

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: P955266

Luminaire Tested: **GALN-SB8B-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
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-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

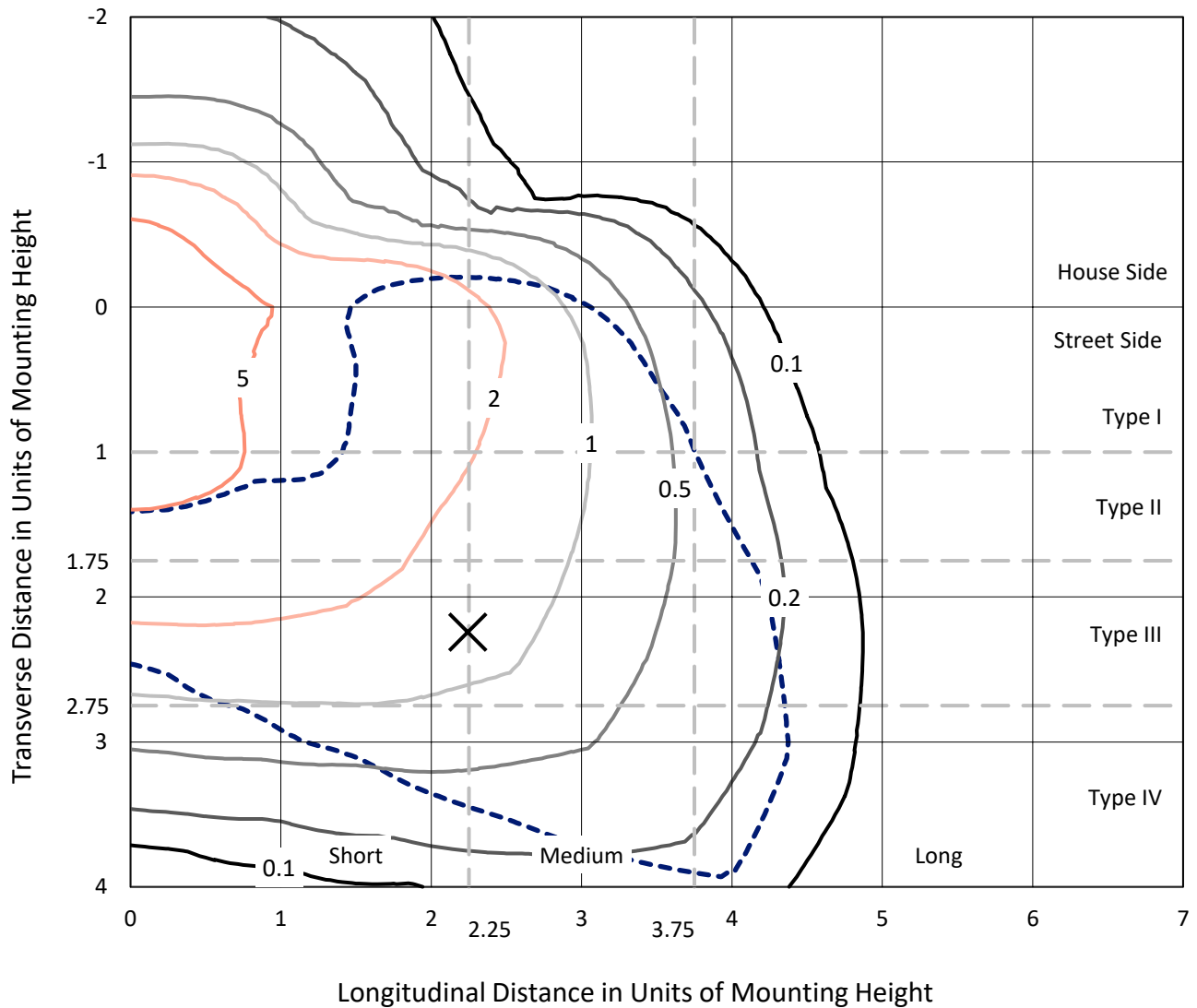
Lumens per Lamp: N/A  
Luminaire Lumens: 45445 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

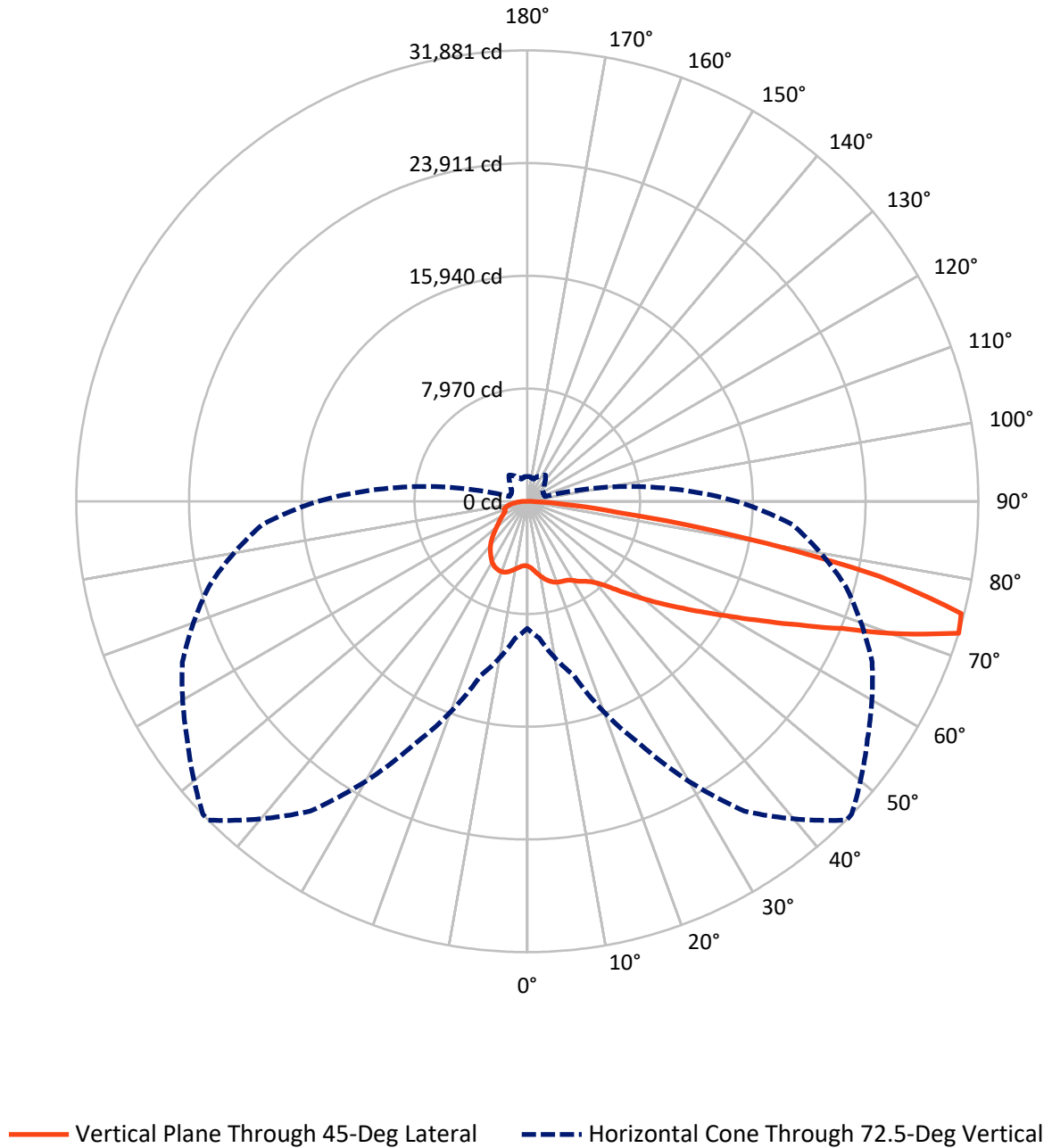
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10273.6	0.0	10273.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	35171.5	0.0	35171.5
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	45445.0	0.0	45445.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.6	1.0
10°-20°	1555.7	3.4
20°-30°	2706.3	6.0
30°-40°	3879.6	8.5
40°-50°	5462.8	12.0
50°-60°	8367.4	18.4
60°-70°	12121.4	26.7
70°-80°	9679.6	21.3
80°-90°	1205.6	2.7
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°	45445.0	100.0
0°-180°	45445.0	100.0

**Coefficient of Utilization**



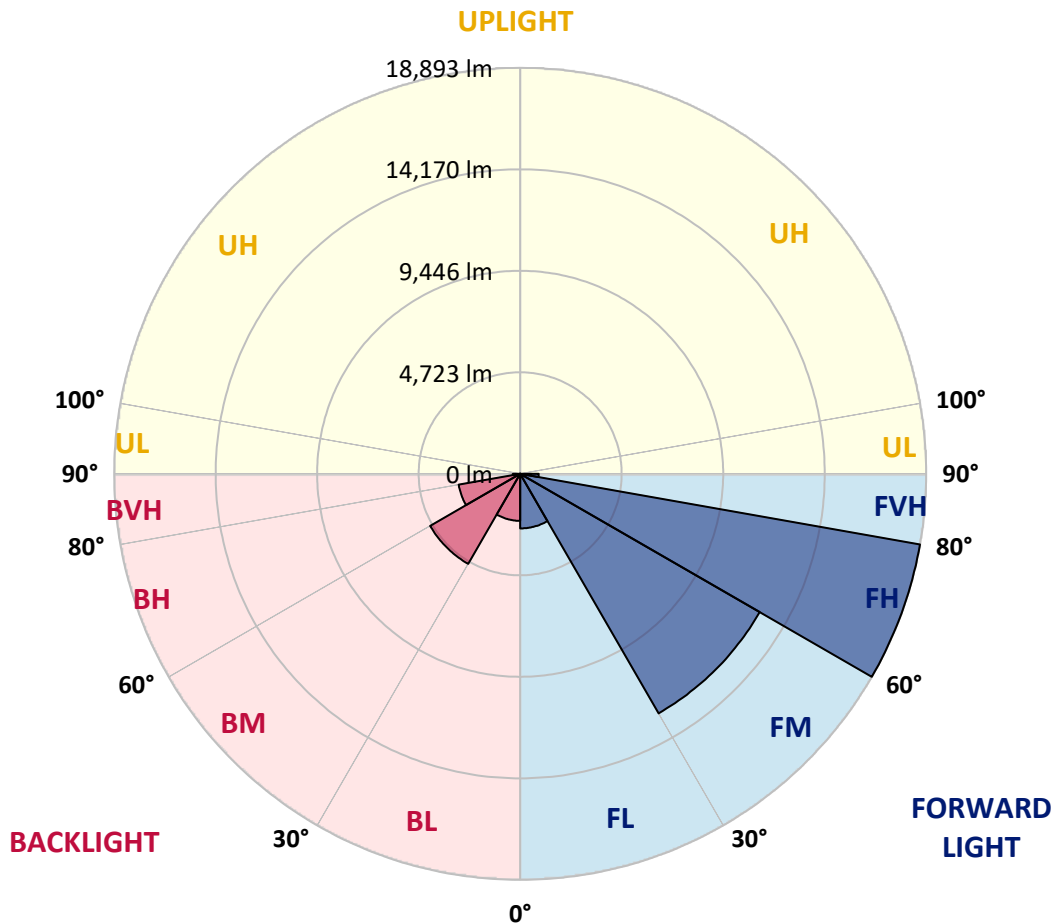
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.4	5.6			
FM (30°-60°)	12872.4	28.3			
FH (60°-80°)	18892.8	41.6			G5
FVH (80°-90°)	864.9	1.9			G5
BL (0°-30°)	2187.3	4.8	B3/2500		
BM (30°-60°)	4837.4	10.6	B3/5000		
BH (60°-80°)	2908.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	340.7	0.7			G3/500
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5
2.5°	4764.1	4795.2	4766.5	4740.1	4728.2	4697.0	4694.6	4675.5	4663.5	4630.0
5°	5096.8	5137.5	5089.7	5037.0	4989.1	4912.5	4902.9	4847.9	4785.6	4713.8
7.5°	5472.7	5508.6	5453.5	5374.5	5290.7	5163.9	5161.5	5060.9	4962.8	4840.7
10°	5800.7	5848.5	5774.3	5666.6	5561.3	5417.6	5400.9	5286.0	5161.5	5003.5
12.5°	6090.3	6123.9	6052.0	5920.4	5798.3	5654.6	5633.1	5506.2	5367.4	5187.8
15°	6320.2	6363.3	6267.5	6126.3	5997.0	5855.7	5836.6	5721.7	5582.8	5393.7
17.5°	6471.0	6506.9	6408.7	6250.7	6126.3	6008.9	5994.6	5898.8	5776.7	5585.2
20°	6528.4	6566.8	6463.8	6303.4	6188.5	6097.5	6090.3	6020.9	5937.1	5762.4
22.5°	6585.9	6621.8	6487.7	6320.2	6219.6	6162.2	6159.8	6114.3	6080.8	5937.1
25°	6818.1	6827.7	6648.1	6406.4	6262.7	6212.4	6210.0	6207.7	6222.0	6109.5
27.5°	7019.2	7016.8	6863.6	6636.2	6413.5	6308.2	6305.8	6329.7	6375.2	6281.9
30°	7313.7	7287.3	7105.4	6868.4	6664.9	6502.1	6487.7	6466.2	6502.1	6427.9
32.5°	7938.5	7854.7	7560.3	7138.9	6873.2	6748.7	6729.5	6595.5	6609.8	6564.4
35°	8833.9	8723.7	8331.1	7651.2	7131.7	6954.6	6945.0	6775.0	6746.3	6705.6
37.5°	9899.2	9762.7	9305.5	8393.4	7577.0	7194.0	7179.6	7026.4	6909.1	6866.0
40°	10969.3	10797.0	10418.7	9298.3	8233.0	7593.8	7548.3	7316.1	7182.0	7110.2
42.5°	12008.3	11864.7	11541.5	10313.4	9042.1	8177.9	8077.4	7680.0	7579.4	7512.4
45°	12927.6	12798.3	12561.3	11397.8	9990.2	8972.7	8874.6	8225.8	8194.7	8194.7
47.5°	13674.5	13645.8	13394.4	12503.9	11108.2	9877.7	9707.7	8984.7	9068.5	9197.8
50°	14502.9	14423.9	14155.7	13593.1	12422.5	10914.3	10775.4	9916.0	10229.6	10583.9
52.5°	15264.2	15307.3	15008.0	14727.9	13906.8	12070.6	11826.4	11014.8	11692.3	12278.8
55°	16047.0	16049.4	15965.6	15927.3	15462.9	13349.0	13080.8	12336.3	13413.6	14141.4
57.5°	16782.0	16786.7	16911.2	17248.8	17267.9	14823.7	14519.6	13959.4	15326.4	16068.5
60°	17437.9	17471.4	17811.4	18601.4	18855.2	16513.8	16226.6	15877.0	17303.9	18050.8
62.5°	17658.2	17780.3	18536.8	19659.6	20423.2	18587.0	18304.5	18096.3	19381.8	20076.1
65°	17284.7	17564.8	19027.5	20533.4	22036.8	21050.5	20770.4	20542.9	21541.2	22194.8
67.5°	16367.8	16729.3	18998.8	21450.3	23995.1	24014.2	23753.3	23219.4	23856.2	24107.6
70°	13952.3	14493.3	17325.4	21792.6	26243.1	28067.3	27815.9	26441.8	26166.5	24950.3
72.5°	8989.5	9717.3	12757.6	18974.9	26743.4	31880.9	31866.6	29350.5	26896.6	23312.8
75°	3279.8	3725.1	5927.6	11910.2	22448.6	31687.0	31780.4	28852.5	24552.9	18007.7
77.5°	1194.6	1307.1	1934.4	4577.3	13806.2	25424.3	25618.2	23066.2	17476.2	9037.4
80°	627.2	689.5	991.1	1776.4	5915.6	15099.0	15403.0	13708.1	8213.8	2722.0
82.5°	347.1	375.9	555.4	964.8	2664.5	6456.6	6638.6	5415.2	2889.6	1153.9
85°	186.7	198.7	260.9	526.7	1302.3	2238.4	2288.7	1618.3	1151.5	677.5
87.5°	55.1	67.0	86.2	167.6	509.9	502.7	514.7	320.8	454.9	342.3
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°
4584.5	0°	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5	4584.5
4620.4	2.5°	4606.1	4598.9	4572.5	4560.6	4546.2	4543.8	4555.8	4558.2	4560.6	4563.0
4673.1	5°	4649.2	4625.2	4601.3	4586.9	4591.7	4594.1	4618.0	4634.8	4646.8	4656.3
4771.2	7.5°	4732.9	4713.8	4673.1	4670.7	4677.9	4699.4	4730.6	4768.9	4790.4	4807.2
4898.1	10°	4857.4	4821.5	4773.6	4780.8	4795.2	4826.3	4890.9	4922.1	4958.0	4989.1
5053.7	12.5°	4984.3	4953.2	4898.1	4902.9	4926.9	4981.9	5044.2	5082.5	5106.4	5130.3
5221.3	15°	5149.5	5094.4	5034.6	5034.6	5077.7	5137.5	5166.3	5197.4	5211.7	5238.1
5400.9	17.5°	5319.5	5247.7	5168.7	5163.9	5216.5	5245.3	5262.0	5266.8	5271.6	5300.3
5575.6	20°	5489.4	5410.4	5297.9	5288.4	5300.3	5295.5	5293.1	5288.4	5295.5	5331.4
5755.2	22.5°	5657.0	5566.1	5410.4	5367.4	5333.8	5288.4	5286.0	5283.6	5288.4	5324.3
5949.1	25°	5853.3	5743.2	5534.9	5405.7	5293.1	5230.9	5238.1	5240.5	5245.3	5274.0
6150.2	27.5°	6066.4	5944.3	5649.8	5393.7	5190.2	5147.1	5135.1	5142.3	5159.1	5204.6
6351.3	30°	6279.5	6135.8	5755.2	5345.8	5060.9	5001.1	4962.8	4979.5	5032.2	5077.7
6526.1	32.5°	6473.4	6329.7	5839.0	5240.5	4895.7	4802.4	4752.1	4773.6	4826.3	4843.1
6720.0	35°	6700.8	6538.0	5874.9	5072.9	4716.2	4572.5	4505.5	4474.4	4500.7	4484.0
6947.4	37.5°	6954.6	6784.6	5870.1	4852.6	4505.5	4340.3	4247.0	4129.7	4074.6	4017.1
7282.6	40°	7330.4	7086.2	5812.6	4586.9	4244.6	4093.7	3926.2	3727.5	3603.0	3490.5
7823.6	42.5°	7842.8	7505.2	5707.3	4294.8	3950.1	3808.9	3581.4	3349.2	3152.9	2966.2
8644.7	45°	8606.4	8053.4	5575.6	3983.6	3631.7	3492.9	3246.3	2985.3	2762.7	2523.3
9810.6	47.5°	9707.7	8790.8	5451.1	3629.3	3296.5	3169.7	2947.0	2705.2	2441.9	2209.7
11496.0	50°	11220.7	9848.9	5336.2	3284.6	2966.2	2870.4	2693.3	2446.7	2180.9	1994.2
13471.1	52.5°	13145.5	11287.7	5288.4	2951.8	2657.3	2621.4	2480.2	2250.4	1999.0	1841.0
15774.1	55°	15355.1	13009.0	5288.4	2633.4	2386.8	2398.8	2300.6	2087.6	1869.7	1728.5
18148.9	57.5°	17610.3	14751.8	5192.6	2338.9	2157.0	2207.3	2145.0	1958.3	1762.0	1616.0
20645.9	60°	19688.3	16212.2	4804.8	2070.8	1953.5	2032.5	1991.8	1831.4	1592.0	1469.9
22733.5	62.5°	21285.1	17035.7	4057.8	1857.7	1785.9	1876.9	1855.4	1663.8	1560.9	1510.6
24447.6	65°	22084.7	16901.7	3102.6	1668.6	1644.7	1785.9	1740.4	1733.3	1651.9	1594.4
25005.4	67.5°	21593.9	15747.8	2250.4	1529.8	1563.3	1702.1	1876.9	1905.6	1754.8	1642.3
23434.9	70°	19441.7	13660.2	1675.8	1398.1	1460.3	1704.5	2140.2	1994.2	1721.3	1589.6
18795.3	72.5°	14790.2	10186.5	1299.9	1259.2	1326.3	1716.5	2257.5	1953.5	1625.5	1757.2
11709.1	75°	8458.0	5592.4	1043.8	1089.3	1158.7	1604.0	2197.7	1848.2	1551.3	1613.6
4639.6	77.5°	3224.7	2149.8	861.8	921.7	931.3	1400.5	2101.9	1841.0	1477.1	1441.2
1390.9	80°	1118.0	840.3	713.4	732.6	720.6	1244.9	2015.8	1601.6	1209.0	1082.1
574.6	82.5°	457.3	419.0	565.0	541.0	512.3	967.2	1627.9	1309.5	988.7	873.8
277.7	85°	198.7	265.7	373.5	328.0	296.9	670.3	1304.7	1108.4	835.5	720.6
91.0	87.5°	40.7	100.5	158.0	148.4	153.2	447.7	926.5	787.6	591.3	442.9
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>
4584.5
4572.5
4661.1
4811.9
4981.9
5139.9
5247.7
5309.9
5345.8
5348.2
5312.3
5250.0
5128.0
4902.9
4536.6
4053.0
3497.6
2949.4
2494.6
2183.3
1982.2
1829.0
1714.1
1592.0
1450.8
1493.9
1575.3
1623.1
1568.1
<i>1742.8</i>
1613.6
1314.3
1046.2
864.2
718.2
347.1
0.0

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