

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: P941719

Luminaire Tested: **GALN-SB5B-850-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941719  
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-SB5B-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

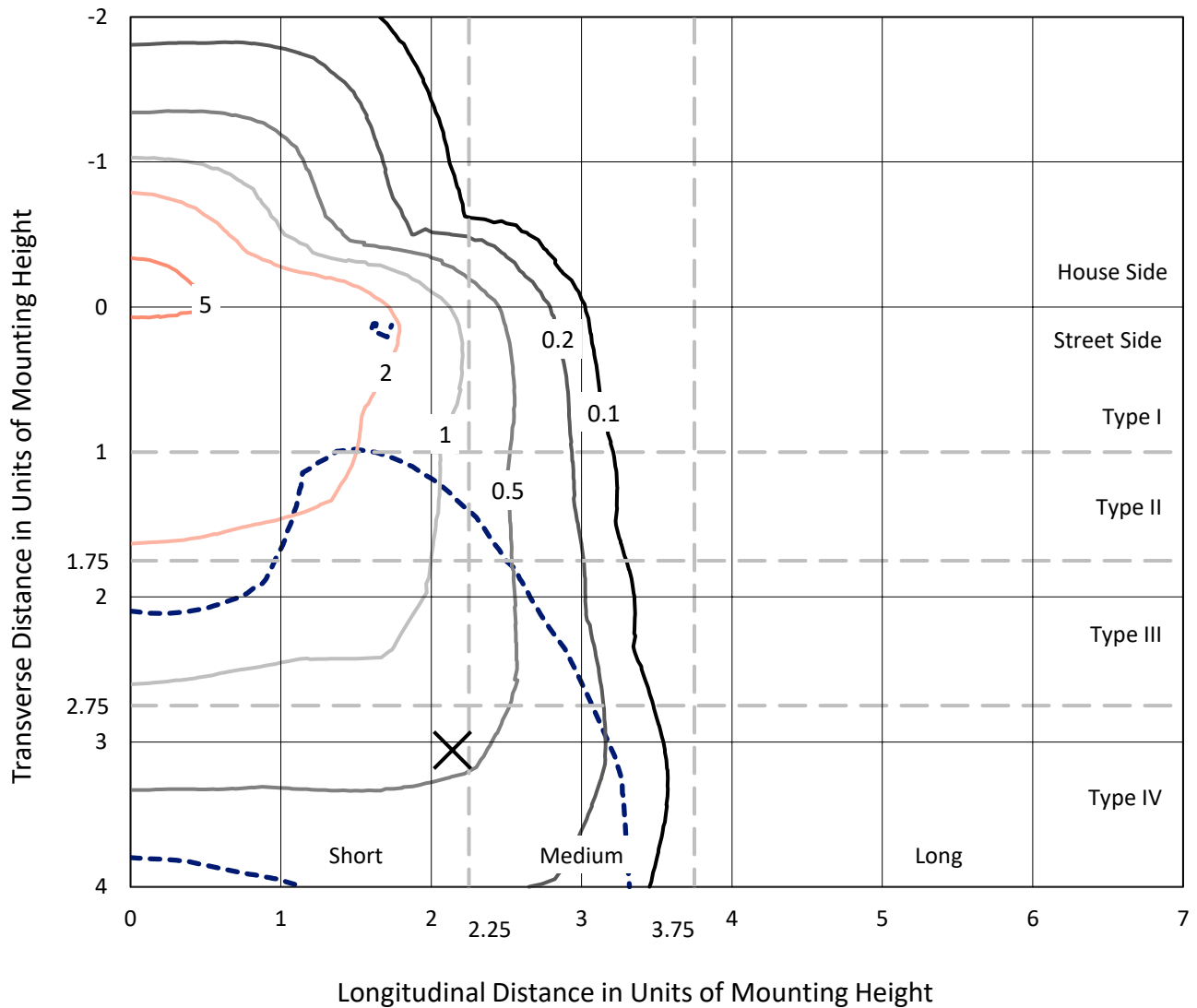
Lumens per Lamp: N/A  
Luminaire Lumens: 26892 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

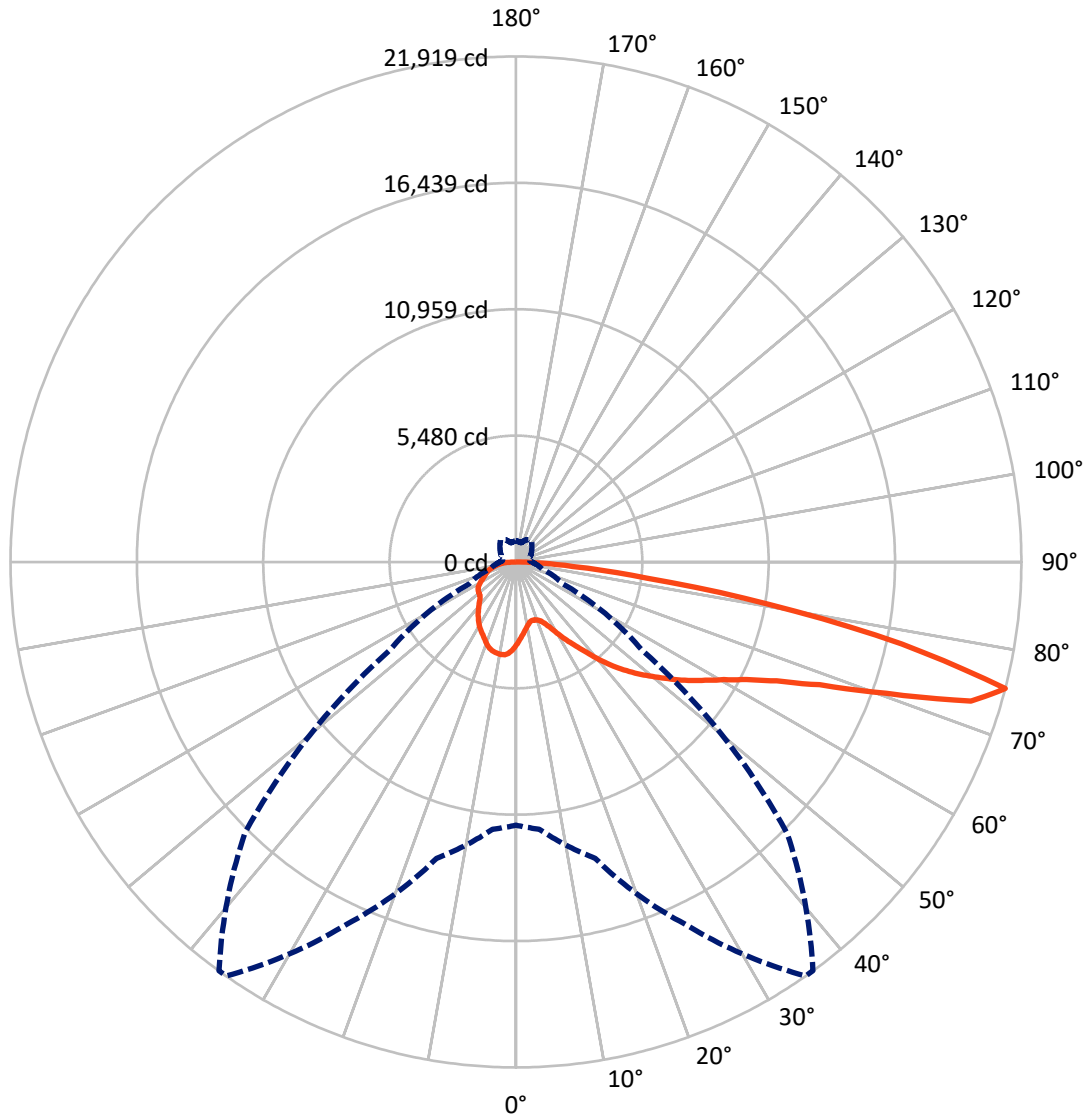
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	6399.6	0.0	6399.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	20492.4	0.0	20492.4
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	26892.0	0.0	26892.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.3	1.3
10°-20°	978.7	3.6
20°-30°	1643.4	6.1
30°-40°	2554.1	9.5
40°-50°	3791.0	14.1
50°-60°	5233.7	19.5
60°-70°	6349.6	23.6
70°-80°	5247.5	19.5
80°-90°	754.7	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°	26892.0	100.0
0°-180°	26892.0	100.0



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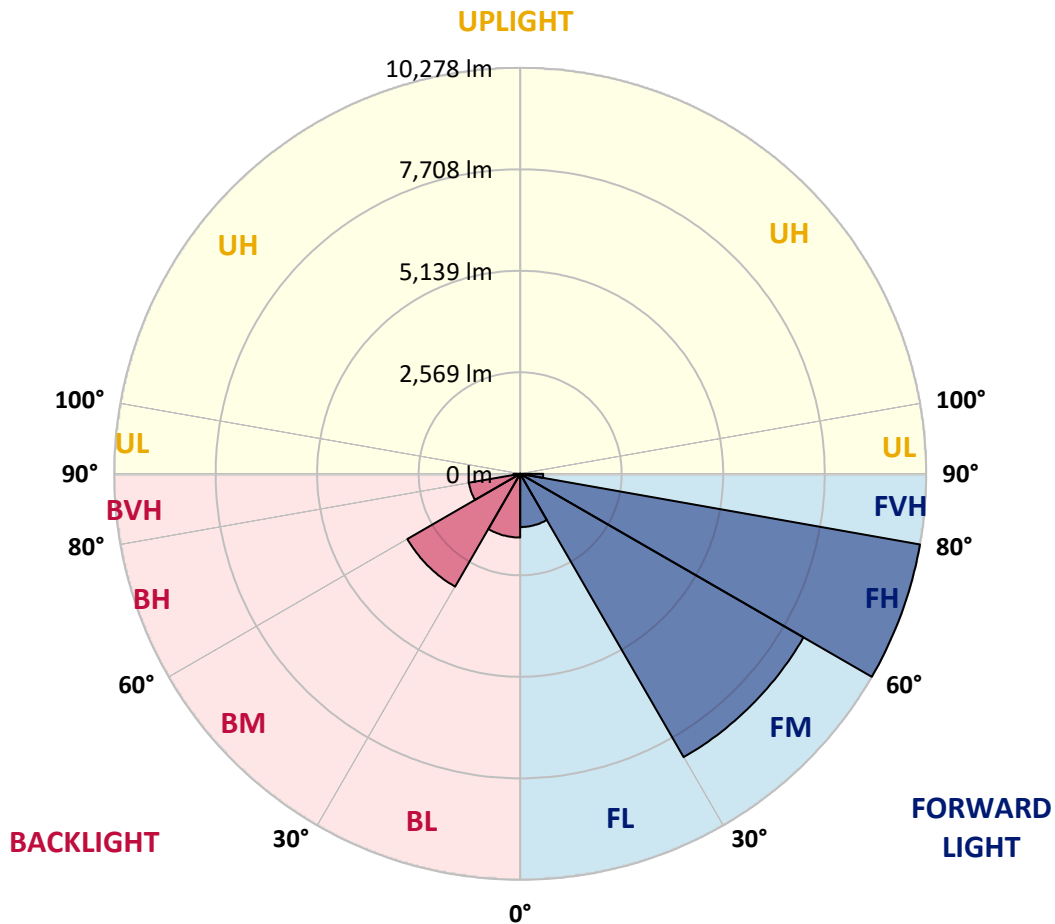
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.6	5.0			
FM (30°-60°)	8281.3	30.8			
FH (60°-80°)	10277.7	38.2			G4/12000
FVH (80°-90°)	584.8	2.2			G4/750
BL (0°-30°)	1612.8	6.0	B3/2500		
BM (30°-60°)	3297.5	12.3	B3/5000		
BH (60°-80°)	1319.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	170.0	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°	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5
2.5°	3304.4	3324.8	3333.5	3329.1	3350.9	3348.0	3378.6	3416.4	3468.7	3519.6
5°	3050.0	3071.8	3090.7	3108.2	3150.3	3163.4	3211.4	3284.1	3380.0	3477.4
7.5°	2813.0	2831.9	2861.0	2893.0	2964.2	2977.3	3057.3	3170.7	3304.4	3446.9
10°	2619.7	2638.6	2669.1	2705.5	2794.1	2810.1	2911.9	3063.1	3237.5	3417.8
12.5°	2536.8	2542.6	2560.1	2596.4	2673.5	2683.7	2795.6	2968.6	3172.1	3396.0
15°	2532.5	2544.1	2545.5	2564.4	2628.4	2632.8	2736.0	2907.5	3131.4	3391.6
17.5°	2576.1	2584.8	2571.7	2583.3	2637.1	2644.4	2725.8	2878.5	3118.3	3410.5
20°	2692.4	2699.6	2660.4	2644.4	2683.7	2689.5	2769.4	2897.4	3131.4	3449.8
22.5°	2939.5	2943.9	2847.9	2782.5	2785.4	2788.3	2858.1	2974.4	3182.3	3521.0
25°	3324.8	3321.9	3169.2	3042.7	2970.1	2954.1	3000.6	3099.4	3268.1	3615.5
27.5°	3775.4	3753.6	3601.0	3412.0	3253.5	3230.3	3220.1	3262.3	3390.2	3740.5
30°	4284.3	4263.9	4099.6	3852.5	3633.0	3595.2	3499.2	3477.4	3571.9	3910.6
32.5°	4842.5	4829.4	4633.2	4333.7	4040.0	3996.4	3835.0	3776.9	3851.0	4168.0
35°	5310.6	5299.0	5136.2	4828.0	4468.9	4415.1	4250.8	4185.4	4223.2	4498.0
37.5°	5733.7	5727.9	5588.3	5345.5	4974.8	4909.4	4724.7	4702.9	4695.7	4932.6
40°	6126.2	6111.6	5966.3	5838.3	5563.6	5504.0	5341.1	5322.2	5267.0	5467.6
42.5°	6560.9	6523.1	6312.3	6252.7	6178.5	6129.1	6031.7	6034.6	5912.5	6070.9
45°	6915.6	6893.8	6677.2	6642.3	6722.2	6701.9	6786.2	6808.0	6571.0	6703.3
47.5°	7296.5	7276.1	7092.9	7068.2	7284.8	7290.7	7588.7	7595.9	7213.6	7360.4
50°	7766.0	7737.0	7555.2	7585.8	7828.5	7850.4	8395.5	8346.1	7805.3	8027.7
52.5°	8075.7	8093.1	8053.9	8103.3	8434.8	8455.1	9189.3	9062.8	8391.2	8686.3
55°	8303.9	8338.8	8460.9	8574.3	9074.4	9094.8	9938.0	9744.6	8876.7	9296.9
57.5°	8597.6	8548.2	8776.4	8997.4	9682.1	9735.9	10666.3	10401.7	9307.0	9823.1
60°	9019.2	8984.3	9161.7	9488.8	10362.5	10448.2	11436.8	10993.4	9622.5	10240.3
62.5°	9874.0	9786.8	9814.4	10103.7	11220.2	11333.6	12306.2	11509.5	9779.5	10403.2
65°	11151.9	11002.1	10862.6	11063.2	12428.3	12540.2	13287.4	11915.1	9721.4	10087.7
67.5°	12761.2	12612.9	12441.4	12630.3	14207.7	14296.4	14498.4	12143.3	9263.4	8872.4
70°	14088.5	14033.2	14238.2	15016.0	17049.8	17052.7	16051.1	11954.3	8008.8	6290.5
72.5°	13912.6	13879.1	14959.3	17363.8	20631.9	20554.8	17520.8	10523.8	5394.9	2837.8
75°	11413.5	11630.2	13303.4	17321.7	21918.5	21908.3	16620.9	6690.2	2231.5	1176.1
77.5°	6120.4	6463.5	8636.8	12788.8	17110.9	17368.2	11685.4	2340.6	958.0	753.1
80°	1996.0	2295.5	3442.5	6511.4	11118.4	11070.5	5008.2	918.8	655.6	533.5
82.5°	847.5	882.4	1538.1	3074.7	5706.0	5617.4	1594.8	527.7	460.8	364.9
85°	331.5	370.7	678.9	1421.8	2471.4	2417.6	575.7	261.7	295.1	238.4
87.5°	109.0	132.3	242.8	487.0	769.0	741.4	141.0	90.1	127.9	109.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3583.5	0°	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5	3583.5
3593.7	2.5°	3614.1	3637.3	3665.0	3705.7	3740.5	3769.6	3800.2	3819.1	3826.3	3848.1
3599.5	5°	3640.2	3691.1	3759.4	3826.3	3891.7	3931.0	3965.9	3983.3	3999.3	4010.9
3615.5	7.5°	3683.9	3749.3	3856.8	3944.1	3999.3	4031.3	4054.6	4048.7	4054.6	4057.5
3633.0	10°	3721.6	3813.2	3941.2	4024.0	4066.2	4067.6	4061.8	4041.5	4031.3	4032.8
3659.1	12.5°	3766.7	3868.5	4006.6	4076.4	4088.0	4056.0	4031.3	3996.4	3983.3	3977.5
3698.4	15°	3827.8	3944.1	4077.8	4104.0	4074.9	4034.2	3992.1	3935.4	3906.3	3883.0
3765.3	17.5°	3901.9	4029.8	4133.1	4114.2	4051.7	3984.8	3916.5	3830.7	3771.1	3746.4
3856.8	20°	4005.1	4120.0	4175.2	4092.4	3997.9	3896.1	3779.8	3675.1	3619.9	3595.2
3973.2	22.5°	4130.2	4240.6	4215.9	4054.6	3920.8	3758.0	3612.6	3535.6	3507.9	3490.5
4122.9	25°	4279.9	4374.4	4245.0	3999.3	3794.3	3574.8	3462.9	3438.2	3425.1	3412.0
4306.1	27.5°	4474.7	4525.6	4266.8	3917.9	3596.6	3380.0	3339.3	3343.7	3339.3	3317.5
4560.5	30°	4732.0	4721.8	4287.2	3785.6	3369.8	3204.1	3207.0	3225.9	3228.8	3214.3
4915.2	32.5°	5070.7	4967.5	4297.3	3614.1	3153.2	3050.0	3052.9	3073.3	3087.8	3063.1
5378.9	35°	5480.7	5253.9	4281.4	3398.9	2986.0	2903.2	2881.4	2887.2	2891.5	2868.3
5941.6	37.5°	5959.0	5575.2	4210.1	3160.5	2847.9	2759.3	2712.7	2673.5	2650.2	2628.4
6578.3	40°	6483.8	5925.6	4079.3	2927.9	2693.8	2606.6	2536.8	2462.7	2384.2	2355.1
7252.9	42.5°	7033.3	6286.1	3920.8	2705.5	2516.5	2445.2	2371.1	2263.5	2145.8	2086.2
7953.6	45°	7603.2	6655.4	3765.3	2485.9	2334.8	2304.2	2218.5	2089.1	1961.1	1885.5
8655.7	47.5°	8161.5	7004.3	3537.0	2265.0	2164.7	2198.1	2131.2	2012.0	1869.5	1750.3
9352.1	50°	8695.0	7331.4	3163.4	2041.1	2026.6	2166.1	2102.2	1930.6	1767.8	1615.1
10035.4	52.5°	9224.2	7595.9	2685.1	1837.6	1952.4	2157.4	2064.4	1875.4	1676.2	1516.3
10677.9	55°	9673.4	7732.6	2224.3	1663.1	1844.8	2083.3	2019.3	1809.9	1546.8	1376.7
11118.4	57.5°	9929.2	7622.1	1840.5	1491.6	1696.5	1961.1	1942.2	1670.4	1392.7	1261.9
11204.2	60°	9818.8	7174.4	1526.5	1341.8	1555.5	1828.8	1808.5	1532.3	1275.0	1151.4
10744.8	62.5°	9209.6	6321.0	1277.9	1211.0	1427.6	1693.6	1674.7	1426.1	1184.8	1065.6
9525.1	65°	7982.6	5142.0	1084.5	1102.0	1298.2	1530.8	1558.4	1337.5	1113.6	997.3
7369.2	67.5°	6088.4	3724.6	933.3	1007.5	1171.7	1370.9	1450.9	1273.5	1054.0	943.5
4263.9	70°	3470.1	2115.2	805.4	915.9	1059.8	1222.6	1368.0	1222.6	990.0	898.4
1597.7	72.5°	1315.7	971.1	696.4	824.3	952.2	1097.6	1276.4	1142.7	915.9	847.5
825.7	75°	702.2	591.7	585.9	716.7	828.6	975.5	1161.6	1064.2	860.6	895.5
571.3	77.5°	478.3	418.7	489.9	613.5	693.4	840.3	1039.4	944.9	745.8	742.9
395.4	80°	331.5	296.6	398.3	494.3	536.4	706.5	907.2	811.2	607.7	567.0
244.2	82.5°	199.2	193.4	298.0	369.3	379.4	545.2	751.6	680.4	497.2	433.2
145.4	85°	109.0	114.8	190.4	216.6	221.0	380.9	588.8	526.3	382.3	321.3
52.3	87.5°	30.5	39.3	69.8	85.8	106.1	197.7	350.4	312.6	191.9	133.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3583.5
3846.7
4013.9
4061.8
4035.7
3974.6
3890.3
3747.8
3592.3
3493.4
3412.0
3321.9
3221.6
3074.7
2884.3
2643.0
2368.2
2093.4
1879.7
1737.3
1602.1
1498.8
1362.2
1244.4
1133.9
1046.7
978.4
926.1
886.8
835.9
924.6
684.7
542.3
436.1
324.2
133.7
0.0

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