

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: P955264

Luminaire Tested: **GALN-SB8B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46745 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

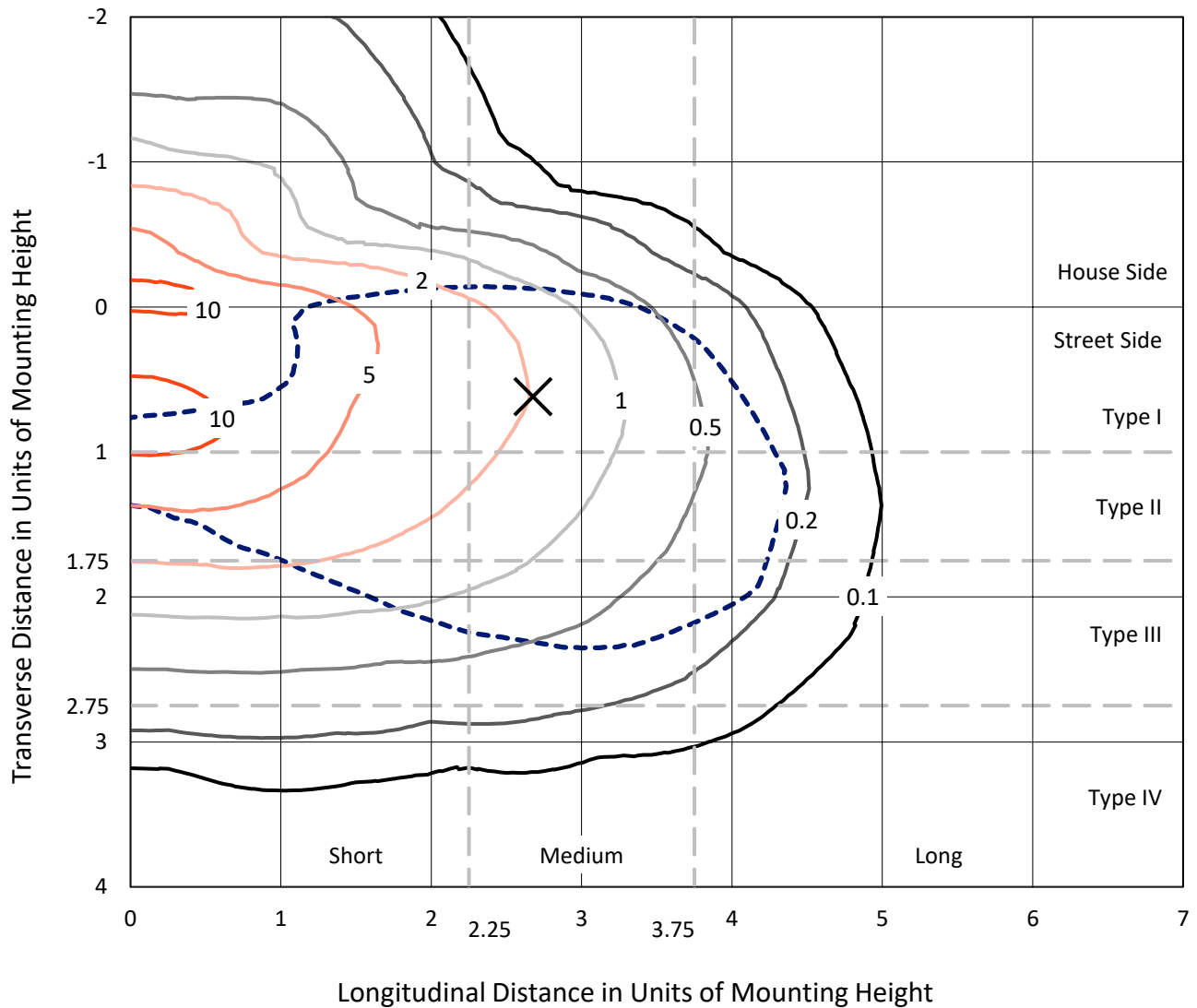
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

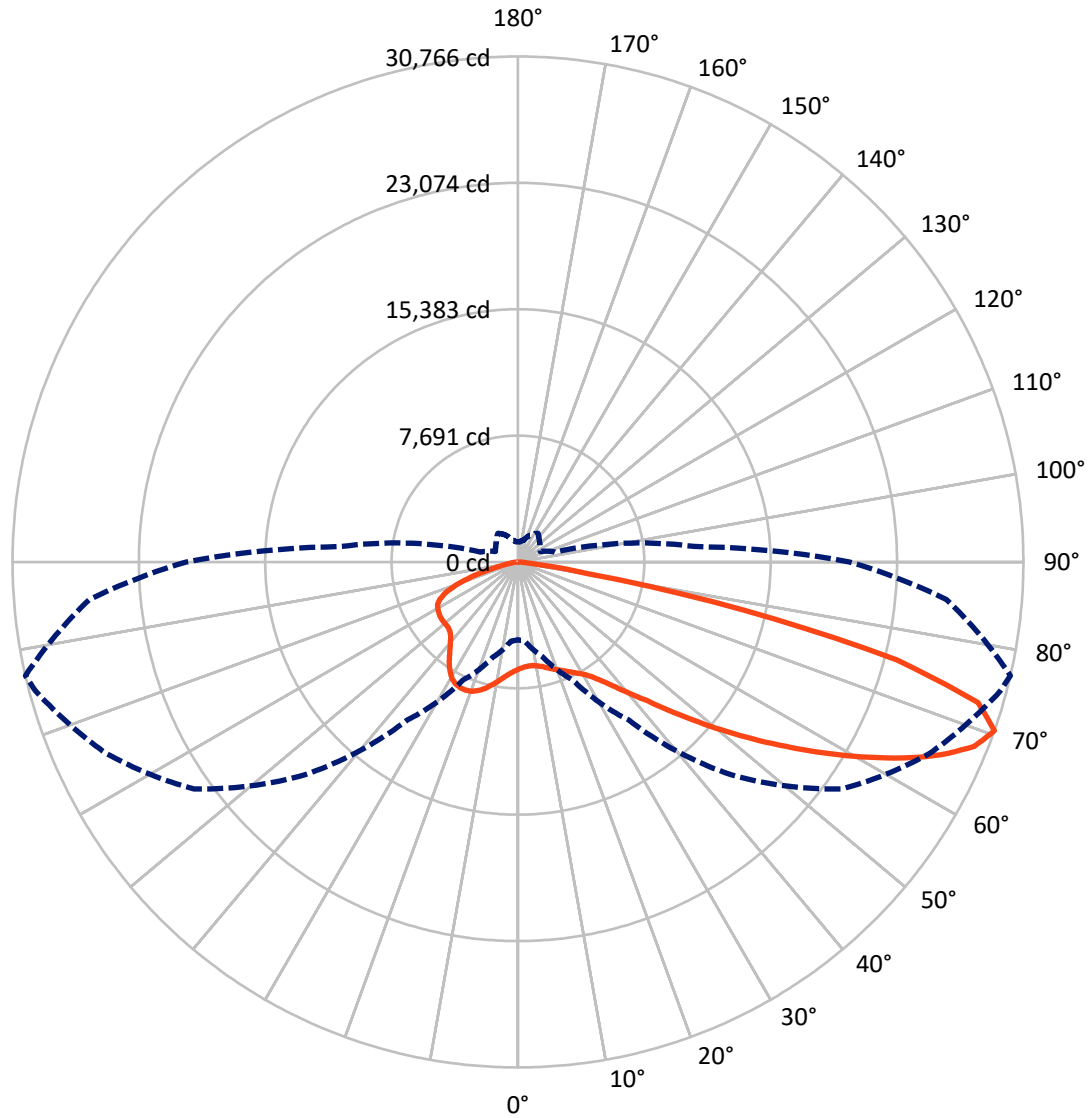
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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
House Side	Lumens	10236.4	0.0	10236.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	36508.6	0.0	36508.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	46745.0	0.0	46745.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.0	1.3
10°-20°	1795.0	3.8
20°-30°	3069.8	6.6
30°-40°	4936.5	10.6
40°-50°	7707.2	16.5
50°-60°	10295.0	22.0
60°-70°	10972.8	23.5
70°-80°	6754.8	14.5
80°-90°	591.9	1.3
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°	46745.0	100.0
0°-180°	46745.0	100.0



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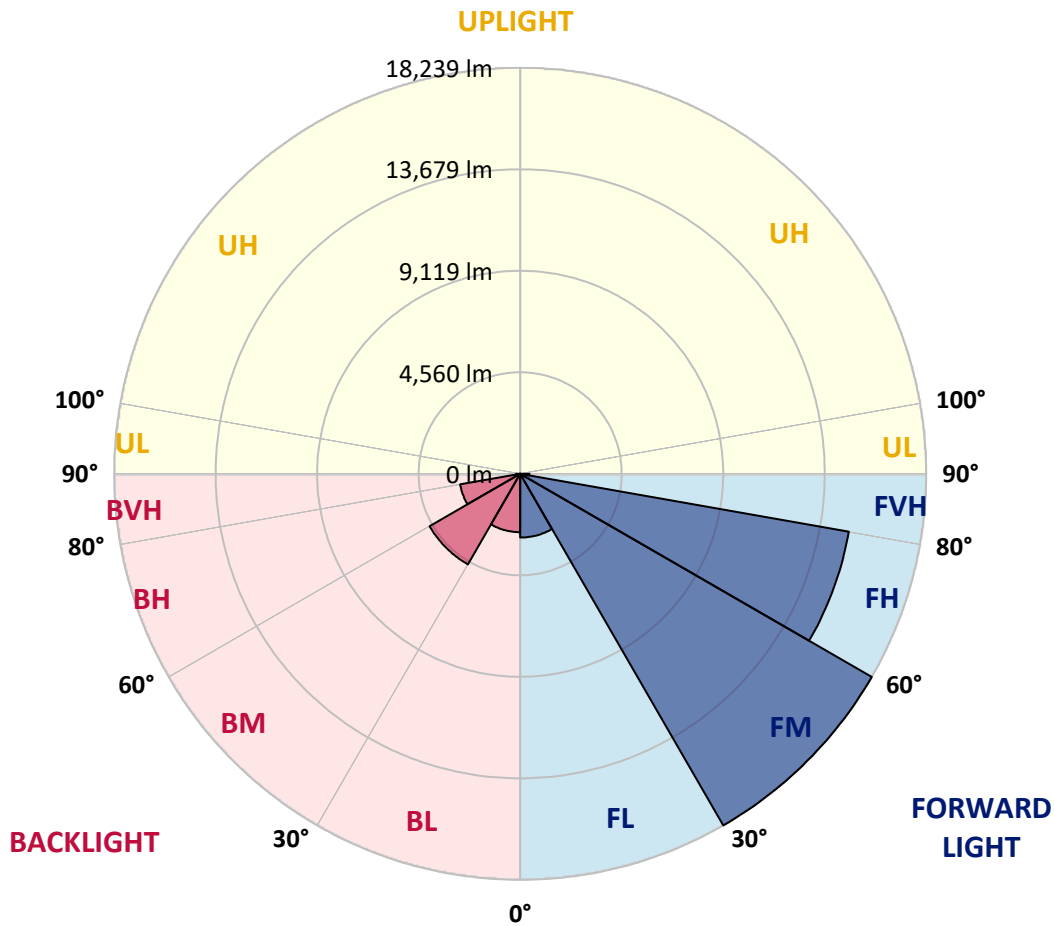
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2863.9	6.1			
FM (30°-60°)	18238.9	39.0			
FH (60°-80°)	14991.9	32.1			G5
FVH (80°-90°)	413.9	0.9			G3/500
BL (0°-30°)	2622.9	5.6	B4/5000		
BM (30°-60°)	4699.8	10.1	B3/5000		
BH (60°-80°)	2735.8	5.9	B4/5000		G4/5000
BVH (80°-90°)	178.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4
2.5°	6011.4	6009.0	6040.2	6049.7	6107.2	6147.9	6224.5	6305.9	6411.2	6423.2
5°	5664.3	5664.3	5700.2	5738.5	5812.7	5894.1	6011.4	6152.7	6334.6	6363.3
7.5°	5369.8	5389.0	5420.1	5494.3	5580.5	5697.8	5877.4	6078.5	6317.9	6363.3
10°	5132.8	5154.4	5192.7	5252.5	5381.8	5544.6	5779.2	6037.8	6358.6	6430.4
12.5°	5058.6	5080.1	5101.7	5147.2	5266.9	5458.4	5738.5	6056.9	6456.7	6528.5
15°	5231.0	5257.3	5240.5	5228.6	5290.8	5465.6	5757.7	6126.3	6578.8	6681.8
17.5°	5628.4	5638.0	5599.7	5487.1	5477.6	5570.9	5848.6	6222.1	6732.0	6844.5
20°	6270.0	6253.2	6174.2	5951.6	5824.7	5805.5	6004.2	6365.7	6890.0	7009.7
22.5°	7141.4	7122.3	6964.3	6612.3	6329.8	6143.1	6229.3	6552.5	7067.2	7201.3
25°	8228.3	8202.0	7969.7	7490.9	7052.8	6590.8	6535.7	6799.1	7285.1	7409.5
27.5°	9497.1	9475.6	9224.2	8592.2	7960.2	7203.7	6916.4	7088.7	7512.5	7653.7
30°	10861.7	10924.0	10478.7	9798.8	8999.2	8003.3	7428.7	7445.5	7807.0	7933.8
32.5°	12465.7	12573.5	12037.2	11175.4	10083.7	8872.3	8075.1	7943.4	8235.5	8340.8
35°	14055.4	14177.5	13732.2	12779.4	11522.5	9896.9	8750.2	8515.6	8805.3	8920.2
37.5°	15429.6	15592.4	15362.5	14534.2	13061.9	11132.3	9631.2	9188.3	9506.7	9650.4
40°	16514.1	16763.0	16746.3	16229.2	14876.5	12630.9	10749.2	10019.0	10378.1	10533.8
42.5°	17395.1	17610.5	17797.3	17770.9	16770.2	14333.1	12063.5	11098.8	11371.7	11551.2
45°	18003.2	18233.0	18635.2	19068.5	18592.1	16155.0	13569.4	12379.6	12628.5	12899.1
47.5°	18546.6	18807.5	19329.4	20016.5	20138.6	17984.0	15218.9	13871.0	14098.5	14378.6
50°	18594.5	18819.5	19628.7	20603.1	21237.5	19741.2	16990.5	15544.5	15757.5	16056.8
52.5°	17438.2	17792.5	19205.0	20586.3	21742.6	21211.2	18750.1	17284.9	17524.3	17883.4
55°	13535.9	14055.4	17962.5	19944.7	21563.1	22161.6	20423.5	19135.5	19442.0	19817.8
57.5°	11659.0	11886.4	14258.9	18776.4	20744.3	22408.2	21836.0	21005.3	21498.4	21910.2
60°	10478.7	10667.8	12070.7	16959.4	19667.0	22017.9	22927.7	22748.1	23600.4	24091.2
62.5°	9214.6	9394.2	10670.2	14160.7	18288.0	21369.2	23617.2	24356.9	25755.0	26291.3
65°	7960.2	8113.4	9336.7	11898.4	16535.6	20720.4	23973.9	25747.9	27749.3	28304.7
67.5°	6562.1	6688.9	7845.3	10038.2	14404.9	19832.2	24151.0	26841.9	29484.9	29961.4
70°	4735.4	4833.6	6028.2	7938.6	11730.8	18304.8	24079.2	27617.6	30385.1	30765.8
72.5°	2238.4	2327.0	3729.9	5154.4	8285.8	15331.4	22626.0	27002.3	29470.6	29281.5
75°	1194.6	1271.2	2142.7	2827.4	4376.3	10509.8	18515.5	23260.5	24747.1	23827.8
77.5°	809.2	869.0	1326.3	1697.4	1999.0	4989.2	11900.8	16104.7	15494.2	13976.4
80°	641.6	703.8	1086.9	1149.1	967.2	1802.7	4917.3	7455.0	5355.5	4282.9
82.5°	493.2	562.6	914.5	833.1	526.7	739.8	1431.6	2358.1	1371.8	1043.8
85°	301.6	375.9	718.2	531.5	296.9	337.6	486.0	656.0	419.0	349.5
87.5°	153.2	215.5	363.9	193.9	134.1	79.0	129.3	129.3	110.1	95.8
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°
6521.4	0°	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4	6521.4
6487.8	2.5°	6545.3	6593.2	6674.6	6751.2	6811.0	6868.5	6925.9	6957.1	6966.6	7004.9
6523.7	5°	6621.9	6710.5	6868.5	7016.9	7110.3	7167.7	7208.4	7232.4	7237.2	7249.1
6621.9	7.5°	6763.2	6904.4	7124.7	7273.1	7342.5	7337.7	7321.0	7261.1	7237.2	7215.6
6765.5	10°	6961.9	7148.6	7419.1	7522.1	7479.0	7364.1	7215.6	7040.9	6959.5	6880.5
6961.9	12.5°	7208.4	7445.5	7711.2	7706.4	7493.3	7198.9	6854.1	6586.0	6416.0	6293.9
7203.7	15°	7507.7	7780.6	7984.1	7821.3	7354.5	6825.4	6320.3	5970.7	5817.5	5683.4
7447.8	17.5°	7816.5	8108.6	8202.0	7785.4	7004.9	6272.4	5700.2	5424.9	5274.1	5202.2
7711.2	20°	8118.2	8407.9	8331.2	7579.5	6473.5	5645.1	5135.2	4984.4	4953.3	4970.0
7967.4	22.5°	8436.6	8695.1	8357.6	7182.1	5796.0	5003.5	4723.4	4728.2	4797.6	4847.9
8235.5	25°	8762.2	8936.9	8288.2	6607.5	5068.2	4531.9	4462.5	4539.1	4675.6	4773.7
8537.1	27.5°	9075.8	9152.4	8137.3	5896.5	4443.3	4194.4	4206.3	4364.3	4570.2	4706.7
8903.4	30°	9430.1	9343.9	7847.6	5096.9	4010.0	3904.7	4005.2	4189.6	4395.5	4517.5
9365.5	32.5°	9829.9	9509.1	7388.0	4357.1	3703.6	3672.5	3837.6	3957.3	4048.3	4084.2
9978.3	35°	10327.9	9741.3	6799.1	3837.6	3428.3	3502.5	3660.5	3600.6	3564.7	3545.6
10801.9	37.5°	10974.3	10055.0	6109.6	3500.1	3205.6	3380.4	3445.0	3258.3	3117.0	3047.6
11800.2	40°	11752.3	10514.6	5446.4	3239.1	3064.4	3275.0	3162.5	2937.5	2757.9	2659.8
12923.0	42.5°	12616.6	10995.8	4888.6	3042.8	2985.4	3188.9	2954.2	2686.1	2396.4	2365.3
14261.3	45°	13523.9	11491.4	4508.0	2892.0	2947.1	3114.6	2834.5	2401.2	2195.3	2322.2
15604.3	47.5°	14431.2	11946.2	4278.1	2779.5	2927.9	3030.8	2729.2	2243.2	2097.2	2281.5
17043.1	50°	15441.5	12353.2	4175.2	2698.1	2906.4	2997.3	2571.2	2202.5	1994.2	2116.3
18532.2	52.5°	16444.6	12669.2	4098.6	2616.7	2875.2	2971.0	2494.6	2154.6	1869.7	1876.9
20030.9	55°	17445.3	12875.1	4014.8	2508.9	2805.8	2913.5	2487.4	2102.0	1776.4	1742.9
21615.8	57.5°	18513.1	12992.4	3911.9	2389.2	2686.1	2767.5	2480.2	2061.3	1747.6	1692.6
23236.5	60°	19600.0	13164.8	3777.8	2243.2	2525.7	2592.7	2463.5	2046.9	1730.9	1637.5
24763.9	62.5°	20574.3	13224.7	3617.4	2104.4	2319.8	2420.4	2427.6	2034.9	1685.4	1525.0
26032.7	65°	21213.6	12966.1	3337.3	1946.4	2097.2	2243.2	2358.1	1994.2	1604.0	1443.6
26660.0	67.5°	21187.2	12228.7	2899.2	1742.9	1881.7	2046.9	2257.6	1924.8	1505.8	1343.1
26186.0	70°	20200.9	10773.2	2343.8	1505.8	1644.7	1836.2	2128.3	1821.9	1388.5	1232.9
23284.4	72.5°	17325.6	8431.8	1702.2	1228.1	1369.4	1618.4	1960.7	1697.4	1268.8	1134.8
17208.3	75°	12377.2	5336.3	1153.9	943.3	1065.3	1371.8	1752.4	1551.3	1158.7	1139.6
8618.5	77.5°	6322.6	2549.6	763.7	689.5	742.2	1082.1	1472.3	1386.1	1175.5	940.9
2451.5	80°	2056.5	940.9	481.2	469.2	493.2	720.6	1139.6	1137.2	890.6	639.2
593.7	82.5°	656.0	404.6	313.6	301.6	289.7	452.5	794.8	900.2	600.9	404.6
213.1	85°	260.9	241.8	184.3	170.0	122.1	213.1	416.6	598.5	447.7	292.1
55.1	87.5°	95.8	95.8	50.3	35.9	26.3	71.8	112.5	179.6	256.2	150.8
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>
6521.4
7026.5
7268.3
7220.4
6856.5
6265.2
5669.1
5223.8
4962.8
4859.9
4800.0
4740.2
4546.3
4103.4
3564.7
3064.4
2667.0
2396.4
2389.2
2367.7
2207.3
1927.2
1766.8
1699.8
1644.7
1525.0
1443.6
1350.2
1247.3
1127.6
1074.9
837.9
565.0
402.2
299.3
148.4
0.0

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