

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: P940959

Luminaire Tested: **GALN-SB4B-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

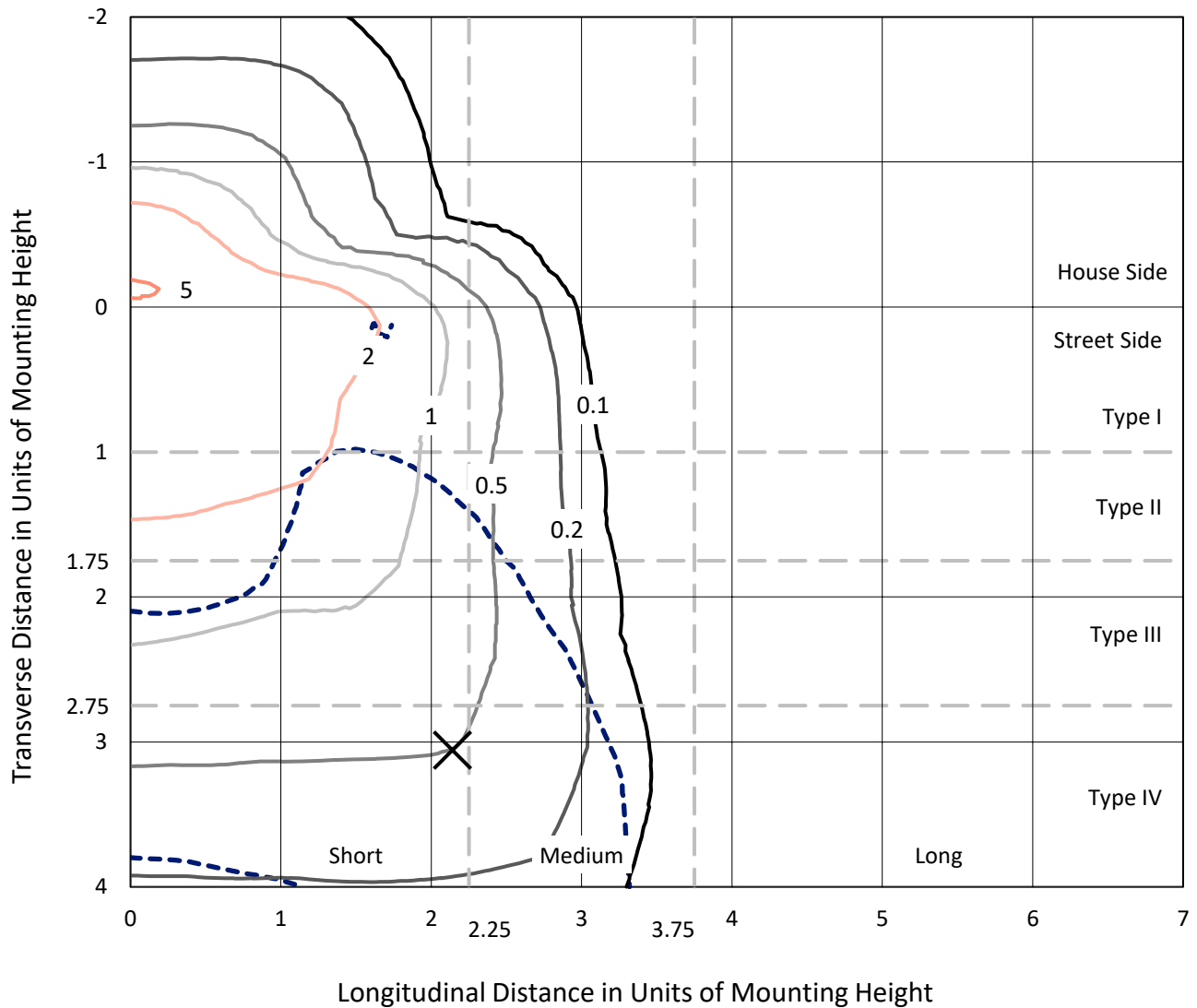
Lumens per Lamp: N/A  
Luminaire Lumens: 22306 lumens  
Efficiency: N/A  
Efficacy: 151.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

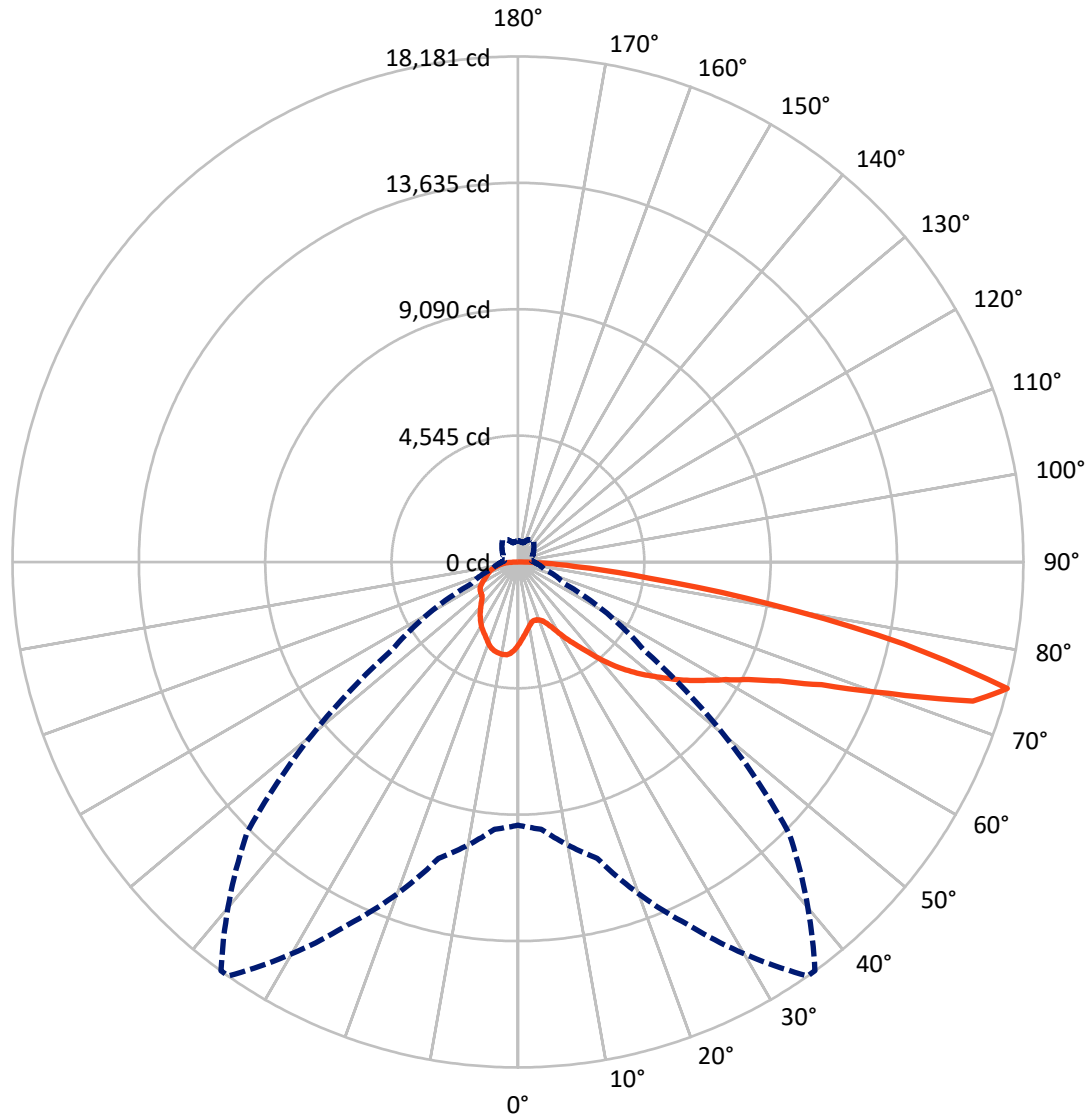
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5308.3	0.0	5308.3
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	16997.7	0.0	16997.7
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	22306.0	0.0	22306.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.4	1.3
10°-20°	811.8	3.6
20°-30°	1363.2	6.1
30°-40°	2118.5	9.5
40°-50°	3144.5	14.1
50°-60°	4341.1	19.5
60°-70°	5266.8	23.6
70°-80°	4352.6	19.5
80°-90°	626.0	2.8
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°	22306.0	100.0
0°-180°	22306.0	100.0



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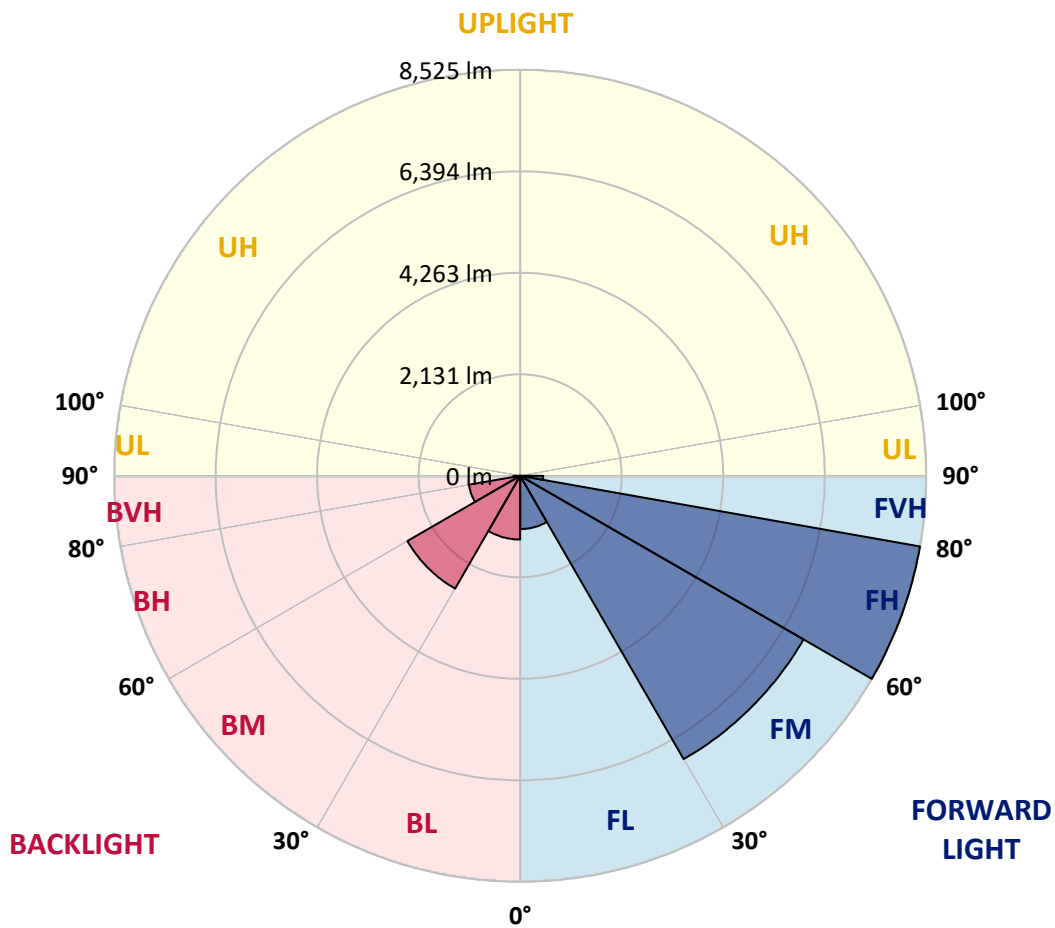
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.6	5.0			
FM (30°-60°)	6869.0	30.8			
FH (60°-80°)	8525.0	38.2			G4/12000
FVH (80°-90°)	485.1	2.2			G3/500
BL (0°-30°)	1337.8	6.0	B3/2500		
BM (30°-60°)	2735.1	12.3	B3/5000		
BH (60°-80°)	1094.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	141.0	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2.5°	2740.9	2757.8	2765.0	2761.4	2779.5	2777.1	2802.4	2833.8	2877.2	2919.4
5°	2529.9	2548.0	2563.6	2578.1	2613.1	2623.9	2663.7	2724.0	2803.6	2884.4
7.5°	2333.3	2349.0	2373.1	2399.6	2458.7	2469.6	2535.9	2630.0	2740.9	2859.1
10°	2172.9	2188.6	2213.9	2244.1	2317.6	2330.9	2415.3	2540.7	2685.4	2835.0
12.5°	2104.2	2109.0	2123.5	2153.7	2217.6	2226.0	2318.9	2462.3	2631.2	2816.9
15°	2100.6	2110.2	2111.4	2127.1	2180.2	2183.8	2269.4	2411.7	2597.4	2813.3
17.5°	2136.8	2144.0	2133.2	2142.8	2187.4	2193.4	2261.0	2387.6	2586.6	2828.9
20°	2233.2	2239.3	2206.7	2193.4	2226.0	2230.8	2297.1	2403.3	2597.4	2861.5
22.5°	2438.2	2441.9	2362.3	2308.0	2310.4	2312.8	2370.7	2467.2	2639.6	2920.6
25°	2757.8	2755.4	2628.8	2523.8	2463.6	2450.3	2488.9	2570.9	2710.8	2999.0
27.5°	3131.6	3113.5	2986.9	2830.1	2698.7	2679.4	2671.0	2705.9	2812.0	3102.7
30°	3553.6	3536.8	3400.5	3195.5	3013.4	2982.1	2902.5	2884.4	2962.8	3243.7
32.5°	4016.7	4005.8	3843.1	3594.6	3351.1	3314.9	3181.0	3132.8	3194.3	3457.2
35°	4405.0	4395.3	4260.3	4004.6	3706.8	3662.2	3525.9	3471.6	3503.0	3730.9
37.5°	4755.9	4751.1	4635.3	4433.9	4126.4	4072.2	3919.0	3900.9	3894.9	4091.5
40°	5081.5	5069.4	4948.8	4842.7	4614.8	4565.4	4430.3	4414.6	4368.8	4535.2
42.5°	5442.0	5410.7	5235.8	5186.4	5124.9	5083.9	5003.1	5005.5	4904.2	5035.6
45°	5736.2	5718.2	5538.5	5509.5	5575.9	5559.0	5628.9	5647.0	5450.5	5560.2
47.5°	6052.2	6035.3	5883.4	5862.9	6042.5	6047.3	6294.5	6300.6	5983.4	6105.2
50°	6441.7	6417.5	6266.8	6292.1	6493.5	6511.6	6963.8	6922.8	6474.2	6658.7
52.5°	6698.5	6713.0	6680.4	6721.4	6996.4	7013.2	7622.2	7517.3	6960.2	7205.0
55°	6887.8	6916.8	7018.1	7112.1	7526.9	7543.8	8243.2	8082.8	7362.9	7711.4
57.5°	7131.4	7090.4	7279.7	7463.0	8031.0	8075.6	8847.3	8627.9	7719.9	8147.9
60°	7481.1	7452.2	7599.3	7870.6	8595.3	8666.5	9486.4	9118.7	7981.5	8494.0
62.5°	8190.1	8117.8	8140.7	8380.7	9306.8	9400.8	10207.5	9546.7	8111.8	8629.1
65°	9250.1	9125.9	9010.1	9176.5	10308.8	10401.7	11021.5	9883.2	8063.5	8367.4
67.5°	10585.0	10462.0	10319.7	10476.4	11784.8	11858.3	12026.0	10072.5	7683.7	7359.3
70°	11685.9	11640.1	11810.1	12455.2	14142.2	14144.6	13313.8	9915.7	6643.0	5217.7
72.5°	11540.0	11512.3	12408.2	14402.7	17113.5	17049.5	14532.9	8729.2	4474.9	2353.8
75°	9467.1	9646.8	11034.8	14367.7	18180.6	18172.2	13786.5	5549.3	1851.0	975.5
77.5°	5076.6	5361.2	7164.0	10607.9	14192.9	14406.3	9692.6	1941.4	794.7	624.6
80°	1655.6	1904.0	2855.5	5401.0	9222.4	9182.6	4154.2	762.1	543.8	442.5
82.5°	703.0	732.0	1275.8	2550.4	4733.0	4659.4	1322.8	437.7	382.3	302.7
85°	274.9	307.5	563.1	1179.3	2049.9	2005.3	477.5	217.1	244.8	197.8
87.5°	90.4	109.7	201.4	404.0	637.9	615.0	117.0	74.8	106.1	90.4
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°
2972.4	0°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2980.9	2.5°	2997.7	3017.0	3040.0	3073.7	3102.7	3126.8	3152.1	3167.8	3173.8	3191.9
2985.7	5°	3019.5	3061.7	3118.3	3173.8	3228.1	3260.6	3289.6	3304.0	3317.3	3326.9
2999.0	7.5°	3055.6	3109.9	3199.1	3271.5	3317.3	3343.8	3363.1	3358.3	3363.1	3365.5
3013.4	10°	3087.0	3163.0	3269.1	3337.8	3372.8	3374.0	3369.2	3352.3	3343.8	3345.0
3035.1	12.5°	3124.4	3208.8	3323.3	3381.2	3390.9	3364.3	3343.8	3314.9	3304.0	3299.2
3067.7	15°	3175.0	3271.5	3382.4	3404.1	3380.0	3346.2	3311.3	3264.2	3240.1	3220.8
3123.2	17.5°	3236.5	3342.6	3428.2	3412.6	3360.7	3305.2	3248.6	3177.4	3128.0	3107.5
3199.1	20°	3322.1	3417.4	3463.2	3394.5	3316.1	3231.7	3135.2	3048.4	3002.6	2982.1
3295.6	22.5°	3425.8	3517.5	3497.0	3363.1	3252.2	3117.1	2996.5	2932.6	2909.7	2895.3
3419.8	25°	3550.0	3628.4	3521.1	3317.3	3147.3	2965.2	2872.3	2851.8	2841.0	2830.1
3571.7	27.5°	3711.6	3753.8	3539.2	3249.8	2983.3	2803.6	2769.8	2773.5	2769.8	2751.8
3782.8	30°	3925.0	3916.6	3556.1	3140.0	2795.2	2657.7	2660.1	2675.8	2678.2	2666.1
4077.0	32.5°	4206.0	4120.4	3564.5	2997.7	2615.5	2529.9	2532.3	2549.2	2561.2	2540.7
4461.7	35°	4546.1	4357.9	3551.2	2819.3	2476.8	2408.1	2390.0	2394.8	2398.4	2379.1
4928.3	37.5°	4942.8	4624.4	3492.1	2621.5	2362.3	2288.7	2250.1	2217.6	2198.3	2180.2
5456.5	40°	5378.1	4915.1	3383.6	2428.6	2234.4	2162.1	2104.2	2042.7	1977.6	1953.5
6016.0	42.5°	5833.9	5214.1	3252.2	2244.1	2087.3	2028.2	1966.7	1877.5	1779.8	1730.4
6597.2	45°	6306.6	5520.4	3123.2	2062.0	1936.6	1911.3	1840.1	1732.8	1626.7	1564.0
7179.6	47.5°	6769.7	5809.8	2933.8	1878.7	1795.5	1823.2	1767.8	1668.9	1550.7	1451.8
7757.2	50°	7212.2	6081.1	2623.9	1693.0	1681.0	1796.7	1743.7	1601.4	1466.3	1339.7
8324.0	52.5°	7651.1	6300.6	2227.2	1524.2	1619.5	1789.5	1712.3	1555.5	1390.3	1257.7
8857.0	55°	8023.7	6413.9	1845.0	1379.5	1530.2	1728.0	1674.9	1501.3	1283.0	1141.9
9222.4	57.5°	8236.0	6322.3	1526.6	1237.2	1407.2	1626.7	1611.0	1385.5	1155.2	1046.7
9293.5	60°	8144.3	5950.9	1266.1	1113.0	1290.3	1517.0	1500.1	1271.0	1057.5	955.0
8912.5	62.5°	7639.1	5243.0	1059.9	1004.5	1184.1	1404.8	1389.1	1182.9	982.8	883.9
7900.7	65°	6621.3	4265.1	899.6	914.0	1076.8	1269.8	1292.7	1109.4	923.7	827.2
6112.5	67.5°	5050.1	3089.4	774.2	835.7	971.9	1137.1	1203.4	1056.3	874.2	782.6
3536.8	70°	2878.4	1754.5	668.0	759.7	879.1	1014.1	1134.7	1014.1	821.2	745.2
1325.2	72.5°	1091.3	805.5	577.6	683.7	789.8	910.4	1058.7	947.8	759.7	703.0
684.9	75°	582.4	490.8	486.0	594.5	687.3	809.1	963.5	882.7	713.9	742.8
473.9	77.5°	396.7	347.3	406.4	508.9	575.2	697.0	862.2	783.8	618.6	616.2
328.0	80°	274.9	246.0	330.4	410.0	445.0	586.0	752.5	672.9	504.0	470.3
202.6	82.5°	165.2	160.4	247.2	306.3	314.7	452.2	623.4	564.3	412.4	359.3
120.6	85°	90.4	95.3	158.0	179.7	183.3	315.9	488.4	436.5	317.1	266.5
43.4	87.5°	25.3	32.6	57.9	71.1	88.0	164.0	290.6	259.3	159.2	110.9
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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<u>180°</u>
2972.4
3190.7
3329.4
3369.2
3347.4
3296.8
3226.9
3108.7
2979.7
2897.7
2830.1
2755.4
2672.2
2550.4
2392.4
2192.2
1964.3
1736.4
1559.2
1441.0
1328.8
1243.2
1129.9
1032.2
940.6
868.2
811.5
768.1
735.6
693.4
766.9
568.0
449.8
361.8
268.9
110.9
0.0

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