

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: P956165

Luminaire Tested: **GALN-SB8D-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956165
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-SB8D-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50758 lumens
Efficiency: N/A
Efficacy: 86.8 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

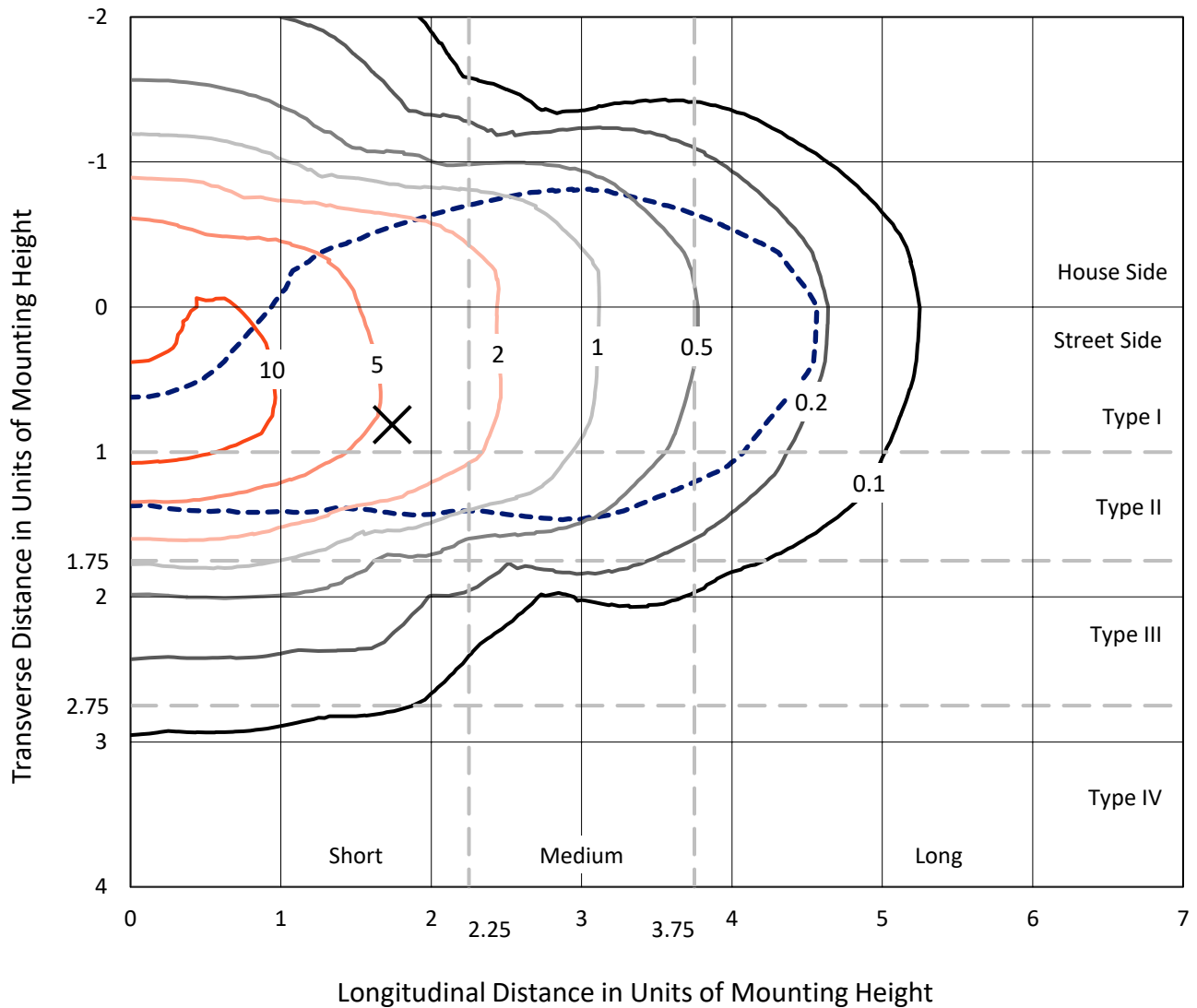
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

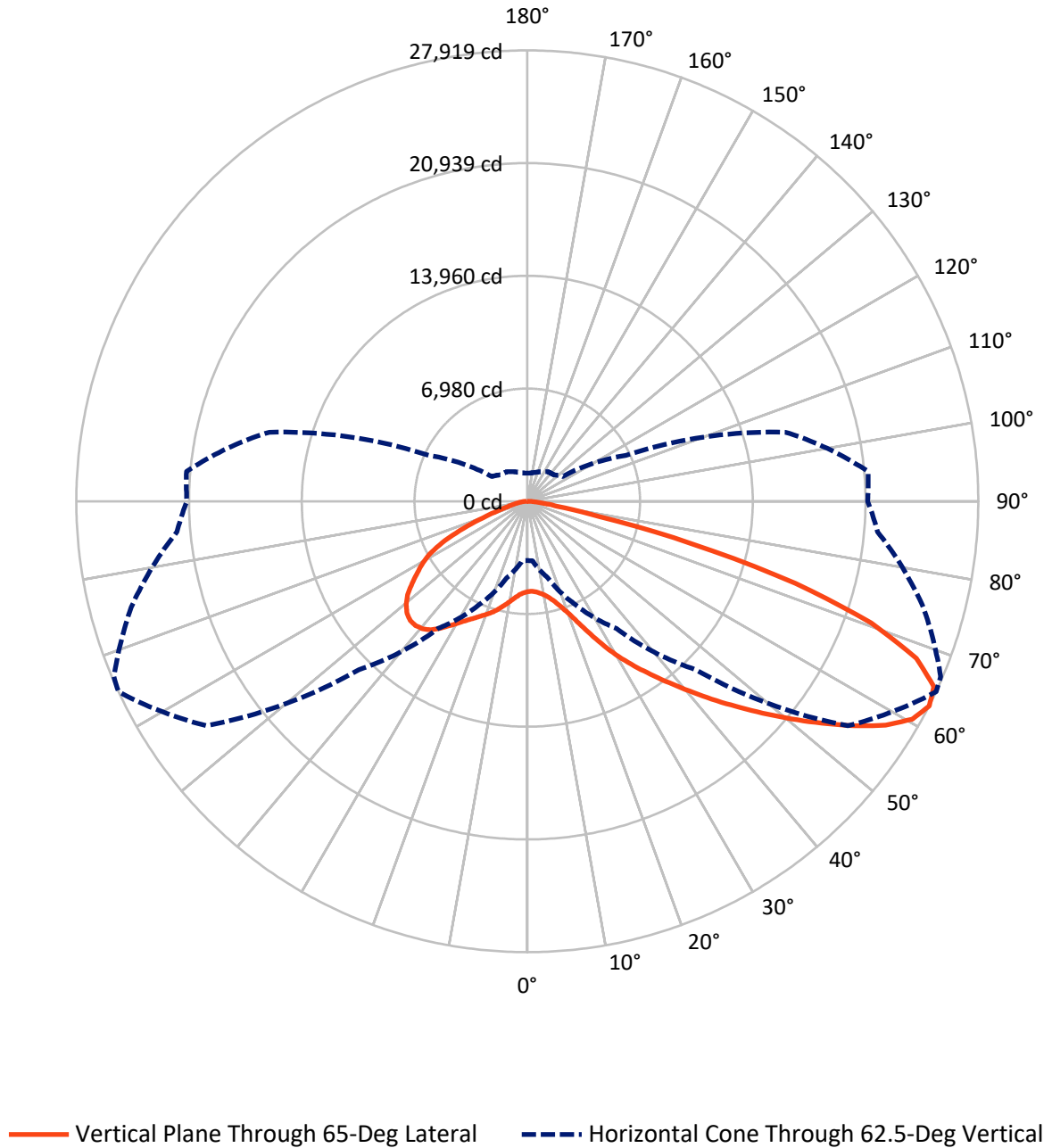
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16017.0	0.0	16017.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	34741.0	0.0	34741.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	50758.0	0.0	50758.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.7	1.1
10°-20°	1891.0	3.7
20°-30°	3834.3	7.6
30°-40°	6635.1	13.1
40°-50°	10041.0	19.8
50°-60°	11772.4	23.2
60°-70°	9869.8	19.4
70°-80°	5448.9	10.7
80°-90°	707.8	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°	50758.0	100.0
0°-180°	50758.0	100.0

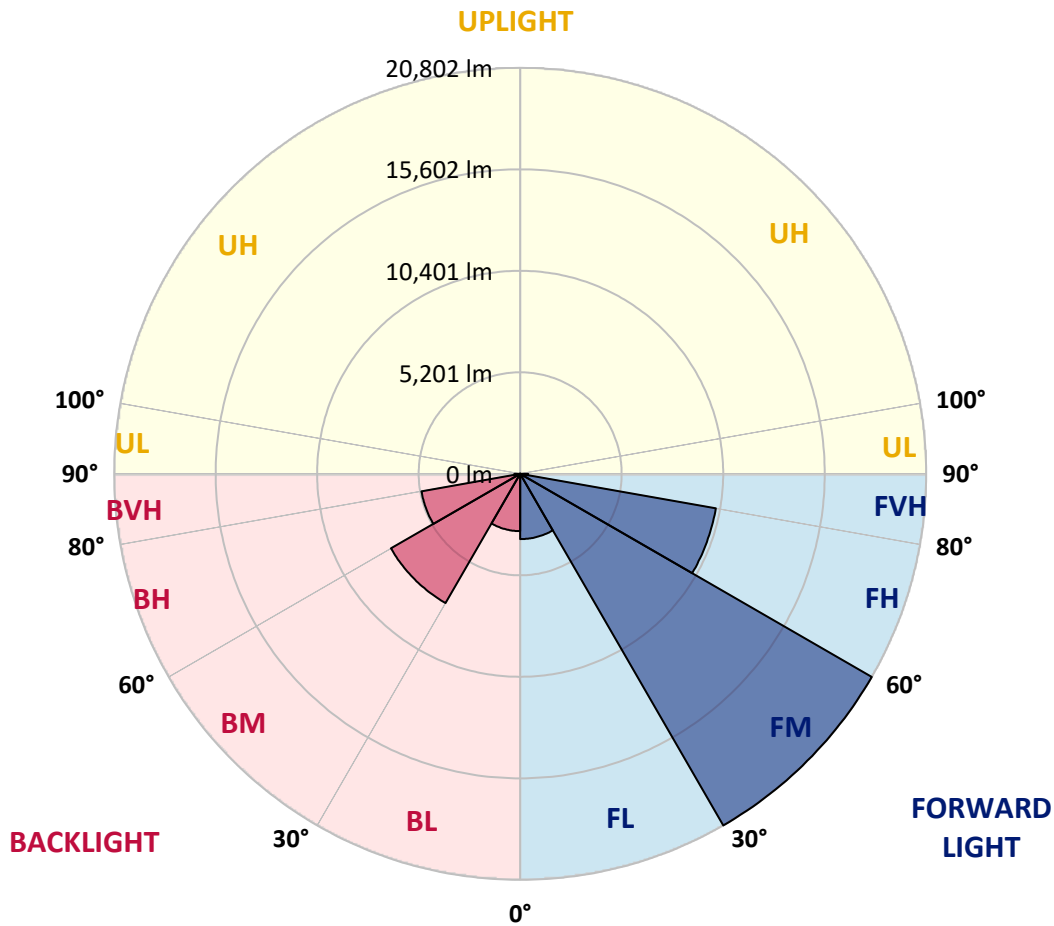


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3345.6	6.6			
FM (30°-60°)	20802.3	41.0			
FH (60°-80°)	10180.6	20.1			G4/12000
FVH (80°-90°)	412.5	0.8			G3/500
BL (0°-30°)	2937.3	5.8	B4/5000		
BM (30°-60°)	7646.3	15.1	B4/8500		
BH (60°-80°)	5138.1	10.1	B5		G5
BVH (80°-90°)	295.3	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°	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3
2.5°	5556.4	5540.6	5553.8	5553.8	5559.1	5556.4	5574.9	5580.1	5588.0	5603.8
5°	5501.1	5498.5	5522.2	5543.3	5564.3	5582.8	5606.5	5640.7	5646.0	5664.4
7.5°	5482.7	5466.9	5503.8	5530.1	5580.1	5624.9	5688.1	5746.0	5769.7	5777.6
10°	5624.9	5598.6	5632.8	5648.6	5690.7	5735.5	5809.2	5901.4	5927.8	5959.4
12.5°	5867.2	5838.2	5888.3	5912.0	5951.5	5991.0	6041.0	6130.5	6143.7	6201.6
15°	6199.0	6164.8	6196.4	6225.3	6291.2	6328.0	6378.1	6465.0	6465.0	6509.7
17.5°	6649.3	6604.5	6628.2	6638.8	6680.9	6736.2	6820.5	6896.8	6936.3	6920.5
20°	7320.8	7265.5	7265.5	7212.8	7197.0	7241.8	7352.4	7457.7	7499.9	7418.2
22.5°	8329.4	8250.4	8205.6	8026.6	7955.5	7960.7	8071.3	8200.4	8234.6	8089.8
25°	9611.9	9488.1	9427.5	9164.2	9003.5	8864.0	8950.9	9116.8	9164.2	8985.1
27.5°	10894.3	10902.2	10844.3	10528.3	10262.3	10006.9	9962.1	10135.9	10185.9	9983.2
30°	12692.9	12505.9	12395.3	12016.1	11636.9	11278.8	11094.5	11165.6	11178.7	10936.5
32.5°	14244.0	14196.6	13959.6	13627.8	13140.6	12579.7	12271.6	12158.3	12137.3	11792.3
35°	16011.0	15984.7	15734.5	15339.5	14812.8	14033.3	13477.7	13153.8	13127.4	12642.9
37.5°	17807.0	17807.0	17562.1	17130.2	16585.1	15610.7	14765.4	14251.9	14167.6	13535.6
40°	19239.5	19152.6	19197.4	19015.7	18391.6	17356.6	16195.3	15450.1	15336.8	14578.4
42.5°	20053.2	20024.3	20292.9	20495.6	20240.2	19413.3	17770.1	16748.3	16590.3	15726.6
45°	20234.9	20203.3	20682.6	21425.2	21783.4	21443.7	19481.8	18115.1	17922.8	16927.4
47.5°	19816.2	19753.0	20456.1	21628.0	22776.2	23373.9	21335.7	19597.7	19318.5	18096.6
50°	18557.5	18496.9	19560.8	21117.1	23110.6	24685.4	23347.6	21169.8	20743.2	19350.1
52.5°	15821.4	15850.3	17517.3	19655.6	22670.8	25501.7	25080.4	22826.2	22312.7	20632.6
55°	12324.2	12387.4	14436.2	16790.5	20911.7	25377.9	26262.8	24532.6	24021.7	21838.7
57.5°	8824.5	9103.6	11023.4	13353.9	17533.1	23416.1	26520.8	26154.8	25659.7	23155.4
60°	5719.7	5769.7	7744.8	10093.8	13351.3	19929.5	25996.8	27384.6	26997.5	24498.4
62.5°	3665.7	3699.9	4903.4	7060.1	9609.2	14744.3	24232.4	27919.2	27800.7	25385.8
65°	2694.0	2667.6	3294.4	4666.4	6472.9	9093.1	20806.4	27661.1	27895.5	25941.5
67.5°	2248.9	2212.0	2520.2	3231.2	4769.1	5164.1	15394.8	25983.6	26842.1	25878.3
70°	2048.8	2017.2	2204.1	2399.0	3721.0	3457.6	7760.6	22589.2	23911.1	25159.4
72.5°	1735.4	1680.1	1935.5	2130.4	2894.1	2651.8	3207.5	17351.4	18963.0	22855.2
75°	1345.7	1308.8	1527.4	1875.0	2175.2	2069.8	2027.7	10536.2	12295.3	17675.3
77.5°	1066.5	1016.5	1216.6	1461.5	1956.6	1561.6	1477.3	4537.3	6280.6	11284.1
80°	803.2	758.4	924.3	1156.1	1503.7	1177.1	955.9	1851.3	2367.4	5717.1
82.5°	571.4	531.9	645.2	848.0	1011.2	1056.0	587.2	1037.6	1166.6	2204.1
85°	366.0	342.3	431.9	531.9	642.5	679.4	358.1	542.5	595.1	908.5
87.5°	200.1	163.3	231.7	247.5	297.6	271.2	171.2	197.5	213.3	329.2
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°
5593.3	0°	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3	5593.3
5603.8	2.5°	5614.4	5622.3	5648.6	5656.5	5674.9	5698.6	5714.4	5730.2	5730.2	5746.0
5688.1	5°	5690.7	5709.2	5764.5	5793.4	5840.8	5888.3	5917.2	5951.5	5972.5	5983.1
5822.4	7.5°	5838.2	5867.2	5946.2	5996.2	6077.9	6143.7	6188.5	6235.9	6246.4	6275.4
6009.4	10°	6038.4	6072.6	6162.1	6256.9	6354.4	6436.0	6478.1	6512.4	6525.5	6530.8
6249.0	12.5°	6267.5	6317.5	6433.4	6549.2	6651.9	6723.0	6733.6	6725.7	6688.8	6657.2
6544.0	15°	6549.2	6594.0	6723.0	6849.4	6949.5	6962.7	6896.8	6854.7	6809.9	6802.0
6873.1	17.5°	6886.3	6910.0	7028.5	7152.3	7160.2	7115.4	7018.0	6978.5	6936.3	6907.4
7302.4	20°	7278.7	7270.8	7355.0	7407.7	7352.4	7215.5	7068.0	7002.2	6960.0	6925.8
7829.1	22.5°	7747.4	7686.9	7676.3	7663.2	7515.7	7228.6	7028.5	6944.2	6878.4	6831.0
8563.8	25°	8429.5	8197.7	8037.1	7947.6	7615.8	7157.5	6902.1	6715.1	6591.4	6509.7
9461.8	27.5°	9282.7	8892.9	8487.4	8268.8	7615.8	7012.7	6596.6	6293.8	6091.0	6006.8
10330.8	30°	10096.4	9688.2	9090.4	8655.9	7597.3	6775.7	6104.2	5682.8	5445.8	5361.6
11073.4	32.5°	10791.6	10346.6	9730.4	9079.9	7552.6	6391.2	5493.2	5027.1	4798.0	4698.0
11808.1	35°	11436.8	10962.8	10372.9	9546.0	7434.0	5827.7	4821.7	4466.2	4210.8	4050.1
12556.0	37.5°	12097.8	11534.2	10981.2	9967.4	7220.7	5169.3	4305.6	4002.7	3702.5	3486.6
13351.3	40°	12816.7	12142.5	11631.7	10217.5	6870.5	4542.6	3905.3	3628.8	3310.2	3081.1
14267.7	42.5°	13656.7	12872.0	12355.8	10346.6	6391.2	4097.5	3644.6	3373.4	3073.2	2886.2
15249.9	45°	14533.7	13675.2	13016.8	10343.9	5856.7	3889.5	3560.3	3291.7	2959.9	2765.1
16258.5	47.5°	15452.7	14515.2	13588.3	10175.4	5393.2	3918.5	3512.9	3115.3	2749.3	2559.7
17277.6	50°	16374.4	15434.3	14141.3	9859.4	5195.7	3855.3	3336.5	2867.8	2435.9	2264.7
18233.6	52.5°	17288.2	16411.3	14617.9	9409.1	4995.5	3620.9	3110.0	2546.5	2306.8	2188.3
19221.1	55°	18207.2	17377.7	15136.7	8753.4	4495.2	3347.0	2730.8	2425.3	2204.1	2096.2
20187.5	57.5°	19128.9	18494.3	15629.1	8097.7	3865.8	3010.0	2522.8	2277.9	2101.4	2009.3
20996.0	60°	20087.5	19771.5	16137.4	7494.6	3244.3	2578.1	2370.0	2159.4	1980.3	1877.6
21772.8	62.5°	21075.0	21177.7	16535.0	6717.8	2672.9	2314.7	2233.1	2017.2	1843.4	1745.9
22415.4	65°	22070.4	22533.9	16795.7	5640.7	2167.3	2064.6	2085.6	1861.8	1685.4	1601.1
22886.8	67.5°	22820.9	23510.9	16722.0	4268.7	1777.5	1827.6	1901.3	1698.5	1532.6	1466.8
22810.4	70°	22905.2	23395.0	15995.2	2923.1	1487.9	1595.8	1695.9	1537.9	1366.7	1319.3
21736.0	72.5°	21783.4	21815.0	13970.1	1909.2	1258.8	1401.0	1480.0	1374.6	1208.7	1161.3
19015.7	75°	18841.9	18041.3	10257.0	1258.8	1053.4	1203.5	1277.2	1203.5	1042.8	1053.4
14228.2	77.5°	14275.6	12777.2	6228.0	895.4	879.6	1011.2	1111.3	1058.6	921.7	1034.9
7154.9	80°	7355.0	6912.6	2778.2	668.9	695.2	808.4	913.8	845.3	729.4	695.2
1598.5	82.5°	1685.4	1959.2	1095.5	479.3	503.0	582.0	697.8	634.6	524.0	442.4
666.2	85°	589.9	645.2	484.5	300.2	294.9	363.4	474.0	424.0	355.5	284.4
281.8	87.5°	187.0	244.9	181.7	121.1	126.4	163.3	218.6	200.1	165.9	108.0
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>
5593.3
5746.0
5988.3
6264.8
6517.6
6657.2
6802.0
6910.0
6928.4
6846.8
6541.3
6048.9
5411.6
4748.0
4102.8
3544.5
3125.8
2923.1
2796.7
2586.0
2275.2
2188.3
2085.6
1993.5
1869.7
1743.3
1598.5
1469.4
1322.0
1158.7
1016.5
911.2
634.6
437.1
300.2
113.2
0.0

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