

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: P947430

Luminaire Tested: **GALN-SB2D-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

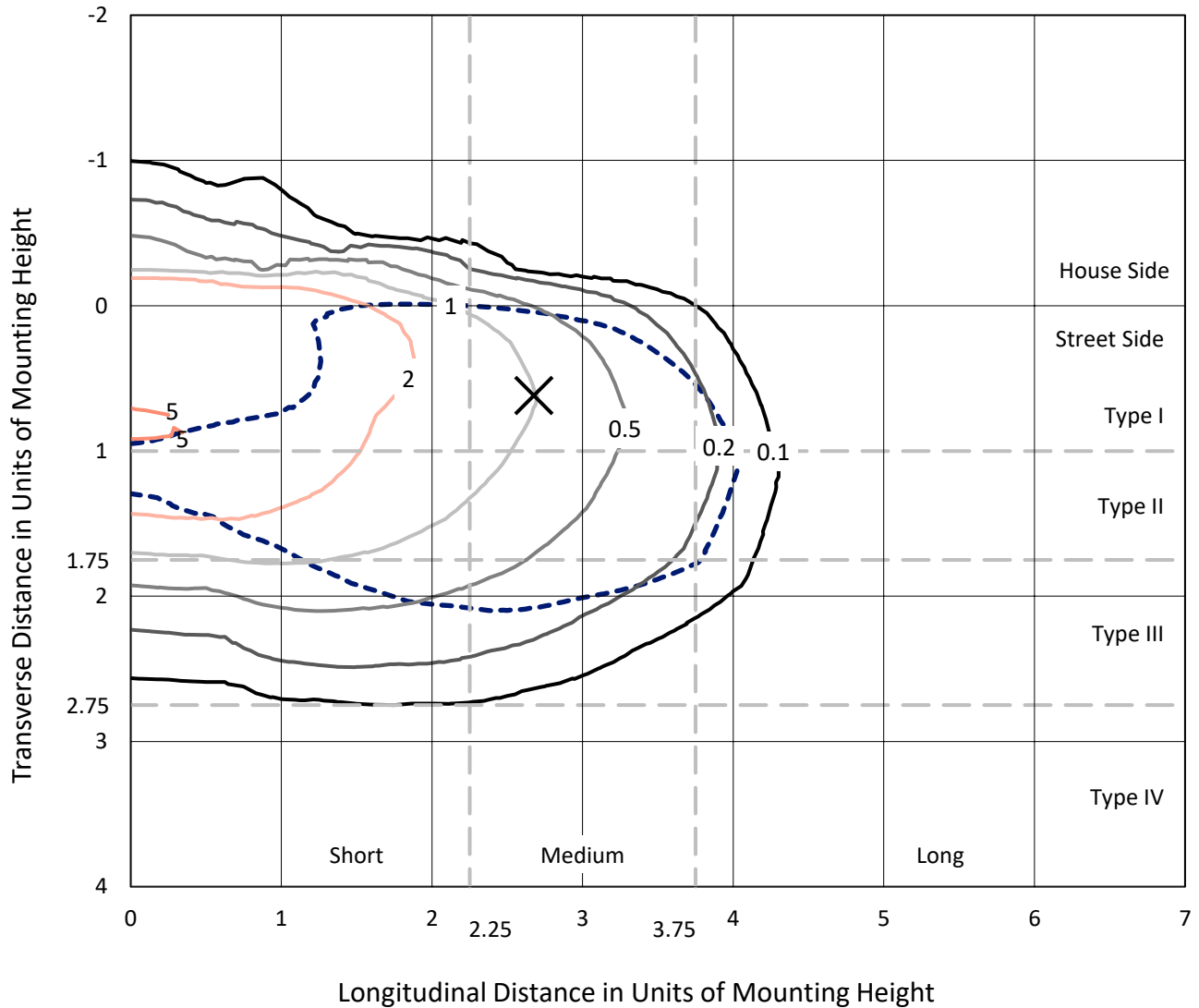
Lumens per Lamp: N/A  
Luminaire Lumens: 17925 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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

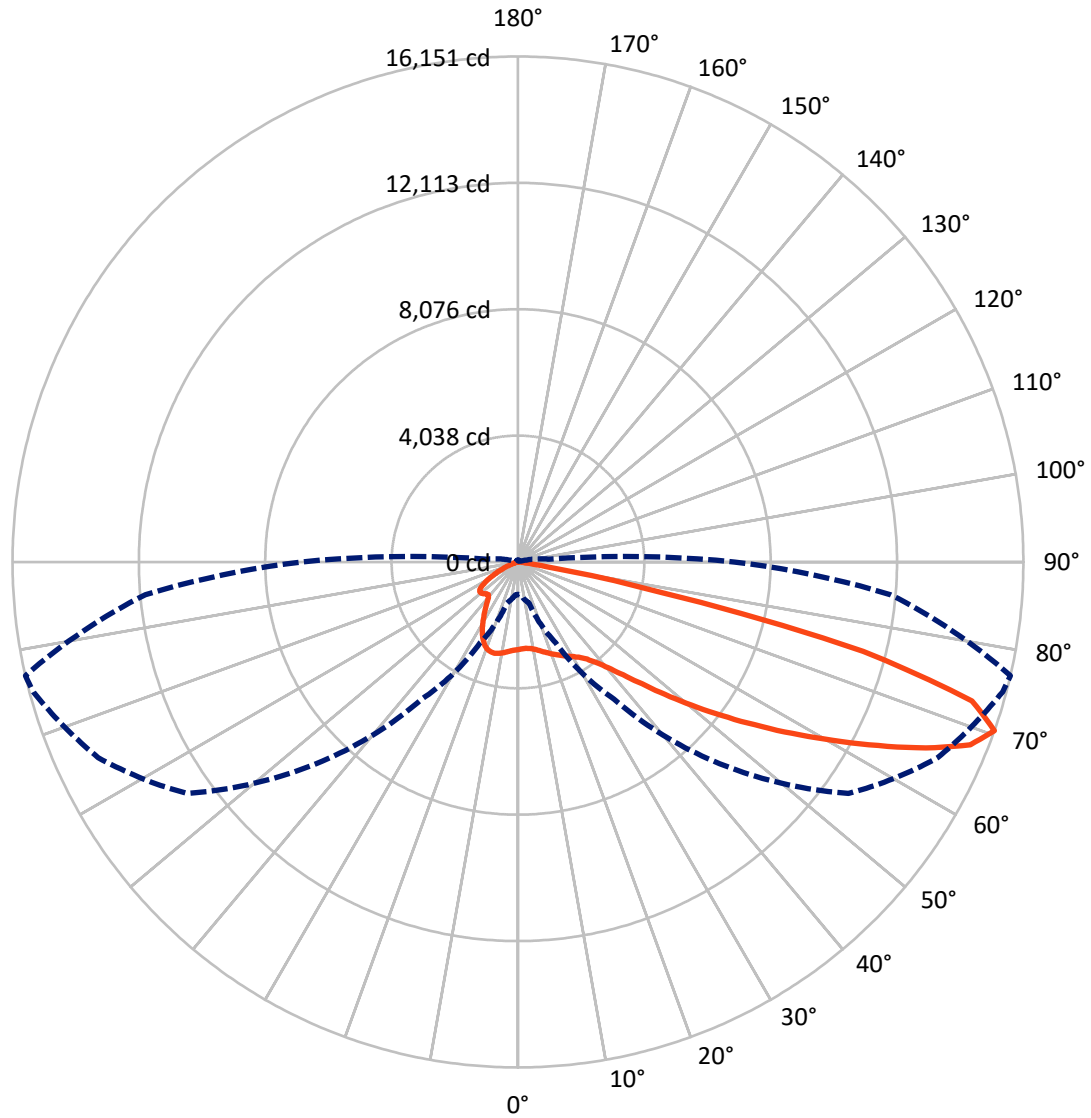
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1889.5	0.0	1889.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	16035.4	0.0	16035.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	17925.0	0.0	17925.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.0	1.3
10°-20°	572.0	3.2
20°-30°	884.8	4.9
30°-40°	1605.5	9.0
40°-50°	3030.5	16.9
50°-60°	4378.9	24.4
60°-70°	4661.2	26.0
70°-80°	2470.1	13.8
80°-90°	81.1	0.5
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°	17925.0	100.0
0°-180°	17925.0	100.0

**Coefficient of Utilization**



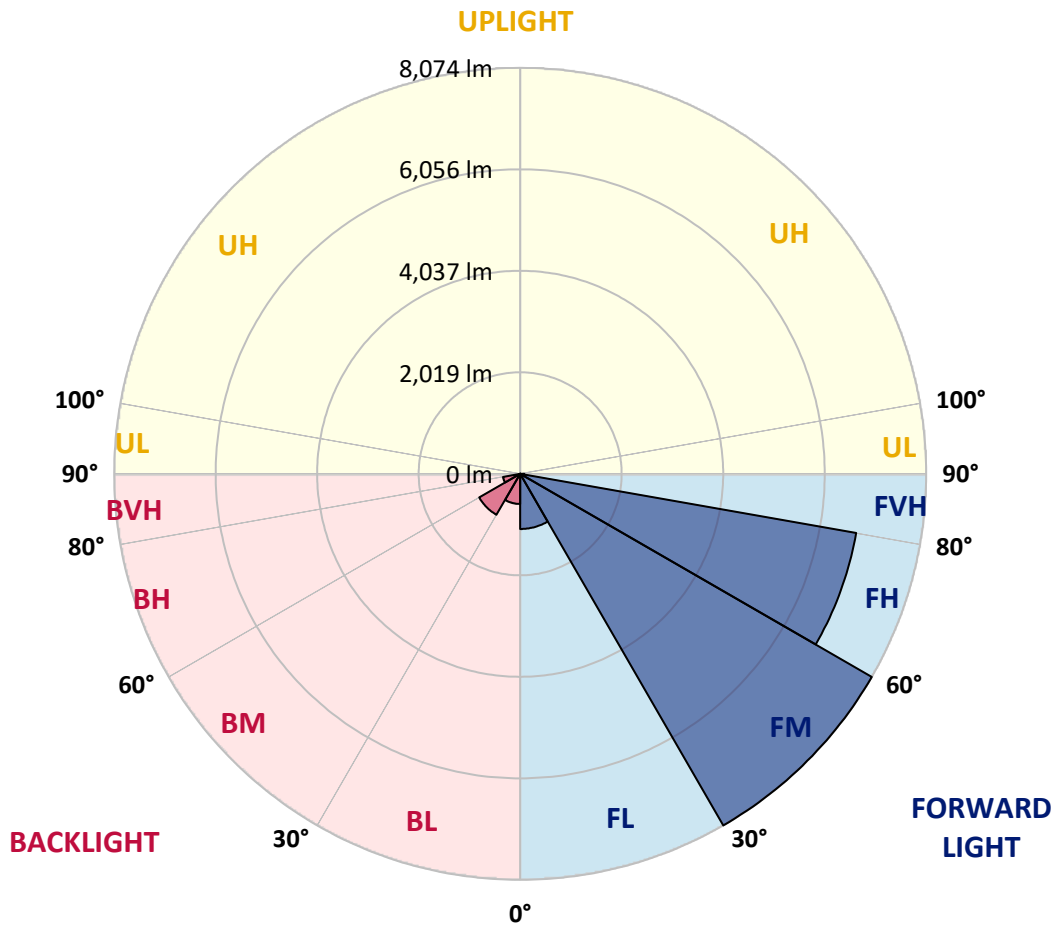
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.4	6.1			
FM (30°-60°)	8074.2	45.0			
FH (60°-80°)	6784.9	37.9			G3/7500
FVH (80°-90°)	78.9	0.4			G1/100
BL (0°-30°)	600.3	3.3	B2/1000		
BM (30°-60°)	940.6	5.2	B1/1000		
BH (60°-80°)	346.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0
2.5°	2625.0	2648.8	2645.4	2661.3	2666.9	2689.6	2712.2	2742.8	2776.7	2775.6
5°	2476.8	2500.5	2506.2	2527.7	2554.9	2590.0	2636.4	2697.5	2760.9	2771.1
7.5°	2301.3	2326.2	2340.9	2383.9	2433.7	2506.2	2582.0	2671.5	2776.7	2791.4
10°	2125.8	2148.5	2167.7	2228.9	2308.1	2415.6	2539.0	2668.1	2809.6	2831.1
12.5°	2017.2	2038.7	2060.2	2113.4	2211.9	2343.2	2510.7	2683.9	2863.9	2894.5
15°	1978.7	1997.9	2014.9	2062.5	2154.1	2303.6	2505.1	2716.7	2932.9	2973.7
17.5°	1984.4	1994.5	2005.9	2042.1	2131.5	2285.5	2515.2	2773.3	3014.4	3050.7
20°	2017.2	2022.8	2024.0	2048.9	2128.1	2283.2	2535.6	2827.7	3091.4	3140.1
22.5°	2059.1	2061.3	2059.1	2076.0	2149.6	2300.2	2562.8	2893.3	3177.5	3222.7
25°	2254.9	2211.9	2157.5	2124.7	2185.8	2333.0	2603.5	2981.6	3271.4	3315.6
27.5°	2862.8	2739.4	2544.7	2326.2	2260.6	2380.5	2660.1	3071.0	3366.5	3406.1
30°	3849.8	3688.0	3357.4	2865.0	2500.5	2480.2	2733.7	3160.5	3467.2	3510.3
32.5°	4839.2	4799.6	4418.1	3736.6	3040.5	2702.0	2856.0	3281.6	3600.8	3634.8
35°	5839.9	5759.5	5447.1	4773.5	3872.5	3153.7	3059.7	3440.1	3776.3	3814.8
37.5°	6606.2	6557.5	6364.0	5809.3	4859.6	3851.0	3408.4	3685.7	4031.0	4074.0
40°	7283.1	7260.5	7194.8	6829.2	5963.2	4763.3	3950.6	4066.1	4384.1	4435.1
42.5°	7815.1	7868.4	7905.7	7803.8	7100.9	5804.8	4679.6	4600.3	4876.5	4928.6
45°	8359.6	8377.7	8528.3	8675.5	8230.6	6893.7	5501.4	5226.3	5488.9	5553.5
47.5°	8709.4	8781.9	9046.7	9306.0	9180.3	7973.6	6384.3	5965.5	6198.7	6319.8
50°	8735.4	8872.4	9236.9	9688.6	9871.9	9001.5	7344.2	6807.7	7055.6	7189.2
52.5°	8301.9	8514.7	9079.6	9740.6	10245.5	9871.9	8337.0	7649.9	7968.0	8142.3
55°	6365.1	6643.6	8487.5	9457.6	10260.2	10531.9	9303.7	8527.2	8984.5	9181.4
57.5°	5545.5	5685.9	6673.0	8966.4	9987.4	10797.9	10177.6	9362.6	10090.4	10334.9
60°	4613.9	4798.4	5596.5	8162.7	9617.3	10823.9	10949.6	10440.2	11289.2	11564.2
62.5°	3135.6	3335.9	4129.4	6781.7	9111.3	10811.5	11582.4	11549.5	12621.5	12917.0
65°	1942.5	2068.1	2591.1	5537.6	8403.8	10825.1	12244.6	12896.6	14027.4	14327.4
67.5°	1535.0	1592.7	1865.5	4251.7	7184.6	10519.4	12905.6	14163.3	15350.7	15588.4
70°	1031.2	1066.3	1357.2	2850.3	5345.2	9109.0	12893.2	14799.4	16032.2	16151.0
72.5°	543.3	570.5	793.5	1319.9	3228.4	6474.9	10868.1	14038.7	15354.1	15175.2
75°	271.7	317.0	534.3	670.1	1378.7	3611.0	6748.8	11068.4	12085.0	11392.2
77.5°	206.0	249.0	441.5	441.5	480.0	1215.7	2858.2	6036.8	5568.2	4636.6
80°	131.3	169.8	386.0	333.9	200.4	309.0	744.8	1691.2	1182.9	899.9
82.5°	77.0	110.9	321.5	220.7	112.1	114.3	210.5	360.0	306.8	238.8
85°	30.6	72.4	220.7	87.2	44.1	28.3	63.4	77.0	63.4	47.5
87.5°	0.0	17.0	38.5	0.0	3.4	2.3	4.5	5.7	5.7	4.5
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°
2796.0	0°	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0	2796.0
2798.2	2.5°	2808.4	2810.7	2817.5	2818.6	2802.8	2782.4	2774.5	2771.1	2757.5	2756.4
2816.4	5°	2842.4	2852.6	2842.4	2813.0	2742.8	2644.3	2569.6	2508.5	2453.0	2436.0
2878.6	7.5°	2910.3	2920.5	2889.9	2774.5	2597.9	2402.0	2225.5	2100.9	1988.9	1947.0
2954.5	10°	3007.7	3021.2	2925.0	2691.8	2379.4	2064.7	1765.9	1555.3	1391.2	1324.4
3057.5	12.5°	3129.9	3135.6	2944.3	2566.2	2095.3	1645.9	1222.5	997.3	851.2	796.9
3182.0	15°	3264.6	3256.7	2946.5	2395.3	1708.1	1163.7	798.0	655.4	596.6	578.4
3306.5	17.5°	3406.1	3373.3	2901.2	2148.5	1283.7	795.8	592.0	558.1	547.9	543.3
3429.9	20°	3545.3	3471.8	2818.6	1825.9	921.4	594.3	537.7	527.5	521.8	519.6
3554.4	22.5°	3672.1	3546.5	2677.1	1451.2	669.0	525.2	508.3	499.2	489.0	484.5
3675.5	25°	3795.5	3589.5	2477.9	1101.4	535.4	491.3	477.7	460.7	447.1	441.5
3805.7	27.5°	3915.5	3616.7	2228.9	815.0	477.7	459.6	434.7	410.9	400.7	398.5
3944.9	30°	4043.4	3625.7	1945.9	607.9	442.6	420.0	383.7	356.6	350.9	352.0
4132.8	32.5°	4199.6	3639.3	1660.6	498.1	413.2	372.4	329.4	301.1	296.6	301.1
4406.8	35°	4386.4	3666.5	1385.5	458.4	387.1	323.7	277.3	253.6	249.0	252.4
4757.7	37.5°	4640.0	3710.6	1128.6	450.5	365.6	283.0	233.2	213.9	213.9	215.1
5187.8	40°	4977.3	3828.3	898.8	444.9	354.3	252.4	197.0	189.0	192.4	194.7
5735.7	42.5°	5388.2	4078.5	743.7	438.1	341.9	238.8	178.9	175.5	181.1	183.4
6392.3	45°	5848.9	4395.5	689.4	426.8	330.5	247.9	170.9	166.4	173.2	174.3
7128.0	47.5°	6325.5	4705.6	682.6	414.3	319.2	261.5	168.7	158.5	166.4	167.5
7913.6	50°	6807.7	4908.2	689.4	395.1	301.1	261.5	169.8	150.6	157.3	160.7
8728.7	52.5°	7293.3	5001.1	684.8	353.2	269.4	245.6	169.8	143.8	150.6	152.8
9609.3	55°	7764.2	4983.0	615.8	290.9	228.7	217.3	165.3	138.1	142.6	143.8
10441.3	57.5°	8136.6	4730.5	487.9	226.4	185.6	181.1	150.6	131.3	134.7	133.6
11204.3	60°	8331.3	4175.9	348.6	174.3	146.0	142.6	132.4	122.3	124.5	118.9
11850.6	62.5°	8333.6	3442.3	233.2	138.1	116.6	113.2	113.2	109.8	107.5	96.2
12351.0	65°	8155.9	2628.4	155.1	109.8	94.0	88.3	95.1	94.0	86.0	70.2
12503.8	67.5°	7752.9	1722.9	117.7	86.0	72.4	69.1	75.8	79.2	73.6	58.9
11946.9	70°	6924.3	1002.9	97.3	66.8	54.3	50.9	61.1	67.9	61.1	47.5
10211.5	72.5°	5751.6	541.1	79.2	49.8	37.4	34.0	48.7	55.5	48.7	35.1
6551.9	75°	3732.1	289.8	61.1	32.8	19.2	21.5	36.2	40.8	34.0	22.6
1923.2	77.5°	1253.1	127.9	38.5	15.8	9.1	9.1	21.5	24.9	15.8	7.9
349.8	80°	279.6	53.2	15.8	6.8	3.4	3.4	4.5	4.5	2.3	0.0
107.5	82.5°	91.7	21.5	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
27.2	85°	35.1	7.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.1	87.5°	13.6	1.1	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°
2796.0
2758.6
2425.8
1930.0
1296.1
779.9
578.4
542.2
517.3
483.4
439.2
396.2
352.0
300.0
251.3
213.9
194.7
183.4
175.5
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152.8
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