

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: P847633

Luminaire Tested: **GLAN-SB3D-827-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB3D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24131 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

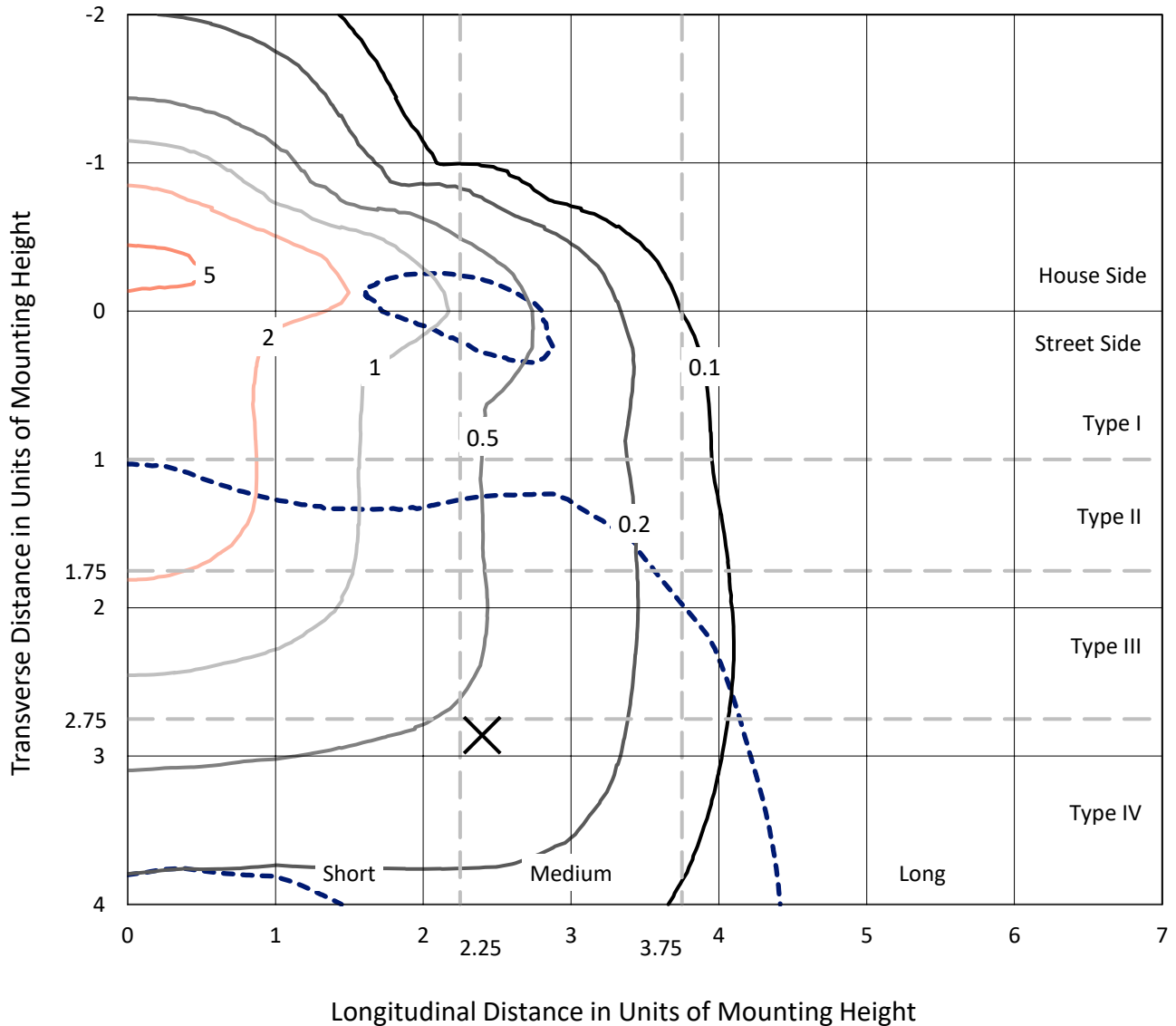
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

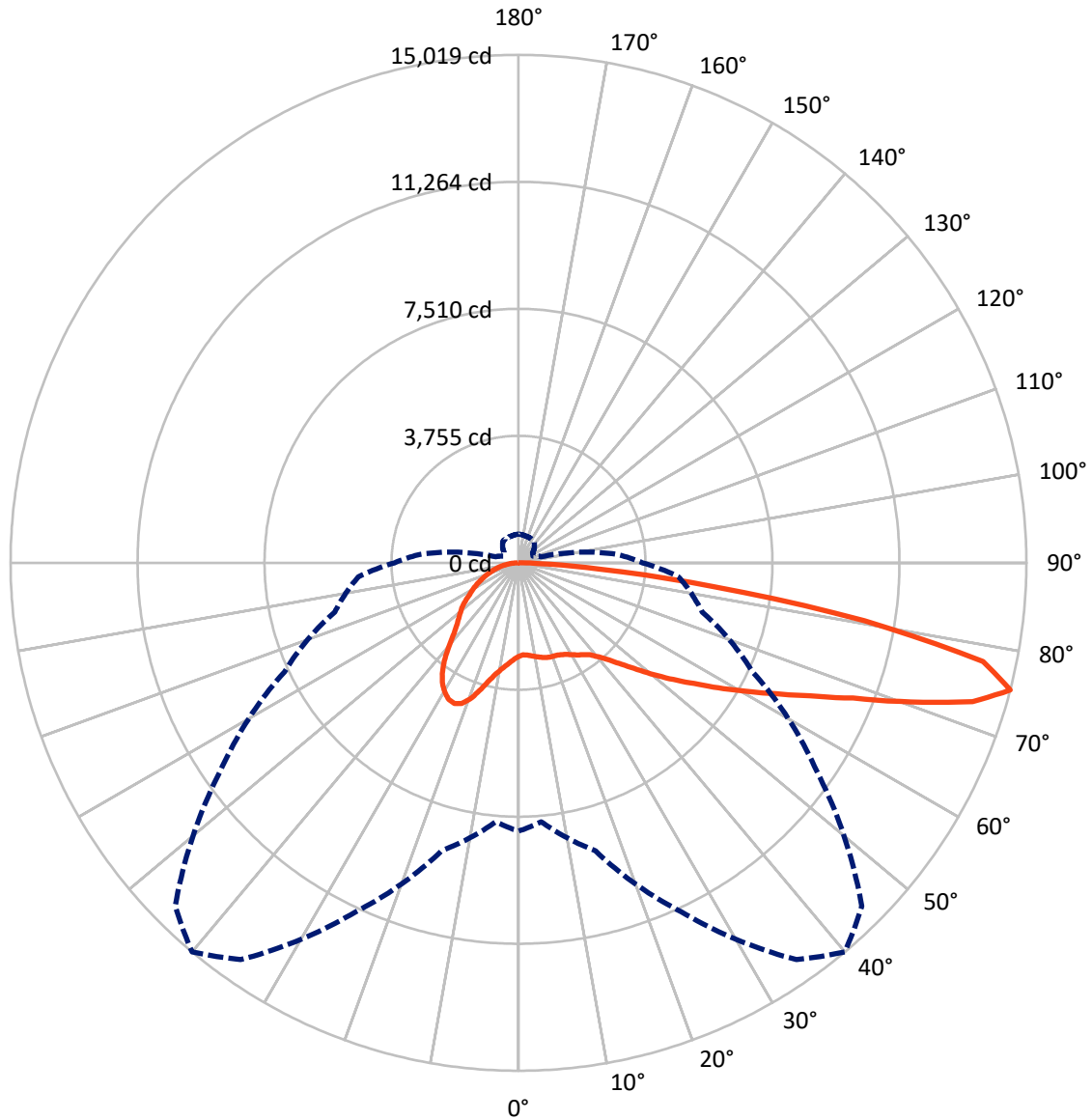
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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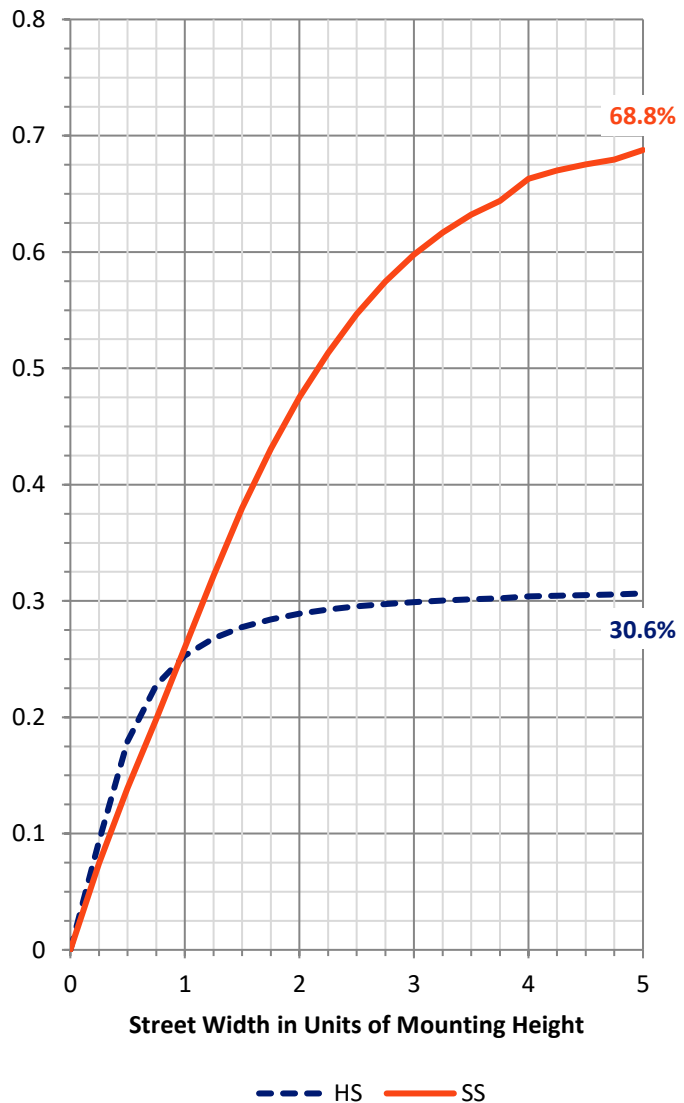
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7476.6 | 0.0 | 7476.6 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 16654.4 | 0.0 | 16654.4 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 24131.0 | 0.0 | 24131.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 275.4 | 1.1 |
| 10°-20° | 924.8 | 3.8 |
| 20°-30° | 1688.6 | 7.0 |
| 30°-40° | 2394.9 | 9.9 |
| 40°-50° | 3233.8 | 13.4 |
| 50°-60° | 4350.3 | 18.0 |
| 60°-70° | 5521.6 | 22.9 |
| 70°-80° | 5011.2 | 20.8 |
| 80°-90° | 730.5 | 3.0 |
| 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° | 24131.0 | 100.0 |
| 0°-180° | 24131.0 | 100.0 |

Coefficient of Utilization

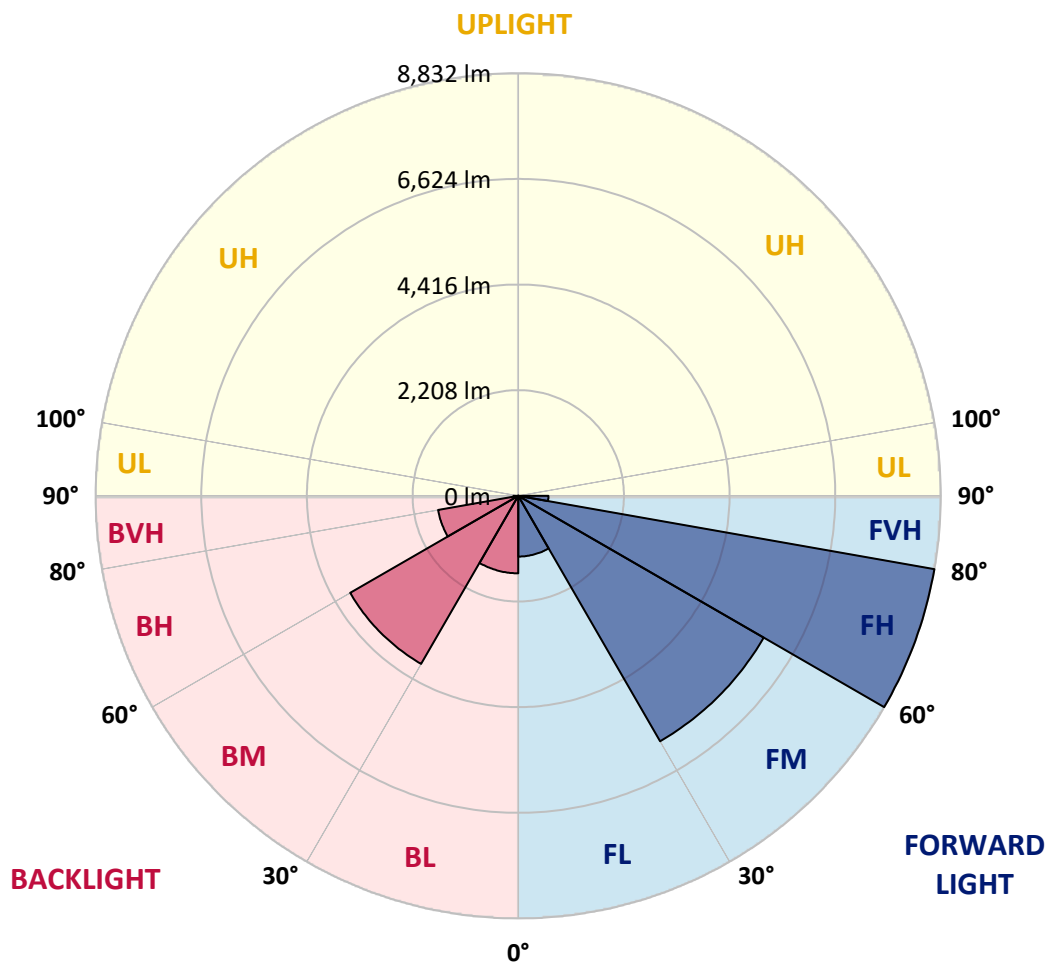


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1269.3 | 5.3 | | | |
| FM (30°-60°) | 5923.6 | 24.5 | | | |
| FH (60°-80°) | 8831.6 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 629.9 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1619.5 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 4055.4 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1701.1 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 100.6 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 |
| 2.5° | 2717.2 | 2732.5 | 2728.7 | 2723.6 | 2723.6 | 2724.9 | 2723.6 | 2732.5 | 2741.5 | 2750.5 |
| 5° | 2745.3 | 2760.7 | 2753.0 | 2746.6 | 2741.5 | 2740.2 | 2736.4 | 2735.1 | 2740.2 | 2751.7 |
| 7.5° | 2800.4 | 2815.7 | 2804.2 | 2792.7 | 2782.4 | 2777.3 | 2772.2 | 2764.5 | 2760.7 | 2767.1 |
| 10° | 2861.8 | 2877.2 | 2863.1 | 2842.6 | 2826.0 | 2819.6 | 2814.4 | 2806.8 | 2801.6 | 2805.5 |
| 12.5° | 2923.2 | 2938.6 | 2919.4 | 2891.2 | 2869.5 | 2865.6 | 2859.2 | 2856.7 | 2855.4 | 2854.1 |
| 15° | 2980.8 | 2993.6 | 2969.3 | 2936.0 | 2913.0 | 2906.6 | 2900.2 | 2904.0 | 2910.4 | 2918.1 |
| 17.5° | 3025.6 | 3038.4 | 3002.6 | 2959.1 | 2937.3 | 2934.8 | 2930.9 | 2943.7 | 2961.6 | 2980.8 |
| 20° | 3066.6 | 3079.4 | 3033.3 | 2974.4 | 2948.8 | 2948.8 | 2950.1 | 2977.0 | 3002.6 | 3030.7 |
| 22.5° | 3124.2 | 3134.4 | 3078.1 | 2997.5 | 2960.4 | 2962.9 | 2973.2 | 3000.0 | 3032.0 | 3070.4 |
| 25° | 3209.9 | 3217.6 | 3148.5 | 3041.0 | 2998.7 | 3006.4 | 3015.4 | 3028.2 | 3058.9 | 3103.7 |
| 27.5° | 3348.2 | 3354.6 | 3263.7 | 3117.8 | 3053.8 | 3066.6 | 3079.4 | 3070.4 | 3084.5 | 3122.9 |
| 30° | 3542.7 | 3546.5 | 3431.3 | 3238.1 | 3147.2 | 3153.6 | 3156.2 | 3119.1 | 3092.2 | 3122.9 |
| 32.5° | 3773.1 | 3771.8 | 3634.8 | 3384.0 | 3253.4 | 3247.0 | 3225.3 | 3152.3 | 3089.6 | 3116.5 |
| 35° | 4130.2 | 4116.1 | 3939.5 | 3588.8 | 3373.8 | 3334.1 | 3282.9 | 3189.5 | 3102.4 | 3110.1 |
| 37.5° | 4721.5 | 4677.9 | 4433.5 | 3924.1 | 3552.9 | 3451.8 | 3376.3 | 3249.6 | 3130.6 | 3107.5 |
| 40° | 5388.3 | 5333.2 | 5064.5 | 4383.6 | 3821.7 | 3659.2 | 3537.6 | 3335.4 | 3176.7 | 3119.1 |
| 42.5° | 6179.2 | 6101.2 | 5811.9 | 4925.0 | 4162.2 | 3926.7 | 3743.6 | 3444.1 | 3244.5 | 3156.2 |
| 45° | 7150.7 | 7047.0 | 6637.4 | 5535.5 | 4590.9 | 4277.3 | 4032.9 | 3609.2 | 3348.2 | 3227.8 |
| 47.5° | 8132.3 | 8157.9 | 7575.6 | 6234.3 | 5105.4 | 4709.9 | 4395.1 | 3857.5 | 3499.2 | 3343.0 |
| 50° | 9175.4 | 9193.3 | 8508.6 | 7008.6 | 5689.0 | 5198.9 | 4802.1 | 4135.3 | 3709.1 | 3506.9 |
| 52.5° | 9989.4 | 9992.0 | 9355.9 | 7818.8 | 6297.0 | 5736.4 | 5241.1 | 4452.7 | 3952.3 | 3724.4 |
| 55° | 10498.8 | 10492.4 | 9949.8 | 8585.4 | 6995.8 | 6300.8 | 5727.4 | 4813.6 | 4249.2 | 3980.4 |
| 57.5° | 10868.7 | 10849.5 | 10359.3 | 9244.5 | 7740.7 | 6967.6 | 6277.8 | 5223.2 | 4599.9 | 4285.0 |
| 60° | 11009.5 | 10998.0 | 10637.0 | 9814.1 | 8524.0 | 7704.9 | 6912.6 | 5681.4 | 4997.9 | 4644.7 |
| 62.5° | 11063.2 | 11085.0 | 10909.7 | 10365.7 | 9362.3 | 8521.4 | 7610.1 | 6229.2 | 5445.9 | 5051.7 |
| 65° | 11252.7 | 11292.3 | 11256.5 | 11087.6 | 10309.4 | 9477.5 | 8535.5 | 6880.6 | 5934.8 | 5488.1 |
| 67.5° | 11627.7 | 11667.3 | 11682.7 | 11951.5 | 11466.4 | 10669.0 | 9689.9 | 7692.1 | 6506.9 | 5941.2 |
| 70° | 11618.7 | 11607.2 | 11878.5 | 12638.8 | 12915.2 | 12318.8 | 11246.3 | 8690.4 | 7189.1 | 6317.5 |
| 72.5° | 10575.6 | 10483.5 | 11124.7 | 12631.1 | 14120.9 | 14041.5 | 13146.9 | 9977.9 | 7777.8 | 6363.5 |
| 75° | 7933.9 | 7688.2 | 8820.9 | 11383.2 | 14321.8 | 15019.3 | 14355.1 | 10776.6 | 7638.3 | 5622.5 |
| 77.5° | 3393.0 | 3145.9 | 4480.8 | 8426.7 | 12818.0 | 14040.2 | 13246.7 | 9402.0 | 6097.3 | 3718.0 |
| 80° | 888.2 | 887.0 | 1354.1 | 3820.4 | 8717.2 | 10368.3 | 9096.1 | 6071.7 | 3483.8 | 1328.5 |
| 82.5° | 367.3 | 358.4 | 497.9 | 1485.9 | 4259.4 | 5818.3 | 4748.3 | 2708.2 | 1258.1 | 359.6 |
| 85° | 136.9 | 135.7 | 241.9 | 513.2 | 1502.6 | 2399.8 | 1736.8 | 692.4 | 313.6 | 175.3 |
| 87.5° | 38.4 | 37.1 | 52.5 | 177.9 | 366.0 | 555.5 | 296.9 | 113.9 | 88.3 | 69.1 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2759.4 | 0° | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 | 2759.4 |
| 2764.5 | 2.5° | 2768.4 | 2774.8 | 2786.3 | 2795.2 | 2806.8 | 2819.6 | 2837.5 | 2849.0 | 2860.5 | 2868.2 |
| 2770.9 | 5° | 2779.9 | 2794.0 | 2823.4 | 2852.8 | 2887.4 | 2919.4 | 2956.5 | 2983.4 | 3005.1 | 3011.5 |
| 2794.0 | 7.5° | 2805.5 | 2828.5 | 2878.4 | 2928.4 | 2983.4 | 3035.9 | 3089.6 | 3135.7 | 3172.8 | 3186.9 |
| 2834.9 | 10° | 2850.3 | 2881.0 | 2951.4 | 3021.8 | 3094.7 | 3175.4 | 3244.5 | 3311.0 | 3363.5 | 3385.3 |
| 2883.6 | 12.5° | 2906.6 | 2945.0 | 3037.1 | 3134.4 | 3235.5 | 3346.9 | 3436.5 | 3518.4 | 3583.7 | 3613.1 |
| 2951.4 | 15° | 2979.6 | 3029.5 | 3147.2 | 3277.8 | 3426.2 | 3581.1 | 3695.0 | 3785.9 | 3858.8 | 3894.7 |
| 3021.8 | 17.5° | 3058.9 | 3125.5 | 3273.9 | 3471.0 | 3683.5 | 3887.0 | 4020.1 | 4086.6 | 4162.2 | 4196.7 |
| 3087.1 | 20° | 3135.7 | 3217.6 | 3430.1 | 3716.8 | 3999.6 | 4215.9 | 4323.4 | 4341.3 | 4346.5 | 4350.3 |
| 3148.5 | 22.5° | 3215.0 | 3325.1 | 3625.9 | 4026.5 | 4329.8 | 4479.6 | 4494.9 | 4418.1 | 4310.6 | 4260.7 |
| 3208.6 | 25° | 3302.1 | 3448.0 | 3881.9 | 4368.2 | 4614.0 | 4631.9 | 4514.1 | 4327.3 | 4123.8 | 4030.3 |
| 3257.3 | 27.5° | 3386.6 | 3590.1 | 4189.0 | 4694.6 | 4818.7 | 4661.3 | 4407.9 | 4143.0 | 3897.2 | 3798.7 |
| 3291.8 | 30° | 3471.0 | 3752.6 | 4528.2 | 4980.0 | 4912.2 | 4588.4 | 4240.2 | 3944.6 | 3697.6 | 3593.9 |
| 3322.6 | 32.5° | 3556.8 | 3942.0 | 4918.6 | 5186.1 | 4895.5 | 4433.5 | 4031.6 | 3721.9 | 3504.3 | 3395.5 |
| 3349.4 | 35° | 3654.0 | 4175.0 | 5288.4 | 5298.7 | 4784.2 | 4205.7 | 3756.4 | 3455.7 | 3266.2 | 3179.2 |
| 3381.4 | 37.5° | 3780.8 | 4470.6 | 5614.8 | 5326.8 | 4589.6 | 3871.6 | 3414.7 | 3140.8 | 2984.7 | 2945.0 |
| 3428.8 | 40° | 3938.2 | 4826.4 | 5864.4 | 5282.0 | 4301.7 | 3465.9 | 3041.0 | 2822.1 | 2733.8 | 2742.8 |
| 3492.8 | 42.5° | 4143.0 | 5224.5 | 6039.7 | 5166.9 | 3901.1 | 3047.4 | 2713.3 | 2616.1 | 2658.3 | 2694.1 |
| 3588.8 | 45° | 4409.2 | 5637.9 | 6148.5 | 4971.0 | 3448.0 | 2692.9 | 2520.1 | 2543.1 | 2575.1 | 2578.9 |
| 3743.6 | 47.5° | 4749.6 | 6056.4 | 6220.2 | 4675.4 | 2986.0 | 2443.3 | 2397.2 | 2402.3 | 2395.9 | 2369.0 |
| 3975.3 | 50° | 5174.5 | 6463.4 | 6284.2 | 4283.7 | 2593.0 | 2287.1 | 2225.7 | 2207.8 | 2119.5 | 2032.4 |
| 4283.7 | 52.5° | 5658.3 | 6837.1 | 6311.1 | 3797.4 | 2287.1 | 2156.6 | 2056.8 | 1944.1 | 1779.0 | 1752.1 |
| 4671.5 | 55° | 6195.9 | 7182.7 | 6242.0 | 3199.7 | 2029.9 | 1988.9 | 1837.9 | 1702.2 | 1684.3 | 1661.3 |
| 5182.2 | 57.5° | 6838.4 | 7555.1 | 6101.2 | 2532.9 | 1766.2 | 1793.1 | 1645.9 | 1661.3 | 1629.3 | 1593.4 |
| 5838.8 | 60° | 7541.0 | 7940.3 | 5854.2 | 1924.9 | 1493.6 | 1548.6 | 1596.0 | 1594.7 | 1585.8 | 1556.3 |
| 6531.2 | 62.5° | 8173.3 | 8193.8 | 5367.8 | 1474.4 | 1254.3 | 1359.2 | 1488.5 | 1487.2 | 1479.5 | 1462.9 |
| 7254.3 | 65° | 8549.6 | 8155.4 | 4556.4 | 1160.8 | 1057.2 | 1203.1 | 1342.6 | 1352.8 | 1354.1 | 1352.8 |
| 7798.3 | 67.5° | 8483.0 | 7706.1 | 3442.9 | 924.1 | 894.6 | 1044.4 | 1198.0 | 1212.0 | 1222.3 | 1224.8 |
| 7867.4 | 70° | 7730.4 | 6719.3 | 2244.9 | 737.2 | 750.0 | 904.9 | 1061.0 | 1075.1 | 1084.1 | 1094.3 |
| 6826.9 | 72.5° | 6025.7 | 4940.3 | 1285.0 | 596.4 | 623.3 | 784.6 | 925.4 | 942.0 | 947.1 | 966.3 |
| 4750.9 | 75° | 3672.0 | 2905.3 | 693.7 | 469.7 | 512.0 | 670.7 | 791.0 | 810.2 | 819.1 | 842.2 |
| 2333.2 | 77.5° | 1745.8 | 1258.1 | 395.5 | 366.0 | 412.1 | 547.8 | 668.1 | 689.9 | 665.5 | 678.3 |
| 643.8 | 80° | 590.0 | 467.2 | 249.6 | 279.0 | 314.8 | 427.5 | 535.0 | 556.7 | 505.6 | 503.0 |
| 213.7 | 82.5° | 206.1 | 189.4 | 158.7 | 185.6 | 203.5 | 305.9 | 404.4 | 432.6 | 376.3 | 375.0 |
| 96.0 | 85° | 80.6 | 76.8 | 88.3 | 101.1 | 121.6 | 188.1 | 266.2 | 280.3 | 231.7 | 186.9 |
| 28.2 | 87.5° | 16.6 | 17.9 | 21.8 | 23.0 | 37.1 | 65.3 | 96.0 | 117.7 | 93.4 | 79.4 |
| 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° |
|--------|
| 2759.4 |
| 2863.1 |
| 3014.1 |
| 3188.2 |
| 3386.6 |
| 3613.1 |
| 3892.1 |
| 4195.4 |
| 4360.5 |
| 4274.8 |
| 4044.4 |
| 3810.2 |
| 3605.4 |
| 3409.6 |
| 3198.4 |
| 2973.2 |
| 2773.5 |
| 2727.4 |
| 2604.5 |
| 2389.5 |
| 2044.0 |
| 1761.1 |
| 1665.1 |
| 1587.0 |
| 1546.1 |
| 1456.5 |
| 1352.8 |
| 1227.4 |
| 1099.4 |
| 974.0 |
| 844.7 |
| 668.1 |
| 497.9 |
| 357.1 |
| 184.3 |
| 73.0 |
| 0.0 |

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