

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: P942449

Luminaire Tested: **GALN-SB6B-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942449
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-SB6B-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23478 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

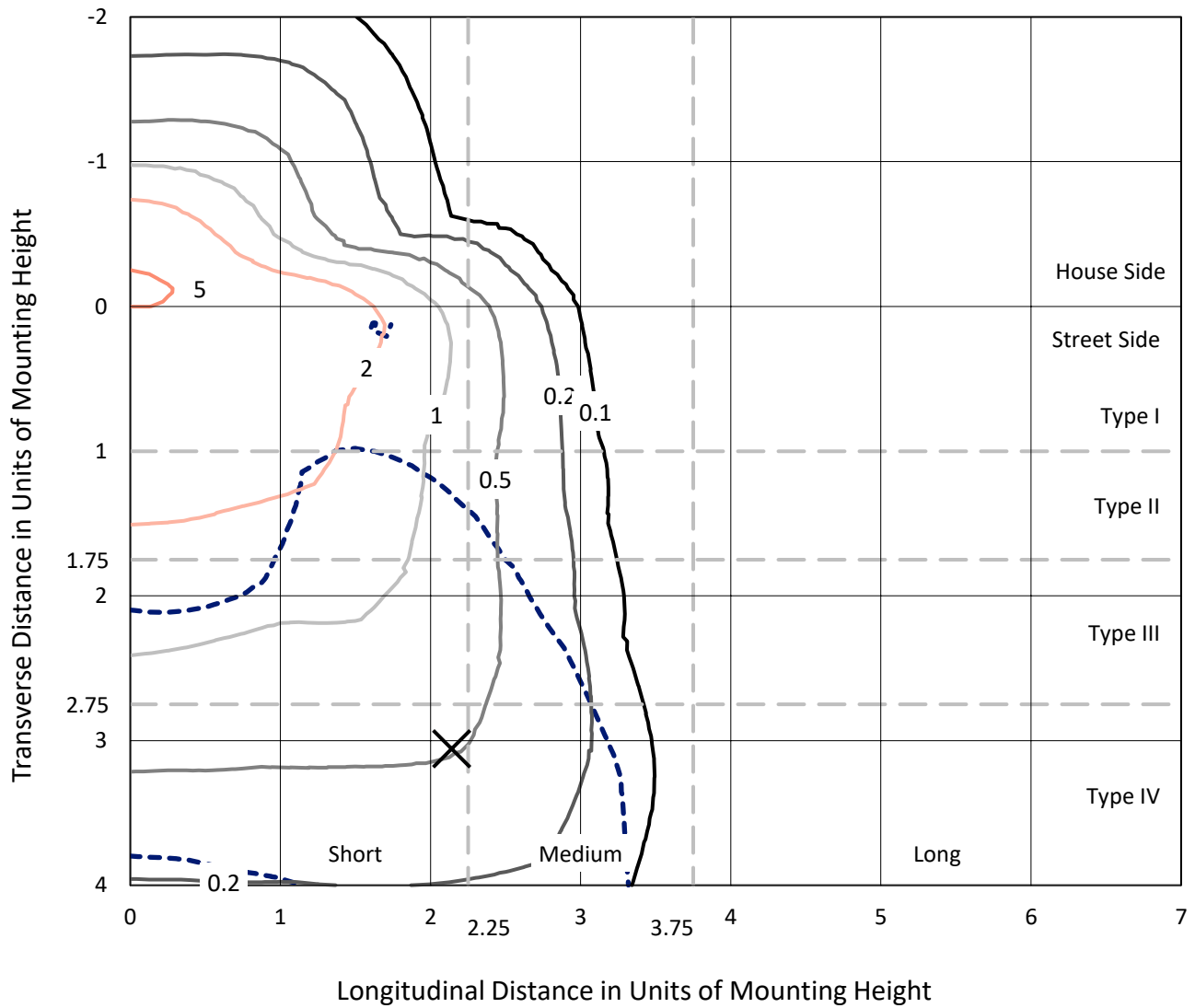
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

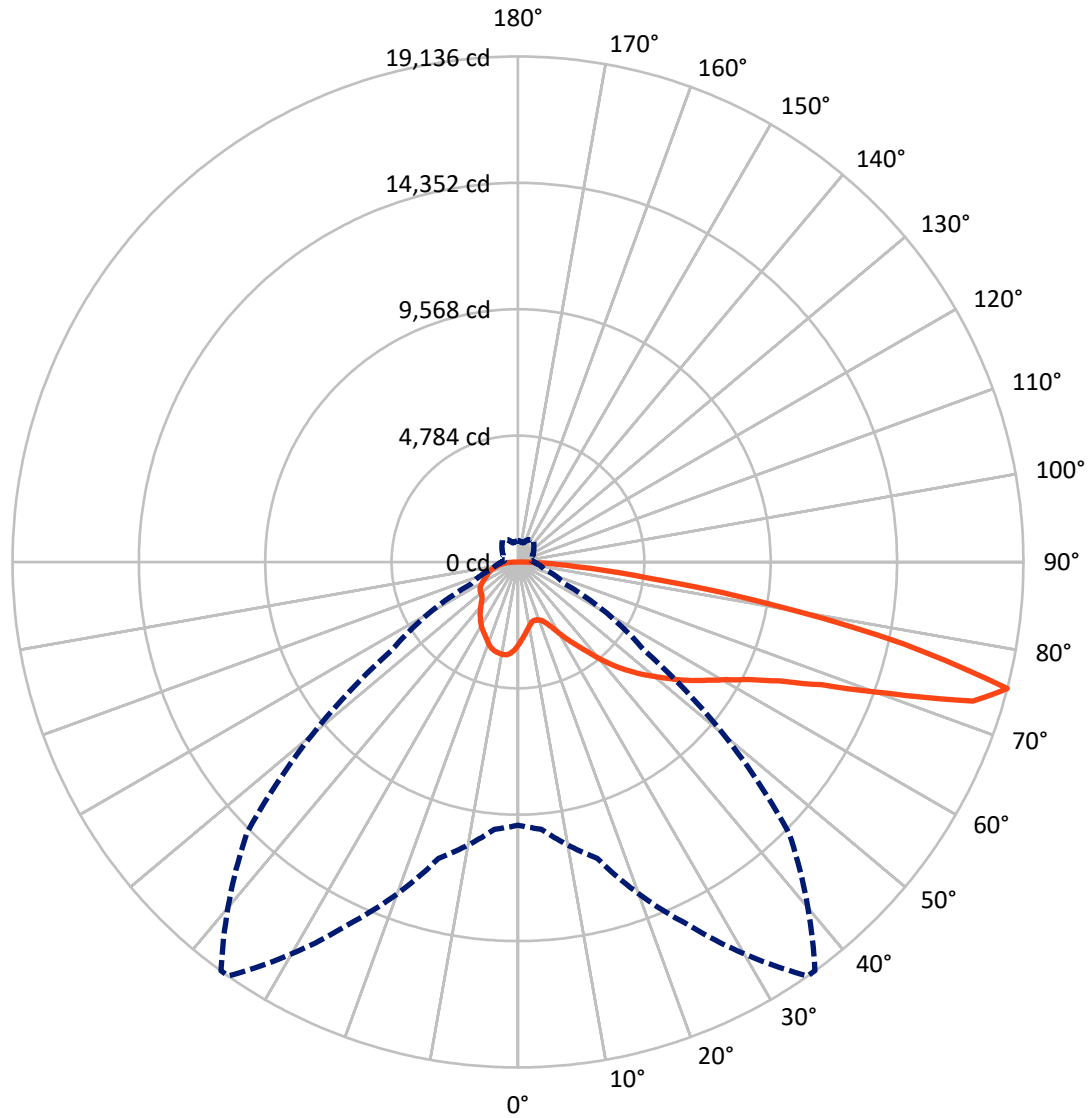
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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
House Side	Lumens	5587.2	0.0	5587.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	17890.8	0.0	17890.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	23478.0	0.0	23478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	1.3
10°-20°	854.4	3.6
20°-30°	1434.8	6.1
30°-40°	2229.9	9.5
40°-50°	3309.7	14.1
50°-60°	4569.2	19.5
60°-70°	5543.5	23.6
70°-80°	4581.3	19.5
80°-90°	658.9	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°	23478.0	100.0
0°-180°	23478.0	100.0

Coefficient of Utilization



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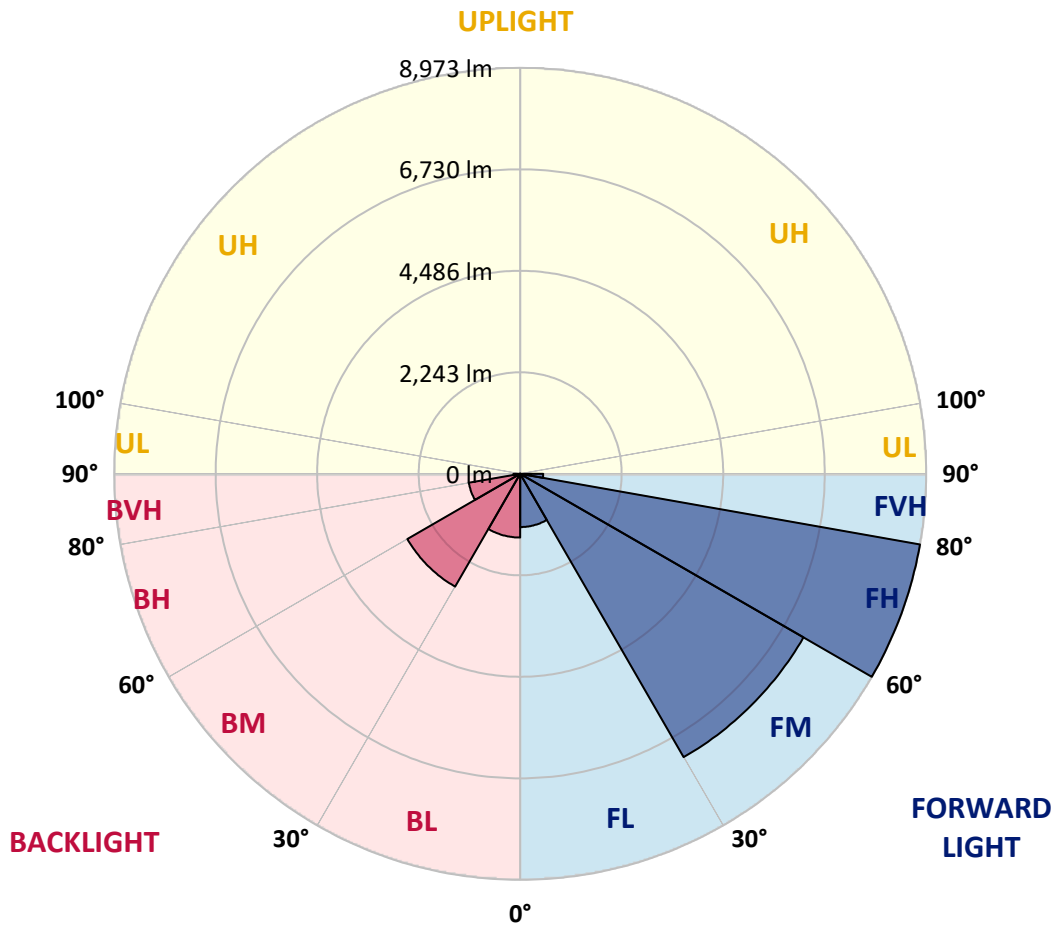
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.4	5.0			
FM (30°-60°)	7230.0	30.8			
FH (60°-80°)	8972.9	38.2			G4/12000
FVH (80°-90°)	510.6	2.2			G4/750
BL (0°-30°)	1408.0	6.0	B3/2500		
BM (30°-60°)	2878.9	12.3	B3/5000		
BH (60°-80°)	1151.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	148.4	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°	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6
2.5°	2884.9	2902.7	2910.3	2906.5	2925.5	2923.0	2949.6	2982.6	3028.3	3072.8
5°	2662.8	2681.8	2698.3	2713.6	2750.4	2761.8	2803.7	2867.1	2950.9	3036.0
7.5°	2455.9	2472.4	2497.8	2525.7	2587.9	2599.3	2669.1	2768.1	2884.9	3009.3
10°	2287.1	2303.6	2330.3	2362.0	2439.4	2453.4	2542.2	2674.2	2826.5	2983.9
12.5°	2214.8	2219.8	2235.1	2266.8	2334.1	2343.0	2440.7	2591.7	2769.4	2964.9
15°	2211.0	2221.1	2222.4	2238.9	2294.7	2298.5	2388.7	2538.4	2733.9	2961.1
17.5°	2249.0	2256.7	2245.2	2255.4	2302.3	2308.7	2379.8	2513.0	2722.5	2977.6
20°	2350.6	2356.9	2322.7	2308.7	2343.0	2348.0	2417.8	2529.5	2733.9	3011.8
22.5°	2566.3	2570.1	2486.4	2429.3	2431.8	2434.3	2495.3	2596.8	2778.3	3074.0
25°	2902.7	2900.1	2766.9	2656.5	2593.0	2579.0	2619.6	2706.0	2853.2	3156.5
27.5°	3296.1	3277.1	3143.8	2978.8	2840.5	2820.2	2811.3	2848.1	2959.8	3265.7
30°	3740.4	3722.6	3579.2	3363.4	3171.8	3138.8	3055.0	3036.0	3118.4	3414.2
32.5°	4227.7	4216.3	4045.0	3783.5	3527.1	3489.1	3348.2	3297.4	3362.1	3638.8
35°	4636.4	4626.3	4484.1	4215.0	3901.6	3854.6	3711.2	3654.1	3687.1	3926.9
37.5°	5005.8	5000.7	4878.8	4666.9	4343.2	4286.1	4124.9	4105.9	4099.5	4306.4
40°	5348.5	5335.8	5208.8	5097.1	4857.3	4805.2	4663.1	4646.6	4598.3	4773.5
42.5°	5727.9	5694.9	5510.9	5458.9	5394.1	5351.0	5266.0	5268.5	5161.9	5300.2
45°	6037.6	6018.6	5829.5	5799.0	5868.8	5851.1	5924.7	5943.7	5736.8	5852.3
47.5°	6370.2	6352.4	6192.5	6170.9	6360.0	6365.1	6625.3	6631.6	6297.8	6426.0
50°	6780.1	6754.7	6596.1	6622.7	6834.7	6853.7	7329.7	7286.5	6814.4	7008.6
52.5°	7050.5	7065.7	7031.4	7074.6	7364.0	7381.7	8022.7	7912.3	7325.9	7583.5
55°	7249.7	7280.2	7386.8	7485.8	7922.4	7940.2	8676.3	8507.5	7749.8	8116.6
57.5°	7506.1	7463.0	7662.2	7855.1	8452.9	8499.9	9312.2	9081.2	8125.5	8576.1
60°	7874.2	7843.7	7998.6	8284.1	9046.9	9121.8	9984.9	9597.8	8400.9	8940.3
62.5°	8620.5	8544.3	8568.4	8821.0	9795.8	9894.8	10743.9	10048.3	8538.0	9082.5
65°	9736.1	9605.4	9483.5	9658.7	10850.5	10948.2	11600.6	10402.4	8487.2	8807.0
67.5°	11141.1	11011.7	10861.9	11026.9	12404.0	12481.4	12657.8	10601.7	8087.4	7746.0
70°	12299.9	12251.7	12430.6	13109.7	14885.3	14887.8	14013.3	10436.7	6992.1	5491.9
72.5°	12146.3	12117.1	13060.2	15159.4	18012.6	17945.4	15296.5	9187.8	4710.0	2477.5
75°	9964.6	10153.7	11614.5	15122.6	19135.9	19127.0	14510.9	5840.9	1948.2	1026.8
77.5°	5343.4	5642.9	7540.4	11165.2	14938.6	15163.3	10201.9	2043.4	836.4	657.5
80°	1742.6	2004.1	3005.5	5684.8	9706.9	9665.0	4372.4	802.1	572.4	465.8
82.5°	739.9	770.4	1342.8	2684.4	4981.6	4904.2	1392.3	460.7	402.3	318.6
85°	289.4	323.6	592.7	1241.3	2157.7	2110.7	502.6	228.5	257.6	208.2
87.5°	95.2	115.5	212.0	425.2	671.4	647.3	123.1	78.7	111.7	95.2
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°
3128.6	0°	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6	3128.6
3137.5	2.5°	3155.3	3175.6	3199.7	3235.2	3265.7	3291.1	3317.7	3334.2	3340.6	3359.6
3142.6	5°	3178.1	3222.5	3282.2	3340.6	3397.7	3431.9	3462.4	3477.6	3491.6	3501.8
3156.5	7.5°	3216.2	3273.3	3367.2	3443.4	3491.6	3519.5	3539.8	3534.7	3539.8	3542.4
3171.8	10°	3249.2	3329.1	3440.8	3513.2	3550.0	3551.2	3546.2	3528.4	3519.5	3520.8
3194.6	12.5°	3288.5	3377.4	3497.9	3558.9	3569.0	3541.1	3519.5	3489.1	3477.6	3472.6
3228.9	15°	3341.8	3443.4	3560.1	3583.0	3557.6	3522.1	3485.3	3435.8	3410.4	3390.1
3287.3	17.5°	3406.6	3518.2	3608.4	3591.9	3537.3	3478.9	3419.3	3344.4	3292.3	3270.8
3367.2	20°	3496.7	3596.9	3645.2	3572.8	3490.3	3401.5	3299.9	3208.6	3160.3	3138.8
3468.8	22.5°	3605.8	3702.3	3680.7	3539.8	3423.1	3280.9	3154.0	3086.7	3062.6	3047.4
3599.5	25°	3736.6	3819.1	3706.1	3491.6	3312.6	3121.0	3023.3	3001.7	2990.3	2978.8
3759.4	27.5°	3906.6	3951.1	3725.1	3420.5	3140.0	2950.9	2915.4	2919.2	2915.4	2896.3
3981.5	30°	4131.3	4122.4	3742.9	3305.0	2942.0	2797.3	2799.9	2816.4	2818.9	2806.2
4291.2	32.5°	4427.0	4336.9	3751.8	3155.3	2752.9	2662.8	2665.3	2683.1	2695.8	2674.2
4696.1	35°	4784.9	4586.9	3737.8	2967.4	2607.0	2534.6	2515.6	2520.7	2524.5	2504.2
5187.3	37.5°	5202.5	4867.4	3675.6	2759.3	2486.4	2409.0	2368.3	2334.1	2313.8	2294.7
5743.2	40°	5660.7	5173.3	3561.4	2556.2	2351.8	2275.7	2214.8	2150.0	2081.5	2056.1
6332.1	42.5°	6140.4	5488.1	3423.1	2362.0	2197.0	2134.8	2070.1	1976.2	1873.4	1821.3
6943.8	45°	6638.0	5810.4	3287.3	2170.3	2038.4	2011.7	1936.8	1823.9	1712.2	1646.2
7556.9	47.5°	7125.3	6115.1	3088.0	1977.4	1889.9	1919.0	1860.7	1756.6	1632.2	1528.1
8164.8	50°	7591.1	6400.6	2761.8	1782.0	1769.3	1891.1	1835.3	1685.5	1543.4	1410.1
8761.4	52.5°	8053.1	6631.6	2344.2	1604.3	1704.5	1883.5	1802.3	1637.3	1463.4	1323.8
9322.3	55°	8445.3	6750.9	1941.9	1452.0	1610.6	1818.8	1762.9	1580.2	1350.4	1201.9
9706.9	57.5°	8668.7	6654.5	1606.8	1302.2	1481.2	1712.2	1695.7	1458.3	1215.9	1101.7
9781.8	60°	8572.2	6263.6	1332.7	1171.5	1358.1	1596.7	1578.9	1337.7	1113.1	1005.2
9380.7	62.5°	8040.4	5518.5	1115.6	1057.3	1246.4	1478.6	1462.1	1245.1	1034.4	930.3
8315.9	65°	6969.2	4489.2	946.8	962.1	1133.4	1336.5	1360.6	1167.7	972.2	870.7
6433.6	67.5°	5315.5	3251.7	814.8	879.6	1023.0	1196.9	1266.7	1111.8	920.2	823.7
3722.6	70°	3029.6	1846.7	703.1	799.6	925.3	1067.4	1194.3	1067.4	864.3	784.4
1394.9	72.5°	1148.6	847.8	608.0	719.6	831.3	958.3	1114.4	997.6	799.6	739.9
720.9	75°	613.0	516.6	511.5	625.7	723.4	851.6	1014.1	929.1	751.4	781.8
498.8	77.5°	417.6	365.5	427.7	535.6	605.4	733.6	907.5	825.0	651.1	648.6
345.2	80°	289.4	258.9	347.8	431.5	468.3	616.8	792.0	708.2	530.5	495.0
213.2	82.5°	173.9	168.8	260.2	322.4	331.3	476.0	656.2	594.0	434.1	378.2
126.9	85°	95.2	100.3	166.3	189.1	192.9	332.5	514.0	459.5	333.8	280.5
45.7	87.5°	26.7	34.3	60.9	74.9	92.7	172.6	305.9	272.9	167.5	116.8
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>
3128.6
3358.3
3504.3
3546.2
3523.3
3470.0
3396.4
3272.0
3136.2
3049.9
2978.8
2900.1
2812.6
2684.4
2518.1
2307.4
2067.5
1827.7
1641.1
1516.7
1398.7
1308.6
1189.2
1086.4
990.0
913.8
854.2
808.5
774.2
729.8
807.2
597.8
473.4
380.8
283.0
116.8
0.0

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