

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: P954089

Luminaire Tested: **GALN-SB7B-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22353 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

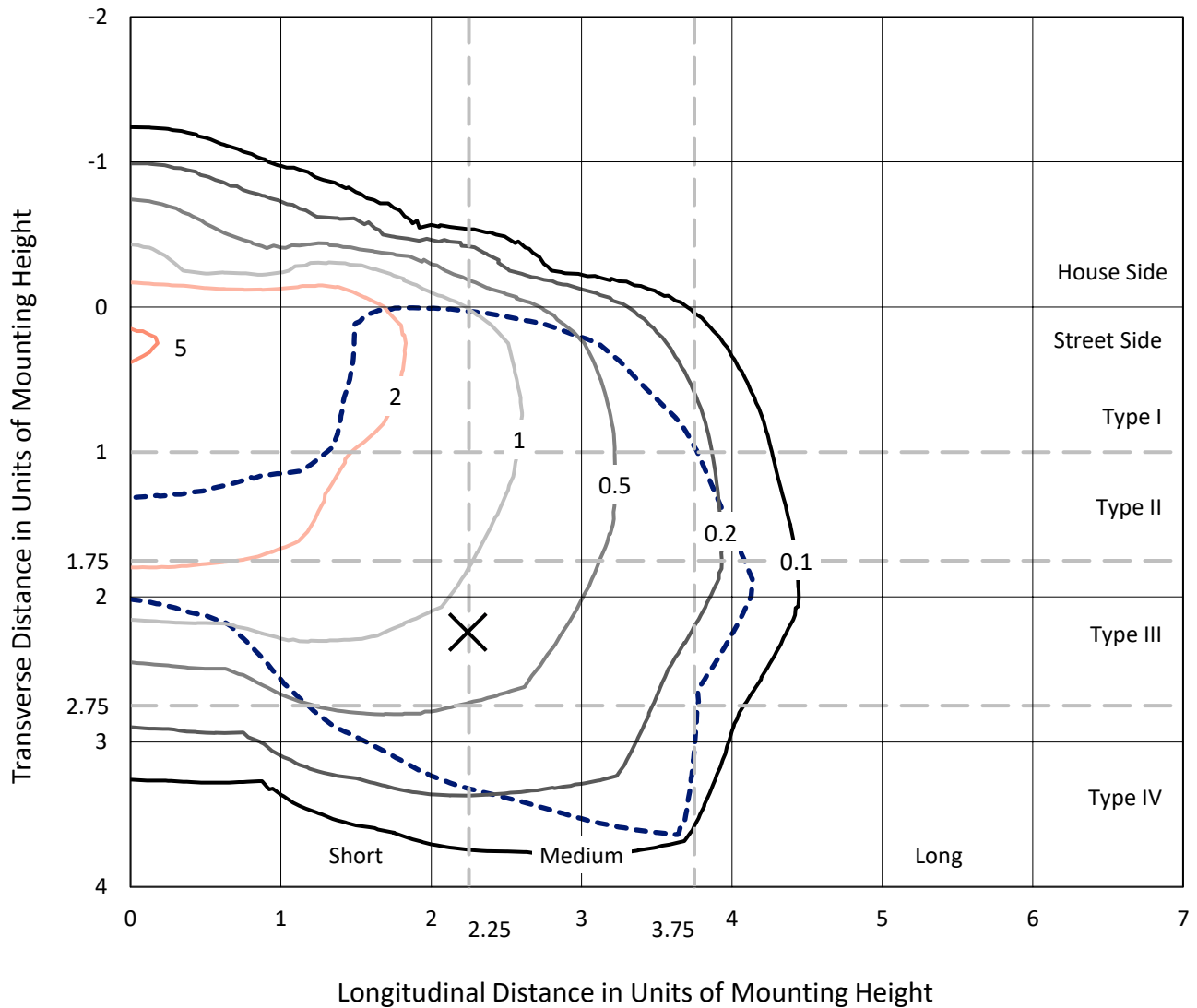
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

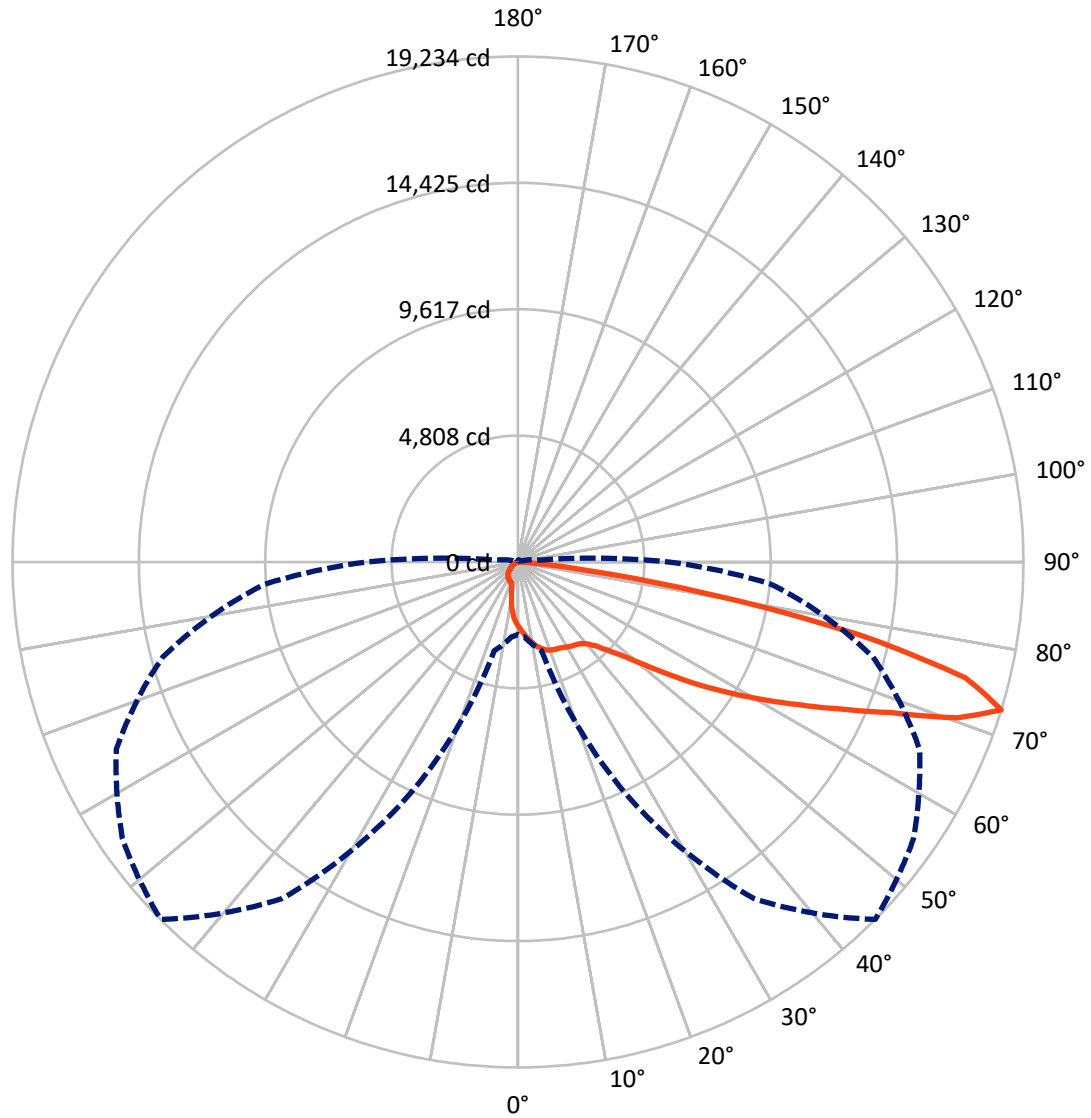
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2348.7	0.0	2348.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20004.3	0.0	20004.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	22353.0	0.0	22353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.0
10°-20°	674.3	3.0
20°-30°	1107.3	5.0
30°-40°	1570.5	7.0
40°-50°	2595.8	11.6
50°-60°	4663.1	20.9
60°-70°	6475.0	29.0
70°-80°	4696.7	21.0
80°-90°	339.6	1.5
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°	22353.0	100.0
0°-180°	22353.0	100.0

Coefficient of Utilization



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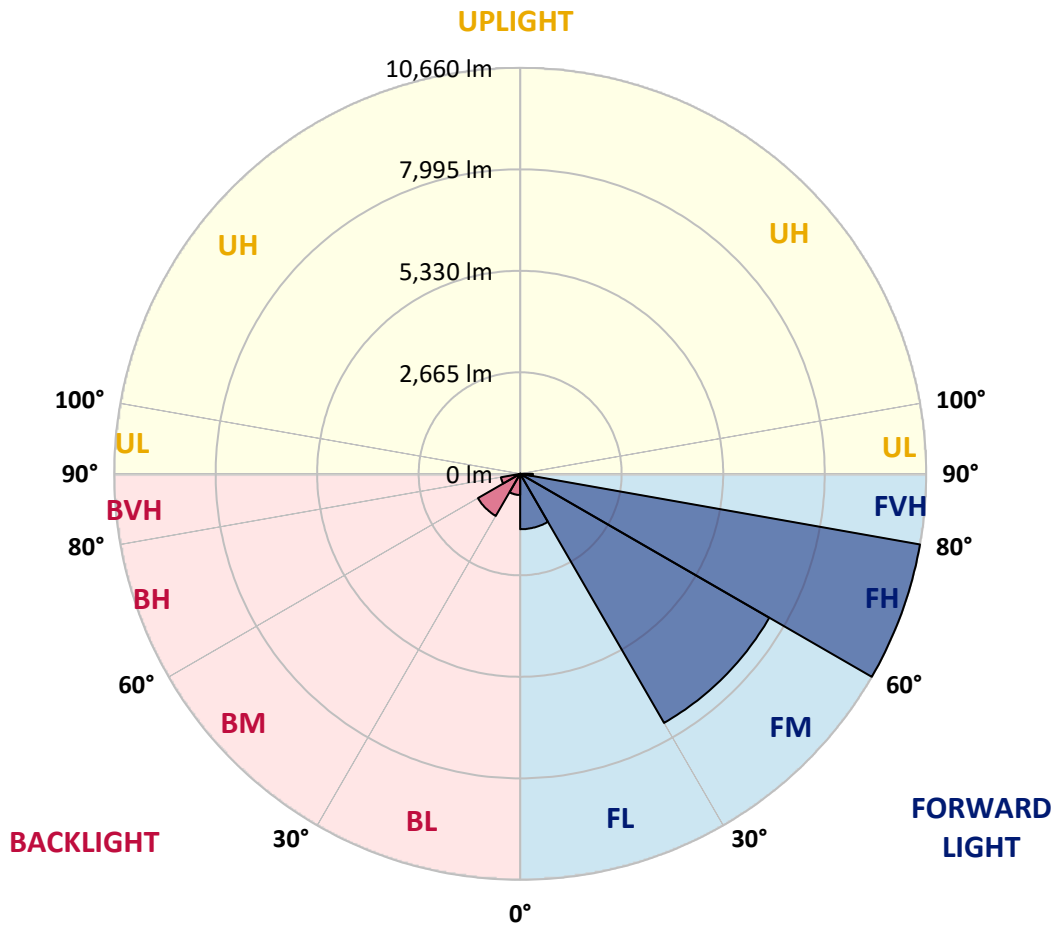
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.1	6.5			
FM (30°-60°)	7552.0	33.8			
FH (60°-80°)	10659.5	47.7			G4/12000
FVH (80°-90°)	336.7	1.5			G3/500
BL (0°-30°)	556.3	2.5	B2/1000		
BM (30°-60°)	1277.4	5.7	B2/2500		
BH (60°-80°)	512.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8
2.5°	2674.6	2679.2	2676.2	2657.8	2627.3	2610.5	2601.4	2570.9	2551.0	2516.0
5°	2920.3	2938.6	2927.9	2891.3	2833.3	2792.1	2779.9	2717.3	2660.9	2595.3
7.5°	3181.2	3190.3	3170.5	3123.2	3045.4	2975.2	2964.5	2877.6	2787.5	2686.8
10°	3407.0	3417.7	3387.2	3318.5	3230.0	3143.0	3127.8	3031.7	2924.9	2801.3
12.5°	3596.2	3606.9	3567.2	3484.8	3387.2	3297.1	3281.9	3181.2	3063.7	2926.4
15°	3739.6	3759.4	3706.0	3617.5	3512.3	3422.2	3414.6	3315.4	3201.0	3048.4
17.5°	3823.5	3843.3	3793.0	3686.2	3596.2	3519.9	3510.7	3428.3	3321.5	3175.1
20°	3837.2	3855.6	3802.2	3709.1	3634.3	3573.3	3568.7	3509.2	3431.4	3291.0
22.5°	3796.1	3818.9	3770.1	3695.4	3643.5	3611.4	3605.3	3571.8	3527.5	3408.5
25°	3753.3	3771.6	3735.0	3669.4	3642.0	3638.9	3643.5	3637.4	3628.2	3527.5
27.5°	3750.3	3770.1	3728.9	3666.4	3651.1	3683.1	3687.7	3716.7	3724.3	3635.8
30°	3776.2	3789.9	3750.3	3684.7	3677.0	3750.3	3751.8	3803.7	3815.9	3727.4
32.5°	3832.7	3847.9	3808.3	3712.1	3701.5	3803.7	3808.3	3876.9	3896.7	3825.0
35°	3965.4	3983.7	3937.9	3788.4	3750.3	3854.0	3867.8	3948.6	3988.3	3928.8
37.5°	4296.5	4243.1	4180.5	3942.5	3861.7	3933.4	3956.3	4050.8	4121.0	4052.4
40°	5118.9	4951.0	4755.7	4204.9	4057.0	4102.7	4121.0	4215.6	4311.8	4244.6
42.5°	6353.2	6154.9	5840.5	4809.1	4351.4	4374.3	4388.0	4470.4	4606.2	4552.8
45°	7453.3	7381.5	7061.1	5840.5	4902.2	4789.3	4806.1	4848.8	5048.7	5028.9
47.5°	8298.5	8257.3	8010.2	7024.5	5832.9	5297.4	5344.7	5364.5	5652.9	5723.1
50°	8948.5	8933.2	8712.0	8077.3	7048.9	6046.5	6063.3	6020.6	6452.4	6626.3
52.5°	9561.8	9613.7	9450.5	9055.3	8347.3	7027.6	7024.5	6823.1	7406.0	7668.4
55°	10115.7	10134.0	10150.8	10053.1	9653.4	8144.4	8115.4	7785.9	8512.1	8783.7
57.5°	10636.0	10643.6	10793.1	10993.0	11012.8	9343.7	9290.3	8895.1	9720.5	9914.3
60°	10985.4	11020.4	11336.3	11891.6	12134.2	10581.0	10552.0	10149.2	10950.3	11040.3
62.5°	10481.9	10695.5	11491.9	12593.5	13193.1	11952.7	11938.9	11560.6	12244.1	12170.9
65°	8484.7	8846.3	10246.9	13068.0	14232.1	13484.5	13504.4	13101.6	13573.0	13335.0
67.5°	5935.1	6316.6	7973.5	13106.1	15393.2	15283.4	15397.8	14766.1	14984.3	14450.3
70°	4104.3	4301.1	5379.8	12285.3	16298.0	17761.2	17758.1	16810.6	16388.0	14958.4
72.5°	2760.1	2862.3	3494.0	9746.5	15632.8	19233.5	19145.0	18373.0	16861.0	13989.5
75°	1164.1	1238.9	1617.3	5477.4	12367.7	17596.4	17356.9	16237.0	14981.3	11015.9
77.5°	369.2	401.3	637.8	1960.6	6812.4	13226.7	12973.4	10140.1	10040.9	5526.2
80°	175.5	204.4	358.5	787.3	2680.7	7193.9	7158.8	4600.1	4319.4	1492.2
82.5°	76.3	90.0	198.3	421.1	1199.2	2566.3	2618.2	1565.4	1295.4	566.1
85°	24.4	32.0	91.5	193.8	506.5	637.8	630.1	372.3	521.8	308.2
87.5°	0.0	0.0	30.5	44.2	51.9	36.6	41.2	32.0	144.9	85.4
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°
2448.8	0°	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8	2448.8
2479.3	2.5°	2461.0	2436.6	2393.9	2354.2	2319.1	2284.0	2262.7	2232.2	2229.1	2229.1
2519.0	5°	2477.8	2438.1	2361.9	2281.0	2187.9	2099.4	2010.9	1925.5	1898.0	1878.2
2583.1	7.5°	2526.6	2464.1	2343.5	2189.4	2012.5	1818.7	1682.9	1536.4	1480.0	1449.5
2668.5	10°	2596.8	2511.4	2328.3	2058.2	1771.4	1507.4	1313.7	1155.0	1094.0	1068.0
2761.6	12.5°	2674.6	2569.4	2300.8	1895.0	1507.4	1191.6	1002.4	929.2	920.0	920.0
2873.0	15°	2767.7	2639.5	2253.5	1702.7	1231.3	942.9	875.8	878.8	888.0	894.1
2981.3	17.5°	2863.8	2714.3	2178.8	1487.6	987.2	848.3	849.8	854.4	862.0	868.1
3098.8	20°	2967.6	2789.1	2079.6	1258.7	846.8	820.9	825.4	830.0	836.1	839.2
3208.6	22.5°	3079.0	2859.2	1962.1	1034.5	799.5	798.0	799.5	804.1	811.7	811.7
3336.8	25°	3198.0	2937.1	1827.8	871.2	775.1	775.1	778.1	781.2	787.3	787.3
3460.4	27.5°	3320.0	3008.8	1685.9	785.8	753.7	752.2	752.2	756.8	759.8	761.3
3582.4	30°	3454.3	3092.7	1544.1	767.4	736.9	729.3	724.7	727.8	730.8	732.4
3710.6	32.5°	3591.6	3173.5	1417.4	775.1	720.2	706.4	691.2	688.1	688.1	694.2
3843.3	35°	3744.2	3262.0	1319.8	801.0	711.0	672.9	648.4	634.7	636.2	645.4
4002.0	37.5°	3927.3	3368.8	1248.1	823.9	704.9	634.7	595.0	578.3	567.6	578.3
4220.2	40°	4166.8	3526.0	1196.2	842.2	697.3	590.5	537.1	509.6	489.8	495.9
4558.9	42.5°	4519.3	3773.2	1176.3	843.7	680.5	538.6	477.6	440.9	412.0	413.5
5068.5	45°	5013.6	4163.8	1278.6	823.9	643.9	482.1	415.0	366.2	347.9	343.3
5829.9	47.5°	5691.0	4732.9	1515.1	782.7	590.5	427.2	354.0	312.8	299.0	291.4
6829.2	50°	6598.8	5463.7	1777.5	736.9	537.1	375.3	303.6	277.7	268.5	260.9
8014.7	52.5°	7651.6	6205.2	1992.6	691.2	483.7	329.6	271.6	256.3	248.7	242.6
9159.0	55°	8617.4	6716.3	1980.4	642.3	431.8	292.9	248.7	239.5	230.4	224.3
10144.7	57.5°	9218.5	6788.0	1632.5	588.9	372.3	264.0	227.3	221.2	210.6	202.9
10997.6	60°	9494.7	6379.1	1144.3	518.8	312.8	236.5	204.4	201.4	187.7	177.0
11804.7	62.5°	9545.1	5619.3	762.9	431.8	260.9	210.6	181.6	177.0	158.7	140.4
12460.7	65°	9340.6	4533.0	527.9	337.2	222.8	183.1	155.6	146.5	126.6	108.3
12616.4	67.5°	8693.7	3182.7	367.7	242.6	189.2	144.9	123.6	120.5	105.3	90.0
11823.0	70°	7508.2	1814.1	245.6	181.6	149.5	99.2	97.6	100.7	85.4	73.2
9659.5	72.5°	5756.6	830.0	152.6	132.7	102.2	67.1	77.8	79.3	65.6	54.9
6026.7	75°	3388.7	355.5	96.1	85.4	51.9	44.2	56.5	58.0	44.2	35.1
2203.2	77.5°	1153.5	134.3	61.0	50.3	25.9	24.4	36.6	36.6	24.4	13.7
442.5	80°	262.4	50.3	30.5	19.8	12.2	10.7	12.2	10.7	6.1	1.5
135.8	82.5°	74.8	19.8	12.2	7.6	4.6	4.6	1.5	0.0	0.0	0.0
47.3	85°	21.4	9.2	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
16.8	87.5°	9.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2448.8
2236.7
1887.3
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920.0
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840.7
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762.9
735.4
698.8
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575.2
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