

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: P941894

Luminaire Tested: **GALN-SB5C-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16815 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

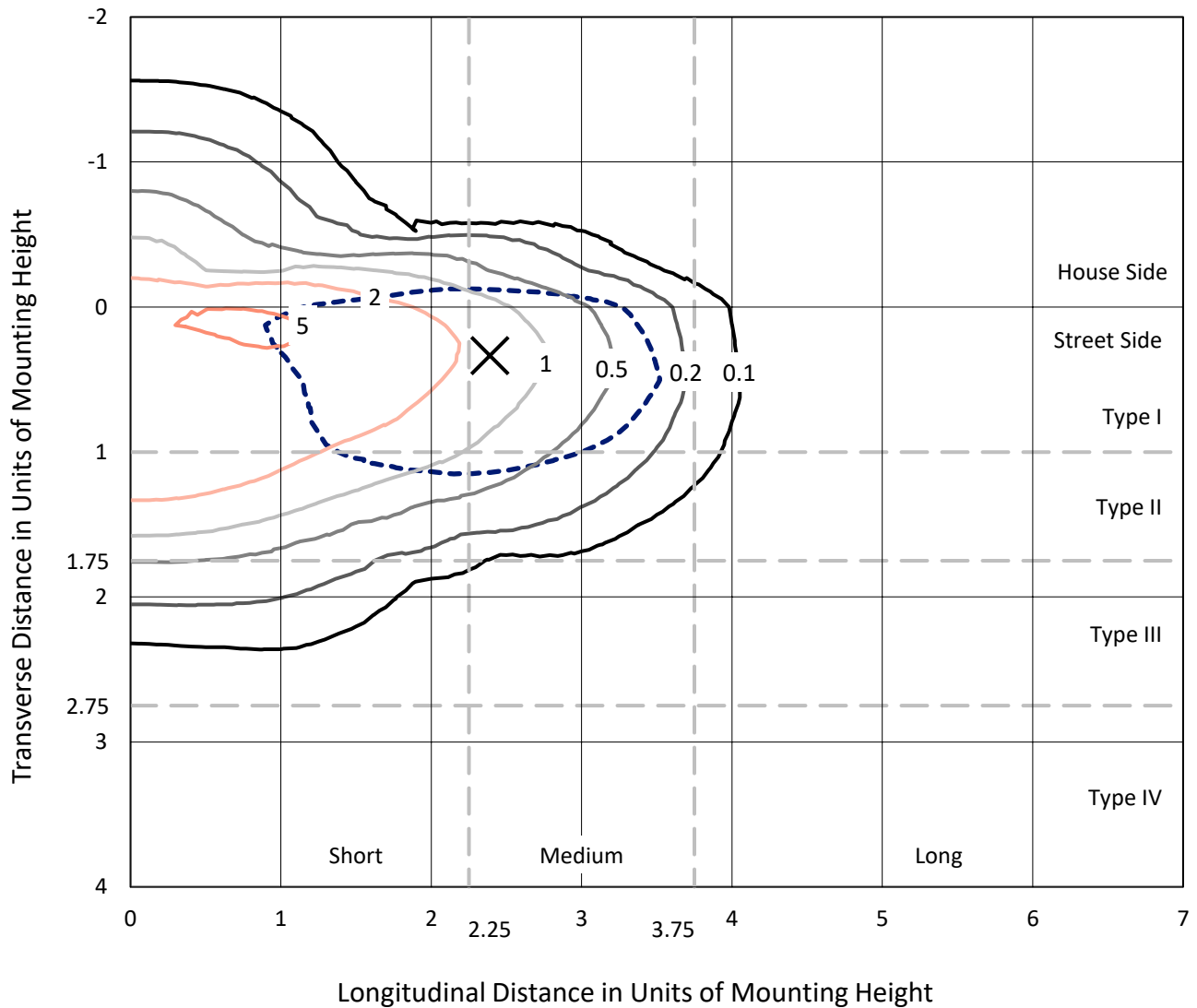
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

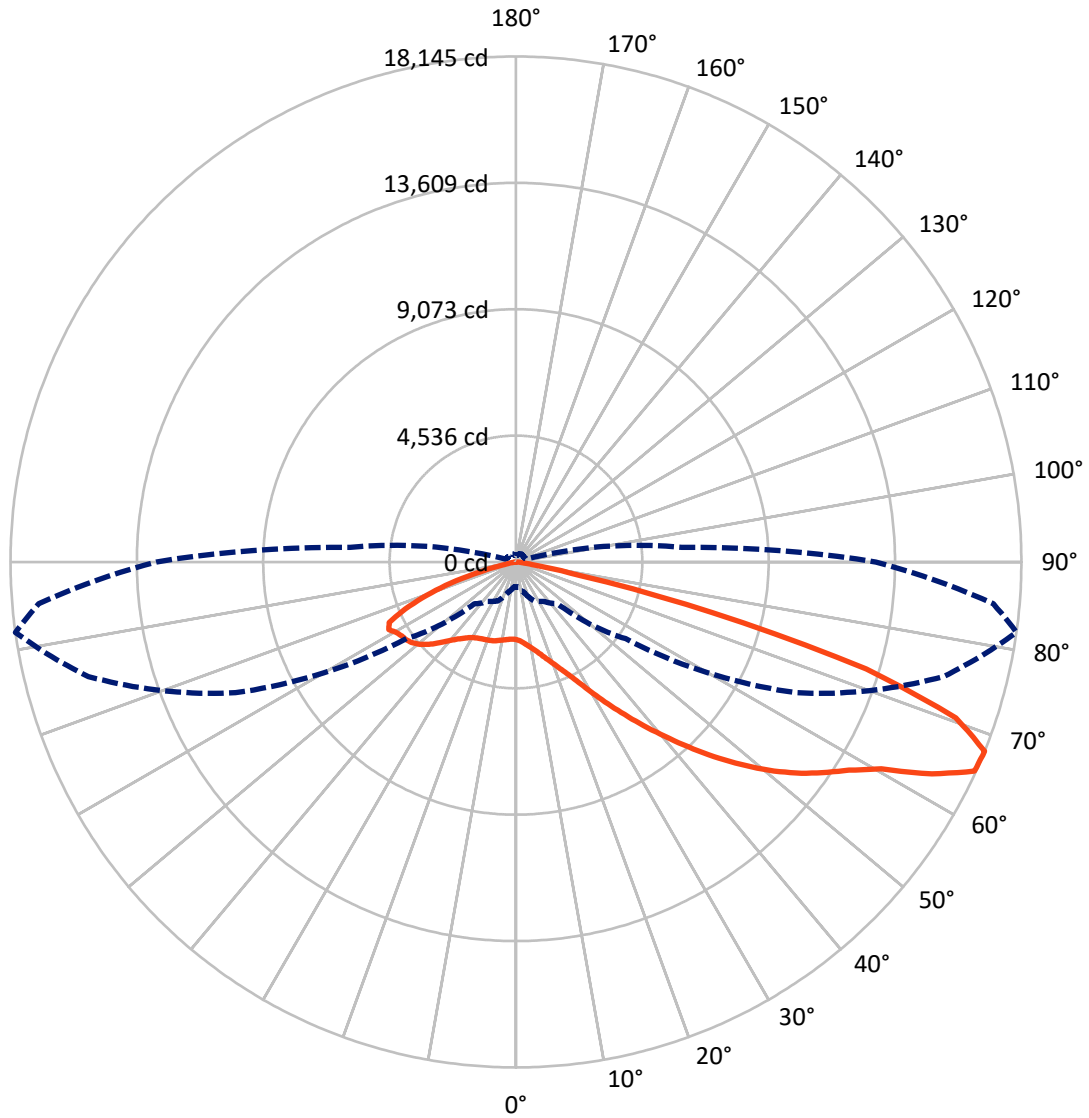
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.9	0.0	3045.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13769.1	0.0	13769.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	16815.0	0.0	16815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.5
10°-20°	644.9	3.8
20°-30°	1033.0	6.1
30°-40°	1826.6	10.9
40°-50°	3200.4	19.0
50°-60°	4268.4	25.4
60°-70°	3973.7	23.6
70°-80°	1525.1	9.1
80°-90°	94.7	0.6
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°	16815.0	100.0
0°-180°	16815.0	100.0

Coefficient of Utilization



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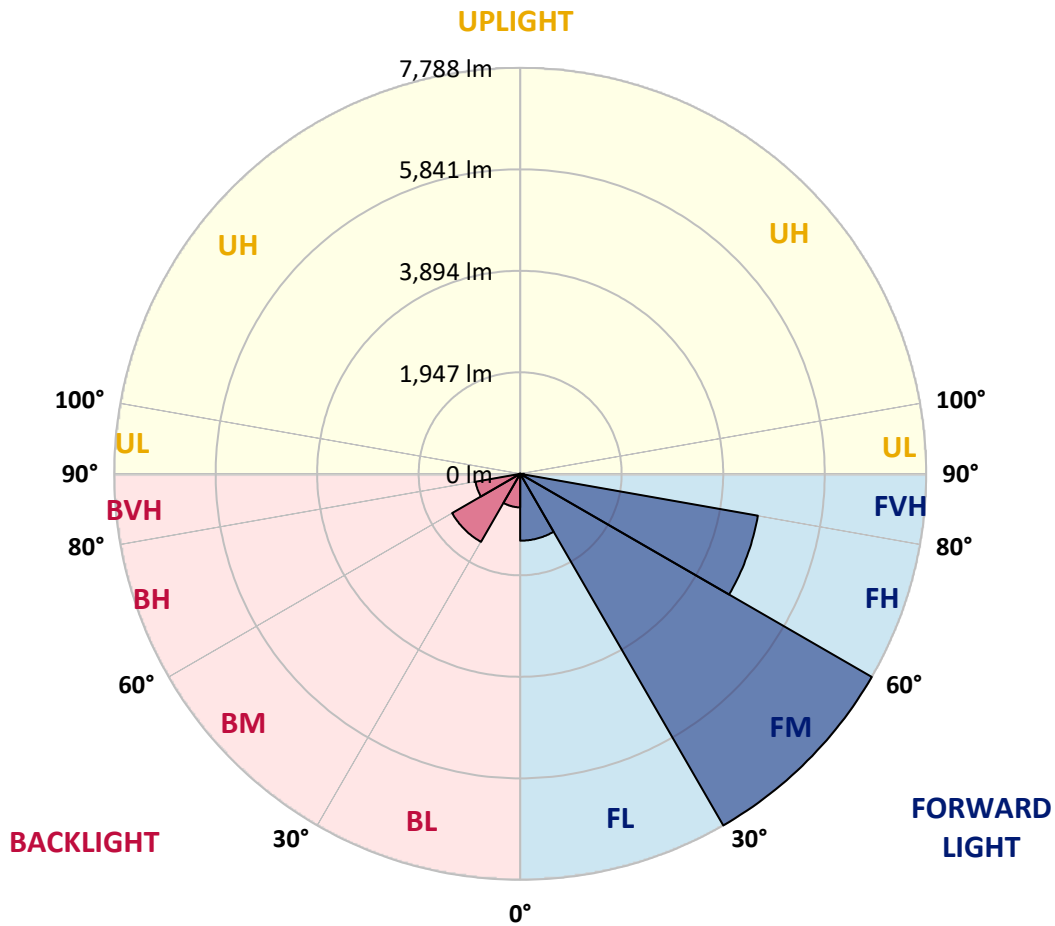
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.8	7.6			
FM (30°-60°)	7788.0	46.3			
FH (60°-80°)	4629.4	27.5			G2/5000
FVH (80°-90°)	68.9	0.4			G1/100
BL (0°-30°)	643.3	3.8	B2/1000		
BM (30°-60°)	1507.4	9.0	B2/2500		
BH (60°-80°)	869.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	25.9	0.2			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°	82°
0°	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7
2.5°	2944.3	2961.2	2951.5	2946.7	2938.2	2926.1	2916.4	2886.2	2854.7	2834.1
5°	3003.6	3020.5	3019.3	3024.2	3030.2	3033.9	3031.4	2997.5	2952.7	2917.6
7.5°	2952.7	2972.1	2987.9	3012.1	3054.4	3099.2	3121.0	3113.8	3067.8	3019.3
10°	2808.7	2829.3	2866.8	2923.7	3013.3	3110.1	3191.2	3228.8	3199.7	3146.4
12.5°	2544.8	2565.3	2639.2	2762.7	2912.8	3081.1	3236.0	3336.5	3343.8	3290.5
15°	2248.2	2268.7	2347.4	2502.4	2731.2	3001.2	3260.2	3450.3	3514.5	3468.5
17.5°	2064.1	2082.3	2141.6	2266.3	2504.8	2841.4	3251.8	3571.4	3717.9	3681.5
20°	2008.4	2024.2	2052.0	2139.2	2337.7	2675.5	3196.1	3685.2	3937.0	3916.4
22.5°	2067.8	2082.3	2090.8	2129.5	2254.2	2566.6	3125.9	3801.4	4191.2	4193.6
25°	2204.6	2219.1	2209.4	2233.6	2288.1	2532.7	3099.2	3938.2	4510.8	4537.5
27.5°	2429.7	2431.0	2408.0	2406.7	2415.2	2583.5	3127.1	4084.7	4914.0	4963.6
30°	2881.3	2863.2	2774.8	2679.1	2635.6	2736.0	3204.6	4257.8	5389.8	5478.1
32.5°	3577.4	3550.8	3388.6	3159.8	2929.7	2981.8	3343.8	4455.1	5907.9	6067.7
35°	4332.9	4325.6	4156.1	3815.9	3414.0	3331.7	3570.2	4714.2	6473.3	6727.5
37.5°	5035.0	5031.4	4934.6	4533.8	4044.7	3819.6	3933.4	5053.2	7078.6	7446.6
40°	5676.7	5687.6	5590.7	5232.4	4739.6	4445.5	4427.3	5472.1	7751.7	8229.9
42.5°	6231.2	6243.3	6145.2	5880.1	5426.1	5137.9	5033.8	5985.4	8409.1	9071.3
45°	6607.7	6682.7	6668.2	6456.3	6130.7	5831.6	5762.6	6629.4	9158.5	9963.5
47.5°	6714.2	6783.2	6892.2	6921.2	6722.7	6428.5	6510.8	7405.5	9916.3	10857.0
50°	6451.5	6515.7	6742.0	7043.5	7181.5	7090.7	7238.4	8237.2	10692.3	11748.0
52.5°	5933.3	5998.7	6284.4	6761.4	7324.4	7610.1	7968.4	9056.8	11444.2	12591.8
55°	5183.9	5253.0	5619.8	6159.7	7052.0	7824.3	8577.4	9875.2	12133.0	13350.9
57.5°	4164.6	4215.4	4596.8	5352.2	6366.7	7611.3	9026.5	10768.6	12781.9	14096.7
60°	2714.2	2759.0	3202.1	4044.7	5231.2	6899.4	9116.1	11765.0	13643.9	15066.4
62.5°	1805.1	1835.3	2098.0	2716.7	3684.0	5532.6	8591.9	12560.4	14907.8	16754.0
65°	1238.5	1268.7	1531.5	1962.4	2380.1	3659.8	7084.6	12455.0	16053.1	18094.2
67.5°	883.8	909.2	1131.9	1538.7	1722.7	2125.9	4802.6	11108.8	15888.4	18145.0
70°	633.2	647.7	831.7	1198.5	1369.2	1277.2	2670.7	8496.3	13911.4	16755.2
72.5°	443.1	447.9	577.5	912.8	1102.9	932.2	1271.2	5664.6	10521.6	13151.2
75°	300.2	306.3	388.6	669.5	885.0	711.9	673.1	3037.5	6176.7	7279.6
77.5°	184.0	186.4	250.6	457.6	662.2	542.4	433.4	1286.9	2389.8	2346.2
80°	104.1	104.1	159.8	284.5	451.6	349.9	303.9	547.2	756.6	664.6
82.5°	58.1	59.3	116.2	176.8	299.0	207.0	167.1	253.0	326.9	289.3
85°	24.2	26.6	71.4	83.5	142.9	102.9	67.8	106.5	121.1	107.7
87.5°	2.4	3.6	21.8	15.7	16.9	20.6	9.7	20.6	16.9	16.9
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°
2785.7	0°	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7	2785.7
2826.8	2.5°	2803.8	2785.7	2739.7	2686.4	2616.2	2582.3	2536.3	2504.8	2478.2	2480.6
2897.1	5°	2858.3	2812.3	2709.4	2581.1	2421.3	2307.5	2186.4	2102.9	2035.1	2020.6
2993.9	7.5°	2933.4	2860.7	2680.4	2449.1	2179.1	1974.5	1791.7	1674.3	1590.8	1564.1
3111.3	10°	3030.2	2924.9	2642.8	2283.3	1894.6	1634.4	1438.2	1346.2	1289.3	1270.0
3249.4	12.5°	3142.8	2998.7	2593.2	2081.1	1601.7	1351.1	1226.4	1180.4	1162.2	1156.2
3418.8	15°	3284.5	3090.8	2518.1	1841.4	1353.5	1178.0	1124.7	1118.6	1121.1	1118.6
3622.2	17.5°	3452.7	3191.2	2395.9	1594.4	1186.4	1089.6	1070.2	1075.0	1081.1	1079.9
3849.8	20°	3636.8	3290.5	2239.7	1375.3	1072.6	1026.6	1015.7	1020.6	1025.4	1023.0
4112.5	22.5°	3846.2	3397.0	2066.6	1204.6	996.4	968.5	956.4	957.6	957.6	952.8
4445.5	25°	4096.8	3514.5	1885.0	1083.5	938.2	916.5	901.9	897.1	889.8	875.3
4849.8	27.5°	4395.8	3639.2	1710.6	998.8	892.2	871.7	854.7	842.6	824.4	800.2
5335.3	30°	4732.4	3790.5	1562.9	945.5	855.9	835.3	816.0	797.8	771.2	740.9
5893.4	32.5°	5128.3	3952.7	1455.2	910.4	823.2	801.4	778.4	756.6	727.6	697.3
6520.5	35°	5600.4	4148.9	1392.2	886.2	797.8	768.8	743.3	719.1	697.3	670.7
7202.1	37.5°	6112.5	4357.1	1372.9	874.1	780.9	736.1	707.0	690.1	687.6	671.9
7939.4	40°	6673.0	4604.1	1387.4	866.8	762.7	704.6	673.1	669.5	675.5	647.7
8727.5	42.5°	7266.2	4897.0	1411.6	858.3	737.3	673.1	642.8	642.8	638.0	599.3
9560.4	45°	7907.9	5234.8	1435.8	837.8	707.0	641.6	618.6	610.2	589.6	552.1
10398.2	47.5°	8554.4	5578.6	1454.0	800.2	670.7	615.0	594.4	575.1	544.8	510.9
11220.2	50°	9168.2	5887.3	1434.6	744.5	629.5	589.6	567.8	541.2	508.5	485.5
11998.6	52.5°	9716.6	6154.9	1352.3	679.2	585.9	562.9	543.6	515.7	489.1	464.9
12700.8	55°	10193.6	6371.6	1207.0	617.4	547.2	539.9	520.6	485.5	449.1	428.6
13396.9	57.5°	10651.2	6536.2	1025.4	566.6	512.1	514.5	485.5	454.0	420.1	398.3
14335.2	60°	11260.1	6756.6	841.4	519.4	474.6	481.8	450.4	427.4	385.0	357.1
15944.1	62.5°	12233.5	7099.2	668.3	461.3	431.0	433.4	420.1	392.2	341.4	308.7
17136.6	65°	13005.9	6973.3	526.6	398.3	381.4	385.0	385.0	354.7	300.2	262.7
17200.7	67.5°	12918.7	5970.9	420.1	336.6	334.1	336.6	345.0	319.6	266.3	236.1
15890.8	70°	11900.6	4749.3	336.6	279.7	290.6	284.5	308.7	291.8	239.7	209.4
12319.4	72.5°	9710.5	3421.3	256.7	231.2	222.8	232.4	278.4	262.7	199.8	165.9
6525.3	75°	5674.3	1825.6	191.3	182.8	161.0	193.7	247.0	224.0	152.5	122.3
2000.0	77.5°	1847.4	636.8	140.4	134.4	119.9	156.2	210.7	188.9	124.7	96.9
585.9	80°	495.2	192.5	95.6	88.4	77.5	116.2	167.1	150.1	89.6	63.0
251.8	82.5°	198.5	81.1	55.7	49.6	42.4	79.9	132.0	121.1	66.6	40.0
78.7	85°	64.2	26.6	20.6	15.7	19.4	49.6	78.7	82.3	47.2	20.6
12.1	87.5°	8.5	3.6	3.6	4.8	3.6	8.5	24.2	23.0	13.3	2.4
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°
2785.7
2456.4
1987.9
1537.5
1255.4
1152.5
1117.4
1077.5
1021.8
950.4
872.9
797.8
738.5
698.5
668.3
670.7
648.9
599.3
550.8
509.7
481.8
462.5
426.1
395.9
353.5
306.3
259.1
231.2
205.8
162.2
118.6
93.2
61.7
40.0
15.7
0.0
0.0

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