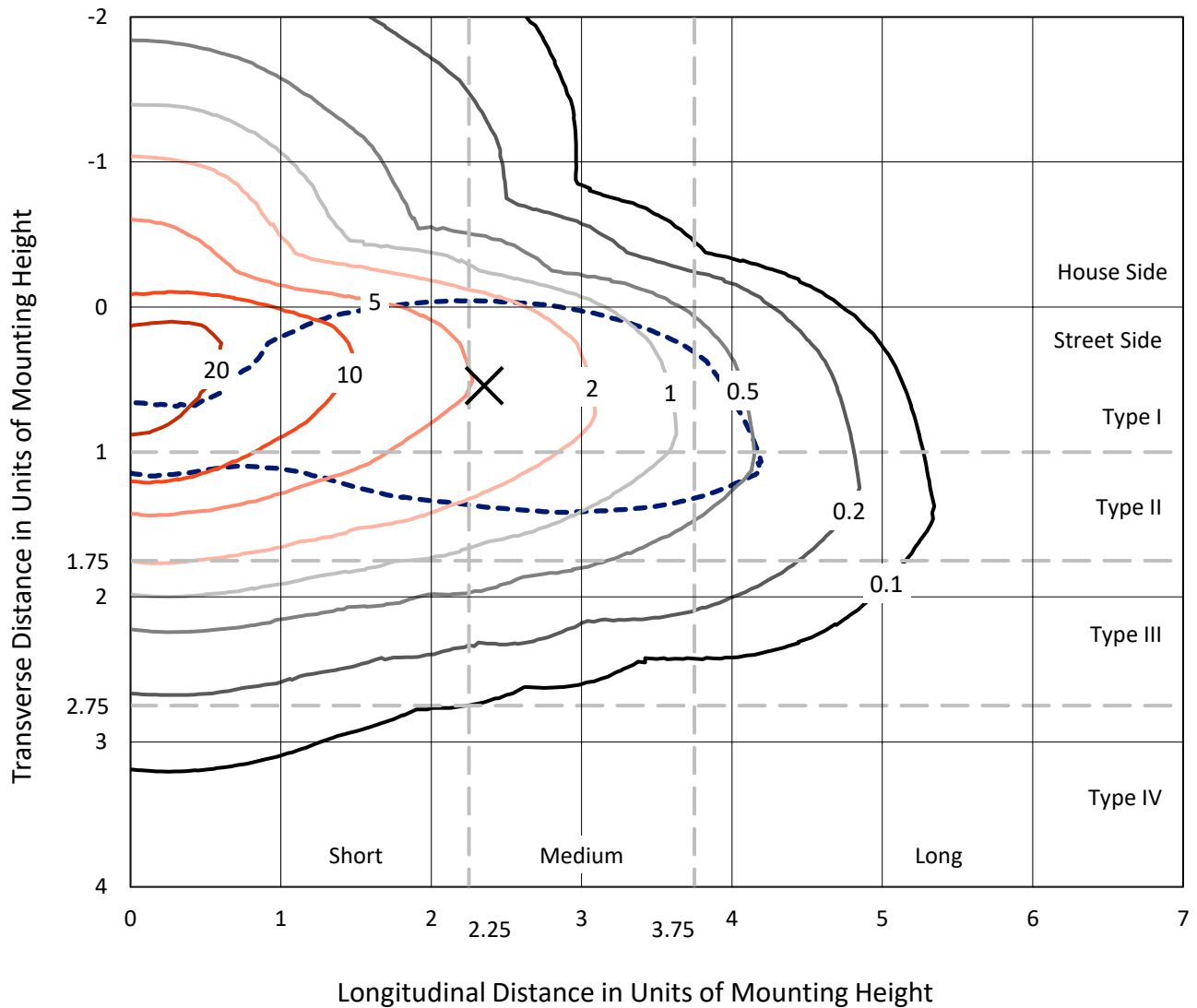
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

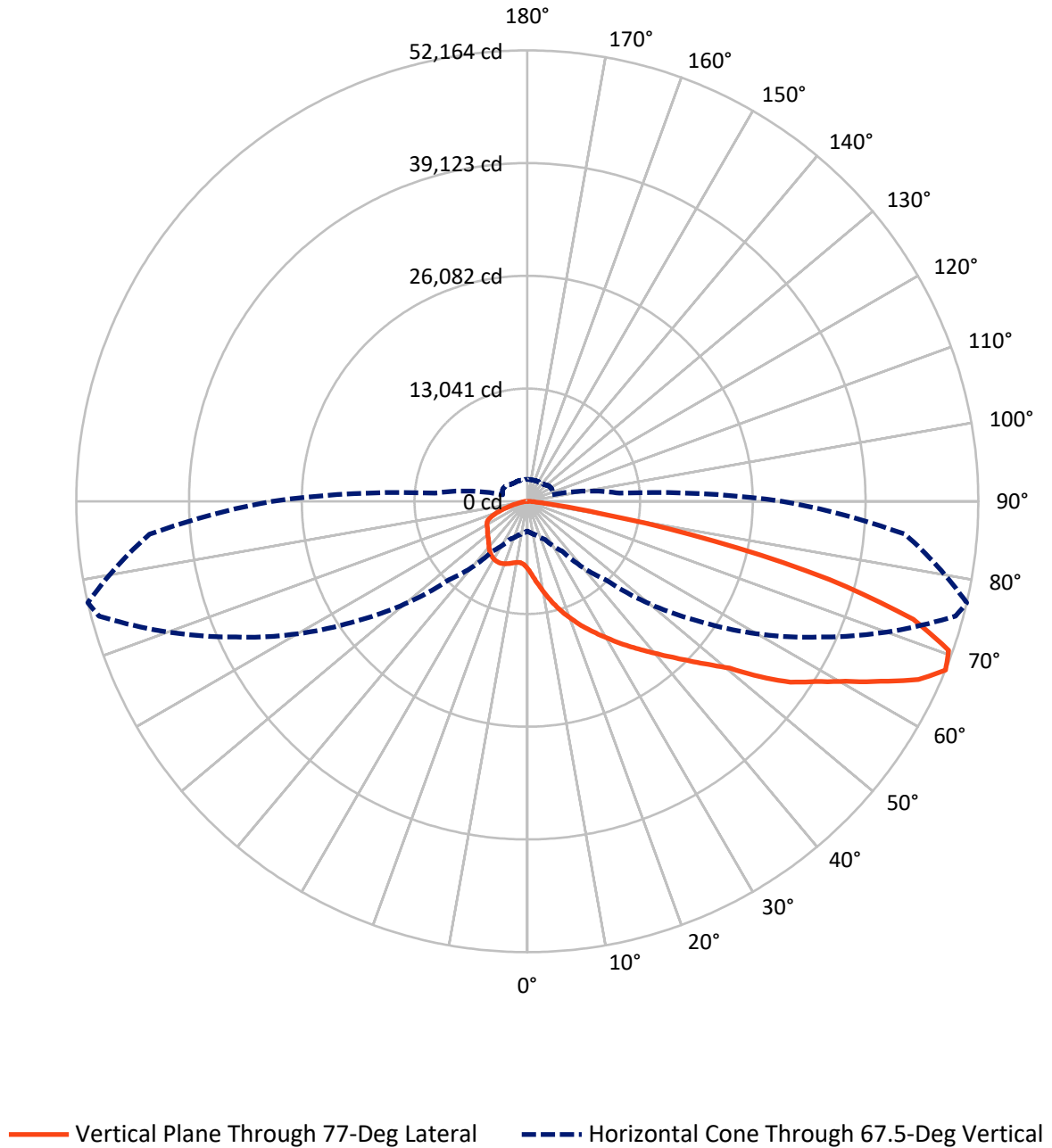
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12578.4 | 0.0 | 12578.4 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 53917.6 | 0.0 | 53917.6 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 66496.0 | 0.0 | 66496.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 836.3 | 1.3 |
| 10°-20° | 3004.4 | 4.5 |
| 20°-30° | 5672.6 | 8.5 |
| 30°-40° | 9138.5 | 13.7 |
| 40°-50° | 12499.7 | 18.8 |
| 50°-60° | 14099.8 | 21.2 |
| 60°-70° | 13160.4 | 19.8 |
| 70°-80° | 7214.1 | 10.8 |
| 80°-90° | 870.2 | 1.3 |
| 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° | 66496.0 | 100.0 |
| 0°-180° | 66496.0 | 100.0 |

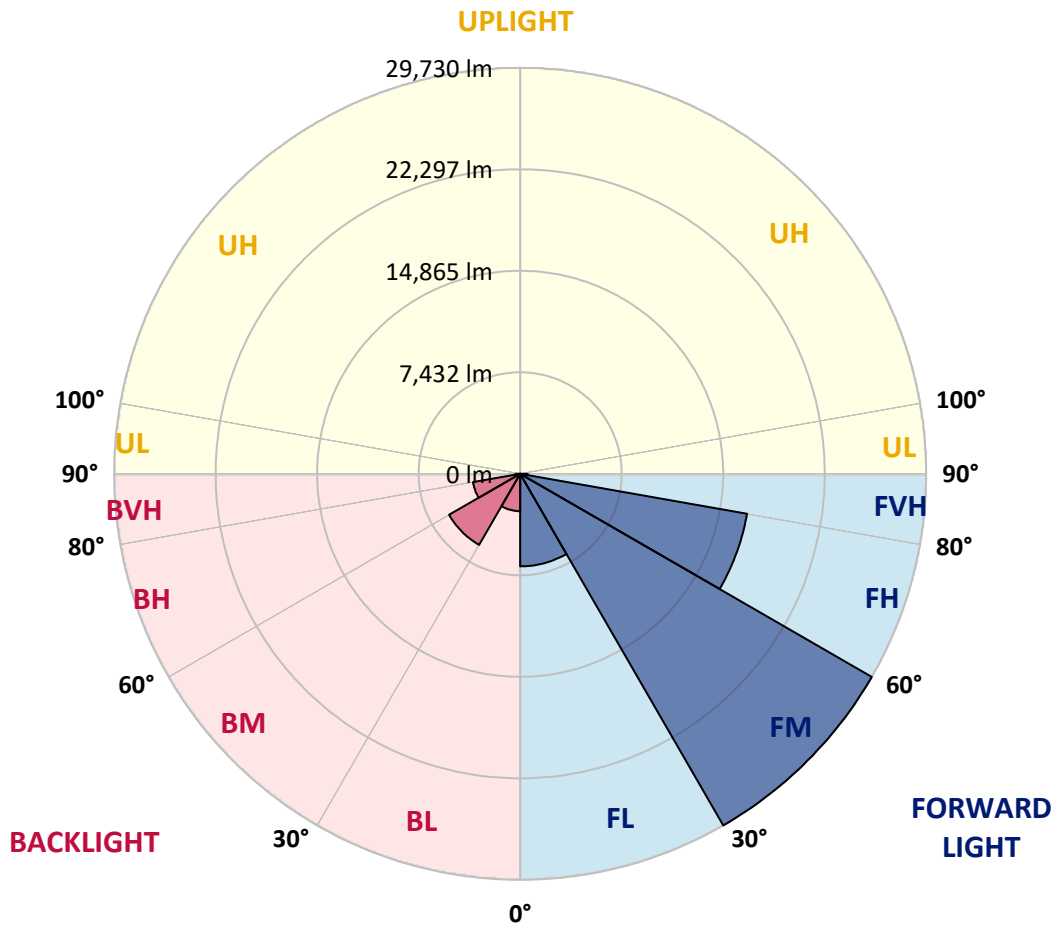


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6778.4 | 10.2 | | | |
| FM (30°-60°) | 29729.6 | 44.7 | | | |
| FH (60°-80°) | 16865.4 | 25.4 | | | G5 |
| FVH (80°-90°) | 544.2 | 0.8 | | | G4/750 |
| BL (0°-30°) | 2734.8 | 4.1 | B4/5000 | | |
| BM (30°-60°) | 6008.4 | 9.0 | B4/8500 | | |
| BH (60°-80°) | 3509.2 | 5.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 326.0 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 |
| 2.5° | 9768.9 | 9837.5 | 9751.7 | 9751.7 | 9463.4 | 9312.3 | 9024.0 | 8804.3 | 8409.6 | 8340.9 |
| 5° | 11546.9 | 11632.7 | 11512.6 | 11461.1 | 11121.3 | 10808.9 | 10324.9 | 9847.8 | 9144.1 | 9072.1 |
| 7.5° | 12923.3 | 13033.2 | 12926.8 | 12871.8 | 12569.8 | 12219.7 | 11653.3 | 10987.4 | 9995.4 | 9854.7 |
| 10° | 14045.7 | 14062.9 | 14028.6 | 14049.2 | 13812.3 | 13524.0 | 12943.9 | 12168.2 | 10929.0 | 10736.8 |
| 12.5° | 14680.8 | 14759.7 | 14828.4 | 14951.9 | 14910.7 | 14732.2 | 14210.5 | 13283.7 | 11917.6 | 11670.5 |
| 15° | 14979.4 | 15116.7 | 15271.1 | 15556.0 | 15786.0 | 15830.6 | 15432.5 | 14481.7 | 12923.3 | 12624.7 |
| 17.5° | 15085.8 | 15216.2 | 15459.9 | 15871.8 | 16366.1 | 16699.1 | 16520.6 | 15645.3 | 13918.7 | 13575.5 |
| 20° | 15624.7 | 15662.4 | 15810.0 | 16201.3 | 16736.8 | 17289.4 | 17423.3 | 16764.3 | 14903.9 | 14516.0 |
| 22.5° | 16778.0 | 16702.5 | 16743.7 | 16922.2 | 17306.6 | 17842.1 | 18147.6 | 17752.8 | 15916.4 | 15470.2 |
| 25° | 18683.0 | 18463.4 | 18243.7 | 18037.7 | 18233.4 | 18535.4 | 18882.1 | 18741.4 | 16977.1 | 16410.7 |
| 27.5° | 21089.2 | 20821.5 | 20337.5 | 19661.3 | 19424.5 | 19530.9 | 19685.3 | 19657.9 | 17958.8 | 17385.6 |
| 30° | 23457.6 | 23145.3 | 22568.6 | 21590.4 | 20965.6 | 20684.2 | 20567.5 | 20488.5 | 19026.3 | 18415.3 |
| 32.5° | 25348.9 | 25101.8 | 24535.4 | 23440.5 | 22534.3 | 22053.7 | 21665.9 | 21384.4 | 20141.8 | 19530.9 |
| 35° | 27003.4 | 26773.4 | 26124.7 | 24930.2 | 23945.0 | 23433.6 | 22925.6 | 22324.9 | 21302.0 | 20684.2 |
| 37.5° | 28513.7 | 28283.7 | 27394.7 | 26152.1 | 25160.1 | 24806.6 | 24353.5 | 23334.1 | 22465.6 | 21882.1 |
| 40° | 29467.9 | 29416.4 | 28585.8 | 27178.4 | 26148.7 | 25973.6 | 25822.6 | 24504.5 | 23756.3 | 23213.9 |
| 42.5° | 29711.6 | 29824.9 | 29165.9 | 28009.1 | 27027.4 | 26886.7 | 27240.2 | 25829.5 | 25204.8 | 24686.5 |
| 45° | 29124.7 | 29450.8 | 29018.3 | 28232.2 | 27652.1 | 27576.6 | 28496.5 | 27278.0 | 26807.7 | 26334.1 |
| 47.5° | 27638.4 | 28191.0 | 28012.5 | 27902.7 | 27820.3 | 28146.4 | 29601.8 | 28815.7 | 28623.5 | 28211.6 |
| 50° | 24638.4 | 25685.3 | 25997.7 | 26691.0 | 27487.4 | 28589.2 | 30607.5 | 30494.2 | 30744.8 | 30329.5 |
| 52.5° | 19451.9 | 20893.6 | 22705.9 | 24442.8 | 26464.5 | 28441.6 | 31712.8 | 32903.8 | 33961.0 | 33734.5 |
| 55° | 16057.2 | 16705.9 | 18099.5 | 21284.9 | 24480.5 | 27820.3 | 32210.5 | 34850.1 | 37153.3 | 36950.7 |
| 57.5° | 13448.5 | 14028.6 | 14886.7 | 17546.9 | 21480.5 | 26409.6 | 32519.4 | 36037.7 | 39339.8 | 39319.2 |
| 60° | 10651.0 | 11265.4 | 12144.1 | 14028.6 | 17975.9 | 23972.5 | 32450.7 | 37390.1 | 42130.4 | 42302.0 |
| 62.5° | 7493.1 | 8169.3 | 9144.1 | 10901.6 | 14395.9 | 20814.6 | 31050.3 | 38368.4 | 45415.3 | 45882.1 |
| 65° | 4925.6 | 5371.8 | 6106.4 | 7623.6 | 10726.5 | 16754.0 | 28376.4 | 38495.4 | 48930.1 | 49719.6 |
| 67.5° | 3453.1 | 3624.7 | 4057.2 | 4881.0 | 7070.9 | 12847.8 | 24116.7 | 37180.7 | 51274.5 | 52163.5 |
| 70° | 2694.5 | 2780.3 | 3000.0 | 3329.5 | 4441.6 | 8639.6 | 18480.5 | 33762.0 | 50773.4 | 51700.1 |
| 72.5° | 2327.2 | 2409.6 | 2492.0 | 2533.2 | 2979.4 | 5334.1 | 12518.3 | 28228.8 | 46053.7 | 46681.8 |
| 75° | 2111.0 | 2131.6 | 2200.2 | 2186.5 | 2272.3 | 3459.9 | 7225.4 | 20567.5 | 36336.3 | 36120.1 |
| 77.5° | 1774.6 | 1802.1 | 1915.3 | 1898.2 | 2018.3 | 2365.0 | 3751.7 | 13273.4 | 23557.2 | 22088.1 |
| 80° | 1503.4 | 1517.2 | 1640.7 | 1620.1 | 1754.0 | 1712.8 | 1915.3 | 6765.4 | 9992.0 | 8464.5 |
| 82.5° | 521.7 | 645.3 | 1252.9 | 1290.6 | 1338.7 | 1036.6 | 1105.3 | 2759.7 | 3051.5 | 2337.5 |
| 85° | 254.0 | 271.2 | 638.4 | 906.2 | 902.7 | 521.7 | 538.9 | 985.1 | 961.1 | 755.1 |
| 87.5° | 41.2 | 51.5 | 75.5 | 353.5 | 281.5 | 137.3 | 185.4 | 192.2 | 199.1 | 171.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P953160
 CATALOG NUMBER: GALN-SB6D-750-U-T2R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7802.0 | 0° | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 | 7802.0 |
| 8080.1 | 2.5° | 7887.9 | 7716.2 | 7355.8 | 7022.9 | 6762.0 | 6511.4 | 6370.7 | 6250.6 | 6181.9 | 6168.2 |
| 8457.7 | 5° | 8100.7 | 7747.1 | 7091.5 | 6538.9 | 6178.5 | 5910.7 | 5770.0 | 5680.8 | 5636.1 | 5608.7 |
| 8965.7 | 7.5° | 8406.2 | 7887.9 | 6954.2 | 6326.1 | 5948.5 | 5756.3 | 5684.2 | 5670.5 | 5667.0 | 5670.5 |
| 9580.1 | 10° | 8828.4 | 8117.8 | 6940.5 | 6274.6 | 5958.8 | 5852.4 | 5849.0 | 5852.4 | 5866.1 | 5869.6 |
| 10249.4 | 12.5° | 9284.9 | 8354.7 | 6995.4 | 6319.2 | 6089.2 | 6030.9 | 6020.6 | 6017.2 | 6027.5 | 6034.3 |
| 10925.6 | 15° | 9782.6 | 8667.0 | 7088.1 | 6415.3 | 6233.4 | 6171.6 | 6161.3 | 6140.7 | 6137.3 | 6133.9 |
| 11636.1 | 17.5° | 10294.0 | 8976.0 | 7191.1 | 6518.3 | 6326.1 | 6240.3 | 6202.5 | 6154.5 | 6116.7 | 6106.4 |
| 12370.7 | 20° | 10812.3 | 9281.4 | 7263.1 | 6569.8 | 6332.9 | 6212.8 | 6137.3 | 6054.9 | 5989.7 | 5951.9 |
| 13112.1 | 22.5° | 11365.0 | 9600.7 | 7307.8 | 6556.1 | 6271.2 | 6106.4 | 5969.1 | 5873.0 | 5773.4 | 5708.2 |
| 13860.4 | 25° | 11903.9 | 9878.7 | 7304.3 | 6484.0 | 6151.0 | 5941.6 | 5766.6 | 5643.0 | 5505.7 | 5437.1 |
| 14632.7 | 27.5° | 12422.2 | 10129.3 | 7218.5 | 6357.0 | 5979.4 | 5746.0 | 5536.6 | 5389.0 | 5255.1 | 5189.9 |
| 15411.9 | 30° | 12957.6 | 10338.7 | 7084.7 | 6171.6 | 5776.9 | 5519.4 | 5289.5 | 5162.5 | 5042.3 | 4980.5 |
| 16235.7 | 32.5° | 13489.7 | 10530.9 | 6895.9 | 5941.6 | 5543.5 | 5296.3 | 5069.8 | 4953.1 | 4881.0 | 4881.0 |
| 17121.3 | 35° | 14052.6 | 10664.7 | 6645.3 | 5673.9 | 5296.3 | 5059.5 | 4881.0 | 4812.3 | 4805.5 | 4764.3 |
| 18058.3 | 37.5° | 14646.4 | 10750.6 | 6339.8 | 5399.3 | 5052.6 | 4829.5 | 4774.6 | 4692.2 | 4623.6 | 4534.3 |
| 19088.1 | 40° | 15271.1 | 10836.4 | 5972.5 | 5114.4 | 4795.2 | 4671.6 | 4647.6 | 4537.7 | 4342.1 | 4122.4 |
| 20255.1 | 42.5° | 16029.7 | 10894.7 | 5591.5 | 4829.5 | 4524.0 | 4482.8 | 4517.2 | 4328.4 | 4016.0 | 3851.3 |
| 21662.4 | 45° | 16908.4 | 10990.8 | 5241.4 | 4548.0 | 4246.0 | 4246.0 | 4390.2 | 4143.0 | 3885.6 | 3782.6 |
| 23268.8 | 47.5° | 18048.0 | 11213.9 | 4915.3 | 4239.1 | 3988.6 | 4057.2 | 4108.7 | 3919.9 | 3775.7 | 3648.7 |
| 25225.4 | 50° | 19695.6 | 11749.4 | 4578.9 | 3926.8 | 3792.9 | 3930.2 | 3858.1 | 3748.3 | 3580.1 | 3477.1 |
| 28335.2 | 52.5° | 21741.4 | 12065.2 | 4280.3 | 3645.3 | 3624.7 | 3762.0 | 3659.0 | 3556.1 | 3429.1 | 3291.8 |
| 30693.3 | 55° | 23135.0 | 12123.5 | 4029.7 | 3439.4 | 3511.4 | 3497.7 | 3459.9 | 3367.3 | 3298.6 | 3116.7 |
| 33020.5 | 57.5° | 24693.3 | 12240.3 | 3823.8 | 3315.8 | 3439.4 | 3288.3 | 3274.6 | 3195.6 | 3106.4 | 2982.8 |
| 35859.2 | 60° | 26557.2 | 12422.2 | 3645.3 | 3267.7 | 3377.6 | 3151.0 | 3082.4 | 3051.5 | 2962.2 | 2900.5 |
| 39274.5 | 62.5° | 28589.2 | 12586.9 | 3463.4 | 3274.6 | 3305.5 | 3017.2 | 2914.2 | 2903.9 | 2849.0 | 2828.4 |
| 42480.5 | 65° | 29975.9 | 12137.3 | 3236.8 | 3267.7 | 3192.2 | 2879.9 | 2749.4 | 2746.0 | 2701.4 | 2694.5 |
| 43870.6 | 67.5° | 29491.9 | 10712.8 | 2931.3 | 3171.6 | 3075.5 | 2742.6 | 2598.4 | 2584.7 | 2526.3 | 2529.7 |
| 42418.7 | 70° | 27068.6 | 8680.8 | 2509.1 | 2934.8 | 2931.3 | 2619.0 | 2440.5 | 2395.9 | 2316.9 | 2330.7 |
| 36882.1 | 72.5° | 22524.0 | 6432.5 | 1942.8 | 2540.0 | 2701.4 | 2505.7 | 2258.6 | 2186.5 | 2087.0 | 2100.7 |
| 27226.5 | 75° | 16266.6 | 4373.0 | 1414.2 | 1932.5 | 2351.3 | 2371.8 | 2080.1 | 1956.5 | 1836.4 | 1857.0 |
| 15154.4 | 77.5° | 8323.8 | 2478.3 | 1040.0 | 1331.8 | 1846.7 | 2155.6 | 1918.8 | 1754.0 | 1726.5 | 1918.8 |
| 4369.6 | 80° | 2715.1 | 1242.6 | 720.8 | 933.6 | 1211.7 | 1764.3 | 1681.9 | 1493.1 | 1486.3 | 1530.9 |
| 916.5 | 82.5° | 810.1 | 525.2 | 463.4 | 614.4 | 669.3 | 1352.4 | 1451.9 | 1129.3 | 971.4 | 1022.9 |
| 305.5 | 85° | 278.0 | 254.0 | 264.3 | 305.5 | 319.2 | 792.9 | 1016.0 | 748.3 | 707.1 | 779.2 |
| 68.6 | 87.5° | 65.2 | 89.2 | 75.5 | 68.6 | 68.6 | 192.2 | 394.7 | 312.4 | 432.5 | 288.3 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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180°
7802.0
6168.2
5605.3
5680.8
5873.0
6037.7
6130.4
6116.7
5965.7
5711.7
5437.1
5186.5
4977.1
4884.4
4754.0
4520.6
4091.5
3854.7
3799.8
3645.3
3466.8
3264.3
3120.1
2941.6
2917.6
2828.4
2691.1
2529.7
2344.4
2097.3
1863.8
1891.3
1314.6
1057.2
768.9
278.0
0.0

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