

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: P950457

Luminaire Tested: **GALN-SB4D-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24776 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

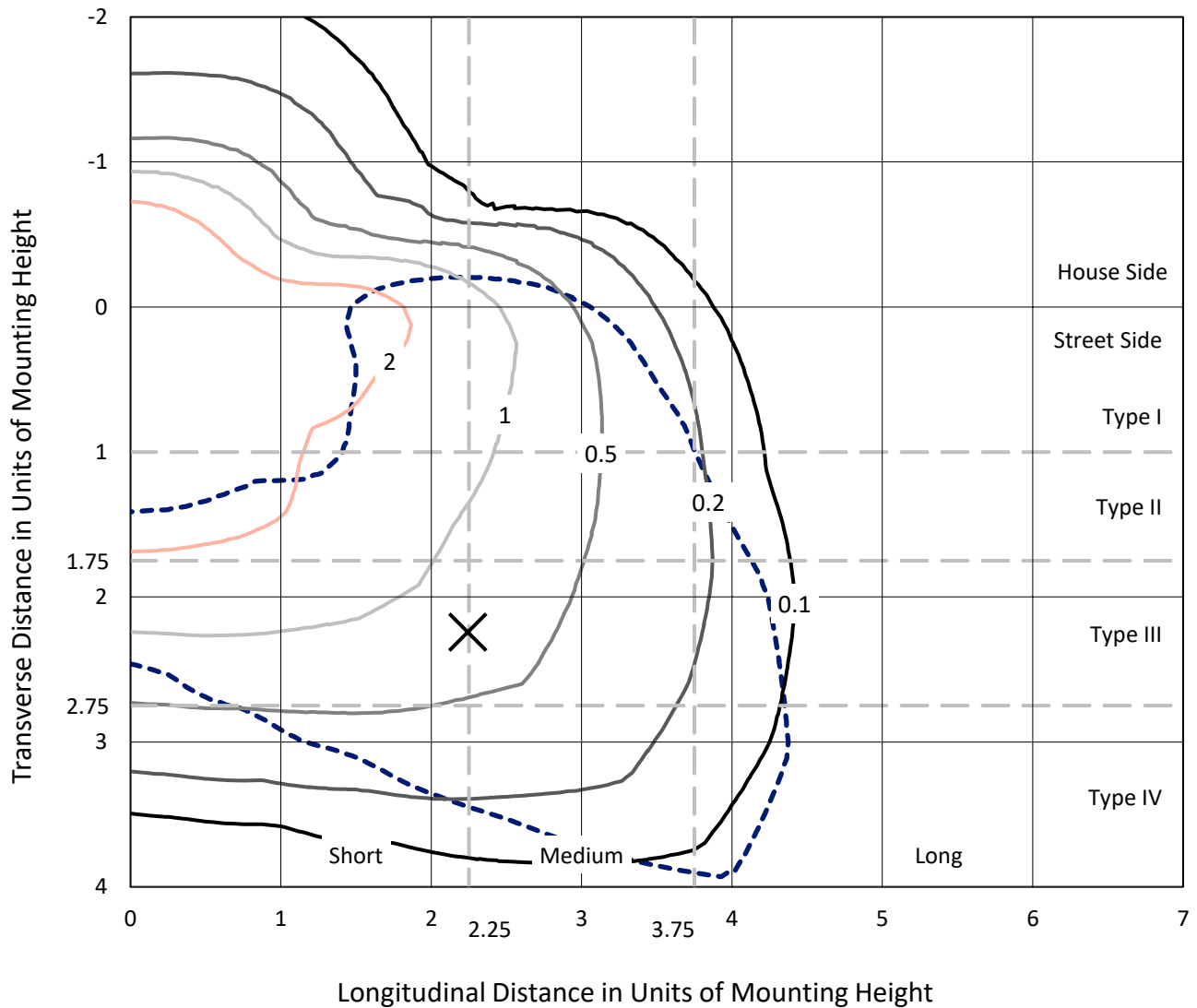
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

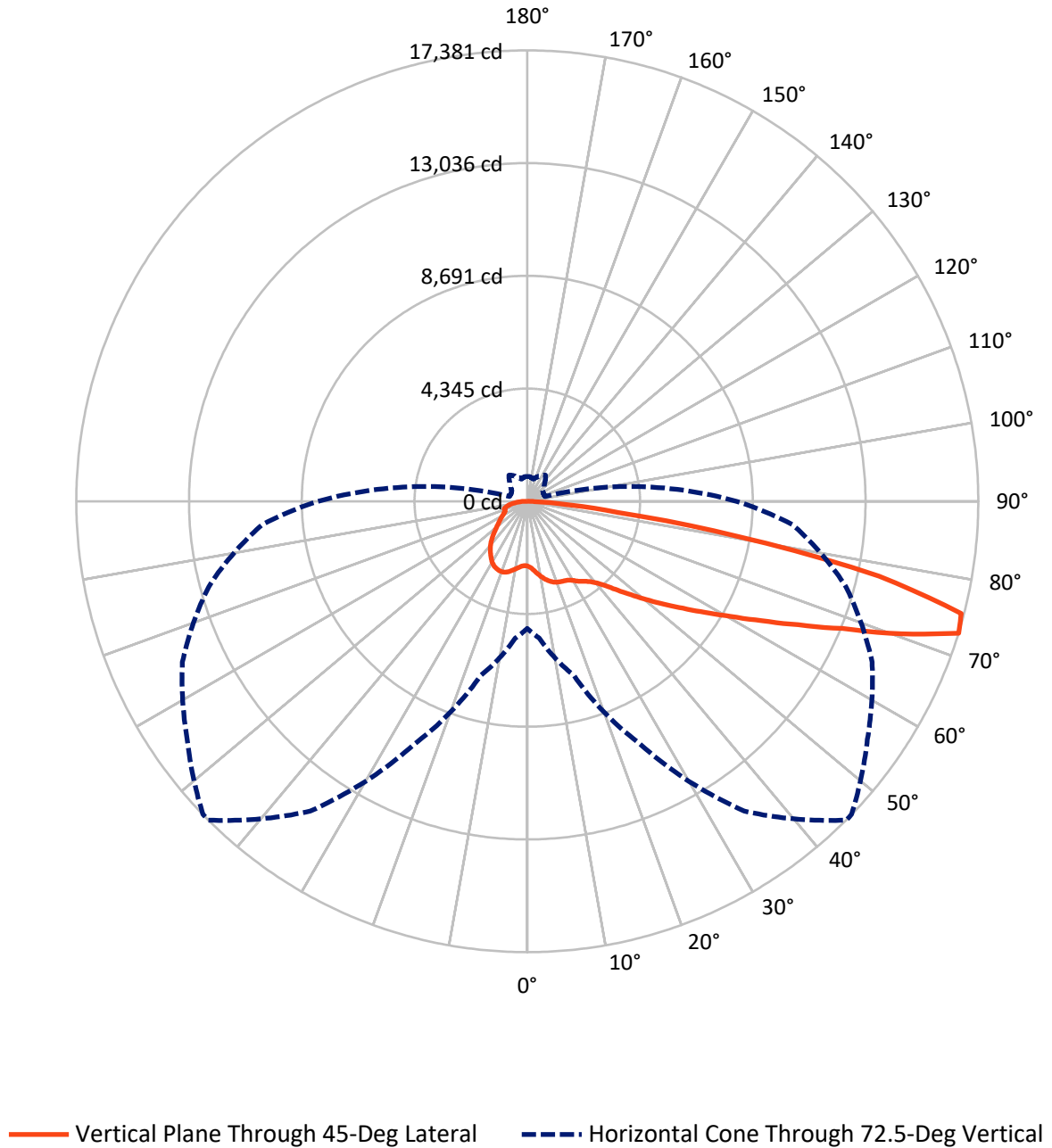
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5601.0	0.0	5601.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19175.0	0.0	19175.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	24776.0	0.0	24776.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	1.0
10°-20°	848.2	3.4
20°-30°	1475.4	6.0
30°-40°	2115.1	8.5
40°-50°	2978.2	12.0
50°-60°	4561.8	18.4
60°-70°	6608.4	26.7
70°-80°	5277.2	21.3
80°-90°	657.3	2.7
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°	24776.0	100.0
0°-180°	24776.0	100.0



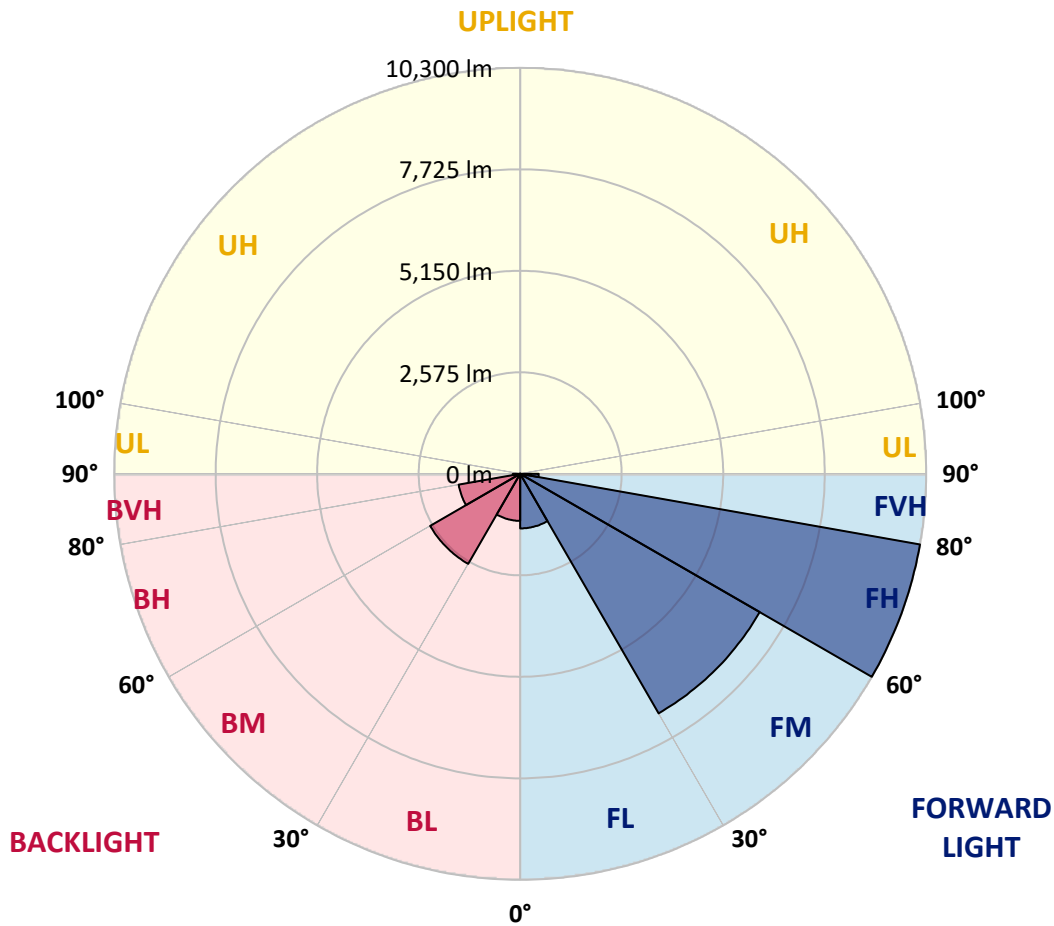
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.5	5.6			
FM (30°-60°)	7017.9	28.3			
FH (60°-80°)	10300.1	41.6			G4/12000
FVH (80°-90°)	471.5	1.9			G3/500
BL (0°-30°)	1192.5	4.8	B3/2500		
BM (30°-60°)	2637.3	10.6	B3/5000		
BH (60°-80°)	1585.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	185.7	0.7			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°	45°	46°	55°	65°	75°
0°	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4
2.5°	2597.3	2614.3	2598.6	2584.3	2577.7	2560.8	2559.5	2549.0	2542.5	2524.2
5°	2778.7	2800.9	2774.8	2746.1	2720.0	2678.2	2673.0	2643.0	2609.1	2569.9
7.5°	2983.6	3003.2	2973.2	2930.1	2884.4	2815.3	2814.0	2759.1	2705.6	2639.1
10°	3162.4	3188.6	3148.1	3089.4	3031.9	2953.6	2944.5	2881.8	2814.0	2727.8
12.5°	3320.4	3338.6	3299.5	3227.7	3161.1	3082.8	3071.1	3001.9	2926.2	2828.3
15°	3445.7	3469.2	3417.0	3340.0	3269.5	3192.5	3182.0	3119.4	3043.7	2940.6
17.5°	3527.9	3547.5	3494.0	3407.8	3340.0	3276.0	3268.2	3216.0	3149.4	3045.0
20°	3559.2	3580.1	3524.0	3436.5	3373.9	3324.3	3320.4	3282.5	3236.8	3141.6
22.5°	3590.5	3610.1	3537.0	3445.7	3390.9	3359.5	3358.2	3333.4	3315.2	3236.8
25°	3717.1	3722.4	3624.5	3492.7	3414.3	3386.9	3385.6	3384.3	3392.2	3330.8
27.5°	3826.8	3825.5	3741.9	3618.0	3496.6	3439.1	3437.8	3450.9	3475.7	3424.8
30°	3987.3	3973.0	3873.8	3744.6	3633.6	3544.9	3537.0	3525.3	3544.9	3504.4
32.5°	4328.0	4282.3	4121.8	3892.0	3747.2	3679.3	3668.9	3595.8	3603.6	3578.8
35°	4816.1	4756.1	4542.0	4171.3	3888.1	3791.5	3786.3	3693.7	3678.0	3655.8
37.5°	5396.9	5322.5	5073.2	4576.0	4130.9	3922.1	3914.2	3830.7	3766.7	3743.3
40°	5980.3	5886.4	5680.1	5069.3	4488.5	4140.0	4115.2	3988.6	3915.5	3876.4
42.5°	6546.8	6468.5	6292.3	5622.7	4929.7	4458.5	4403.7	4187.0	4132.2	4095.6
45°	7048.0	6977.5	6848.3	6214.0	5446.5	4891.8	4838.3	4484.6	4467.6	4467.6
47.5°	7455.2	7439.5	7302.5	6816.9	6056.0	5385.2	5292.5	4898.3	4944.0	5014.5
50°	7906.8	7863.7	7717.5	7410.8	6772.6	5950.3	5874.6	5406.0	5577.0	5770.2
52.5°	8321.8	8345.3	8182.2	8029.5	7581.8	6580.7	6447.6	6005.1	6374.5	6694.3
55°	8748.6	8749.9	8704.2	8683.4	8430.1	7277.7	7131.5	6725.6	7312.9	7709.7
57.5°	9149.3	9151.9	9219.8	9403.8	9414.3	8081.7	7915.9	7610.5	8355.8	8760.4
60°	9506.9	9525.2	9710.5	10141.2	10279.6	9003.1	8846.5	8655.9	9433.8	9841.0
62.5°	9627.0	9693.6	10106.0	10718.1	11134.5	10133.4	9979.4	9865.8	10566.7	10945.2
65°	9423.4	9576.1	10373.6	11194.5	12014.2	11476.4	11323.7	11199.7	11744.0	12100.3
67.5°	8923.5	9120.6	10357.9	11694.4	13081.8	13092.2	12950.0	12658.9	13006.1	13143.1
70°	7606.6	7901.5	9445.6	11881.0	14307.4	15301.9	15164.9	14415.7	14265.6	13602.6
72.5°	4900.9	5297.7	6955.3	10344.8	14580.1	17381.1	17373.2	16001.5	14663.7	12709.8
75°	1788.1	2030.9	3231.6	6493.3	12238.7	17275.3	17326.2	15730.0	13385.9	9817.6
77.5°	651.3	712.6	1054.6	2495.5	7527.0	13861.0	13966.7	12575.4	9527.8	4927.0
80°	342.0	375.9	540.3	968.4	3225.1	8231.8	8397.5	7473.5	4478.1	1484.0
82.5°	189.3	204.9	302.8	526.0	1452.7	3520.1	3619.3	2952.3	1575.4	629.1
85°	101.8	108.3	142.3	287.1	710.0	1220.3	1247.8	882.3	627.8	369.4
87.5°	30.0	36.5	47.0	91.4	278.0	274.1	280.6	174.9	248.0	186.6
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°
2499.4	0°	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4	2499.4
2519.0	2.5°	2511.2	2507.2	2492.9	2486.4	2478.5	2477.2	2483.8	2485.1	2486.4	2487.7
2547.7	5°	2534.7	2521.6	2508.6	2500.7	2503.3	2504.6	2517.7	2526.8	2533.4	2538.6
2601.2	7.5°	2580.3	2569.9	2547.7	2546.4	2550.3	2562.1	2579.0	2599.9	2611.7	2620.8
2670.4	10°	2648.2	2628.6	2602.5	2606.4	2614.3	2631.2	2666.5	2683.4	2703.0	2720.0
2755.2	12.5°	2717.4	2700.4	2670.4	2673.0	2686.1	2716.1	2750.0	2770.9	2783.9	2797.0
2846.6	15°	2807.4	2777.4	2744.8	2744.8	2768.3	2800.9	2816.6	2833.5	2841.4	2855.7
2944.5	17.5°	2900.1	2861.0	2817.9	2815.3	2844.0	2859.6	2868.8	2871.4	2874.0	2889.7
3039.8	20°	2992.8	2949.7	2888.4	2883.1	2889.7	2887.1	2885.7	2883.1	2887.1	2906.6
3137.6	22.5°	3084.1	3034.5	2949.7	2926.2	2907.9	2883.1	2881.8	2880.5	2883.1	2902.7
3243.4	25°	3191.2	3131.1	3017.6	2947.1	2885.7	2851.8	2855.7	2857.0	2859.6	2875.3
3353.0	27.5°	3307.3	3240.8	3080.2	2940.6	2829.6	2806.1	2799.6	2803.5	2812.7	2837.5
3462.6	30°	3423.5	3345.2	3137.6	2914.5	2759.1	2726.5	2705.6	2714.8	2743.5	2768.3
3557.9	32.5°	3529.2	3450.9	3183.3	2857.0	2669.1	2618.2	2590.8	2602.5	2631.2	2640.4
3663.6	35°	3653.2	3564.4	3202.9	2765.7	2571.2	2492.9	2456.3	2439.4	2453.7	2444.6
3787.6	37.5°	3791.5	3698.9	3200.3	2645.6	2456.3	2366.3	2315.4	2251.4	2221.4	2190.1
3970.4	40°	3996.5	3863.3	3169.0	2500.7	2314.1	2231.9	2140.5	2032.2	1964.3	1902.9
4265.3	42.5°	4275.8	4091.7	3111.5	2341.5	2153.5	2076.5	1952.5	1825.9	1718.9	1617.1
4713.0	45°	4692.1	4390.6	3039.8	2171.8	1980.0	1904.3	1769.8	1627.6	1506.2	1375.7
5348.6	47.5°	5292.5	4792.6	2971.9	1978.7	1797.2	1728.1	1606.7	1474.9	1331.3	1204.7
6267.5	50°	6117.4	5369.5	2909.2	1790.7	1617.1	1564.9	1468.3	1333.9	1189.0	1087.2
7344.2	52.5°	7166.7	6153.9	2883.1	1609.3	1448.7	1429.2	1352.2	1226.9	1089.8	1003.7
8599.8	55°	8371.4	7092.3	2883.1	1435.7	1301.3	1307.8	1254.3	1138.1	1019.3	942.3
9894.6	57.5°	9600.9	8042.5	2830.9	1275.2	1176.0	1203.4	1169.4	1067.6	960.6	881.0
11255.9	60°	10733.8	8838.7	2619.5	1129.0	1065.0	1108.1	1085.9	998.5	867.9	801.4
12394.0	62.5°	11604.3	9287.6	2212.3	1012.8	973.7	1023.3	1011.5	907.1	851.0	823.6
13328.5	65°	12040.3	9214.6	1691.5	909.7	896.7	973.7	948.9	944.9	900.6	869.2
13632.6	67.5°	11772.7	8585.5	1226.9	834.0	852.3	928.0	1023.3	1038.9	956.7	895.4
12776.4	70°	10599.4	7447.3	913.6	762.2	796.2	929.3	1166.8	1087.2	938.4	866.6
10247.0	72.5°	8063.4	5553.5	708.7	686.5	723.1	935.8	1230.8	1065.0	886.2	958.0
6383.6	75°	4611.2	3048.9	569.1	593.9	631.7	874.5	1198.2	1007.6	845.8	879.7
2529.4	77.5°	1758.1	1172.0	469.9	502.5	507.7	763.5	1145.9	1003.7	805.3	785.7
758.3	80°	609.5	458.1	388.9	399.4	392.9	678.7	1099.0	873.2	659.1	589.9
313.2	82.5°	249.3	228.4	308.0	295.0	279.3	527.3	887.5	713.9	539.0	476.4
151.4	85°	108.3	144.9	203.6	178.8	161.8	365.4	711.3	604.3	455.5	392.9
49.6	87.5°	22.2	54.8	86.1	80.9	83.5	244.1	505.1	429.4	322.4	241.5
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>
2499.4
2492.9
2541.2
2623.4
2716.1
2802.2
2861.0
2894.9
2914.5
2915.8
2896.2
2862.3
2795.7
2673.0
2473.3
2209.7
1906.9
1608.0
1360.0
1190.3
1080.7
997.2
934.5
867.9
790.9
814.4
858.8
884.9
854.9
950.2
879.7
716.5
570.4
471.2
391.6
189.3
0.0

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