

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: P943809

Luminaire Tested: **GALN-SB8B-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31307 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

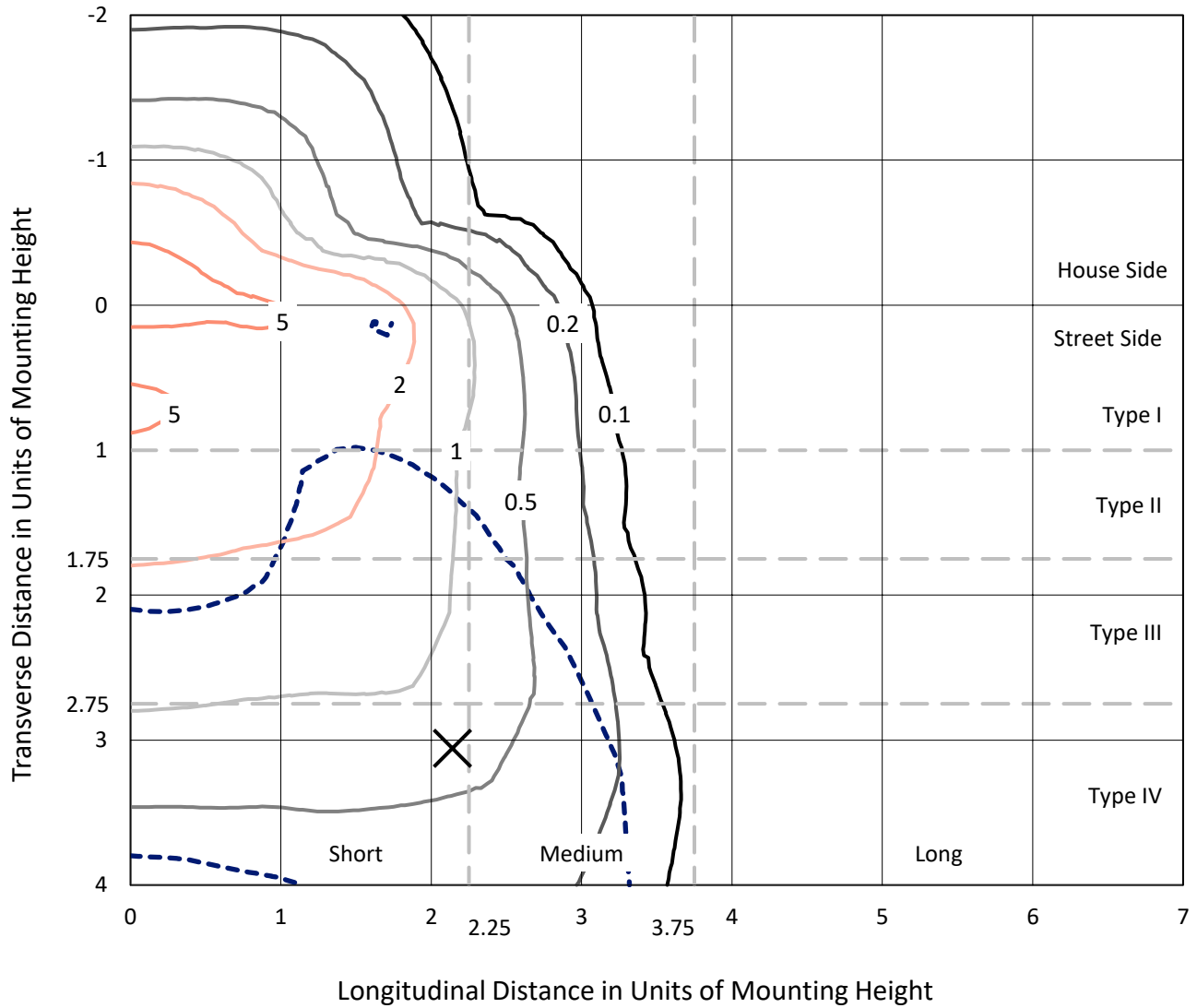
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

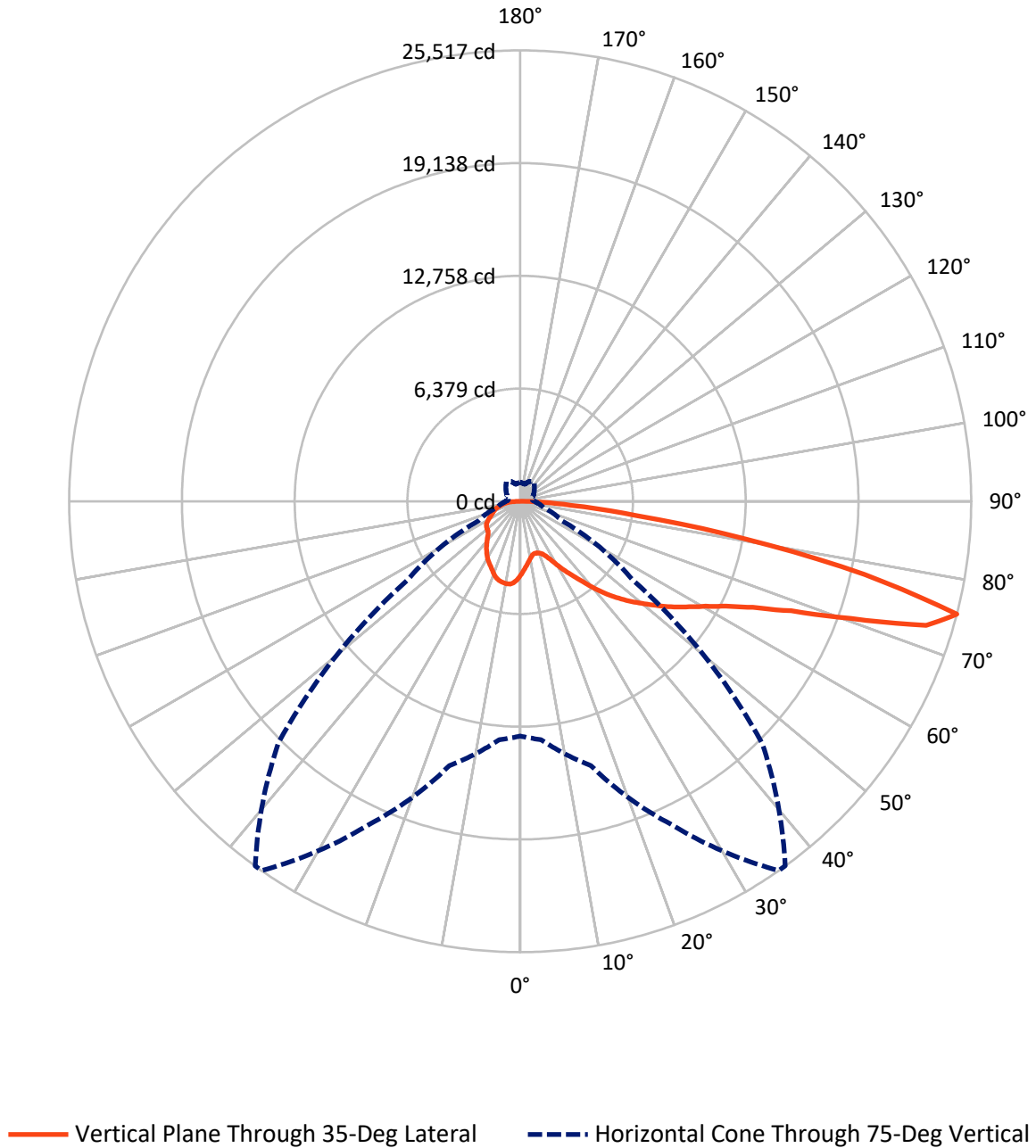
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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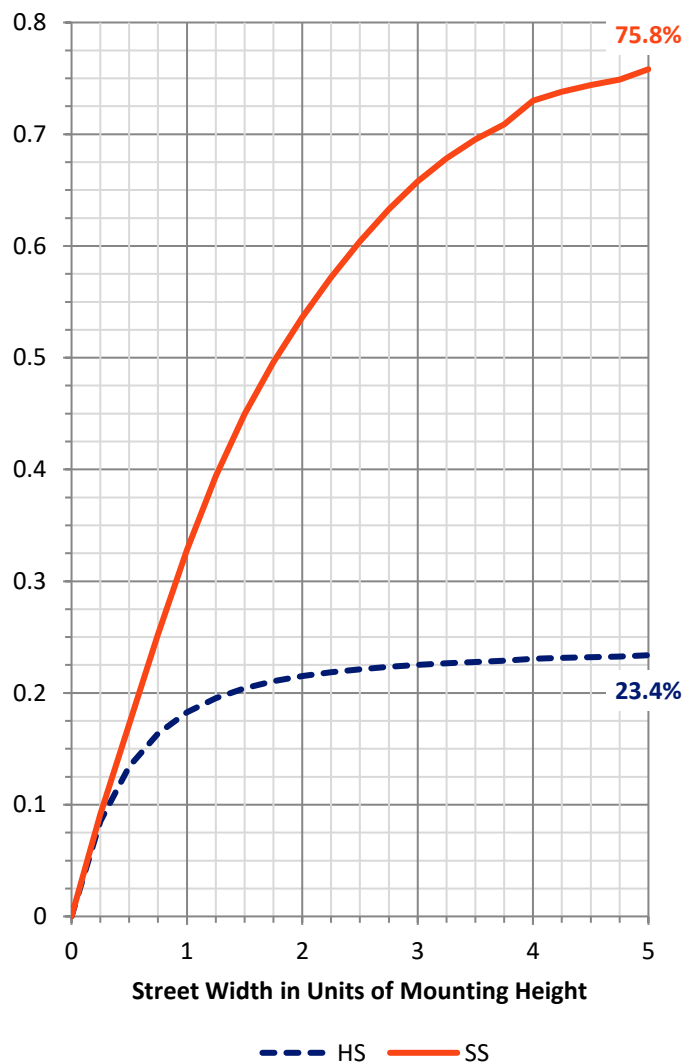
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7450.3	0.0	7450.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23856.7	0.0	23856.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	31307.0	0.0	31307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	1.3
10°-20°	1139.3	3.6
20°-30°	1913.2	6.1
30°-40°	2973.4	9.5
40°-50°	4413.4	14.1
50°-60°	6092.9	19.5
60°-70°	7392.1	23.6
70°-80°	6109.0	19.5
80°-90°	878.7	2.8
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°	31307.0	100.0
0°-180°	31307.0	100.0

Coefficient of Utilization



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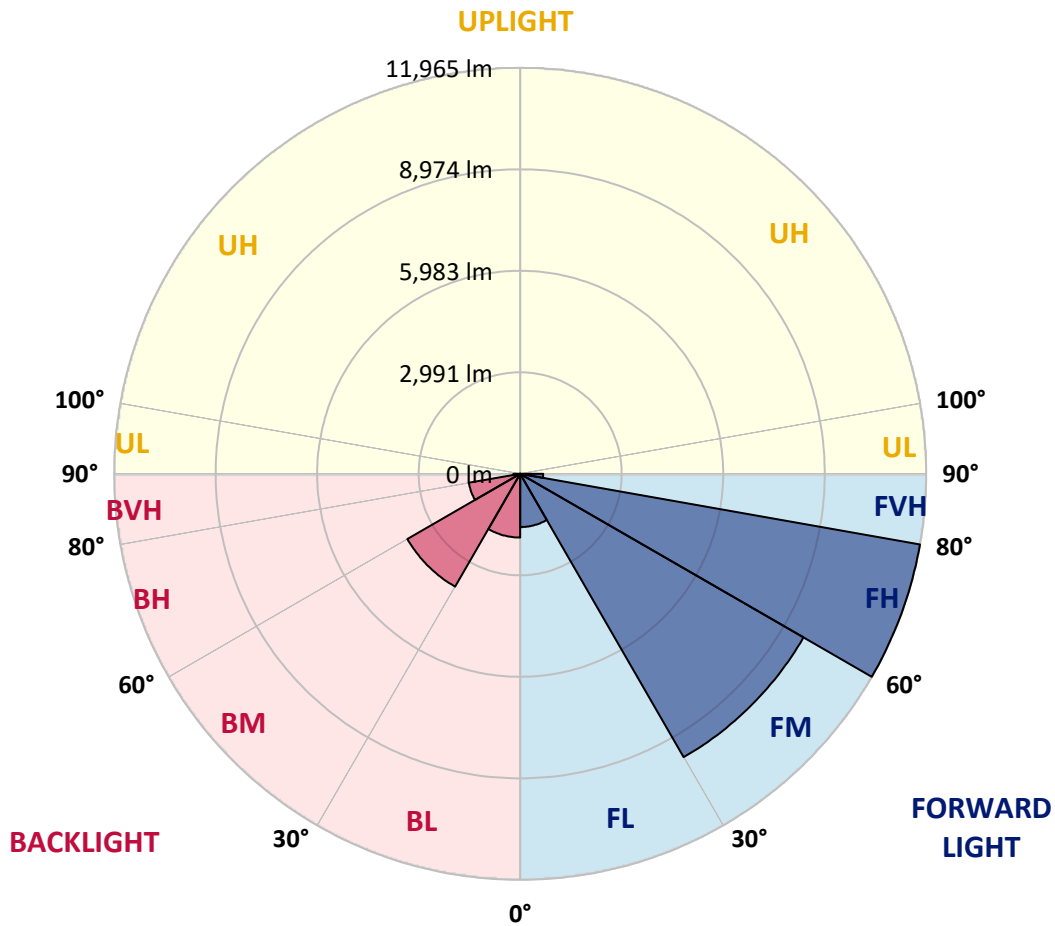
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.0	5.0			
FM (30°-60°)	9640.9	30.8			
FH (60°-80°)	11965.1	38.2			G4/12000
FVH (80°-90°)	680.8	2.2			G4/750
BL (0°-30°)	1877.6	6.0	B3/2500		
BM (30°-60°)	3838.8	12.3	B3/5000		
BH (60°-80°)	1536.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	197.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9
2.5°	3846.9	3870.6	3880.8	3875.7	3901.1	3897.7	3933.2	3977.2	4038.2	4097.4
5°	3550.7	3576.1	3598.1	3618.4	3667.5	3682.8	3738.6	3823.2	3934.9	4048.3
7.5°	3274.9	3296.9	3330.7	3368.0	3450.9	3466.1	3559.2	3691.2	3846.9	4012.8
10°	3049.8	3071.8	3107.3	3149.6	3252.9	3271.5	3390.0	3566.0	3769.1	3978.9
12.5°	2953.3	2960.1	2980.4	3022.7	3112.4	3124.2	3254.6	3456.0	3692.9	3953.5
15°	2948.2	2961.8	2963.5	2985.5	3059.9	3065.0	3185.2	3384.9	3645.5	3948.5
17.5°	2999.0	3009.2	2993.9	3007.5	3070.1	3078.6	3173.3	3351.0	3630.3	3970.5
20°	3134.4	3142.9	3097.2	3078.6	3124.2	3131.0	3224.1	3373.0	3645.5	4016.2
22.5°	3422.1	3427.2	3315.5	3239.3	3242.7	3246.1	3327.3	3462.7	3704.8	4099.1
25°	3870.6	3867.2	3689.5	3542.3	3457.7	3439.0	3493.2	3608.3	3804.6	4209.1
27.5°	4395.3	4369.9	4192.2	3972.2	3787.7	3760.6	3748.8	3797.8	3946.8	4354.7
30°	4987.6	4963.9	4772.7	4485.0	4229.4	4185.4	4073.7	4048.3	4158.3	4552.7
32.5°	5637.5	5622.3	5393.8	5045.2	4703.3	4652.5	4464.7	4397.0	4483.3	4852.2
35°	6182.5	6169.0	5979.4	5620.6	5202.6	5139.9	4948.7	4872.5	4916.5	5236.4
37.5°	6675.0	6668.2	6505.7	6223.1	5791.5	5715.4	5500.4	5475.0	5466.6	5742.5
40°	7132.0	7115.0	6945.8	6796.8	6477.0	6407.6	6218.0	6196.0	6131.7	6365.3
42.5°	7638.0	7594.0	7348.6	7279.2	7192.9	7135.3	7021.9	7025.3	6883.2	7067.6
45°	8050.9	8025.6	7773.4	7732.8	7825.9	7802.2	7900.3	7925.7	7649.8	7803.9
47.5°	8494.4	8470.7	8257.4	8228.7	8480.8	8487.6	8834.5	8843.0	8397.9	8568.8
50°	9041.0	9007.2	8795.6	8831.2	9113.8	9139.2	9773.9	9716.3	9086.7	9345.7
52.5°	9401.5	9421.8	9376.1	9433.7	9819.5	9843.2	10697.9	10550.7	9768.8	10112.3
55°	9667.2	9707.8	9850.0	9982.0	10564.2	10587.9	11569.5	11344.4	10334.1	10823.2
57.5°	10009.1	9951.6	10217.3	10474.5	11271.7	11334.3	12417.4	12109.4	10835.0	11435.8
60°	10499.9	10459.3	10665.8	11046.6	12063.7	12163.6	13314.4	12798.2	11202.3	11921.6
62.5°	11495.1	11393.5	11425.7	11762.5	13062.3	13194.3	14326.5	13399.1	11385.1	12111.1
65°	12982.7	12808.4	12645.9	12879.5	14468.7	14599.0	15468.9	13871.3	11317.4	11743.9
67.5°	14856.3	14683.6	14483.9	14703.9	16540.2	16643.5	16878.7	14137.0	10784.2	10329.0
70°	16401.5	16337.1	16575.8	17481.2	19849.0	19852.3	18686.3	13917.0	9323.7	7323.2
72.5°	16196.7	16157.7	17415.2	20214.5	24019.1	23929.4	20397.3	12251.6	6280.7	3303.6
75°	13287.4	13539.5	15487.5	20165.4	25516.9	25505.1	19349.7	7788.6	2597.9	1369.2
77.5°	7125.2	7524.6	10054.8	14888.4	19920.0	20219.6	13603.8	2724.8	1115.3	876.7
80°	2323.7	2672.4	4007.7	7580.4	12943.8	12887.9	5830.5	1069.6	763.3	621.1
82.5°	986.7	1027.3	1790.6	3579.5	6642.8	6539.6	1856.6	614.4	536.5	424.8
85°	385.9	431.6	790.4	1655.2	2877.2	2814.5	670.2	304.6	343.6	277.6
87.5°	126.9	154.0	282.6	567.0	895.3	863.1	164.2	104.9	148.9	126.9
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°
4171.9	0°	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9	4171.9
4183.7	2.5°	4207.4	4234.5	4266.6	4314.0	4354.7	4388.5	4424.0	4446.0	4454.5	4479.9
4190.5	5°	4237.9	4297.1	4376.7	4454.5	4530.7	4576.4	4617.0	4637.3	4655.9	4669.4
4209.1	7.5°	4288.6	4364.8	4490.0	4591.6	4655.9	4693.1	4720.2	4713.5	4720.2	4723.6
4229.4	10°	4332.7	4439.3	4588.2	4684.7	4733.8	4735.5	4728.7	4705.0	4693.1	4694.8
4259.9	12.5°	4385.1	4503.6	4664.4	4745.6	4759.1	4721.9	4693.1	4652.5	4637.3	4630.5
4305.6	15°	4456.2	4591.6	4747.3	4777.8	4743.9	4696.5	4647.4	4581.4	4547.6	4520.5
4383.4	17.5°	4542.5	4691.4	4811.6	4789.6	4716.8	4639.0	4559.4	4459.6	4390.2	4361.4
4490.0	20°	4662.7	4796.4	4860.7	4764.2	4654.2	4535.7	4400.3	4278.5	4214.2	4185.4
4625.4	22.5°	4808.2	4936.9	4908.1	4720.2	4564.5	4375.0	4205.7	4116.0	4083.9	4063.6
4799.8	25°	4982.5	5092.6	4941.9	4655.9	4417.3	4161.7	4031.4	4002.6	3987.4	3972.2
5013.0	27.5°	5209.3	5268.6	4967.3	4561.1	4187.1	3934.9	3887.5	3892.6	3887.5	3862.2
5309.2	30°	5508.9	5497.1	4991.0	4407.1	3923.1	3730.1	3733.5	3755.5	3758.9	3742.0
5722.1	32.5°	5903.2	5783.1	5002.9	4207.4	3670.9	3550.7	3554.1	3577.8	3594.7	3566.0
6262.0	35°	6380.5	6116.5	4984.2	3956.9	3476.3	3379.8	3354.4	3361.2	3366.3	3339.2
6917.0	37.5°	6937.3	6490.5	4901.3	3679.4	3315.5	3212.3	3158.1	3112.4	3085.3	3059.9
7658.3	40°	7548.3	6898.4	4749.0	3408.6	3136.1	3034.5	2953.3	2867.0	2775.6	2741.8
8443.6	42.5°	8188.0	7318.1	4564.5	3149.6	2929.6	2846.7	2760.4	2635.1	2498.0	2428.7
9259.4	45°	8851.5	7748.0	4383.4	2894.1	2718.1	2682.5	2582.7	2432.0	2283.1	2195.1
10076.8	47.5°	9501.4	8154.2	4117.7	2636.8	2520.0	2559.0	2481.1	2342.3	2176.5	2037.7
10887.5	50°	10122.5	8535.0	3682.8	2376.2	2359.3	2521.7	2447.3	2247.6	2058.0	1880.3
11682.9	52.5°	10738.5	8843.0	3125.9	2139.2	2272.9	2511.6	2403.3	2183.3	1951.4	1765.2
12431.0	55°	11261.5	9002.1	2589.4	1936.2	2147.7	2425.3	2350.8	2107.1	1800.8	1602.7
12943.8	57.5°	11559.4	8873.5	2142.6	1736.4	1975.1	2283.1	2261.1	1944.6	1621.4	1469.0
13043.7	60°	11430.8	8352.2	1777.1	1562.1	1810.9	2129.1	2105.4	1783.8	1484.3	1340.4
12508.8	62.5°	10721.6	7358.7	1487.7	1409.8	1662.0	1971.7	1949.7	1660.3	1379.3	1240.6
11088.9	65°	9293.2	5986.2	1262.6	1282.9	1511.4	1782.1	1814.3	1557.0	1296.4	1161.0
8579.0	67.5°	7087.9	4336.0	1086.5	1172.9	1364.1	1596.0	1689.1	1482.6	1227.0	1098.4
4963.9	70°	4039.9	2462.5	937.6	1066.2	1233.8	1423.3	1592.6	1423.3	1152.6	1045.9
1860.0	72.5°	1531.7	1130.6	810.7	959.6	1108.5	1277.8	1486.0	1330.3	1066.2	986.7
961.3	75°	817.4	688.8	682.1	834.4	964.7	1135.6	1352.3	1238.9	1001.9	1042.5
665.1	77.5°	556.8	487.4	570.4	714.2	807.3	978.2	1210.1	1100.1	868.2	864.8
460.3	80°	385.9	345.3	463.7	575.4	624.5	822.5	1056.1	944.4	707.4	660.1
284.3	82.5°	231.9	225.1	347.0	429.9	441.7	634.7	875.0	792.1	578.8	504.3
169.2	85°	126.9	133.7	221.7	252.2	257.3	443.4	685.4	612.7	445.1	374.0
60.9	87.5°	35.5	45.7	81.2	99.9	123.5	230.2	407.9	363.9	223.4	155.7
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>
4171.9
4478.2
4672.8
4728.7
4698.2
4627.1
4529.0
4363.1
4182.0
4066.9
3972.2
3867.2
3750.5
3579.5
3357.8
3076.9
2757.0
2437.1
2188.3
2022.5
1865.1
1744.9
1585.8
1448.7
1320.1
1218.6
1139.0
1078.1
1032.4
973.2
1076.4
797.1
631.3
507.7
377.4
155.7
0.0

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