

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: P950641

Luminaire Tested: **GALN-SB5A-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18321 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

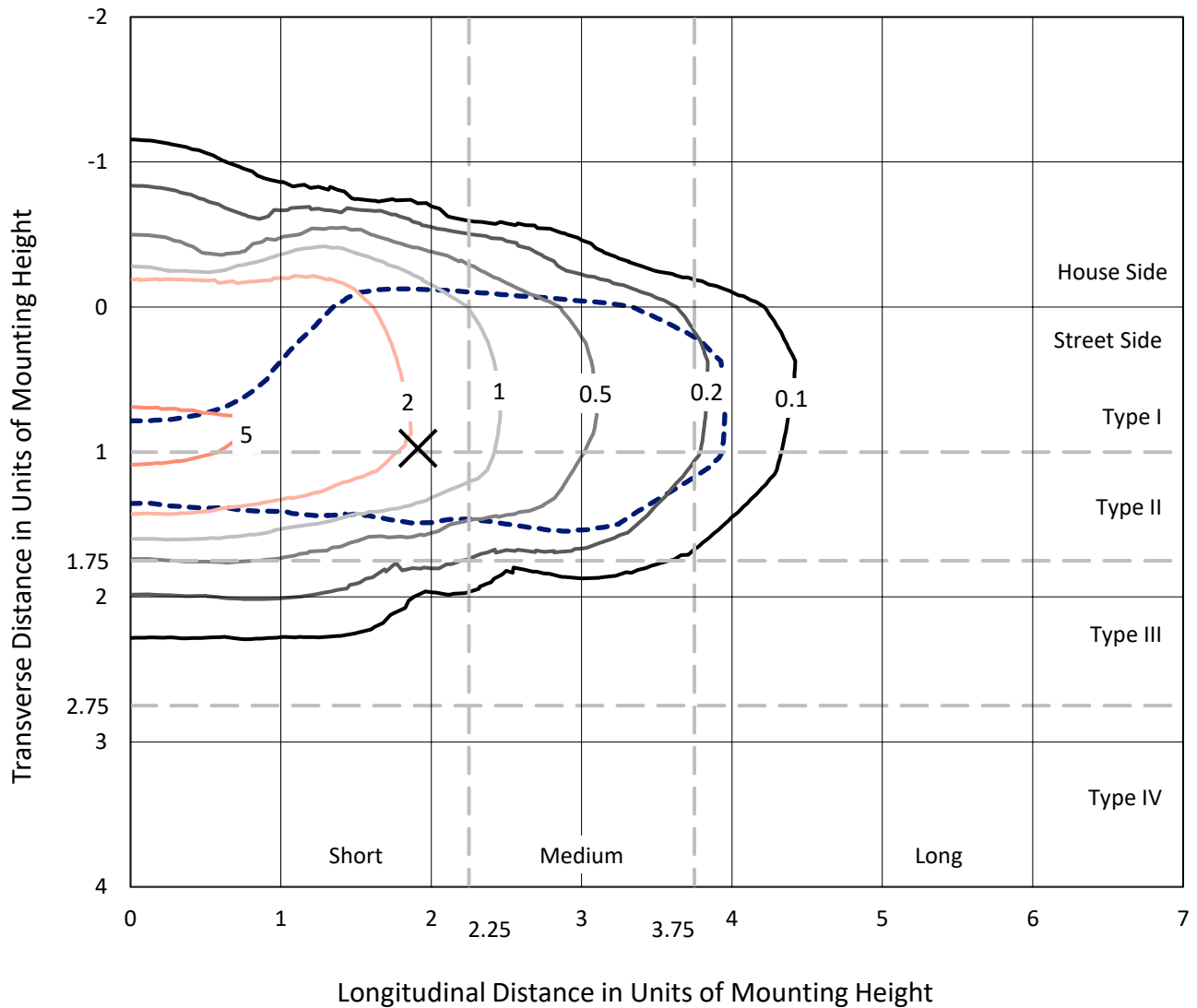
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

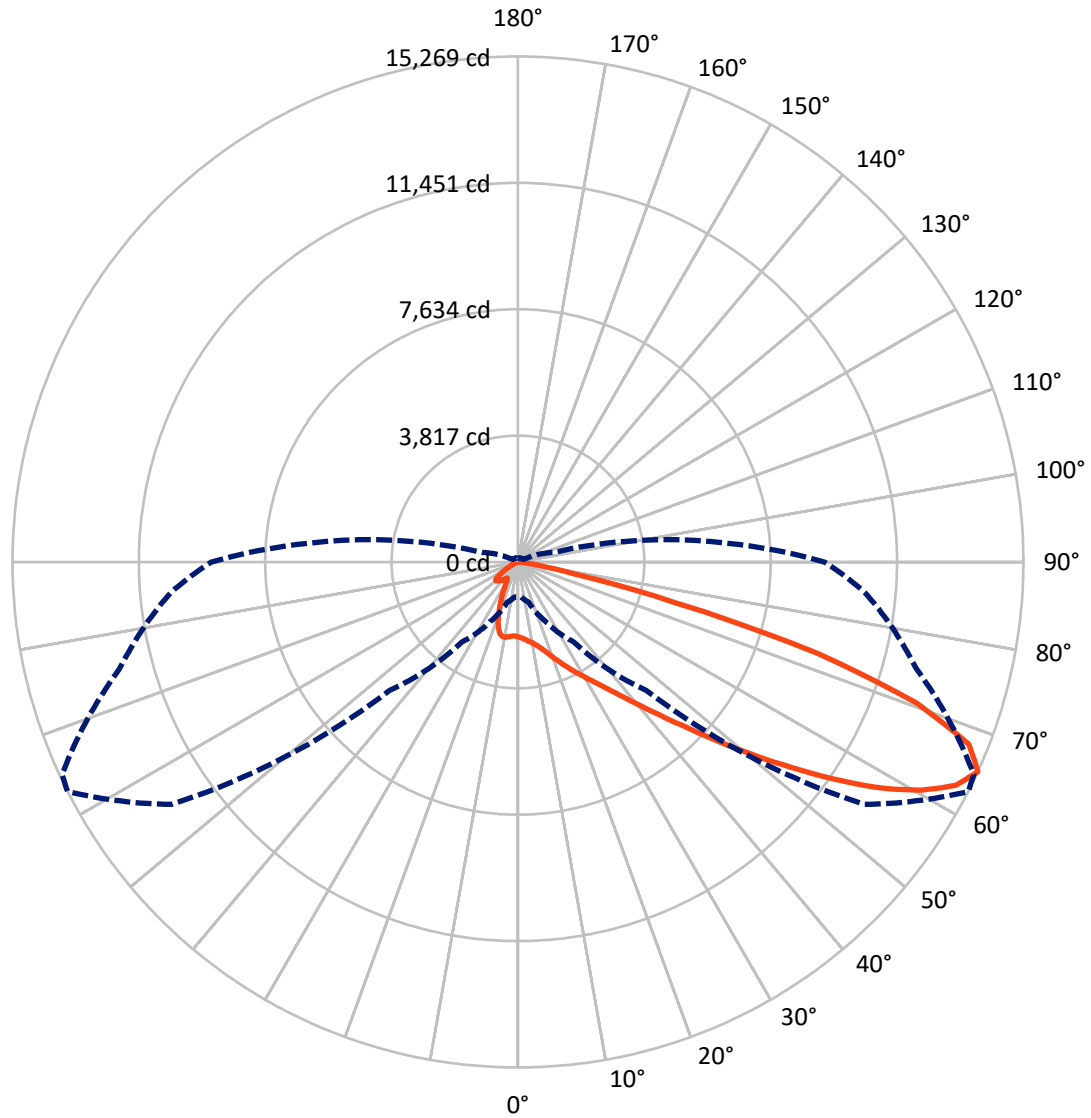
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2693.0	0.0	2693.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15627.9	0.0	15627.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	18321.0	0.0	18321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.0	1.2
10°-20°	591.1	3.2
20°-30°	1029.3	5.6
30°-40°	1855.2	10.1
40°-50°	3679.4	20.1
50°-60°	5012.0	27.4
60°-70°	4000.5	21.8
70°-80°	1810.3	9.9
80°-90°	130.1	0.7
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°	18321.0	100.0
0°-180°	18321.0	100.0

Coefficient of Utilization



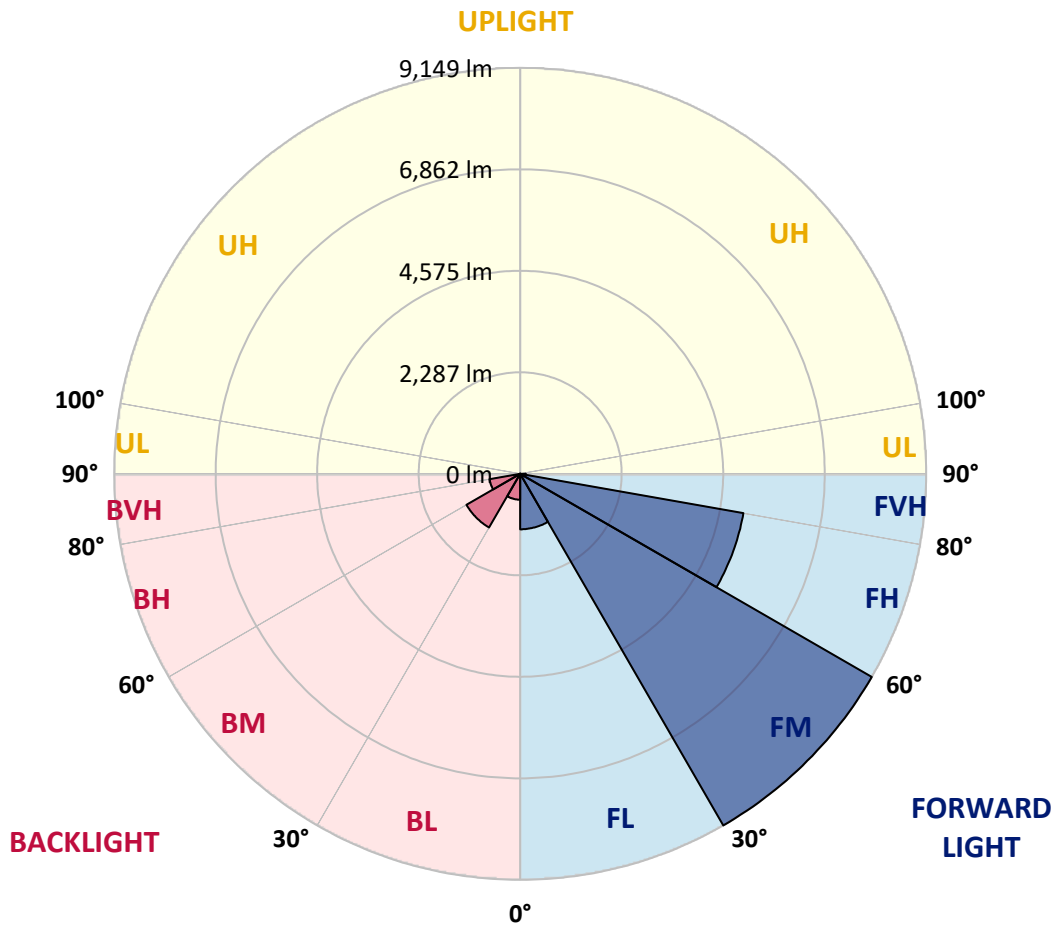
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.6	6.8			
FM (30°-60°)	9149.0	49.9			
FH (60°-80°)	5107.8	27.9			G3/7500
FVH (80°-90°)	120.5	0.7			G2/225
BL (0°-30°)	582.8	3.2	B2/1000		
BM (30°-60°)	1397.5	7.6	B2/2500		
BH (60°-80°)	703.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2
2.5°	2314.1	2307.8	2316.6	2312.8	2310.3	2305.3	2302.8	2300.2	2295.2	2291.4
5°	2320.4	2316.6	2325.4	2333.0	2340.6	2348.1	2351.9	2356.9	2351.9	2341.8
7.5°	2267.5	2264.9	2283.8	2306.5	2340.6	2369.6	2401.1	2418.7	2420.0	2416.2
10°	2263.7	2257.4	2276.3	2304.0	2348.1	2399.8	2455.3	2493.1	2498.1	2514.5
12.5°	2322.9	2316.6	2343.1	2373.3	2418.7	2472.9	2541.0	2593.9	2601.5	2624.2
15°	2422.5	2413.7	2443.9	2483.0	2541.0	2602.7	2674.6	2722.5	2728.8	2756.5
17.5°	2538.4	2529.6	2564.9	2606.5	2669.5	2754.0	2837.2	2890.1	2897.7	2915.3
20°	2687.2	2675.8	2703.6	2741.4	2808.2	2909.0	3008.6	3084.2	3082.9	3082.9
22.5°	2859.8	2842.2	2866.1	2896.4	2959.4	3081.7	3214.0	3303.5	3303.5	3268.2
25°	3045.1	3027.5	3053.9	3081.7	3137.1	3275.8	3430.8	3541.7	3546.8	3486.3
27.5°	3277.0	3254.4	3274.5	3307.3	3340.1	3481.2	3665.2	3793.8	3796.3	3703.1
30°	3723.2	3658.9	3595.9	3560.6	3575.8	3715.7	3912.3	4054.7	4067.3	3938.7
32.5°	4540.0	4527.4	4305.5	4015.6	3864.4	3967.7	4188.3	4359.7	4367.3	4202.2
35°	5809.2	5794.1	5437.4	4885.3	4392.5	4305.5	4523.6	4726.5	4721.5	4534.9
37.5°	7324.2	7310.3	6840.2	6101.6	5303.8	4816.0	4955.9	5168.9	5200.4	4955.9
40°	8618.6	8566.9	8269.5	7557.4	6513.7	5663.0	5571.0	5712.1	5744.9	5455.0
42.5°	9599.2	9555.1	9403.8	8958.9	7978.3	6915.8	6295.7	6349.9	6386.4	6038.6
45°	10107.1	10097.1	10157.6	10116.0	9470.6	8453.5	7331.7	7106.1	7120.0	6685.2
47.5°	10179.0	10173.9	10450.0	10840.7	10753.7	10187.8	8661.5	8048.9	7999.8	7414.9
50°	9755.5	9745.4	10274.8	11007.1	11610.8	11644.8	10171.4	9111.4	9003.0	8169.9
52.5°	8403.1	8400.6	9270.2	10489.0	11912.0	12920.4	11663.7	10278.6	10097.1	8969.0
55°	6465.9	6512.5	7509.5	8950.1	11362.5	13534.2	13003.5	11574.3	11295.7	9773.1
57.5°	4580.3	4648.4	5634.0	6917.1	9658.4	13171.2	13909.8	12872.5	12572.5	10574.8
60°	2460.3	2520.8	3507.7	5039.1	7185.5	11817.5	14387.5	13999.3	13715.7	11336.0
62.5°	1465.8	1486.0	1894.4	3253.1	4860.1	9028.2	14184.5	14857.6	14624.4	11975.1
65°	1052.4	1056.2	1261.7	1986.4	2950.6	5485.3	12761.5	15268.5	15196.6	12456.5
67.5°	886.1	883.5	969.2	1319.6	2010.3	2747.7	9780.7	14687.4	14992.5	12761.5
70°	760.0	763.8	864.6	966.7	1511.2	1555.3	4862.6	12788.0	13438.4	12842.2
72.5°	565.9	578.5	671.8	881.0	1140.7	1070.1	1678.9	9482.0	10657.9	12099.8
75°	399.5	405.8	472.6	741.1	850.8	778.9	857.1	4901.7	6409.1	9276.5
77.5°	307.5	318.9	358.0	518.0	838.2	547.0	524.3	1696.5	2606.5	5603.7
80°	166.4	186.5	258.4	374.3	588.6	386.9	259.6	675.6	883.5	2620.4
82.5°	85.7	95.8	180.2	269.7	335.3	337.8	128.6	281.1	364.3	809.2
85°	34.0	41.6	121.0	148.7	172.7	166.4	58.0	113.4	131.1	224.4
87.5°	7.6	12.6	44.1	34.0	32.8	35.3	13.9	26.5	25.2	26.5
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°
2261.2	0°	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2	2261.2
2276.3	2.5°	2275.0	2270.0	2256.1	2241.0	2223.3	2213.3	2207.0	2205.7	2196.9	2190.6
2326.7	5°	2312.8	2307.8	2281.3	2249.8	2215.8	2189.3	2164.1	2141.4	2108.6	2102.3
2399.8	7.5°	2388.5	2374.6	2331.7	2288.9	2224.6	2147.7	2054.5	1947.3	1851.5	1822.5
2496.9	10°	2481.7	2462.8	2408.6	2333.0	2190.6	1981.3	1755.7	1546.5	1380.1	1333.5
2611.5	12.5°	2587.6	2571.2	2499.4	2359.5	2048.1	1668.8	1323.4	1063.8	902.4	862.1
2733.8	15°	2713.6	2689.7	2590.1	2319.1	1793.5	1268.0	908.7	755.0	697.0	689.4
2873.7	17.5°	2847.2	2808.2	2670.8	2174.2	1450.7	901.2	702.0	657.9	632.7	625.2
3014.9	20°	2969.5	2919.1	2718.7	1954.9	1083.9	702.0	628.9	600.0	577.3	568.4
3156.0	22.5°	3091.8	3019.9	2718.7	1656.2	813.0	622.6	577.3	550.8	524.3	513.0
3307.3	25°	3219.1	3123.3	2670.8	1323.4	654.1	571.0	528.1	499.1	476.4	462.6
3451.0	27.5°	3342.6	3210.2	2561.1	1008.3	582.3	525.6	482.7	455.0	433.6	423.5
3607.3	30°	3459.8	3295.9	2407.4	765.1	535.7	481.5	441.1	417.2	395.8	385.7
3810.2	32.5°	3618.6	3404.3	2243.5	627.7	495.3	439.9	403.3	380.6	361.7	354.2
4073.6	35°	3839.2	3564.4	2102.3	616.3	461.3	405.8	369.3	347.9	329.0	322.7
4413.9	37.5°	4151.8	3822.8	2028.0	692.0	433.6	375.6	341.6	318.9	301.2	296.2
4846.2	40°	4537.4	4173.2	2068.3	767.6	414.7	349.1	316.4	293.7	278.5	272.2
5342.8	42.5°	4995.0	4605.5	2291.4	825.6	402.1	326.4	292.4	267.2	257.1	254.6
5906.2	45°	5520.6	5080.7	2633.0	887.3	381.9	305.0	268.5	249.6	242.0	240.7
6518.8	47.5°	6118.0	5602.5	3028.7	964.2	361.7	284.9	249.6	237.0	230.7	228.1
7157.8	50°	6710.4	6128.1	3435.9	1007.1	345.3	265.9	234.4	224.4	219.3	218.0
7833.4	52.5°	7330.5	6668.8	3764.8	966.7	331.5	250.8	221.8	214.3	209.2	208.0
8456.0	55°	7921.6	7106.1	3821.5	820.5	303.8	235.7	208.0	204.2	197.9	197.9
9087.5	57.5°	8430.8	7325.4	3420.7	602.5	276.0	213.0	194.1	190.3	185.3	184.0
9657.2	60°	8898.4	7262.4	2640.5	405.8	245.8	190.3	176.5	173.9	168.9	162.6
10152.5	62.5°	9161.8	6985.1	1806.2	264.7	215.5	166.4	156.3	155.0	143.7	131.1
10519.3	65°	9261.4	6415.4	1126.8	192.8	180.2	142.4	134.9	132.3	116.0	102.1
10727.3	67.5°	9174.5	5477.7	568.4	152.5	142.4	118.5	110.9	110.9	99.6	87.0
10714.7	70°	8826.6	4106.4	239.5	122.3	109.7	90.7	90.7	95.8	84.4	70.6
10158.8	72.5°	8071.6	2762.8	127.3	93.3	81.9	64.3	74.4	78.1	66.8	52.9
8314.9	75°	6416.7	1685.2	88.2	69.3	51.7	45.4	56.7	59.2	45.4	35.3
5700.8	77.5°	4388.7	968.0	59.2	44.1	32.8	26.5	39.1	36.6	23.9	16.4
2198.1	80°	1927.2	403.3	34.0	20.2	12.6	10.1	13.9	10.1	7.6	5.0
301.2	82.5°	225.6	94.5	12.6	7.6	5.0	2.5	1.3	0.0	0.0	0.0
92.0	85°	46.6	11.3	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0
16.4	87.5°	8.8	2.5	1.3	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°
2261.2
2196.9
2099.8
1808.7
1315.9
850.8
681.9
621.4
563.4
506.7
457.5
423.5
386.9
354.2
322.7
294.9
271.0
254.6
239.5
228.1
218.0
208.0
196.6
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