

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: P532866

Luminaire Tested: **GALN-SA8B-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31165 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 325
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

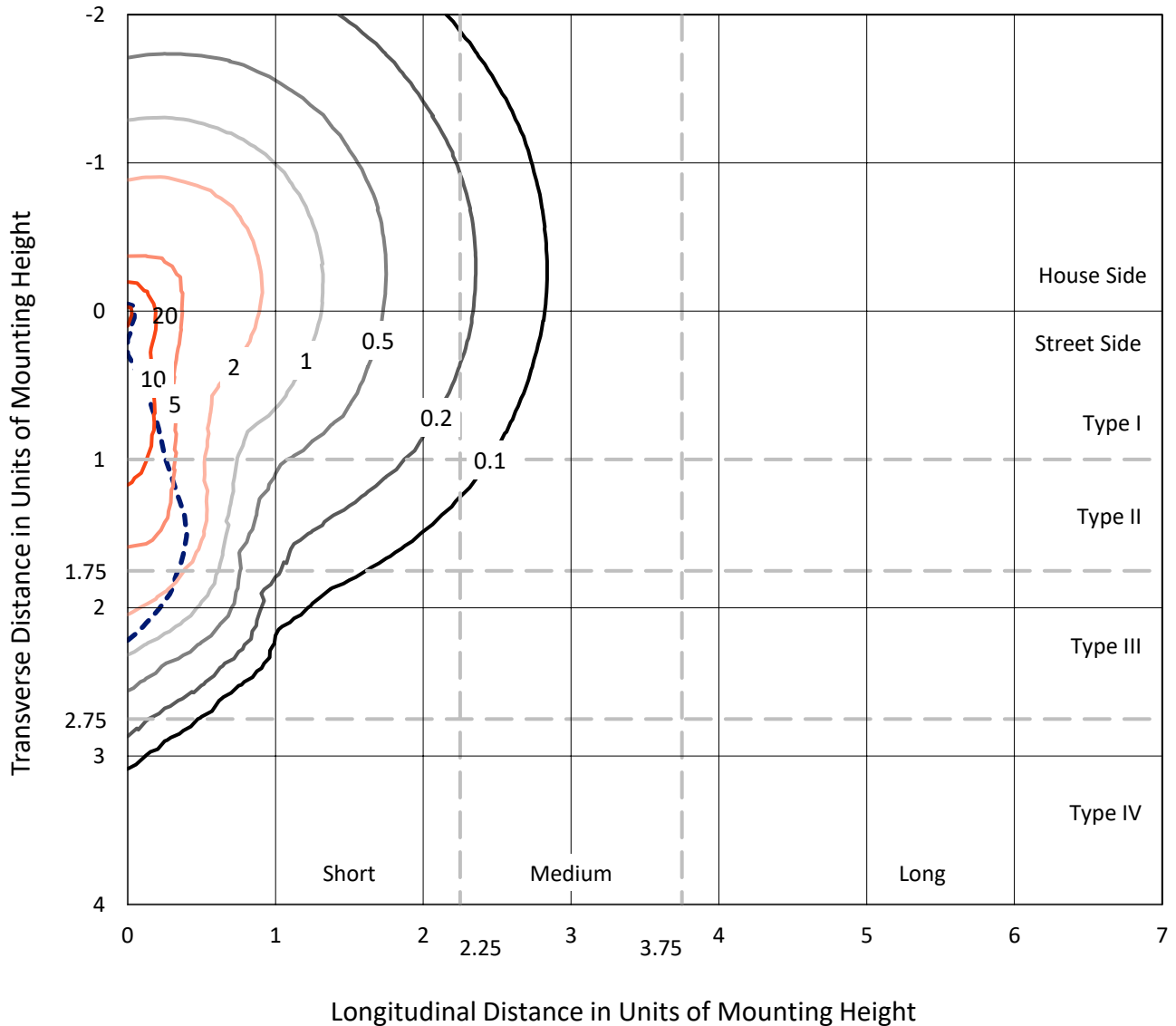




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Iso-Footcandle Lines of Horizontal Illumination

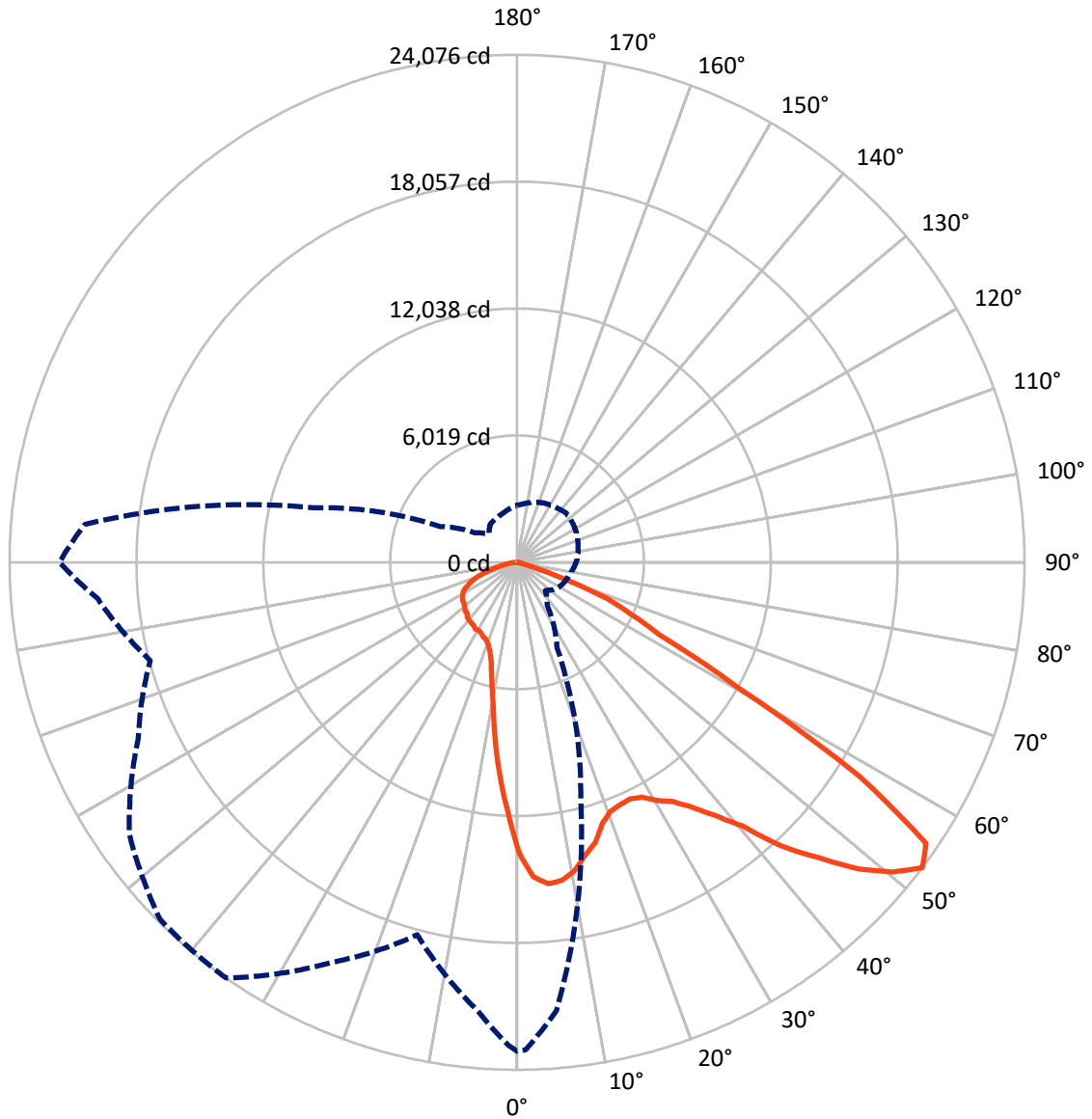
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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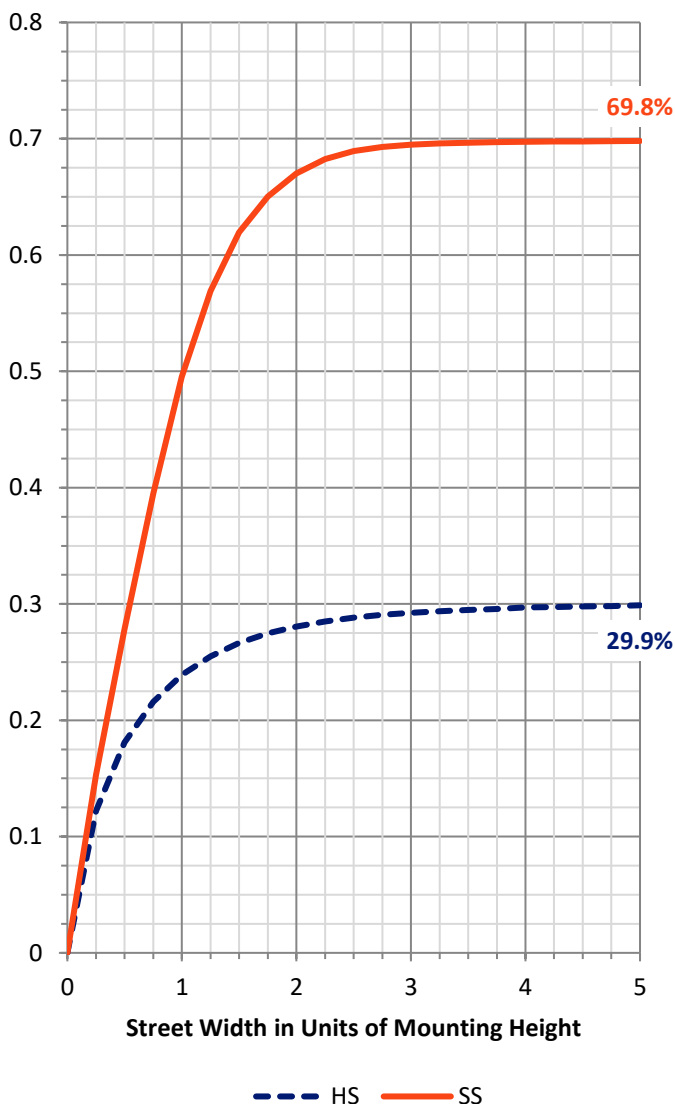
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9394.9 | 0.0 | 9394.9 |
| | % Fixture | 30.1 | 0.0 | 30.1 |
| Street Side | Lumens | 21770.1 | 0.0 | 21770.1 |
| | % Fixture | 69.9 | 0.0 | 69.9 |
| Total | Lumens | 31165.0 | 0.0 | 31165.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1055.2 | 3.4 |
| 10°-20° | 2287.5 | 7.3 |
| 20°-30° | 3456.3 | 11.1 |
| 30°-40° | 4994.4 | 16.0 |
| 40°-50° | 6646.7 | 21.3 |
| 50°-60° | 7434.5 | 23.9 |
| 60°-70° | 4190.0 | 13.4 |
| 70°-80° | 934.0 | 3.0 |
| 80°-90° | 166.3 | 0.5 |
| 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° | 31165.0 | 100.0 |
| 0°-180° | 31165.0 | 100.0 |

Coefficient of Utilization

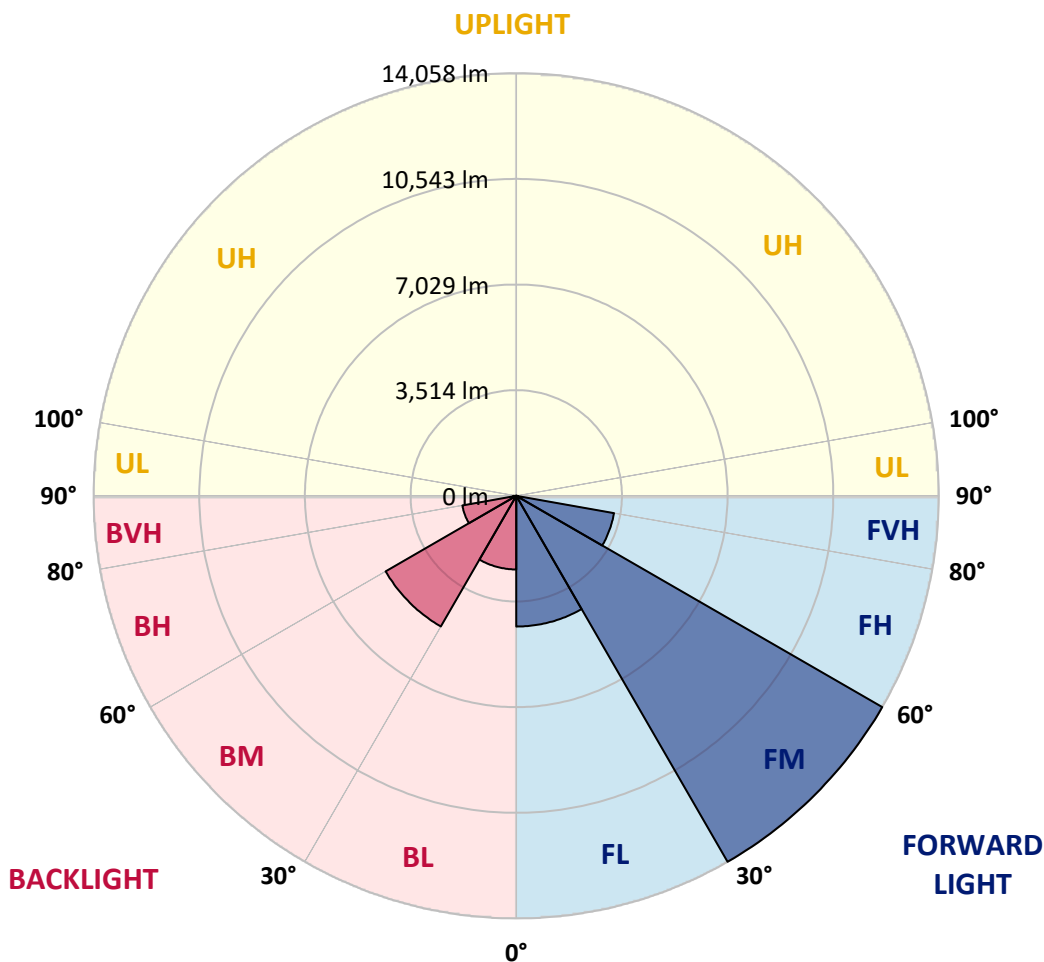


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4349.0 | 14.0 | | | |
| FM (30°-60°) | 14057.8 | 45.1 | | | |
| FH (60°-80°) | 3303.0 | 10.6 | | | G2/5000 |
| FVH (80°-90°) | 60.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2450.0 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 5017.8 | 16.1 | B4/8500 | | |
| BH (60°-80°) | 1821.0 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 106.1 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 |
| 2.5° | 14061.6 | 14287.4 | 14043.5 | 13609.9 | 13302.7 | 13022.7 | 12729.1 | 12670.3 | 12286.4 | 12218.6 | 11938.6 |
| 5° | 13262.1 | 13212.4 | 12914.3 | 12345.1 | 11717.2 | 11148.1 | 10728.0 | 10321.5 | 10045.9 | 9725.2 | 9702.6 |
| 7.5° | 12290.9 | 12001.8 | 11830.2 | 10967.4 | 10190.5 | 9296.1 | 8912.1 | 8293.3 | 8099.1 | 7810.0 | 7660.9 |
| 10° | 11423.6 | 11211.3 | 10809.3 | 9946.6 | 8862.5 | 8270.7 | 7859.7 | 7525.4 | 7299.6 | 7001.4 | 6626.5 |
| 12.5° | 10994.5 | 10908.7 | 10457.0 | 9119.9 | 8315.9 | 7683.5 | 7394.4 | 7069.2 | 6685.2 | 6206.4 | 6021.2 |
| 15° | 11071.3 | 10782.2 | 10438.9 | 8961.8 | 7850.6 | 7240.8 | 6780.1 | 6373.6 | 5881.2 | 5425.0 | 5158.5 |
| 17.5° | 11645.0 | 11423.6 | 10737.0 | 9061.2 | 7674.5 | 6793.6 | 5958.0 | 5357.2 | 4914.6 | 4503.5 | 4318.3 |
| 20° | 12774.2 | 12453.5 | 11681.1 | 9187.7 | 7295.0 | 6170.3 | 5212.7 | 4471.9 | 3997.6 | 3780.8 | 3717.5 |
| 22.5° | 14025.5 | 13835.7 | 12602.6 | 9472.3 | 6992.4 | 5592.1 | 4422.2 | 3681.4 | 3505.2 | 3446.5 | 3564.0 |
| 25° | 15547.7 | 15055.3 | 14034.5 | 9937.5 | 6757.5 | 5099.8 | 3753.7 | 3342.6 | 3252.3 | 3311.0 | 3446.5 |
| 27.5° | 16704.1 | 16573.1 | 15037.3 | 10375.7 | 6436.8 | 4508.0 | 3378.8 | 3107.7 | 3134.8 | 3193.6 | 3320.0 |
| 30° | 18077.2 | 17413.2 | 16008.4 | 10678.3 | 6147.7 | 4101.5 | 3116.8 | 3044.5 | 3071.6 | 3171.0 | 3234.2 |
| 32.5° | 18903.9 | 18655.4 | 16618.2 | 11134.5 | 5813.4 | 3749.2 | 2913.5 | 2845.7 | 2886.4 | 3035.5 | 3184.5 |
| 35° | 19956.3 | 19464.0 | 17372.6 | 11252.0 | 5578.6 | 3609.1 | 2769.0 | 2719.3 | 2814.1 | 2918.0 | 3085.1 |
| 37.5° | 21185.0 | 20846.2 | 18416.0 | 11170.7 | 5452.1 | 3464.6 | 2647.0 | 2624.4 | 2692.2 | 2836.7 | 3030.9 |
| 40° | 21912.2 | 21808.3 | 18962.6 | 11220.4 | 5253.3 | 3338.1 | 2507.0 | 2534.1 | 2674.1 | 2787.0 | 2976.7 |
| 42.5° | 22612.4 | 21934.8 | 19771.1 | 11202.3 | 5126.9 | 3166.5 | 2520.5 | 2488.9 | 2597.3 | 2728.3 | 2909.0 |
| 45° | 22766.0 | 22092.9 | 19960.9 | 11075.8 | 4973.3 | 2999.3 | 2416.6 | 2430.2 | 2561.2 | 2723.8 | 2841.2 |
| 47.5° | 22666.6 | 22169.7 | 20313.2 | 11039.7 | 4828.7 | 2881.9 | 2263.0 | 2425.7 | 2502.4 | 2633.4 | 2800.6 |
| 50° | 22598.8 | 22571.7 | 20611.3 | 11211.3 | 4634.5 | 2696.7 | 2077.8 | 2366.9 | 2443.7 | 2574.7 | 2755.4 |
| 52.5° | 23195.1 | 23136.3 | 21356.6 | 11663.0 | 4480.9 | 2497.9 | 1888.1 | 2217.9 | 2403.1 | 2529.6 | 2705.7 |
| 55° | 23556.4 | 23299.0 | 22635.0 | 12218.6 | 4223.4 | 2235.9 | 1757.1 | 2032.7 | 2303.7 | 2416.6 | 2597.3 |
| 57.5° | 21189.5 | 21013.3 | 20475.8 | 11405.6 | 3789.8 | 1892.6 | 1594.5 | 1843.0 | 2168.2 | 2344.4 | 2529.6 |
| 60° | 17630.1 | 17354.5 | 15976.8 | 9693.6 | 2796.1 | 1472.6 | 1495.1 | 1693.9 | 2132.0 | 2199.8 | 2416.6 |
| 62.5° | 16622.8 | 15940.7 | 14066.1 | 7801.0 | 2145.6 | 1264.8 | 1341.6 | 1558.4 | 1942.3 | 2055.3 | 2272.1 |
| 65° | 13189.8 | 12683.9 | 10064.0 | 5632.8 | 1436.4 | 1097.6 | 1224.1 | 1404.8 | 1675.8 | 1897.2 | 2095.9 |
| 67.5° | 8257.2 | 7773.8 | 5370.8 | 2665.1 | 1002.8 | 939.5 | 1093.1 | 1282.8 | 1504.2 | 1702.9 | 1924.3 |
| 70° | 4313.8 | 3785.3 | 2479.9 | 962.1 | 691.1 | 767.9 | 912.4 | 1093.1 | 1309.9 | 1472.6 | 1644.2 |
| 72.5° | 1608.1 | 1305.4 | 808.6 | 415.6 | 478.8 | 587.2 | 740.8 | 871.8 | 1025.4 | 1224.1 | 1319.0 |
| 75° | 248.4 | 212.3 | 207.8 | 253.0 | 325.2 | 424.6 | 528.5 | 659.5 | 795.0 | 921.5 | 984.7 |
| 77.5° | 117.4 | 112.9 | 126.5 | 167.1 | 216.8 | 302.6 | 383.9 | 510.4 | 618.8 | 700.1 | 736.3 |
| 80° | 76.8 | 72.3 | 81.3 | 112.9 | 162.6 | 225.9 | 307.2 | 393.0 | 492.4 | 560.1 | 551.1 |
| 82.5° | 45.2 | 49.7 | 49.7 | 76.8 | 112.9 | 162.6 | 221.3 | 298.1 | 365.9 | 424.6 | 388.5 |
| 85° | 27.1 | 22.6 | 22.6 | 45.2 | 76.8 | 131.0 | 185.2 | 126.5 | 131.0 | 131.0 | 149.1 |
| 87.5° | 9.0 | 9.0 | 9.0 | 4.5 | 9.0 | 9.0 | 13.6 | 22.6 | 27.1 | 31.6 | 40.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 |
| 2.5° | 11929.5 | 12069.6 | 12019.9 | 11843.7 | 11979.2 | 12001.8 | 11911.5 | 12223.1 | 12281.9 | 12187.0 | 12214.1 |
| 5° | 9671.0 | 9707.1 | 9788.5 | 9960.1 | 10082.1 | 10226.6 | 10226.6 | 10235.6 | 10113.7 | 10420.8 | 10330.5 |
| 7.5° | 7534.4 | 7557.0 | 7651.9 | 8017.8 | 8121.7 | 8397.2 | 8514.6 | 8433.3 | 8189.4 | 8085.5 | 8171.4 |
| 10° | 6504.6 | 6373.6 | 6341.9 | 6387.1 | 6622.0 | 6739.4 | 6838.8 | 6811.7 | 6771.1 | 6689.8 | 6599.4 |
| 12.5° | 5818.0 | 5723.1 | 5646.3 | 5537.9 | 5551.5 | 5664.4 | 5741.2 | 5677.9 | 5696.0 | 5714.1 | 5741.2 |
| 15° | 5072.7 | 5004.9 | 4964.2 | 4801.6 | 4783.6 | 4860.3 | 4887.5 | 4923.6 | 4991.3 | 4995.9 | 4964.2 |
| 17.5° | 4282.2 | 4223.4 | 4313.8 | 4404.1 | 4340.9 | 4345.4 | 4395.1 | 4426.7 | 4408.6 | 4327.3 | 4286.7 |
| 20° | 3740.1 | 3803.4 | 3893.7 | 3979.5 | 4047.3 | 4087.9 | 4106.0 | 4056.3 | 3997.6 | 3830.5 | 3825.9 |
| 22.5° | 3582.0 | 3663.3 | 3740.1 | 3871.1 | 3934.4 | 4038.2 | 3943.4 | 3830.5 | 3749.2 | 3667.8 | 3573.0 |
| 25° | 3464.6 | 3532.3 | 3685.9 | 3735.6 | 3857.6 | 3943.4 | 3875.6 | 3762.7 | 3622.7 | 3505.2 | 3433.0 |
| 27.5° | 3378.8 | 3455.5 | 3554.9 | 3690.4 | 3785.3 | 3835.0 | 3767.2 | 3722.1 | 3577.5 | 3437.5 | 3333.6 |
| 30° | 3324.6 | 3405.9 | 3586.5 | 3699.5 | 3780.8 | 3821.4 | 3704.0 | 3649.8 | 3545.9 | 3428.4 | 3338.1 |
| 32.5° | 3288.4 | 3360.7 | 3514.3 | 3658.8 | 3713.0 | 3713.0 | 3731.1 | 3667.8 | 3523.3 | 3324.6 | 3247.8 |
| 35° | 3171.0 | 3270.3 | 3396.8 | 3564.0 | 3663.3 | 3722.1 | 3631.7 | 3559.4 | 3464.6 | 3261.3 | 3121.3 |
| 37.5° | 3103.2 | 3171.0 | 3333.6 | 3491.7 | 3577.5 | 3640.7 | 3604.6 | 3478.1 | 3351.7 | 3184.5 | 3071.6 |
| 40° | 3030.9 | 3139.4 | 3283.9 | 3433.0 | 3527.8 | 3591.1 | 3564.0 | 3414.9 | 3261.3 | 3103.2 | 3026.4 |
| 42.5° | 2981.3 | 3053.5 | 3202.6 | 3369.7 | 3482.6 | 3604.6 | 3523.3 | 3338.1 | 3229.7 | 3012.9 | 2927.1 |
| 45° | 2940.6 | 3058.0 | 3216.1 | 3283.9 | 3401.3 | 3527.8 | 3383.3 | 3270.3 | 3143.9 | 2985.8 | 2913.5 |
| 47.5° | 2890.9 | 2999.3 | 3103.2 | 3283.9 | 3338.1 | 3396.8 | 3369.7 | 3189.0 | 3080.6 | 2909.0 | 2859.3 |
| 50° | 2872.8 | 2913.5 | 3103.2 | 3202.6 | 3279.4 | 3338.1 | 3265.8 | 3130.3 | 3026.4 | 2850.3 | 2741.9 |
| 52.5° | 2800.6 | 2877.4 | 2999.3 | 3130.3 | 3225.2 | 3297.4 | 3180.0 | 3094.2 | 2954.2 | 2769.0 | 2701.2 |
| 55° | 2710.2 | 2755.4 | 2972.2 | 3107.7 | 3157.4 | 3207.1 | 3161.9 | 3021.9 | 2877.4 | 2687.6 | 2619.9 |
| 57.5° | 2592.8 | 2696.7 | 2872.8 | 3062.6 | 3125.8 | 3152.9 | 3080.6 | 2967.7 | 2787.0 | 2619.9 | 2511.5 |
| 60° | 2470.8 | 2579.2 | 2773.5 | 2927.1 | 2990.3 | 3089.7 | 2981.3 | 2913.5 | 2705.7 | 2520.5 | 2403.1 |
| 62.5° | 2348.9 | 2470.8 | 2615.4 | 2809.6 | 2863.8 | 2904.5 | 2877.4 | 2782.5 | 2615.4 | 2407.6 | 2263.0 |
| 65° | 2204.3 | 2294.7 | 2475.3 | 2574.7 | 2610.9 | 2705.7 | 2610.9 | 2574.7 | 2425.7 | 2226.9 | 2104.9 |
| 67.5° | 1987.5 | 2064.3 | 2222.4 | 2317.2 | 2344.4 | 2385.0 | 2380.5 | 2339.8 | 2172.7 | 2037.2 | 1928.8 |
| 70° | 1739.1 | 1806.8 | 1906.2 | 2019.1 | 2032.7 | 2082.4 | 2037.2 | 2028.2 | 1919.7 | 1734.5 | 1675.8 |
| 72.5° | 1395.8 | 1459.0 | 1590.0 | 1639.7 | 1644.2 | 1662.3 | 1639.7 | 1608.1 | 1581.0 | 1386.7 | 1328.0 |
| 75° | 1070.5 | 1106.7 | 1169.9 | 1215.1 | 1215.1 | 1237.7 | 1224.1 | 1192.5 | 1120.2 | 998.3 | 939.5 |
| 77.5° | 745.3 | 781.5 | 862.8 | 889.9 | 885.3 | 894.4 | 853.7 | 822.1 | 713.7 | 650.5 | 600.8 |
| 80° | 542.0 | 564.6 | 605.3 | 623.4 | 627.9 | 641.4 | 591.7 | 564.6 | 501.4 | 429.1 | 406.5 |
| 82.5° | 393.0 | 406.5 | 411.1 | 433.6 | 433.6 | 411.1 | 397.5 | 370.4 | 325.2 | 280.1 | 262.0 |
| 85° | 162.6 | 167.1 | 171.6 | 198.8 | 203.3 | 243.9 | 225.9 | 212.3 | 185.2 | 158.1 | 144.5 |
| 87.5° | 40.7 | 45.2 | 58.7 | 49.7 | 58.7 | 58.7 | 63.2 | 72.3 | 72.3 | 58.7 | 58.7 |
| 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: GALN-SA8B-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 |
| 2.5° | 12318.0 | 12354.1 | 12814.9 | 12873.6 | 13099.5 | 13329.8 | 13795.1 | 14129.3 | 14400.4 | 14576.5 | 14626.2 |
| 5° | 10425.4 | 10655.7 | 10868.0 | 11211.3 | 11523.0 | 11965.7 | 12476.1 | 13108.5 | 13903.5 | 14310.0 | 14472.6 |
| 7.5° | 8162.3 | 8433.3 | 8740.5 | 9074.8 | 9531.0 | 10326.0 | 11008.1 | 11739.8 | 12756.2 | 13176.2 | 13813.2 |
| 10° | 6662.7 | 6965.3 | 7371.8 | 7629.3 | 8180.4 | 8939.2 | 9734.3 | 10578.9 | 11550.1 | 12155.4 | 12891.7 |
| 12.5° | 5890.2 | 6138.7 | 6513.6 | 7055.6 | 7466.7 | 7959.0 | 8550.8 | 9616.8 | 11008.1 | 11581.7 | 12087.6 |
| 15° | 5036.5 | 5312.1 | 5745.7 | 6346.5 | 6838.8 | 7426.0 | 8090.0 | 9250.9 | 10732.5 | 11617.9 | 12047.0 |
| 17.5° | 4331.9 | 4530.6 | 4986.8 | 5506.3 | 6070.9 | 6712.3 | 7665.4 | 9232.9 | 11021.6 | 12155.4 | 12855.5 |
| 20° | 3844.0 | 3871.1 | 4119.6 | 4562.2 | 5330.1 | 6165.8 | 7403.5 | 9142.5 | 11947.6 | 13081.4 | 13966.7 |
| 22.5° | 3536.9 | 3509.8 | 3514.3 | 3889.2 | 4426.7 | 5628.2 | 6992.4 | 9449.7 | 13000.1 | 14553.9 | 15150.2 |
| 25° | 3383.3 | 3311.0 | 3265.8 | 3347.1 | 3835.0 | 4991.3 | 6680.7 | 9856.2 | 14133.9 | 15769.0 | 16500.8 |
| 27.5° | 3302.0 | 3175.5 | 3085.1 | 3098.7 | 3455.5 | 4670.6 | 6486.5 | 10032.4 | 15258.6 | 17462.9 | 17720.4 |
| 30° | 3270.3 | 3112.3 | 2981.3 | 2936.1 | 3171.0 | 4223.4 | 6070.9 | 10335.0 | 16265.9 | 18393.4 | 18614.8 |
| 32.5° | 3157.4 | 2963.2 | 2836.7 | 2796.1 | 2890.9 | 3830.5 | 5772.8 | 10551.8 | 17155.8 | 19405.3 | 19328.5 |
| 35° | 3026.4 | 2863.8 | 2705.7 | 2628.9 | 2696.7 | 3577.5 | 5533.4 | 10447.9 | 18203.7 | 20191.2 | 20150.6 |
| 37.5° | 3012.9 | 2800.6 | 2669.6 | 2543.1 | 2538.6 | 3265.8 | 5208.2 | 10547.3 | 18872.3 | 21600.6 | 21045.0 |
| 40° | 2895.4 | 2759.9 | 2588.3 | 2484.4 | 2425.7 | 3107.7 | 4892.0 | 10312.4 | 19852.5 | 22169.7 | 21623.1 |
| 42.5° | 2899.9 | 2696.7 | 2547.6 | 2425.7 | 2366.9 | 2877.4 | 4675.2 | 10249.2 | 20195.7 | 23095.7 | 21894.2 |
| 45° | 2827.7 | 2628.9 | 2502.4 | 2357.9 | 2326.3 | 2701.2 | 4467.4 | 9955.6 | 20801.0 | 23140.9 | 21555.4 |
| 47.5° | 2755.4 | 2579.2 | 2443.7 | 2272.1 | 2199.8 | 2638.0 | 4304.8 | 9711.7 | 20484.8 | 22716.3 | 21085.6 |
| 50° | 2705.7 | 2502.4 | 2376.0 | 2254.0 | 2050.7 | 2529.6 | 4092.5 | 9652.9 | 20042.2 | 22142.6 | 20213.8 |
| 52.5° | 2619.9 | 2439.2 | 2308.2 | 2213.4 | 1888.1 | 2430.2 | 4011.1 | 9996.2 | 20584.2 | 21713.5 | 19960.9 |
| 55° | 2538.6 | 2353.4 | 2186.3 | 2001.1 | 1752.6 | 2168.2 | 3785.3 | 10317.0 | 21374.7 | 22702.7 | 21108.2 |
| 57.5° | 2452.8 | 2276.6 | 2095.9 | 1874.6 | 1621.6 | 1897.2 | 3550.4 | 10375.7 | 19893.1 | 20981.7 | 20037.7 |
| 60° | 2339.8 | 2114.0 | 1978.5 | 1689.4 | 1481.6 | 1571.9 | 2814.1 | 9147.0 | 15430.3 | 17521.7 | 17553.3 |
| 62.5° | 2213.4 | 1969.4 | 1852.0 | 1513.2 | 1337.0 | 1355.1 | 2294.7 | 7688.0 | 12516.8 | 14504.3 | 15367.0 |
| 65° | 2046.2 | 1811.3 | 1671.3 | 1400.3 | 1233.2 | 1174.4 | 1680.3 | 5632.8 | 9508.4 | 11766.9 | 12747.1 |
| 67.5° | 1829.4 | 1608.1 | 1431.9 | 1219.6 | 1102.2 | 1007.3 | 1147.3 | 3171.0 | 5614.7 | 7900.3 | 8198.5 |
| 70° | 1599.0 | 1409.3 | 1224.1 | 1048.0 | 917.0 | 849.2 | 840.2 | 1404.8 | 2683.1 | 4250.5 | 4837.8 |
| 72.5° | 1260.3 | 1124.7 | 975.7 | 844.7 | 758.9 | 659.5 | 600.8 | 582.7 | 907.9 | 1730.0 | 2389.5 |
| 75° | 903.4 | 790.5 | 704.7 | 618.8 | 555.6 | 501.4 | 456.2 | 415.6 | 379.4 | 433.6 | 596.3 |
| 77.5° | 569.1 | 528.5 | 460.7 | 438.2 | 402.0 | 388.5 | 370.4 | 347.8 | 320.7 | 302.6 | 302.6 |
| 80° | 383.9 | 356.8 | 334.3 | 329.7 | 316.2 | 311.7 | 316.2 | 293.6 | 266.5 | 243.9 | 253.0 |
| 82.5° | 257.5 | 253.0 | 248.4 | 243.9 | 248.4 | 253.0 | 262.0 | 257.5 | 234.9 | 221.3 | 225.9 |
| 85° | 153.6 | 162.6 | 171.6 | 180.7 | 198.8 | 176.2 | 144.5 | 122.0 | 108.4 | 99.4 | 94.9 |
| 87.5° | 58.7 | 81.3 | 72.3 | 67.8 | 72.3 | 67.8 | 63.2 | 58.7 | 49.7 | 45.2 | 45.2 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 | 13831.2 |
| 2.5° | 14956.0 | 15046.3 | 15123.1 | 15105.0 | 14946.9 | 14734.6 | 14648.8 | 14210.7 | 14120.3 | 14061.6 |
| 5° | 15159.2 | 15683.2 | 15796.1 | 15728.4 | 15317.3 | 14797.9 | 14292.0 | 13650.5 | 13275.6 | 13262.1 |
| 7.5° | 14784.3 | 15430.3 | 15633.5 | 15787.1 | 15240.5 | 14337.1 | 13469.9 | 12507.7 | 12272.8 | 12290.9 |
| 10° | 13831.2 | 14861.1 | 15362.5 | 15520.6 | 14892.7 | 14111.3 | 12909.7 | 11934.1 | 11432.7 | 11423.6 |
| 12.5° | 13302.7 | 14111.3 | 14251.3 | 14472.6 | 14287.4 | 13497.0 | 12584.5 | 11491.4 | 11003.5 | 10994.5 |
| 15° | 12832.9 | 13366.0 | 13406.6 | 13718.3 | 13817.7 | 13284.7 | 12670.3 | 11504.9 | 11112.0 | 11071.3 |
| 17.5° | 13244.0 | 12873.6 | 12720.0 | 12760.7 | 13054.3 | 13248.5 | 13167.2 | 12272.8 | 11870.8 | 11645.0 |
| 20° | 13519.5 | 12692.9 | 12227.7 | 12272.8 | 12620.6 | 13329.8 | 13908.0 | 13384.0 | 12747.1 | 12774.2 |
| 22.5° | 14255.8 | 12720.0 | 11992.8 | 11943.1 | 12494.2 | 13754.4 | 14743.7 | 14788.8 | 14174.5 | 14025.5 |
| 25° | 15358.0 | 13031.7 | 11920.5 | 11907.0 | 12435.4 | 14210.7 | 15719.3 | 16451.1 | 15823.2 | 15547.7 |
| 27.5° | 16243.3 | 13519.5 | 12146.4 | 12191.5 | 12620.6 | 14581.0 | 16550.5 | 17521.7 | 17042.8 | 16704.1 |
| 30° | 17020.3 | 14025.5 | 12462.6 | 12254.8 | 13117.5 | 14775.3 | 16907.3 | 18741.3 | 18357.3 | 18077.2 |
| 32.5° | 17341.0 | 14743.7 | 12963.9 | 12620.6 | 13528.6 | 15010.2 | 17648.1 | 19924.7 | 19595.0 | 18903.9 |
| 35° | 17883.0 | 15145.7 | 13235.0 | 13207.9 | 14246.8 | 15574.8 | 17995.9 | 20706.2 | 20570.7 | 19956.3 |
| 37.5° | 18316.7 | 15552.2 | 14197.1 | 13899.0 | 15231.5 | 16523.4 | 18556.1 | 21785.8 | 21474.1 | 21185.0 |
| 40° | 18650.9 | 16279.5 | 15096.0 | 15489.0 | 16442.1 | 17386.1 | 19071.0 | 21853.5 | 22752.4 | 21912.2 |
| 42.5° | 18343.8 | 16929.9 | 16573.1 | 17512.6 | 18416.0 | 18370.9 | 19129.7 | 22377.5 | 23050.5 | 22612.4 |
| 45° | 18267.0 | 18032.1 | 18908.4 | 19762.1 | 19969.9 | 19188.4 | 18709.6 | 21799.3 | 22960.2 | 22766.0 |
| 47.5° | 18081.8 | 19116.2 | 20642.9 | 22034.2 | 21718.0 | 19735.0 | 18208.2 | 21695.4 | 23014.4 | 22666.6 |
| 50° | 18018.5 | 19351.1 | 21925.8 | 23280.9 | 23091.2 | 20209.3 | 17973.4 | 21026.9 | 22630.4 | 22598.8 |
| 52.5° | 18014.0 | 19834.4 | 22458.8 | 23958.5 | 24075.9 | 20959.1 | 18294.1 | 21365.7 | 22928.6 | 23195.1 |
| 55° | 18217.3 | 19680.8 | 22391.0 | 23583.5 | 23538.4 | 20624.9 | 18330.2 | 21591.5 | 23294.4 | 23556.4 |
| 57.5° | 17182.9 | 17630.1 | 18479.3 | 19423.3 | 19179.4 | 17083.5 | 16369.8 | 19960.9 | 21379.2 | 21189.5 |
| 60° | 14838.5 | 13438.2 | 12480.6 | 12435.4 | 11961.2 | 11306.2 | 13397.6 | 17815.3 | 17815.3 | 17630.1 |
| 62.5° | 12995.6 | 8821.8 | 7579.6 | 7227.3 | 7566.1 | 8320.4 | 12923.3 | 17327.4 | 16835.1 | 16622.8 |
| 65° | 11364.9 | 6734.9 | 5479.2 | 5379.8 | 5967.0 | 7105.3 | 11685.6 | 14761.7 | 13894.5 | 13189.8 |
| 67.5° | 7313.1 | 4932.6 | 4074.4 | 3898.2 | 4607.4 | 5217.2 | 7778.4 | 9079.3 | 8532.7 | 8257.2 |
| 70° | 4715.8 | 3211.6 | 2267.6 | 2127.5 | 2403.1 | 3216.1 | 4968.8 | 5294.0 | 4499.0 | 4313.8 |
| 72.5° | 2231.4 | 1386.7 | 795.0 | 655.0 | 736.3 | 1228.6 | 1964.9 | 2114.0 | 1757.1 | 1608.1 |
| 75° | 709.2 | 510.4 | 325.2 | 280.1 | 266.5 | 316.2 | 451.7 | 347.8 | 253.0 | 248.4 |
| 77.5° | 316.2 | 302.6 | 257.5 | 216.8 | 189.7 | 158.1 | 131.0 | 108.4 | 112.9 | 117.4 |
| 80° | 262.0 | 239.4 | 212.3 | 189.7 | 158.1 | 122.0 | 94.9 | 72.3 | 72.3 | 76.8 |
| 82.5° | 230.4 | 207.8 | 185.2 | 158.1 | 135.5 | 99.4 | 72.3 | 49.7 | 45.2 | 45.2 |
| 85° | 99.4 | 117.4 | 126.5 | 135.5 | 108.4 | 81.3 | 49.7 | 31.6 | 27.1 | 27.1 |
| 87.5° | 40.7 | 36.1 | 31.6 | 27.1 | 22.6 | 22.6 | 18.1 | 13.6 | 9.0 | 9.0 |
| 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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