

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: P942552

Luminaire Tested: **GALN-SB6C-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942552
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-SB6C-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43060 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

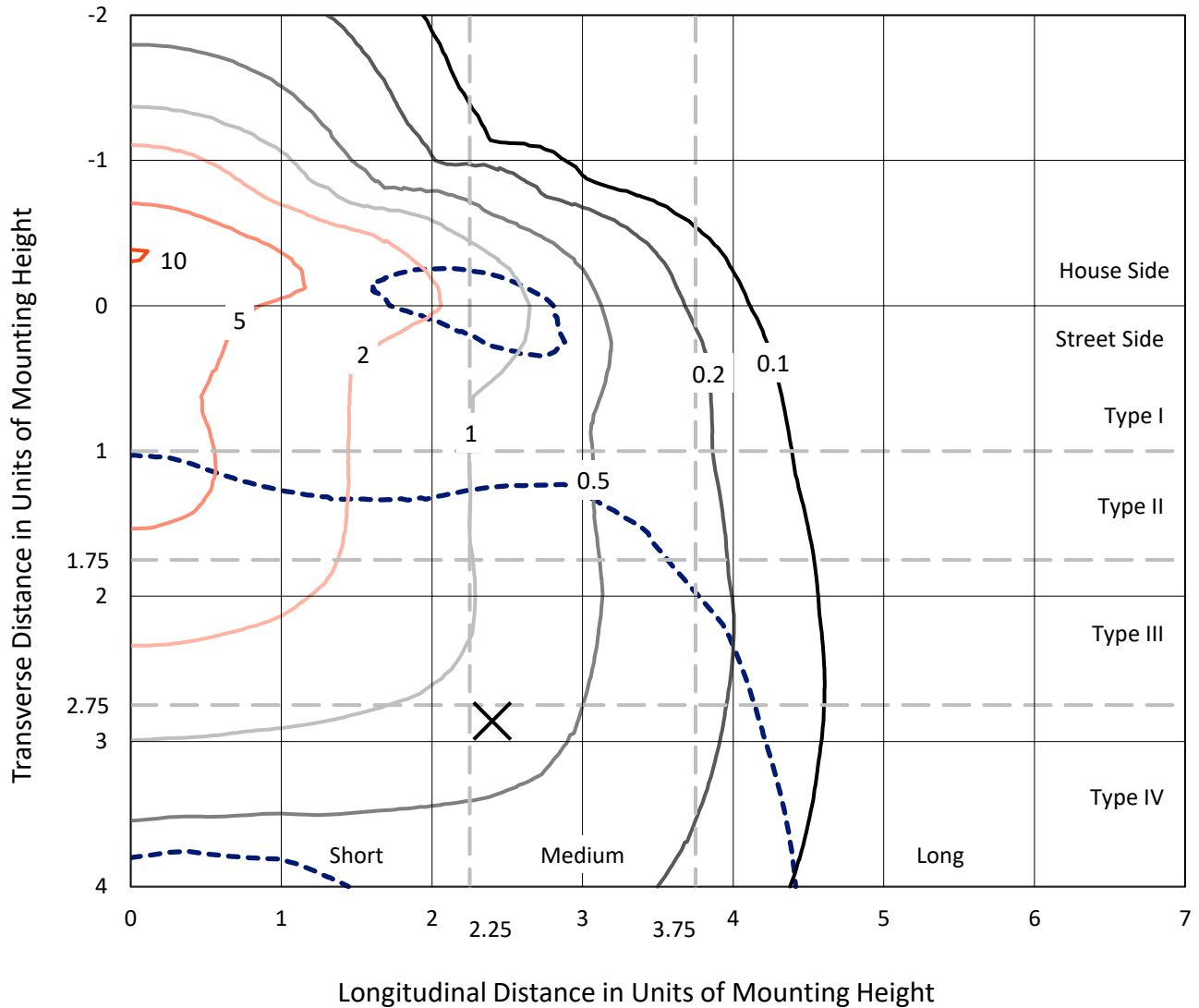
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

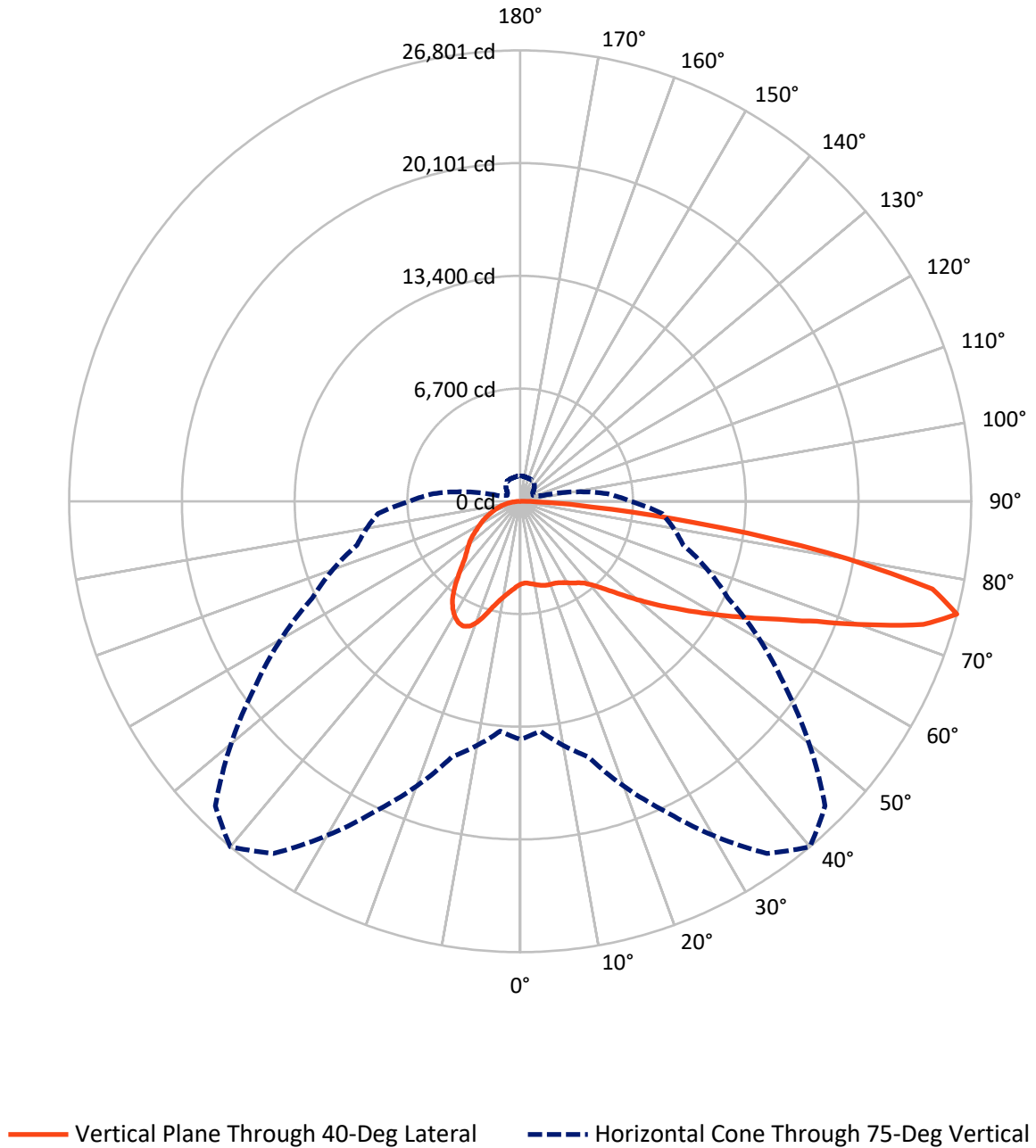
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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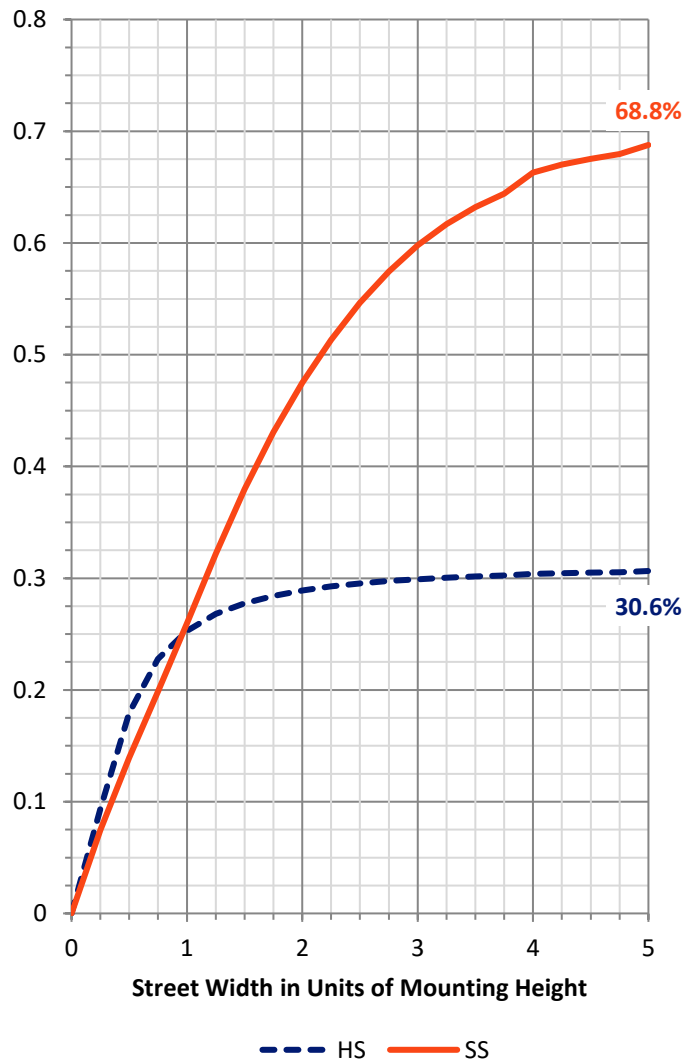
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13341.4	0.0	13341.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	29718.6	0.0	29718.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	43060.0	0.0	43060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.5	1.1
10°-20°	1650.2	3.8
20°-30°	3013.2	7.0
30°-40°	4273.5	9.9
40°-50°	5770.5	13.4
50°-60°	7762.8	18.0
60°-70°	9852.8	22.9
70°-80°	8942.0	20.8
80°-90°	1303.5	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°	43060.0	100.0
0°-180°	43060.0	100.0

Coefficient of Utilization



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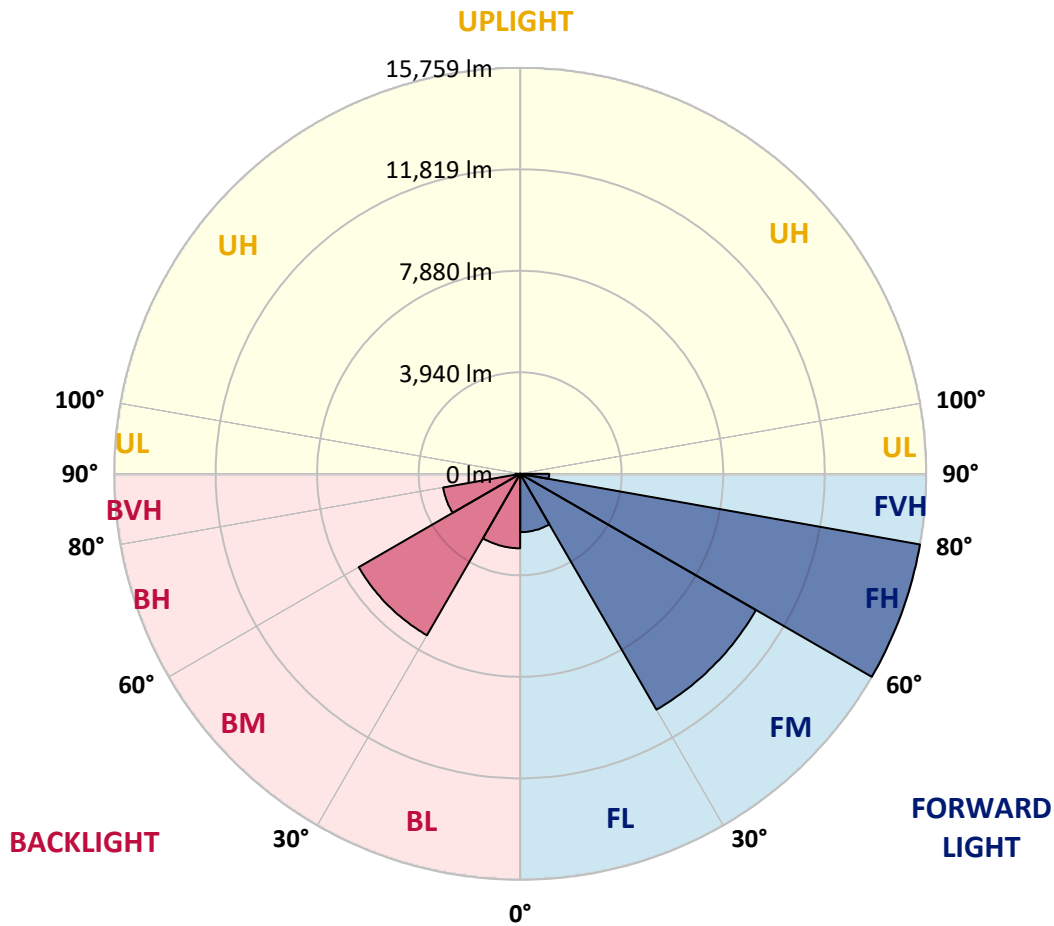
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2265.0	5.3			
FM (30°-60°)	10570.3	24.5			
FH (60°-80°)	15759.3	36.6			G5
FVH (80°-90°)	1124.0	2.6			G5
BL (0°-30°)	2889.9	6.7	B4/5000		
BM (30°-60°)	7236.5	16.8	B4/8500		
BH (60°-80°)	3035.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	179.5	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°	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0
2.5°	4848.6	4876.0	4869.2	4860.0	4860.0	4862.3	4860.0	4876.0	4892.0	4908.0
5°	4898.8	4926.3	4912.5	4901.1	4892.0	4889.7	4882.9	4880.6	4889.7	4910.3
7.5°	4997.1	5024.5	5003.9	4983.3	4965.1	4955.9	4946.8	4933.1	4926.3	4937.7
10°	5106.7	5134.1	5109.0	5072.4	5042.7	5031.3	5022.2	5008.5	4999.3	5006.2
12.5°	5216.3	5243.7	5209.4	5159.2	5120.4	5113.5	5102.1	5097.5	5095.3	5093.0
15°	5319.1	5341.9	5298.5	5239.1	5198.0	5186.6	5175.2	5182.0	5193.5	5207.2
17.5°	5399.0	5421.8	5357.9	5280.2	5241.4	5236.9	5230.0	5252.8	5284.8	5319.1
20°	5472.1	5494.9	5412.7	5307.7	5262.0	5262.0	5264.3	5312.2	5357.9	5408.1
22.5°	5574.9	5593.1	5492.6	5348.8	5282.5	5287.1	5305.4	5353.3	5410.4	5478.9
25°	5727.9	5741.6	5618.3	5426.4	5351.0	5364.8	5380.7	5403.6	5458.4	5538.3
27.5°	5974.5	5986.0	5823.8	5563.4	5449.3	5472.1	5494.9	5478.9	5504.1	5572.6
30°	6321.7	6328.5	6123.0	5778.1	5616.0	5627.4	5632.0	5565.7	5517.8	5572.6
32.5°	6732.8	6730.5	6486.1	6038.5	5805.5	5794.1	5755.3	5625.1	5513.2	5561.2
35°	7370.0	7344.8	7029.7	6403.9	6020.2	5949.4	5858.1	5691.3	5536.0	5549.7
37.5°	8425.1	8347.5	7911.2	7002.3	6340.0	6159.5	6024.8	5798.7	5586.3	5545.2
40°	9615.0	9516.8	9037.2	7822.2	6819.6	6529.5	6312.5	5951.7	5668.5	5565.7
42.5°	11026.4	10887.1	10370.9	8788.2	7427.1	7006.8	6680.2	6145.8	5789.5	5632.0
45°	12759.8	12574.8	11844.0	9877.6	8192.1	7632.6	7196.4	6440.4	5974.5	5759.9
47.5°	14511.5	14557.2	13518.1	11124.6	9110.3	8404.5	7842.7	6883.5	6244.0	5965.4
50°	16372.9	16404.9	15183.0	12506.3	10151.7	9277.0	8569.0	7379.1	6618.6	6257.7
52.5°	17825.4	17830.0	16694.9	13952.0	11236.5	10236.2	9352.3	7945.5	7052.5	6646.0
55°	18734.4	18723.0	17754.6	15320.0	12483.5	11243.4	10220.2	8589.5	7582.4	7102.8
57.5°	19394.4	19360.1	18485.4	16496.2	13812.7	12433.2	11202.3	9320.4	8208.1	7646.3
60°	19645.6	19625.1	18981.0	17512.5	15210.4	13748.7	12335.0	10138.0	8918.4	8288.1
62.5°	19741.6	19780.4	19467.5	18496.9	16706.3	15205.8	13579.7	11115.5	9717.8	9014.3
65°	20079.6	20150.4	20086.4	19784.9	18396.4	16911.9	15231.0	12277.9	10590.2	9793.1
67.5°	20748.7	20819.5	20846.9	21326.5	20461.0	19038.1	17291.0	13725.9	11611.1	10601.6
70°	20732.7	20712.2	21196.4	22553.0	23046.3	21982.0	20068.1	15507.3	12828.4	11273.1
72.5°	18871.4	18707.0	19851.2	22539.3	25197.7	25056.1	23459.6	17804.9	13878.9	11355.3
75°	14157.6	13719.1	15740.3	20312.5	25556.2	26800.9	25615.6	19230.0	13630.0	10032.9
77.5°	6054.5	5613.7	7995.7	15036.8	22872.7	25053.8	23637.8	16777.1	10880.2	6634.6
80°	1585.0	1582.7	2416.3	6817.3	15555.3	18501.4	16231.3	10834.6	6216.6	2370.6
82.5°	655.5	639.5	888.4	2651.5	7600.6	10382.4	8473.1	4832.6	2245.0	641.8
85°	244.4	242.1	431.6	915.8	2681.2	4282.2	3099.2	1235.6	559.5	312.9
87.5°	68.5	66.2	93.6	317.5	653.2	991.2	529.9	203.3	157.6	123.3
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°
4924.0	0°	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0	4924.0
4933.1	2.5°	4940.0	4951.4	4971.9	4987.9	5008.5	5031.3	5063.3	5083.8	5104.4	5118.1
4944.5	5°	4960.5	4985.6	5038.2	5090.7	5152.4	5209.4	5275.7	5323.6	5362.5	5373.9
4985.6	7.5°	5006.2	5047.3	5136.4	5225.4	5323.6	5417.3	5513.2	5595.4	5661.7	5686.8
5058.7	10°	5086.1	5140.9	5266.5	5392.2	5522.3	5666.2	5789.5	5908.3	6001.9	6040.8
5145.5	12.5°	5186.6	5255.1	5419.6	5593.1	5773.6	5972.3	6132.1	6278.3	6394.8	6447.3
5266.5	15°	5316.8	5405.9	5616.0	5848.9	6113.9	6390.2	6593.5	6755.6	6885.8	6949.7
5392.2	17.5°	5458.4	5577.1	5842.1	6193.8	6572.9	6936.0	7173.6	7292.3	7427.1	7488.7
5508.6	20°	5595.4	5741.6	6120.7	6632.3	7137.0	7523.0	7714.8	7746.8	7755.9	7762.8
5618.3	22.5°	5737.0	5933.4	6470.1	7185.0	7726.2	7993.5	8020.9	7883.8	7692.0	7602.9
5725.6	25°	5892.3	6152.7	6926.9	7794.8	8233.3	8265.2	8055.1	7721.7	7358.5	7191.8
5812.4	27.5°	6043.1	6406.2	7475.0	8377.1	8598.7	8317.8	7865.6	7392.8	6954.3	6778.4
5874.0	30°	6193.8	6696.2	8080.2	8886.4	8765.4	8187.6	7566.4	7038.8	6598.0	6413.0
5928.9	32.5°	6346.8	7034.2	8776.8	9254.1	8735.7	7911.2	7194.1	6641.4	6253.2	6059.0
5976.8	35°	6520.4	7449.9	9436.8	9455.1	8537.0	7504.7	6703.1	6166.4	5828.4	5673.1
6033.9	37.5°	6746.5	7977.5	10019.2	9505.4	8189.9	6908.6	6093.3	5604.6	5325.9	5255.1
6118.4	40°	7027.4	8612.4	10464.6	9425.4	7676.0	6184.7	5426.4	5035.9	4878.3	4894.3
6232.6	42.5°	7392.8	9322.7	10777.5	9219.9	6961.2	5437.8	4841.7	4668.2	4743.5	4807.5
6403.9	45°	7867.8	10060.3	10971.6	8870.5	6152.7	4805.2	4496.9	4538.0	4595.1	4601.9
6680.2	47.5°	8475.3	10807.2	11099.5	8342.9	5328.2	4359.9	4277.6	4286.8	4275.4	4227.4
7093.6	50°	9233.6	11533.4	11213.7	7644.0	4627.1	4081.2	3971.6	3939.6	3782.0	3626.7
7644.0	52.5°	10096.9	12200.3	11261.6	6776.2	4081.2	3848.3	3670.1	3469.2	3174.5	3126.6
8336.0	55°	11056.1	12816.9	11138.3	5709.6	3622.2	3549.1	3279.6	3037.5	3005.5	2964.4
9247.3	57.5°	12202.6	13481.5	10887.1	4519.7	3151.7	3199.7	2937.0	2964.4	2907.3	2843.4
10418.9	60°	13456.4	14169.0	10446.3	3434.9	2665.2	2763.5	2848.0	2845.7	2829.7	2777.2
11654.5	62.5°	14584.6	14621.2	9578.4	2631.0	2238.2	2425.4	2656.1	2653.8	2640.1	2610.4
12944.8	65°	15256.1	14552.7	8130.5	2071.4	1886.5	2146.8	2395.8	2414.0	2416.3	2414.0
13915.5	67.5°	15137.3	13751.0	6143.5	1648.9	1596.4	1863.6	2137.7	2162.8	2181.1	2185.6
14038.8	70°	13794.4	11990.2	4005.9	1315.5	1338.3	1614.7	1893.3	1918.4	1934.4	1952.7
12182.0	72.5°	10752.3	8815.6	2293.0	1064.3	1112.2	1400.0	1651.2	1680.9	1690.0	1724.3
8477.6	75°	6552.3	5184.3	1237.8	838.2	913.5	1196.7	1411.4	1445.7	1461.7	1502.8
4163.4	77.5°	3115.2	2245.0	705.7	653.2	735.4	977.5	1192.2	1231.0	1187.6	1210.4
1148.8	80°	1052.9	833.6	445.3	497.9	561.8	762.8	954.6	993.5	902.1	897.6
381.4	82.5°	367.7	338.0	283.2	331.2	363.1	545.8	721.7	771.9	671.5	669.2
171.3	85°	143.9	137.0	157.6	180.4	217.0	335.7	475.0	500.2	413.4	333.4
50.2	87.5°	29.7	32.0	38.8	41.1	66.2	116.5	171.3	210.1	166.7	141.6
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>
4924.0
5109.0
5378.5
5689.1
6043.1
6447.3
6945.2
7486.4
7781.1
7628.0
7216.9
6799.0
6433.6
6084.2
5707.3
5305.4
4949.1
4866.9
4647.6
4263.9
3647.3
3142.6
2971.3
2832.0
2758.9
2599.0
2414.0
2190.2
1961.8
1738.0
1507.3
1192.2
888.4
637.2
328.9
130.2
0.0

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