

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: P941642

Luminaire Tested: **GALN-SB5B-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29831 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

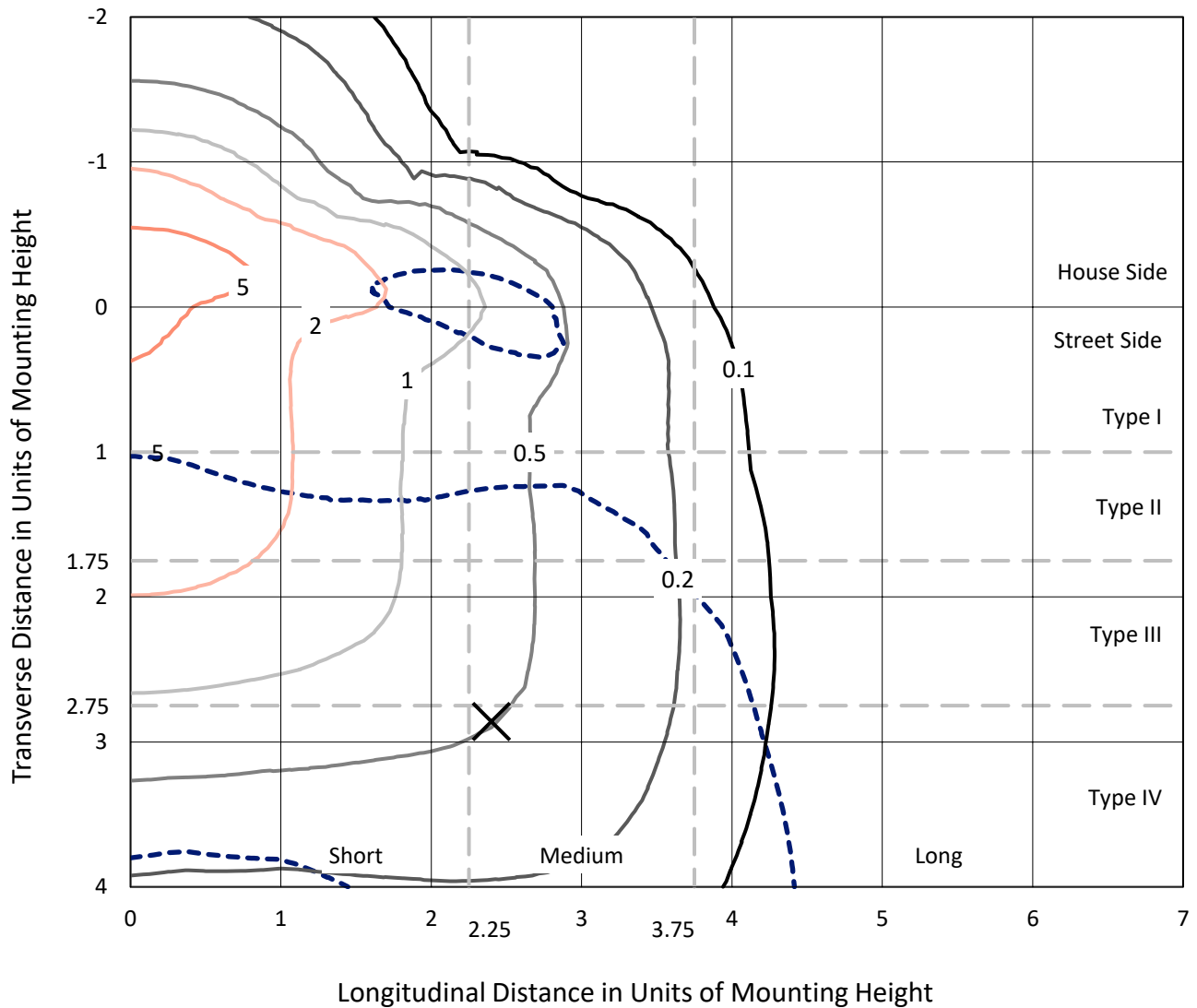
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

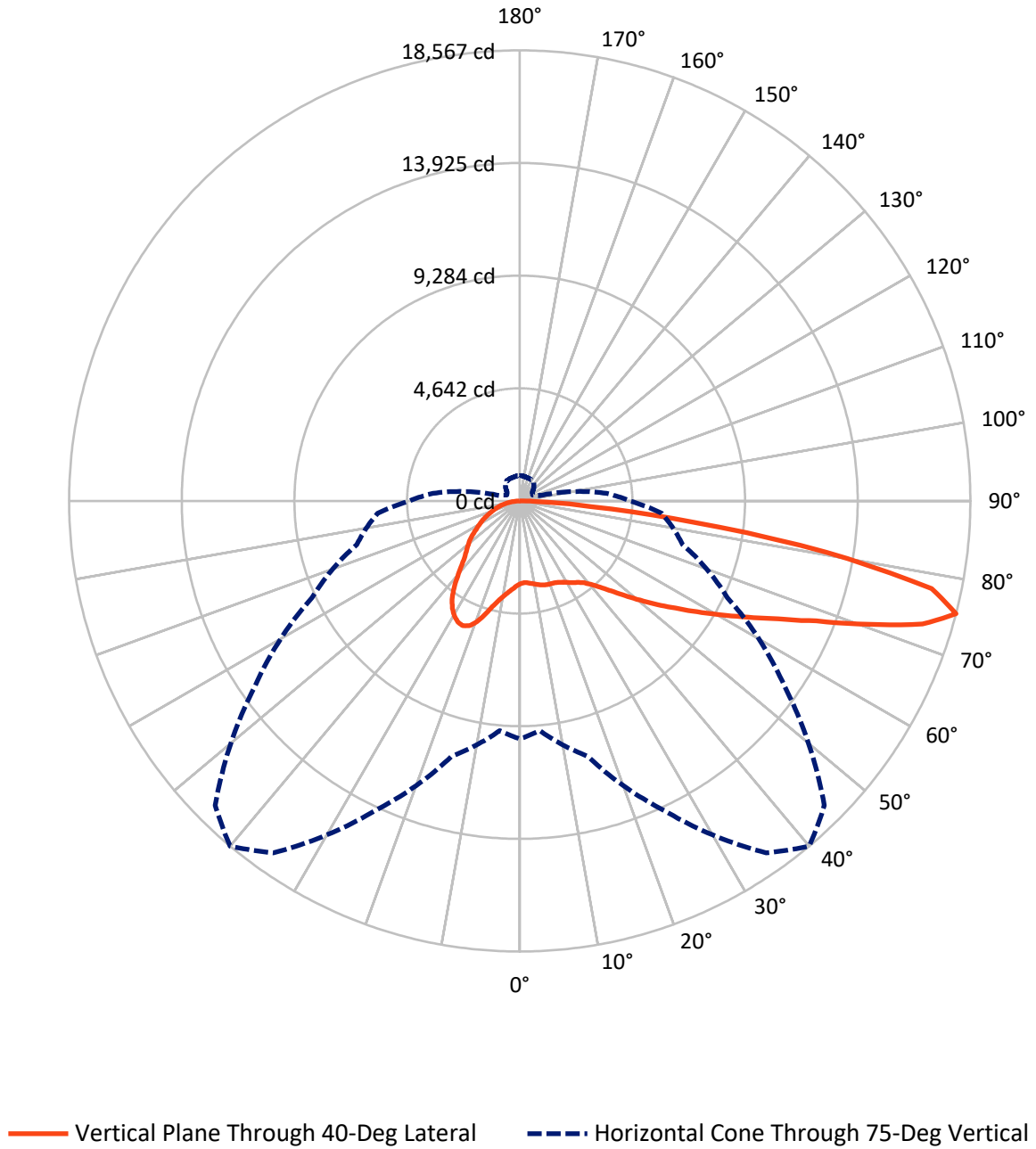
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9242.6	0.0	9242.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20588.4	0.0	20588.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	29831.0	0.0	29831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	1.1
10°-20°	1143.2	3.8
20°-30°	2087.4	7.0
30°-40°	2960.6	9.9
40°-50°	3997.7	13.4
50°-60°	5377.9	18.0
60°-70°	6825.8	22.9
70°-80°	6194.9	20.8
80°-90°	903.0	3.0
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°	29831.0	100.0
0°-180°	29831.0	100.0

Coefficient of Utilization

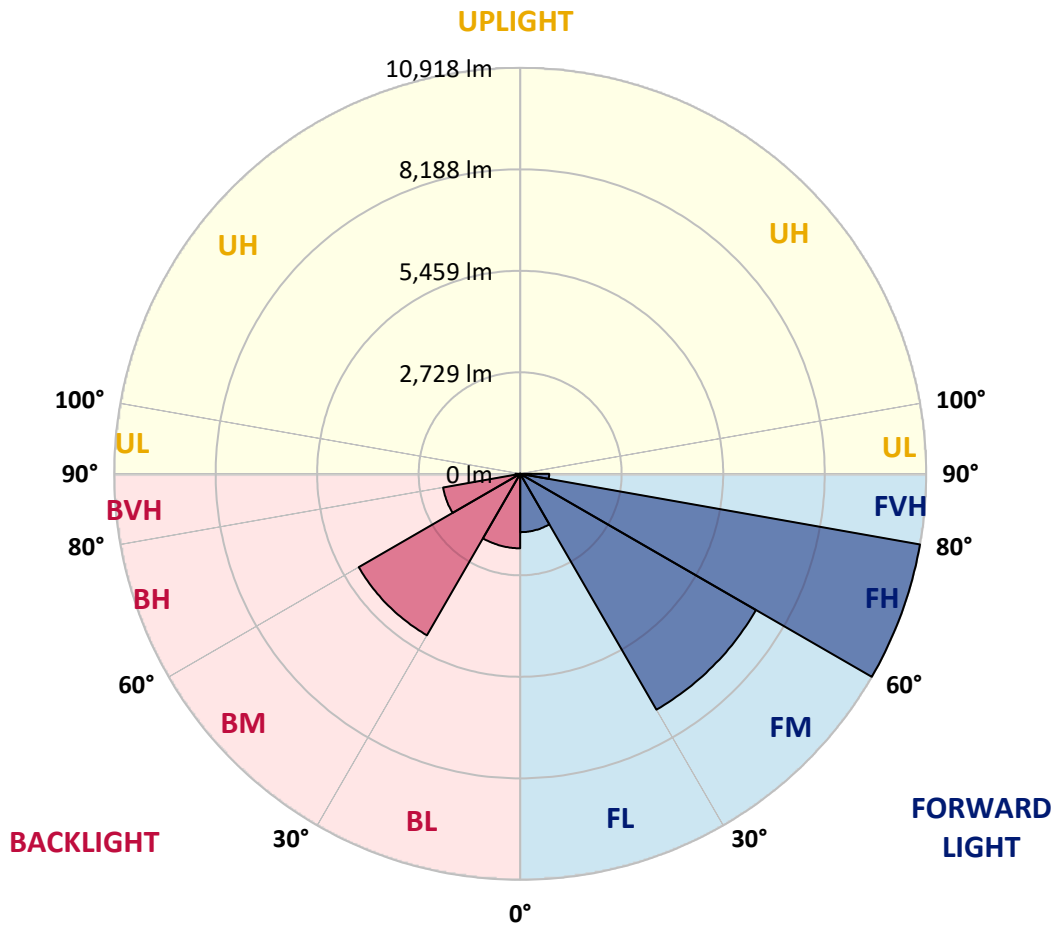


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.1	5.3			
FM (30°-60°)	7322.8	24.5			
FH (60°-80°)	10917.7	36.6			G4/12000
FVH (80°-90°)	778.7	2.6			G5
BL (0°-30°)	2002.0	6.7	B3/2500		
BM (30°-60°)	5013.3	16.8	B4/8500		
BH (60°-80°)	2103.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	124.3	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2
2.5°	3359.0	3378.0	3373.2	3366.9	3366.9	3368.5	3366.9	3378.0	3389.1	3400.1
5°	3393.8	3412.8	3403.3	3395.4	3389.1	3387.5	3382.7	3381.2	3387.5	3401.7
7.5°	3461.8	3480.8	3466.6	3452.4	3439.7	3433.4	3427.0	3417.5	3412.8	3420.7
10°	3537.8	3556.8	3539.4	3514.1	3493.5	3485.6	3479.2	3469.8	3463.4	3468.2
12.5°	3613.7	3632.7	3609.0	3574.2	3547.3	3542.5	3534.6	3531.5	3529.9	3528.3
15°	3684.9	3700.8	3670.7	3629.6	3601.1	3593.2	3585.3	3590.0	3597.9	3607.4
17.5°	3740.3	3756.1	3711.8	3658.0	3631.1	3628.0	3623.2	3639.1	3661.2	3684.9
20°	3790.9	3806.8	3749.8	3677.0	3645.4	3645.4	3647.0	3680.2	3711.8	3746.6
22.5°	3862.1	3874.8	3805.2	3705.5	3659.6	3662.8	3675.4	3708.7	3748.2	3795.7
25°	3968.1	3977.6	3892.2	3759.3	3707.1	3716.6	3727.7	3743.5	3781.4	3836.8
27.5°	4139.0	4146.9	4034.6	3854.2	3775.1	3790.9	3806.8	3795.7	3813.1	3860.6
30°	4379.5	4384.3	4241.9	4003.0	3890.6	3898.5	3901.7	3855.8	3822.6	3860.6
32.5°	4664.3	4662.7	4493.4	4183.3	4021.9	4014.0	3987.1	3896.9	3819.4	3852.6
35°	5105.7	5088.3	4870.0	4436.5	4170.7	4121.6	4058.3	3942.8	3835.2	3844.7
37.5°	5836.7	5782.9	5480.7	4851.0	4392.2	4267.2	4173.8	4017.2	3870.1	3841.6
40°	6661.0	6593.0	6260.7	5419.0	4724.4	4523.5	4373.2	4123.2	3927.0	3855.8
42.5°	7638.8	7542.3	7184.8	6088.3	5145.3	4854.2	4627.9	4257.7	4010.9	3901.7
45°	8839.7	8711.6	8205.3	6843.0	5675.3	5287.7	4985.5	4461.8	4139.0	3990.3
47.5°	10053.3	10084.9	9365.0	7706.9	6311.4	5822.5	5433.3	4768.7	4325.7	4132.7
50°	11342.8	11364.9	10518.4	8664.1	7032.9	6426.9	5936.4	5112.1	4585.2	4335.2
52.5°	12349.0	12352.2	11565.9	9665.6	7784.4	7091.4	6479.1	5504.5	4885.8	4604.2
55°	12978.8	12970.8	12300.0	10613.4	8648.3	7789.2	7080.3	5950.6	5252.9	4920.6
57.5°	13436.0	13412.3	12806.3	11428.2	9569.1	8613.5	7760.7	6456.9	5686.4	5297.2
60°	13610.1	13595.8	13149.6	12132.3	10537.4	9524.8	8545.4	7023.4	6178.5	5741.8
62.5°	13676.5	13703.4	13486.6	12814.2	11573.8	10534.3	9407.7	7700.5	6732.2	6244.9
65°	13910.7	13959.7	13915.4	13706.6	12744.6	11716.2	10551.7	8505.9	7336.6	6784.5
67.5°	14374.3	14423.3	14442.3	14774.5	14174.9	13189.2	11978.8	9509.0	8043.9	7344.6
70°	14363.2	14348.9	14684.4	15624.2	15965.9	15228.6	13902.8	10743.1	8887.2	7809.7
72.5°	13073.7	12959.8	13752.4	15614.7	17456.4	17358.3	16252.3	12334.8	9615.0	7866.7
75°	9808.0	9504.3	10904.5	14072.1	17704.8	18567.1	17745.9	13322.1	9442.5	6950.6
77.5°	4194.4	3889.0	5539.3	10417.2	15845.7	17356.7	16375.7	11622.8	7537.6	4596.3
80°	1098.0	1096.5	1674.0	4722.9	10776.3	12817.4	11244.7	7505.9	4306.7	1642.3
82.5°	454.1	443.0	615.5	1836.9	5265.5	7192.7	5869.9	3347.9	1555.3	444.6
85°	169.3	167.7	299.0	634.5	1857.5	2966.6	2147.0	856.0	387.6	216.8
87.5°	47.5	45.9	64.9	219.9	452.5	686.7	367.1	140.8	109.2	85.4
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°
3411.2	0°	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2	3411.2
3417.5	2.5°	3422.3	3430.2	3444.4	3455.5	3469.8	3485.6	3507.7	3522.0	3536.2	3545.7
3425.5	5°	3436.5	3453.9	3490.3	3526.7	3569.4	3609.0	3654.9	3688.1	3715.0	3722.9
3453.9	7.5°	3468.2	3496.7	3558.4	3620.1	3688.1	3753.0	3819.4	3876.4	3922.3	3939.7
3504.6	10°	3523.6	3561.5	3648.5	3735.6	3825.7	3925.4	4010.9	4093.1	4158.0	4184.9
3564.7	12.5°	3593.2	3640.6	3754.6	3874.8	3999.8	4137.4	4248.2	4349.5	4430.1	4466.5
3648.5	15°	3683.4	3745.1	3890.6	4052.0	4235.5	4427.0	4567.8	4680.1	4770.3	4814.6
3735.6	17.5°	3781.4	3863.7	4047.3	4290.9	4553.6	4805.1	4969.7	5052.0	5145.3	5188.0
3816.3	20°	3876.4	3977.6	4240.3	4594.7	4944.4	5211.8	5344.7	5366.8	5373.1	5377.9
3892.2	22.5°	3974.5	4110.5	4482.4	4977.6	5352.6	5537.7	5556.7	5461.7	5328.8	5267.1
3966.6	25°	4082.1	4262.4	4798.8	5400.0	5703.8	5726.0	5580.4	5349.4	5097.8	4982.3
4026.7	27.5°	4186.5	4438.1	5178.5	5803.5	5957.0	5762.4	5449.1	5121.6	4817.8	4696.0
4069.4	30°	4290.9	4639.0	5597.8	6156.3	6072.5	5672.2	5241.8	4876.3	4571.0	4442.8
4107.4	32.5°	4396.9	4873.2	6080.4	6411.1	6051.9	5480.7	4983.9	4601.0	4332.1	4197.6
4140.6	35°	4517.2	5161.1	6537.6	6550.3	5914.2	5199.1	4643.7	4271.9	4037.8	3930.2
4180.2	37.5°	4673.8	5526.6	6941.1	6585.1	5673.8	4786.1	4221.3	3882.7	3689.7	3640.6
4238.7	40°	4868.4	5966.5	7249.6	6529.7	5317.8	4284.6	3759.3	3488.7	3379.6	3390.6
4317.8	42.5°	5121.6	6458.5	7466.4	6387.3	4822.5	3767.2	3354.3	3234.0	3286.2	3330.5
4436.5	45°	5450.7	6969.6	7600.9	6145.2	4262.4	3328.9	3115.3	3143.8	3183.4	3188.1
4627.9	47.5°	5871.5	7487.0	7689.5	5779.8	3691.3	3020.4	2963.5	2969.8	2961.9	2928.6
4914.3	50°	6396.8	7990.1	7768.6	5295.6	3205.5	2827.4	2751.4	2729.3	2620.1	2512.5
5295.6	52.5°	6994.9	8452.1	7801.8	4694.4	2827.4	2666.0	2542.6	2403.4	2199.3	2166.0
5775.0	55°	7659.4	8879.3	7716.4	3955.5	2509.4	2458.7	2272.0	2104.3	2082.2	2053.7
6406.3	57.5°	8453.7	9339.7	7542.3	3131.2	2183.4	2216.7	2034.7	2053.7	2014.1	1969.8
7218.0	60°	9322.3	9815.9	7237.0	2379.6	1846.4	1914.5	1973.0	1971.4	1960.3	1924.0
8073.9	62.5°	10103.9	10129.2	6635.7	1822.7	1550.6	1680.3	1840.1	1838.5	1829.0	1808.5
8967.9	65°	10569.1	10081.8	5632.6	1435.1	1306.9	1487.3	1659.7	1672.4	1674.0	1672.4
9640.3	67.5°	10486.8	9526.4	4256.1	1142.3	1106.0	1291.1	1480.9	1498.3	1511.0	1514.2
9725.8	70°	9556.5	8306.5	2775.2	911.3	927.2	1118.6	1311.6	1329.0	1340.1	1352.8
8439.4	72.5°	7449.0	6107.3	1588.5	737.3	770.5	969.9	1143.9	1164.5	1170.8	1194.6
5873.1	75°	4539.3	3591.6	857.6	580.7	632.9	829.1	977.8	1001.5	1012.6	1041.1
2884.3	77.5°	2158.1	1555.3	488.9	452.5	509.5	677.2	825.9	852.8	822.7	838.6
795.8	80°	729.4	577.5	308.5	344.9	389.2	528.5	661.4	688.3	625.0	621.8
264.2	82.5°	254.7	234.2	196.2	229.4	251.6	378.1	500.0	534.8	465.2	463.6
118.7	85°	99.7	94.9	109.2	125.0	150.3	232.6	329.1	346.5	286.4	231.0
34.8	87.5°	20.6	22.2	26.9	28.5	45.9	80.7	118.7	145.6	115.5	98.1
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>
3411.2
3539.4
3726.1
3941.3
4186.5
4466.5
4811.5
5186.4
5390.5
5284.5
4999.7
4710.2
4457.0
4215.0
3953.9
3675.4
3428.6
3371.7
3219.8
2954.0
2526.8
2177.1
2058.4
1961.9
1911.3
1800.5
1672.4
1517.3
1359.1
1204.1
1044.2
825.9
615.5
441.4
227.8
90.2
0.0

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