

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: P957677

Luminaire Tested: **GALN-SB9D-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65342 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

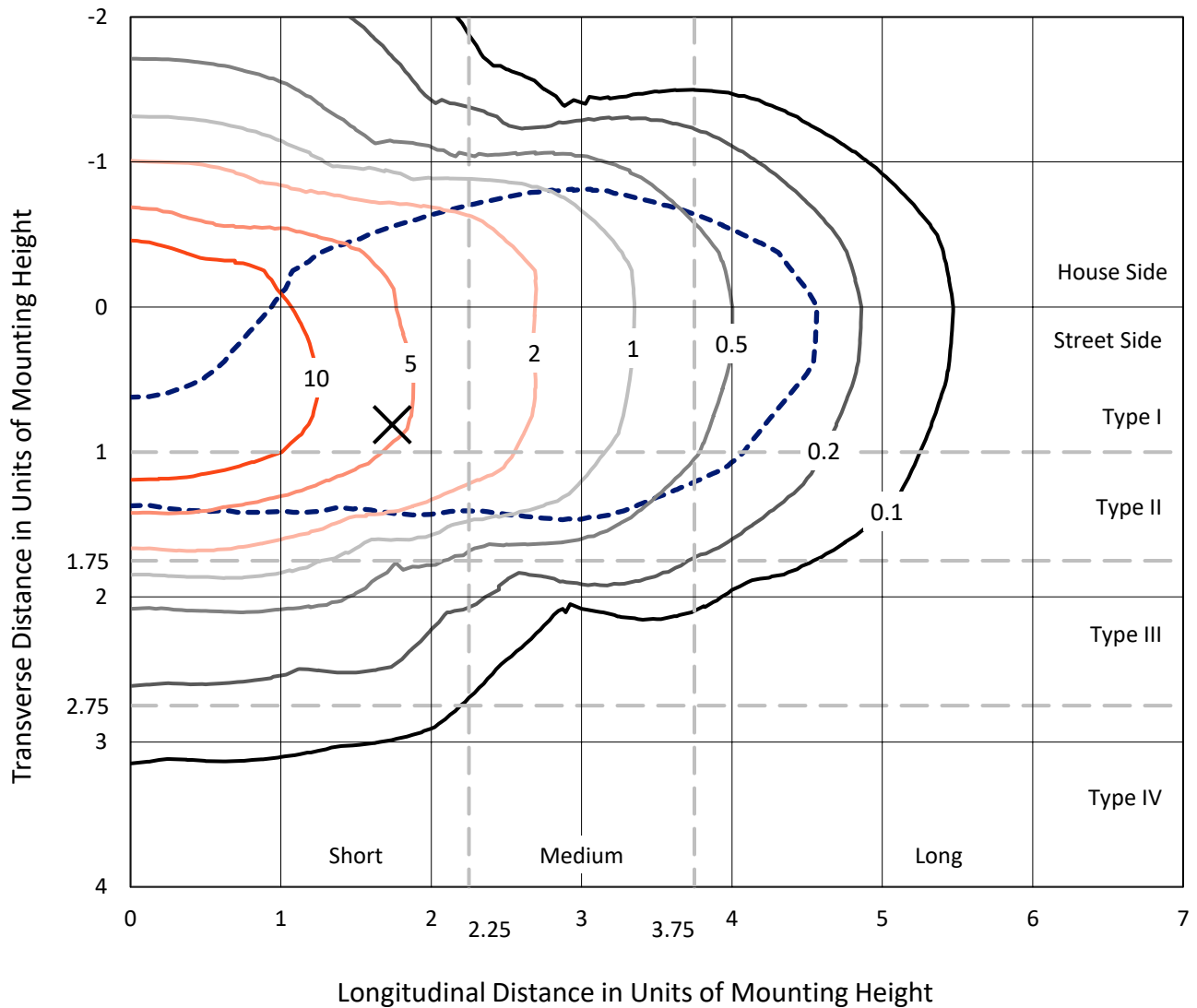
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

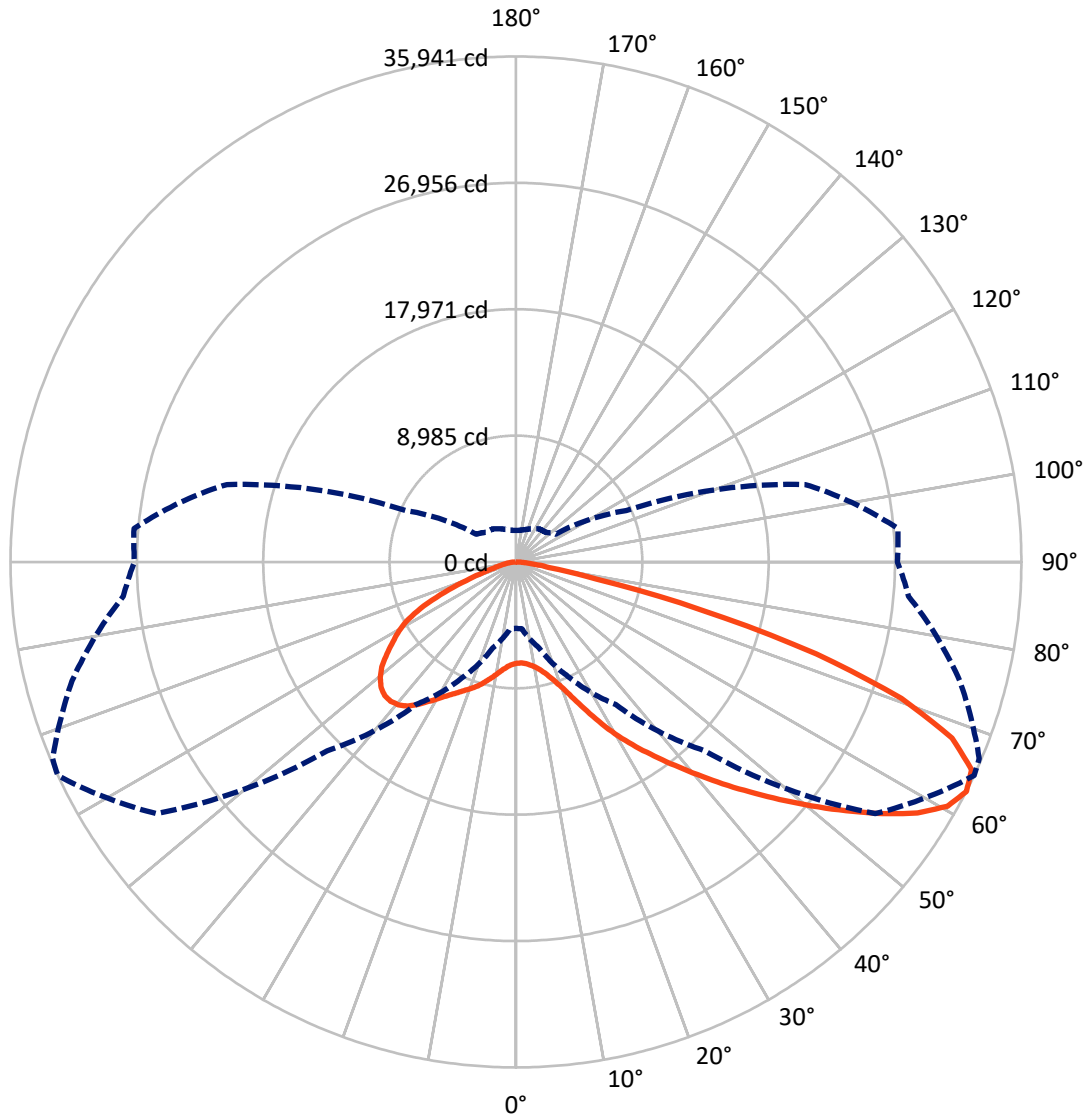
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20619.1	0.0	20619.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	44722.9	0.0	44722.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	65342.0	0.0	65342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.9	1.1
10°-20°	2434.4	3.7
20°-30°	4935.9	7.6
30°-40°	8541.6	13.1
40°-50°	12926.0	19.8
50°-60°	15154.9	23.2
60°-70°	12705.6	19.4
70°-80°	7014.5	10.7
80°-90°	911.2	1.4
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°	65342.0	100.0
0°-180°	65342.0	100.0

Coefficient of Utilization



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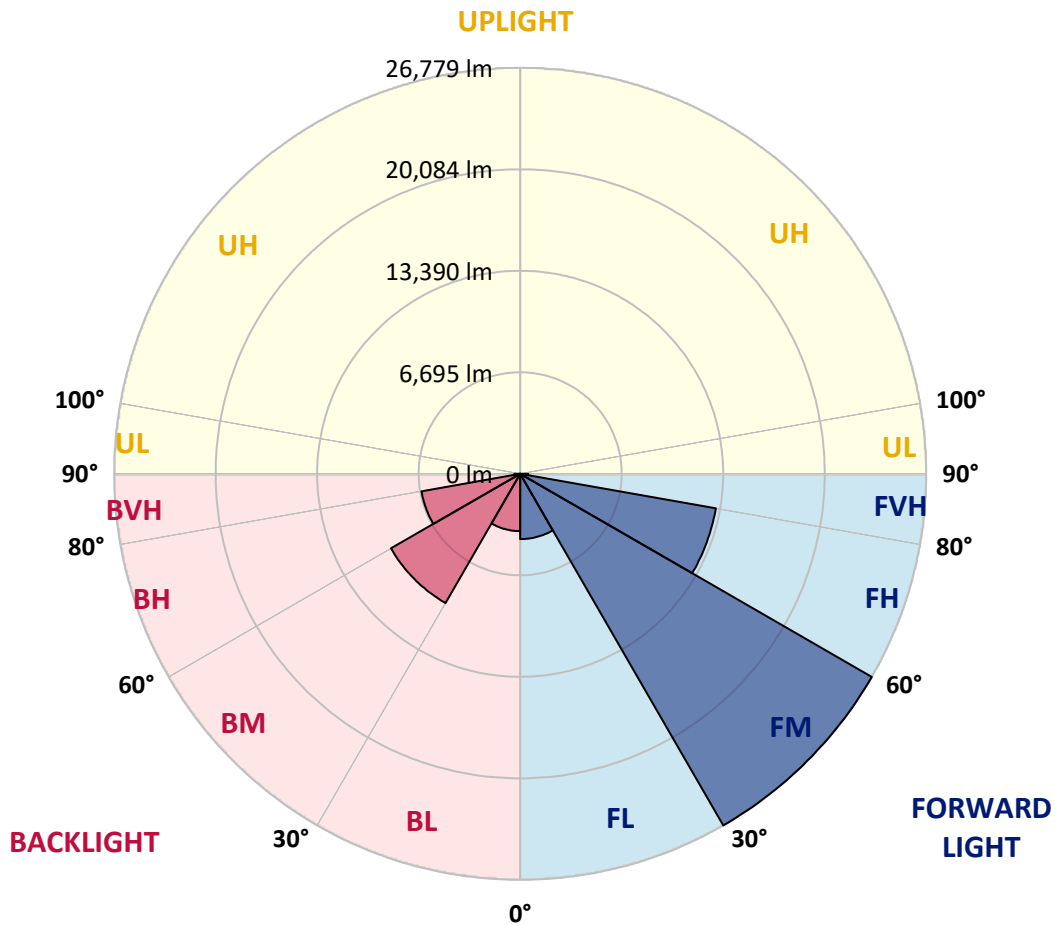
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4306.9	6.6			
FM (30°-60°)	26779.3	41.0			
FH (60°-80°)	13105.7	20.1			G5
FVH (80°-90°)	531.0	0.8			G4/750
BL (0°-30°)	3781.3	5.8	B4/5000		
BM (30°-60°)	9843.3	15.1	B5		
BH (60°-80°)	6614.4	10.1	B5		G5
BVH (80°-90°)	380.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4
2.5°	7152.9	7132.6	7149.6	7149.6	7156.3	7152.9	7176.7	7183.5	7193.6	7214.0
5°	7081.8	7078.4	7108.9	7136.0	7163.1	7186.8	7217.4	7261.4	7268.2	7291.9
7.5°	7058.0	7037.7	7085.1	7119.0	7183.5	7241.1	7322.4	7397.0	7427.5	7437.7
10°	7241.1	7207.2	7251.3	7271.6	7325.8	7383.5	7478.4	7597.0	7630.9	7671.6
12.5°	7553.0	7515.7	7580.1	7610.6	7661.4	7712.3	7776.7	7892.0	7908.9	7983.5
15°	7980.1	7936.0	7976.7	8014.0	8098.8	8146.2	8210.6	8322.5	8322.5	8380.1
17.5°	8559.8	8502.2	8532.7	8546.2	8600.5	8671.7	8780.2	8878.5	8929.3	8909.0
20°	9424.3	9353.1	9353.1	9285.3	9264.9	9322.6	9464.9	9600.5	9654.8	9549.7
22.5°	10722.6	10620.9	10563.3	10332.8	10241.3	10248.0	10390.4	10556.5	10600.6	10414.1
25°	12373.6	12214.2	12136.3	11797.3	11590.5	11410.8	11522.7	11736.3	11797.3	11566.8
27.5°	14024.5	14034.7	13960.1	13553.3	13210.9	12882.1	12824.5	13048.2	13112.6	12851.6
30°	16339.9	16099.2	15956.8	15468.7	14980.5	14519.5	14282.2	14373.7	14390.6	14078.8
32.5°	18336.6	18275.6	17970.5	17543.4	16916.2	16194.1	15797.5	15651.7	15624.6	15180.5
35°	20611.3	20577.4	20255.4	19746.9	19068.9	18065.4	17350.1	16933.2	16899.3	16275.5
37.5°	22923.3	22923.3	22608.1	22052.1	21350.4	20096.0	19007.8	18346.8	18238.3	17424.7
40°	24767.5	24655.6	24713.3	24479.3	23675.9	22343.6	20848.6	19889.3	19743.5	18767.2
42.5°	25815.0	25777.7	26123.5	26384.5	26055.7	24991.2	22875.9	21560.5	21357.1	20245.2
45°	26048.9	26008.2	26625.2	27581.2	28042.3	27604.9	25079.4	23320.0	23072.5	21791.1
47.5°	25509.9	25428.5	26333.7	27842.2	29320.3	30089.8	27466.0	25228.5	24869.2	23296.2
50°	23889.5	23811.5	25181.1	27184.6	29750.8	31778.1	30055.9	27252.4	26703.2	24909.9
52.5°	20367.2	20404.5	22550.4	25303.1	29184.7	32829.0	32286.6	29384.7	28723.6	26560.8
55°	15865.3	15946.7	18584.1	21614.8	26920.2	32669.6	33808.7	31581.4	30923.8	28113.4
57.5°	11360.0	11719.3	14190.6	17190.8	22570.8	30144.1	34140.9	33669.7	33032.4	29808.5
60°	7363.1	7427.5	9970.1	12994.0	17187.4	25655.7	33466.3	35252.8	34754.5	31537.4
62.5°	4718.9	4763.0	6312.2	9088.6	12370.2	18980.7	31195.0	35941.0	35788.5	32679.8
65°	3468.0	3434.1	4240.9	6007.1	8332.7	11705.7	26784.6	35608.8	35910.5	33395.1
67.5°	2895.1	2847.6	3244.3	4159.6	6139.3	6647.8	19818.1	33449.3	34554.5	33313.7
70°	2637.4	2596.8	2837.4	3088.3	4790.1	4451.1	9990.4	29079.6	30781.4	32388.3
72.5°	2234.0	2162.8	2491.7	2742.5	3725.6	3413.8	4129.0	22336.8	24411.5	29422.0
75°	1732.3	1684.8	1966.2	2413.7	2800.2	2664.6	2610.3	13563.5	15828.0	22753.8
77.5°	1373.0	1308.5	1566.2	1881.5	2518.8	2010.3	1901.8	5841.0	8085.2	14526.2
80°	1034.0	976.3	1189.9	1488.2	1935.7	1515.3	1230.6	2383.2	3047.6	7359.7
82.5°	735.6	684.8	830.6	1091.6	1301.8	1359.4	756.0	1335.7	1501.8	2837.4
85°	471.2	440.7	556.0	684.8	827.2	874.6	461.0	698.3	766.1	1169.6
87.5°	257.6	210.2	298.3	318.7	383.1	349.2	220.4	254.3	274.6	423.8
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°
7200.4	0°	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4
7214.0	2.5°	7227.5	7237.7	7271.6	7281.8	7305.5	7336.0	7356.3	7376.7	7376.7	7397.0
7322.4	5°	7325.8	7349.6	7420.8	7458.0	7519.1	7580.1	7617.4	7661.4	7688.6	7702.1
7495.3	7.5°	7515.7	7553.0	7654.7	7719.1	7824.2	7908.9	7966.5	8027.6	8041.1	8078.4
7736.0	10°	7773.3	7817.4	7932.6	8054.7	8180.1	8285.2	8339.5	8383.5	8400.5	8407.3
8044.5	12.5°	8068.3	8132.7	8281.8	8431.0	8563.2	8654.7	8668.3	8658.1	8610.7	8570.0
8424.2	15°	8431.0	8488.6	8654.7	8817.4	8946.3	8963.2	8878.5	8824.2	8766.6	8756.4
8848.0	17.5°	8864.9	8895.4	9048.0	9207.3	9217.5	9159.8	9034.4	8983.6	8929.3	8892.0
9400.5	20°	9370.0	9359.8	9468.3	9536.1	9464.9	9288.7	9098.8	9014.1	8959.8	8915.8
10078.5	22.5°	9973.4	9895.5	9881.9	9865.0	9675.1	9305.6	9048.0	8939.5	8854.7	8793.7
11024.3	25°	10851.5	10553.1	10346.3	10231.1	9803.9	9214.1	8885.2	8644.6	8485.2	8380.1
12180.3	27.5°	11949.8	11448.1	10926.0	10644.7	9803.9	9027.6	8492.0	8102.2	7841.1	7732.6
13299.1	30°	12997.3	12471.9	11702.4	11143.0	9780.2	8722.5	7858.1	7315.7	7010.6	6902.1
14255.0	32.5°	13892.3	13319.4	12526.1	11688.8	9722.6	8227.6	7071.6	6471.6	6176.6	6047.8
15200.9	35°	14722.9	14112.7	13353.3	12288.8	9570.0	7502.1	6207.1	5749.5	5420.6	5213.9
16163.6	37.5°	15573.8	14848.3	14136.4	12831.2	9295.4	6654.6	5542.7	5152.8	4766.4	4488.4
17187.4	40°	16499.2	15631.4	14973.7	13153.3	8844.6	5847.8	5027.4	4671.4	4261.3	3966.3
18367.1	42.5°	17580.7	16570.4	15906.0	13319.4	8227.6	5274.9	4691.8	4342.6	3956.2	3715.5
19631.6	45°	18709.5	17604.4	16756.9	13316.0	7539.4	5007.1	4583.3	4237.5	3810.4	3559.5
20930.0	47.5°	19892.6	18685.8	17492.5	13099.0	6942.8	5044.4	4522.3	4010.4	3539.2	3295.1
22241.9	50°	21079.2	19868.9	18204.4	12692.2	6688.5	4963.0	4295.2	3691.7	3135.8	2915.4
23472.5	52.5°	22255.5	21126.6	18818.0	12112.5	6430.9	4661.3	4003.6	3278.2	2969.7	2817.1
24743.8	55°	23438.6	22370.8	19485.8	11268.4	5786.8	4308.7	3515.5	3122.2	2837.4	2698.5
25987.9	57.5°	24625.1	23808.1	20119.8	10424.3	4976.6	3874.8	3247.6	2932.4	2705.2	2586.6
27028.6	60°	25859.1	25452.3	20774.1	9648.0	4176.5	3318.8	3051.0	2779.8	2549.3	2417.1
28028.7	62.5°	27130.3	27262.6	21285.9	8647.9	3440.9	2979.8	2874.7	2596.8	2373.0	2247.6
28855.9	65°	28411.8	29008.4	21621.6	7261.4	2790.0	2657.8	2684.9	2396.7	2169.6	2061.1
29462.7	67.5°	29377.9	30266.1	21526.6	5495.2	2288.3	2352.7	2447.6	2186.6	1973.0	1888.2
29364.4	70°	29486.4	30116.9	20591.0	3762.9	1915.4	2054.4	2183.2	1979.8	1759.4	1698.4
27981.2	72.5°	28042.3	28082.9	17984.1	2457.8	1620.4	1803.5	1905.2	1769.6	1556.0	1495.0
24479.3	75°	24255.6	23225.0	13204.1	1620.4	1356.0	1549.2	1644.2	1549.2	1342.4	1356.0
18316.3	77.5°	18377.3	16448.4	8017.4	1152.6	1132.3	1301.8	1430.6	1362.8	1186.5	1332.3
9210.7	80°	9468.3	8898.8	3576.5	861.1	895.0	1040.7	1176.3	1088.2	939.0	895.0
2057.7	82.5°	2169.6	2522.2	1410.2	617.0	647.5	749.2	898.4	817.0	674.6	569.5
857.7	85°	759.4	830.6	623.8	386.5	379.7	467.8	610.2	545.8	457.7	366.1
362.7	87.5°	240.7	315.3	233.9	155.9	162.7	210.2	281.4	257.6	213.6	139.0
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

<u>180°</u>
7200.4
7397.0
7708.9
8064.9
8390.3
8570.0
8756.4
8895.4
8919.1
8814.1
8420.8
7786.9
6966.5
6112.2
5281.7
4563.0
4024.0
3762.9
3600.2
3329.0
2929.0
2817.1
2684.9
2566.2
2406.9
2244.2
2057.7
1891.6
1701.8
1491.6
1308.5
1172.9
817.0
562.7
386.5
145.8
0.0

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