

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: P947671

Luminaire Tested: **GALN-SB2D-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14071 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

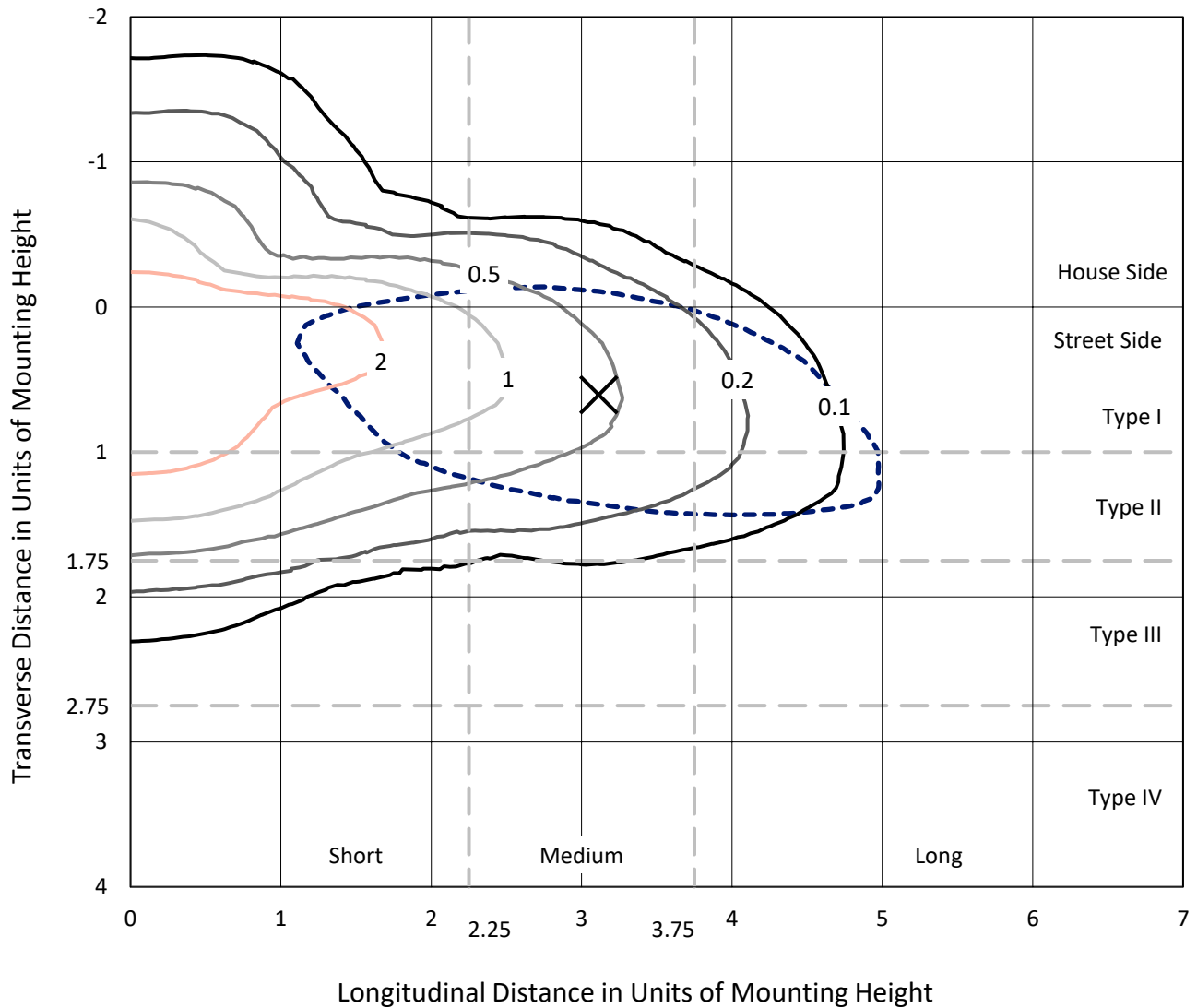
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

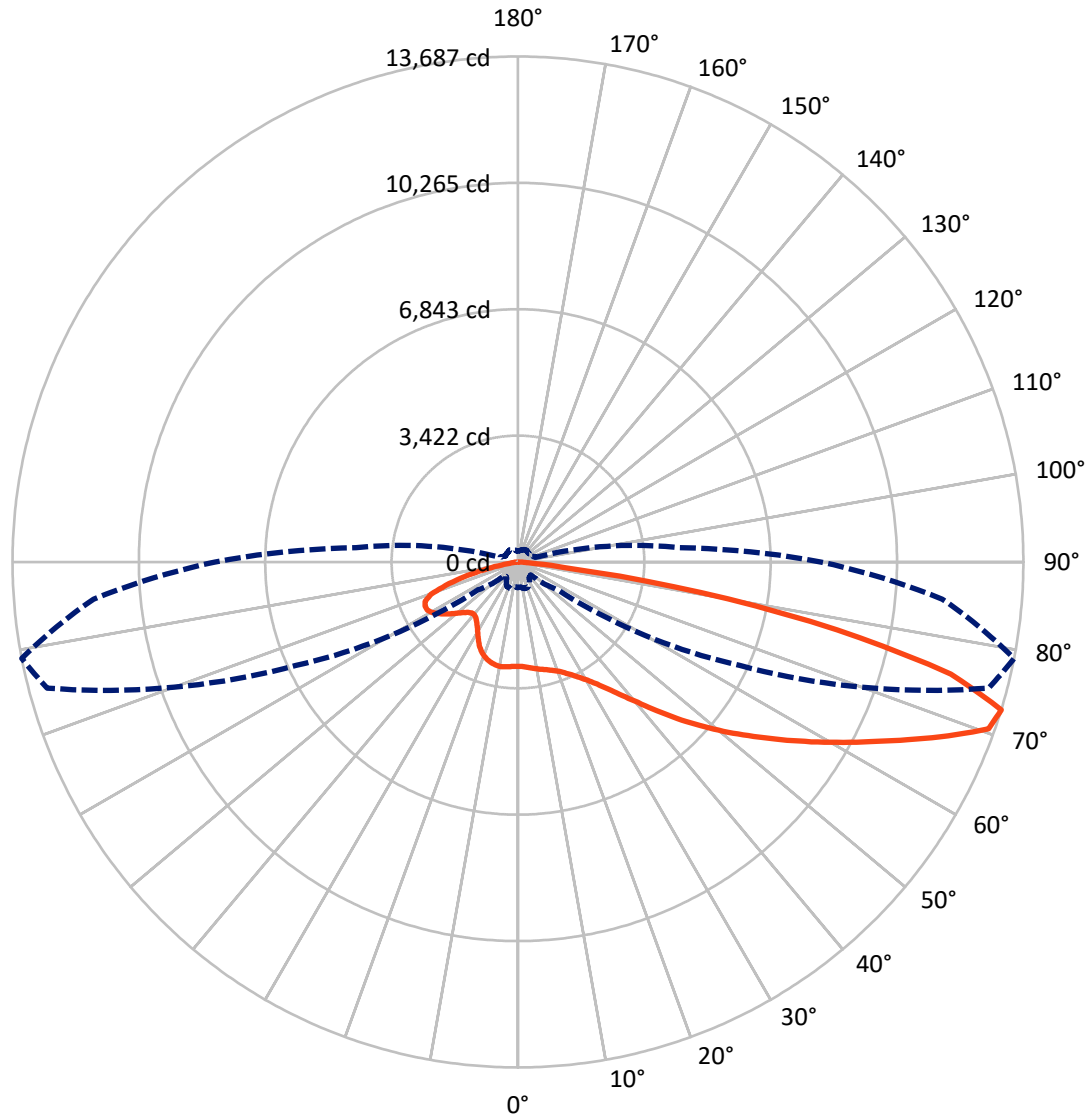
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3096.4	0.0	3096.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	10974.6	0.0	10974.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	14071.0	0.0	14071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	1.8
10°-20°	670.3	4.8
20°-30°	1081.7	7.7
30°-40°	1623.4	11.5
40°-50°	2302.9	16.4
50°-60°	2908.3	20.7
60°-70°	2953.7	21.0
70°-80°	2013.1	14.3
80°-90°	261.2	1.9
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°	14071.0	100.0
0°-180°	14071.0	100.0

Coefficient of Utilization



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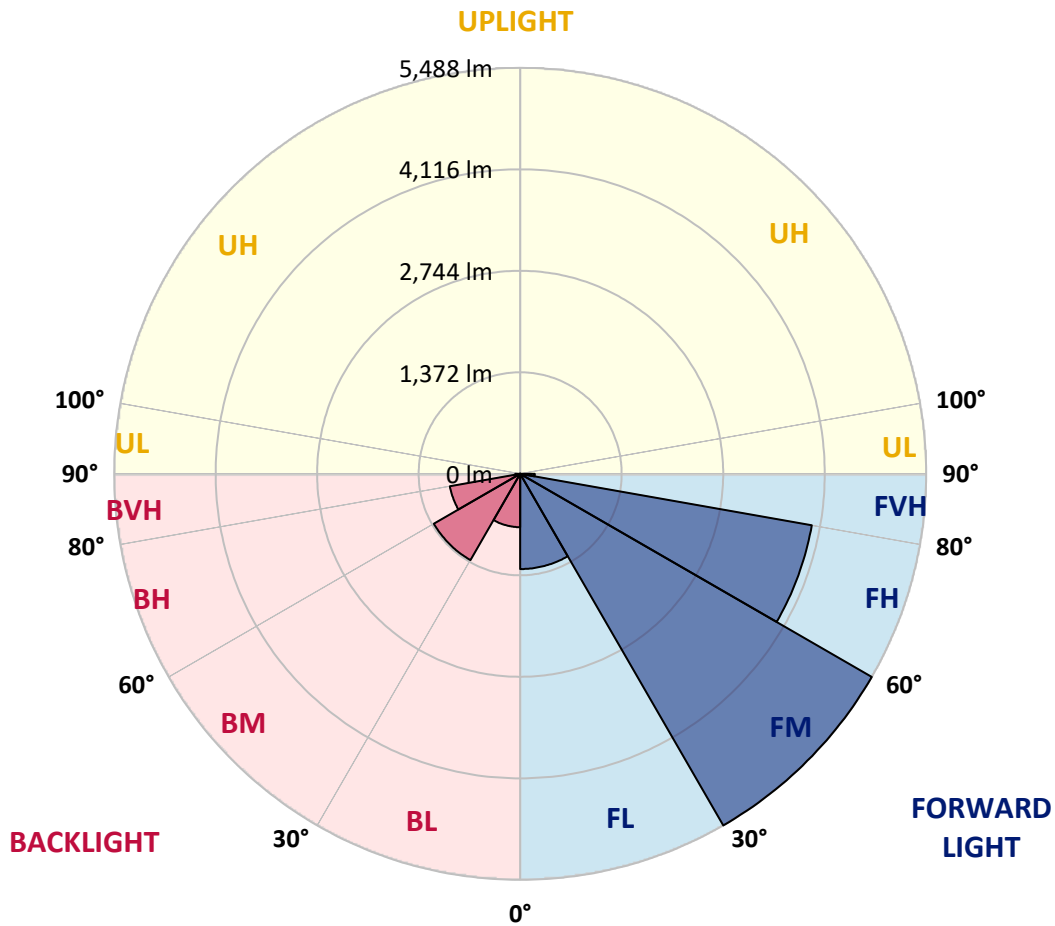
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.2	9.1			
FM (30°-60°)	5488.0	39.0			
FH (60°-80°)	4002.7	28.4			G2/5000
FVH (80°-90°)	196.7	1.4			G2/225
BL (0°-30°)	721.2	5.1	B2/1000		
BM (30°-60°)	1346.6	9.6	B2/2500		
BH (60°-80°)	964.1	6.9	B2/1000		G2/1000
BVH (80°-90°)	64.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6
2.5°	2826.1	2812.7	2820.9	2817.9	2821.6	2826.1	2827.6	2829.8	2837.3	2836.5
5°	2820.2	2806.8	2817.9	2814.2	2823.9	2834.3	2843.2	2851.4	2863.3	2868.5
7.5°	2807.5	2798.6	2809.7	2820.9	2838.8	2854.4	2867.0	2885.7	2902.8	2905.7
10°	2733.8	2727.1	2753.2	2782.2	2831.3	2873.7	2901.3	2922.9	2941.5	2944.5
12.5°	2657.2	2649.0	2678.0	2717.4	2797.1	2873.7	2931.8	2960.1	2976.5	2986.1
15°	2644.5	2637.8	2654.2	2688.4	2754.7	2853.6	2952.6	3004.7	3018.9	3030.0
17.5°	2705.5	2692.9	2699.6	2711.5	2750.2	2835.0	2969.0	3055.4	3076.9	3088.8
20°	2846.9	2829.1	2818.7	2794.8	2788.1	2838.0	2967.5	3116.4	3144.7	3159.6
22.5°	3035.3	3023.3	3001.0	2940.7	2875.2	2874.5	2995.8	3194.5	3247.4	3261.5
25°	3263.0	3245.1	3216.9	3135.0	3009.2	2946.7	3043.4	3294.3	3382.8	3386.6
27.5°	3525.0	3498.2	3459.5	3351.6	3181.9	3059.8	3116.4	3408.9	3538.4	3536.9
30°	3801.1	3774.3	3733.4	3602.4	3388.8	3212.4	3217.6	3532.4	3723.0	3714.8
32.5°	4002.8	3982.8	3974.6	3873.3	3627.0	3392.5	3333.7	3669.4	3950.7	3943.3
35°	4157.7	4131.6	4141.3	4089.9	3886.7	3594.2	3475.9	3832.4	4227.6	4226.9
37.5°	4311.0	4287.9	4296.1	4261.9	4127.1	3850.3	3649.3	4031.9	4570.7	4587.1
40°	4450.9	4426.4	4459.1	4427.1	4314.0	4122.7	3846.5	4257.4	4968.2	4999.5
42.5°	4535.0	4515.7	4570.0	4570.7	4476.2	4352.7	4063.1	4506.0	5428.2	5498.1
45°	4564.0	4557.4	4639.2	4656.3	4619.9	4485.9	4258.1	4776.9	5923.9	6048.9
47.5°	4532.8	4520.1	4633.3	4696.5	4725.6	4548.4	4419.7	5070.2	6430.0	6613.1
50°	4375.0	4350.4	4518.6	4651.9	4755.3	4589.4	4582.7	5408.8	7005.4	7205.6
52.5°	4091.4	4072.8	4264.1	4495.6	4689.8	4609.5	4765.8	5778.7	7551.7	7810.7
55°	3728.9	3704.4	3915.0	4217.2	4526.8	4602.8	4948.9	6192.6	8196.2	8459.0
57.5°	3154.3	3105.2	3371.7	3728.9	4261.1	4594.6	5139.4	6604.2	8851.2	9166.1
60°	2316.3	2243.3	2570.1	2993.6	3741.6	4514.9	5375.3	7065.6	9637.2	9920.8
62.5°	1348.7	1306.2	1519.9	1915.1	2820.2	4046.0	5507.8	7602.3	10409.8	10707.5
65°	1047.2	1035.3	1053.9	1084.4	1569.7	3029.3	5099.2	8125.5	11392.3	11600.7
67.5°	957.9	949.0	957.2	899.9	796.4	1687.3	4034.1	8258.0	12444.7	12571.2
70°	851.5	841.1	867.9	818.7	626.7	767.4	2606.5	7777.2	13282.0	13519.5
72.5°	693.7	681.8	744.3	722.0	527.7	492.7	1309.2	6634.7	13194.2	13686.9
75°	532.9	526.2	600.7	619.3	430.2	387.8	628.2	4931.7	11611.1	12107.5
77.5°	413.8	408.6	446.6	514.3	346.8	300.7	386.3	3128.3	8750.0	8837.1
80°	310.4	295.5	330.5	398.2	270.2	219.6	262.0	1824.3	5530.9	5013.6
82.5°	194.3	186.8	215.8	265.7	190.5	151.1	170.4	1007.8	2216.5	1305.5
85°	110.9	107.9	117.6	151.8	103.5	87.1	97.5	445.1	404.9	278.4
87.5°	44.7	43.2	53.6	67.7	38.0	32.0	34.2	107.2	89.3	82.6
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°
2824.6	0°	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6	2824.6
2835.8	2.5°	2832.8	2832.8	2822.4	2806.0	2787.4	2775.5	2756.1	2750.9	2730.8	2724.9
2861.1	5°	2867.0	2861.1	2829.1	2782.9	2719.7	2661.6	2597.6	2557.4	2500.8	2480.8
2911.0	7.5°	2910.2	2893.8	2838.8	2737.5	2605.1	2474.8	2339.3	2236.6	2138.4	2103.4
2951.9	10°	2949.7	2926.6	2832.8	2655.7	2426.4	2200.9	1985.0	1834.0	1719.3	1672.4
2997.3	12.5°	2989.1	2946.7	2793.4	2519.5	2172.6	1866.7	1636.7	1519.1	1448.4	1391.8
3034.5	15°	3026.3	2966.8	2732.3	2337.1	1894.2	1583.9	1414.2	1320.4	1263.8	1226.6
3088.8	17.5°	3069.5	2983.9	2640.8	2105.6	1629.3	1388.1	1249.7	1193.1	1181.9	1177.5
3163.3	20°	3129.8	2999.5	2520.2	1846.6	1434.3	1231.8	1160.4	1155.2	1154.4	1152.2
3252.6	22.5°	3194.5	3018.1	2360.9	1611.4	1268.3	1134.3	1121.7	1111.2	1104.5	1103.8
3360.5	25°	3271.2	3024.1	2161.4	1418.6	1126.9	1088.2	1073.3	1057.7	1053.2	1053.2
3483.3	27.5°	3345.6	3004.0	1929.2	1251.2	1047.2	1045.7	1026.4	1021.2	1020.4	1022.7
3623.3	30°	3420.1	2966.0	1698.5	1096.4	1001.1	1001.1	994.4	998.1	1001.1	1008.5
3815.3	32.5°	3520.5	2925.8	1505.7	981.7	960.9	953.4	960.1	967.6	970.6	980.2
4067.6	35°	3667.9	2897.6	1352.4	919.2	919.2	909.5	913.3	911.8	905.1	900.6
4372.8	37.5°	3862.9	2896.1	1225.9	890.2	884.2	882.7	883.5	873.8	847.8	816.5
4741.9	40°	4097.4	2936.3	1128.4	870.1	865.6	874.6	870.1	844.0	772.6	718.2
5196.0	42.5°	4412.2	3050.9	1065.8	845.5	858.9	870.1	852.2	762.2	713.8	677.3
5713.2	45°	4782.9	3237.0	1033.8	819.5	846.3	859.7	773.3	733.9	695.2	651.3
6277.4	47.5°	5202.7	3471.4	1026.4	794.9	818.0	826.2	739.8	722.0	678.1	630.4
6844.6	50°	5659.7	3749.0	1046.5	765.9	777.0	748.8	728.7	712.3	666.9	620.0
7425.9	52.5°	6132.3	4054.9	1086.7	726.4	736.1	704.9	724.2	710.1	660.2	596.9
8026.5	55°	6596.7	4363.1	1125.4	680.3	694.4	665.4	711.6	701.1	629.7	558.2
8667.4	57.5°	7068.6	4669.7	1163.3	639.4	654.2	627.4	691.5	677.3	595.4	522.5
9367.0	60°	7559.1	4967.5	1181.2	599.9	610.3	592.5	660.9	636.4	556.7	486.0
10054.8	62.5°	8018.3	5215.3	1152.2	560.5	567.2	559.7	620.7	588.0	518.0	445.1
10771.5	65°	8479.1	5362.7	1062.9	521.8	523.2	519.5	564.2	535.9	472.6	409.4
11399.0	67.5°	8896.6	5445.3	920.7	480.1	476.4	474.9	511.3	479.3	428.7	373.6
11876.1	70°	8985.2	5235.4	703.4	430.9	430.9	427.2	453.3	420.5	380.3	335.7
11534.4	72.5°	8206.7	4404.0	499.4	375.1	381.1	373.6	395.2	367.7	331.2	301.4
9940.9	75°	6617.6	3229.5	363.2	317.8	328.2	315.6	335.7	316.3	285.1	284.3
6850.5	77.5°	4546.9	1997.0	263.5	262.0	269.4	253.1	276.1	265.7	237.4	224.8
2981.7	80°	1940.4	796.4	192.0	202.4	202.4	187.6	214.4	217.3	192.8	186.8
575.3	82.5°	386.3	226.3	134.7	139.2	131.0	126.5	151.8	168.2	232.2	258.3
173.4	85°	116.1	83.4	81.1	75.9	67.0	67.7	89.3	169.0	208.4	119.1
57.3	87.5°	32.0	20.8	21.6	17.1	14.1	18.6	30.5	128.0	70.0	29.8
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>
2824.6
2734.6
2495.6
2107.9
1682.9
1410.4
1233.3
1180.5
1159.6
1112.0
1057.7
1028.6
1013.7
988.4
911.0
817.2
716.8
675.8
648.3
626.7
614.8
592.5
554.5
521.0
483.8
444.3
404.9
369.2
334.2
292.5
256.0
210.6
186.8
259.0
102.7
25.3
0.0

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