

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: P944355

Luminaire Tested: **GALN-SB9B-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9B-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50820 lumens  
Efficiency: N/A  
Efficacy: 154.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

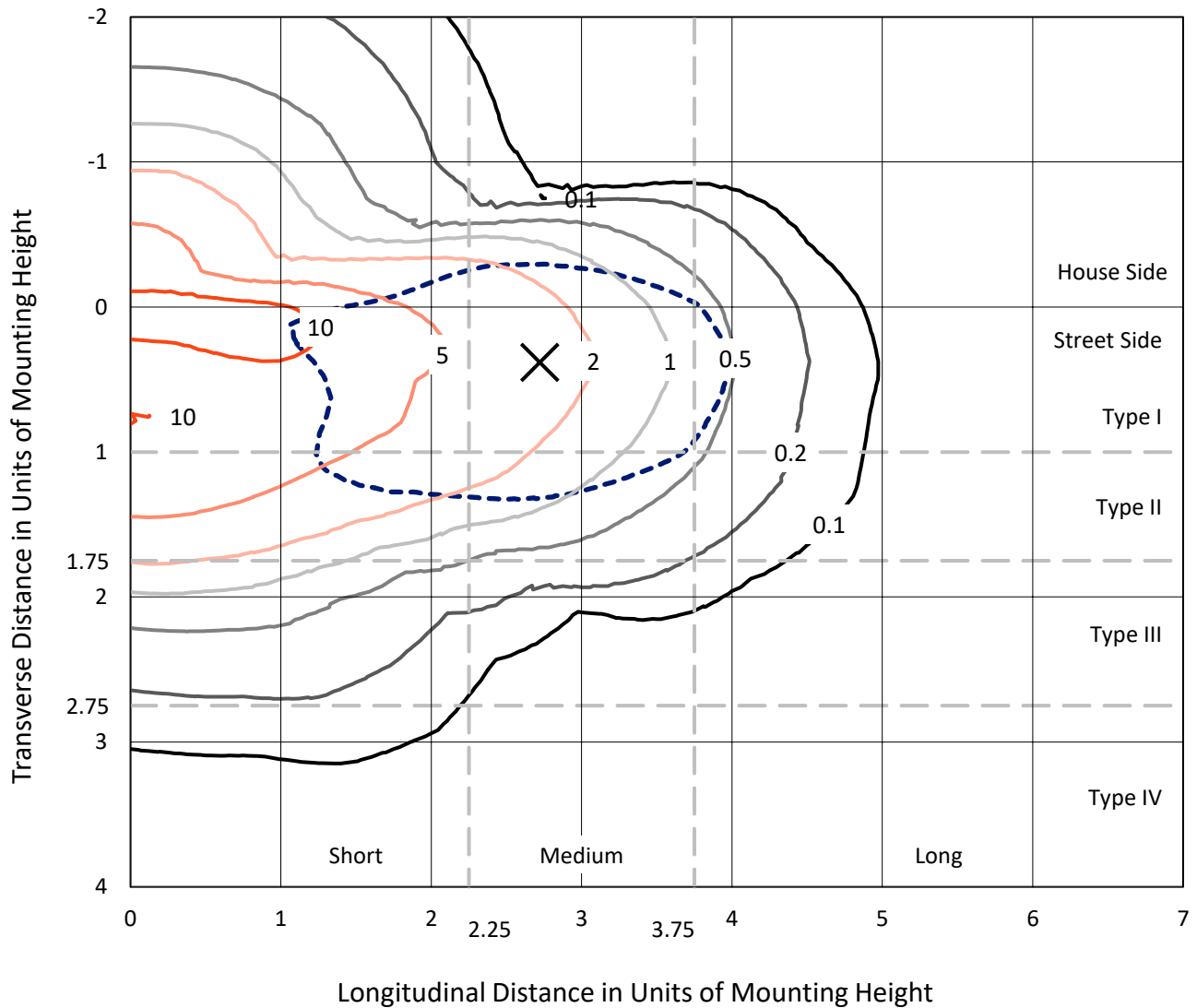
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

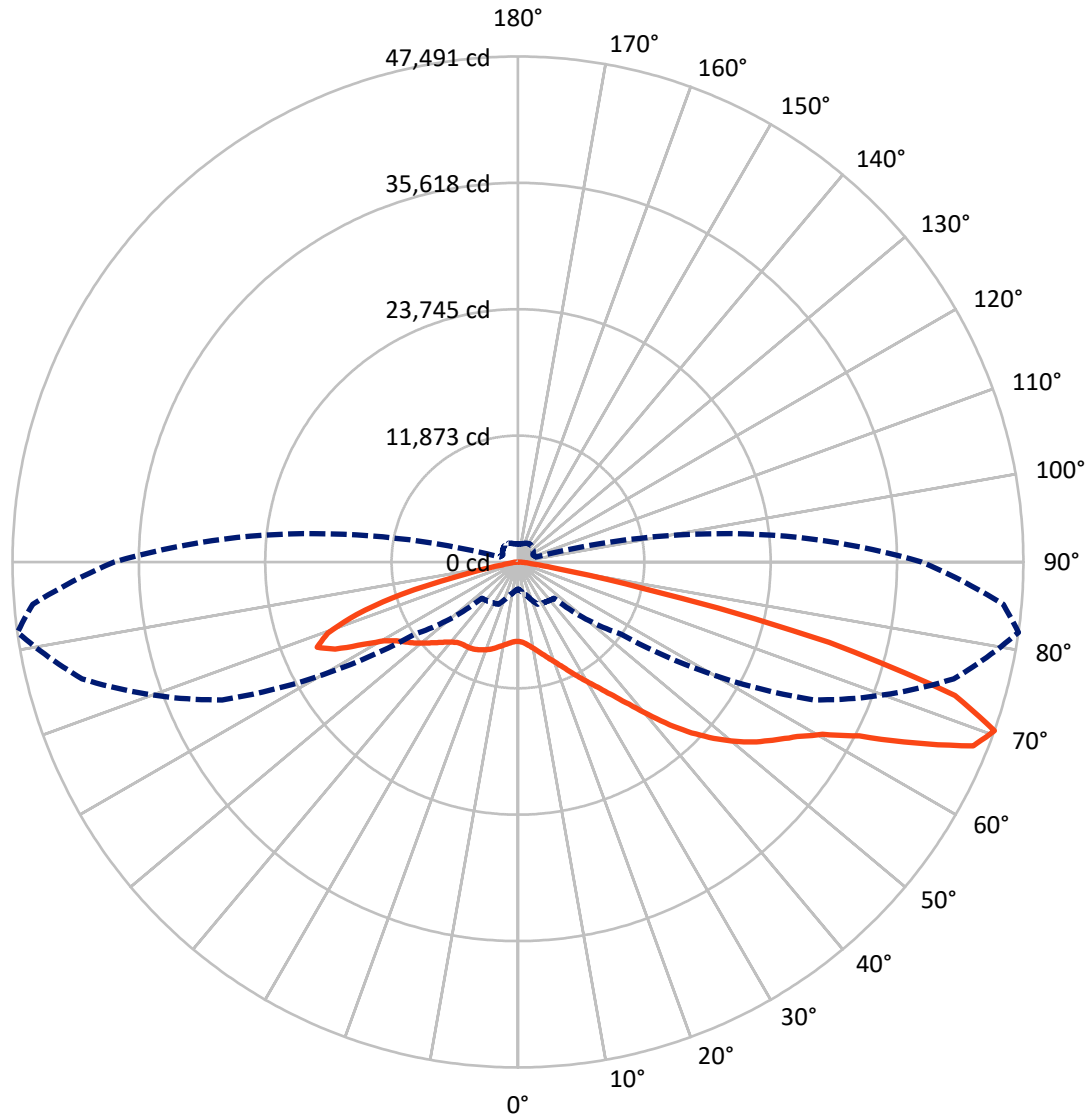
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12528.4	0.0	12528.4
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	38291.6	0.0	38291.6
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	50820.0	0.0	50820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	703.5	1.4
10°-20°	2021.2	4.0
20°-30°	3381.2	6.7
30°-40°	5282.3	10.4
40°-50°	8412.7	16.6
50°-60°	11707.3	23.0
60°-70°	12246.4	24.1
70°-80°	6400.6	12.6
80°-90°	664.6	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°	50820.0	100.0
0°-180°	50820.0	100.0

**Coefficient of Utilization**



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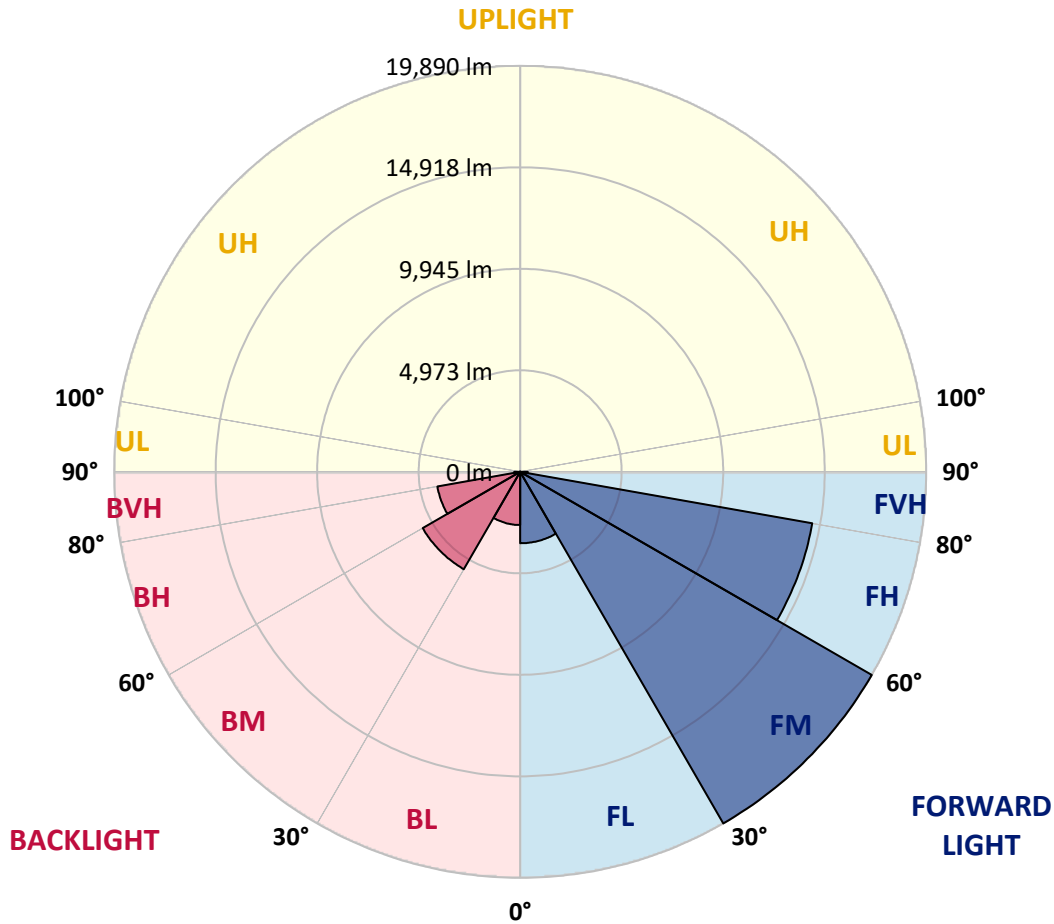
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3499.5	6.9			
FM (30°-60°)	19890.4	39.1			
FH (60°-80°)	14529.6	28.6			G5
FVH (80°-90°)	372.1	0.7			G3/500
BL (0°-30°)	2606.4	5.1	B4/5000		
BM (30°-60°)	5512.0	10.8	B4/8500		
BH (60°-80°)	4117.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	292.6	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8
2.5°	7628.8	7672.0	7658.5	7645.0	7645.0	7626.1	7623.4	7596.5	7574.9	7539.8
5°	7725.9	7771.7	7766.4	7777.1	7812.2	7820.3	7828.4	7812.2	7769.1	7725.9
7.5°	7639.6	7690.8	7707.0	7771.7	7879.6	7976.7	8049.5	8079.2	8038.7	7976.7
10°	7348.4	7405.0	7461.6	7615.3	7806.8	8036.0	8230.2	8346.1	8338.0	8278.7
12.5°	6757.8	6817.1	6938.5	7237.8	7588.4	7992.9	8354.2	8596.9	8680.5	8637.4
15°	6285.9	6337.1	6428.8	6736.2	7192.0	7806.8	8400.1	8872.0	9085.0	9060.7
17.5°	6272.4	6294.0	6350.6	6496.2	6846.8	7515.6	8351.5	9141.6	9548.8	9546.1
20°	6509.7	6517.8	6550.2	6579.8	6779.4	7294.4	8227.5	9365.5	10069.3	10069.3
22.5°	6838.7	6833.3	6865.7	6838.7	6935.8	7275.6	8149.3	9562.3	10649.1	10692.2
25°	7332.2	7305.2	7297.1	7235.1	7254.0	7450.8	8235.6	9786.1	11336.7	11425.7
27.5°	7990.2	7947.0	7917.4	7774.4	7725.9	7812.2	8499.8	10055.8	12102.6	12256.3
30°	8847.7	8769.5	8726.4	8478.3	8303.0	8316.5	8898.9	10414.5	12903.5	13151.6
32.5°	10018.1	9896.7	9780.8	9373.6	9052.7	8947.5	9414.0	10910.7	13771.8	14168.2
35°	11328.6	11231.6	11107.5	10479.2	9985.7	9743.0	10109.7	11603.7	14788.4	15416.8
37.5°	12590.7	12507.1	12566.4	11719.6	11083.2	10730.0	11021.2	12534.0	16042.4	16970.0
40°	13895.8	13831.1	13839.2	13030.2	12288.6	11892.2	12126.8	13701.7	17479.7	18817.2
42.5°	15314.3	15265.7	15103.9	14386.6	13553.4	13183.9	13399.7	15050.0	19022.2	20920.6
45°	16902.6	16872.9	16721.9	15899.5	14944.8	14529.6	14820.8	16538.6	20572.8	22900.0
47.5°	18275.2	18299.5	18280.6	17587.6	16597.9	15988.4	16336.3	18091.8	22015.5	24760.7
50°	18935.9	19062.6	19248.7	19033.0	18418.1	17797.9	17865.3	19591.2	23390.8	26505.4
52.5°	18590.7	18830.7	19337.7	19682.9	19920.2	19790.7	19610.0	21079.7	24685.1	28080.2
55°	17304.4	17641.5	18482.8	19316.1	20526.9	21468.0	21705.3	22730.1	25947.2	29466.3
57.5°	14961.0	15508.4	16263.5	17948.9	19987.6	22279.7	24148.5	25019.5	27284.7	30946.8
60°	10943.0	11676.5	12614.9	15122.8	18099.9	21845.6	26227.6	28536.0	29185.9	32864.1
62.5°	7003.2	7456.2	8319.2	10681.4	14103.5	19620.8	26864.0	32931.5	32408.4	36008.4
65°	4794.6	5085.9	5876.0	7202.8	9117.4	14605.1	25159.8	36226.8	37526.6	40991.8
67.5°	3484.1	3705.2	4379.4	5541.6	5940.7	8642.8	19523.8	36075.8	42501.9	46126.2
70°	2540.2	2696.7	3262.9	4379.4	4570.8	4808.1	11827.5	30666.3	42394.1	47490.7
72.5°	1882.3	1990.1	2370.4	3397.8	3699.8	3246.8	5854.4	22287.8	36429.1	42955.0
75°	1361.8	1442.7	1723.2	2599.6	2960.9	2472.8	2920.5	13024.8	25410.5	30216.0
77.5°	1040.9	1102.9	1286.3	1903.8	2370.4	1855.3	1812.1	5992.0	12048.6	12108.0
80°	836.0	876.4	976.2	1340.2	1817.5	1388.8	1181.1	2418.9	3807.7	3222.5
82.5°	614.8	682.3	825.2	941.1	1299.8	957.3	720.0	1221.6	1448.1	1245.9
85°	350.6	396.4	498.9	674.2	830.6	585.2	412.6	542.0	674.2	552.8
87.5°	124.0	161.8	175.3	264.3	361.4	242.7	159.1	156.4	221.1	164.5
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°
7450.8	0°	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8	7450.8
7531.7	2.5°	7504.8	7491.3	7437.4	7364.6	7289.0	7216.2	7192.0	7140.7	7105.7	7086.8
7707.0	5°	7655.8	7612.6	7485.9	7324.1	7154.2	6970.8	6841.4	6722.8	6636.5	6555.6
7947.0	7.5°	7871.5	7796.0	7577.6	7294.4	6992.4	6687.7	6461.2	6288.6	6172.6	6097.1
8227.5	10°	8122.3	8006.4	7672.0	7248.6	6782.1	6345.2	6078.3	5929.9	5857.1	5816.7
8548.4	12.5°	8410.9	8246.4	7769.1	7143.4	6461.2	5962.3	5778.9	5735.8	5738.5	5741.2
8952.9	15°	8766.8	8537.6	7847.3	6914.2	6043.2	5668.4	5636.0	5706.1	5778.9	5814.0
9411.3	17.5°	9168.6	8845.0	7860.7	6536.7	5633.3	5479.6	5582.1	5733.1	5843.6	5892.2
9923.7	20°	9600.1	9157.8	7763.7	6002.7	5296.2	5325.9	5509.3	5703.4	5824.8	5886.8
10508.9	22.5°	10093.6	9492.2	7531.7	5441.8	5021.2	5158.7	5374.4	5563.2	5689.9	5752.0
11196.5	25°	10657.2	9867.0	7167.7	4969.9	4783.9	4969.9	5185.7	5342.1	5444.5	5501.2
11965.0	27.5°	11282.8	10258.1	6682.3	4595.1	4576.2	4775.8	4953.7	5075.1	5129.0	5172.2
12782.1	30°	11911.1	10614.0	6094.4	4311.9	4395.5	4584.3	4711.0	4765.0	4781.2	4789.3
13693.6	32.5°	12590.7	10921.4	5476.9	4077.3	4223.0	4398.2	4473.7	4498.0	4422.5	4371.3
14799.2	35°	13413.1	11250.4	4872.8	3891.3	4053.1	4204.1	4228.3	4206.8	4117.8	4012.6
16185.3	37.5°	14429.8	11660.3	4390.1	3759.1	3894.0	3993.7	3964.1	3958.7	3966.8	3842.7
17851.8	40°	15675.6	12194.3	4036.9	3656.7	3764.5	3786.1	3702.5	3748.3	3788.8	3600.0
19680.2	42.5°	17059.0	12838.8	3813.1	3586.5	3656.7	3605.4	3476.0	3527.2	3521.8	3273.7
21516.6	45°	18469.4	13539.9	3734.9	3535.3	3556.9	3454.4	3311.5	3325.0	3211.7	2987.9
23277.5	47.5°	19871.6	14292.3	3783.4	3492.2	3432.8	3316.9	3206.3	3147.0	2979.8	2812.6
24965.6	50°	21246.9	15082.4	3961.4	3405.9	3262.9	3195.5	3114.6	3009.5	2831.5	2688.6
26562.0	52.5°	22522.4	15877.9	4160.9	3262.9	3049.9	3090.4	3039.1	2917.8	2742.5	2596.9
28072.1	55°	23730.5	16673.4	4239.1	3066.1	2850.4	2998.7	2969.0	2745.2	2534.9	2416.2
29652.4	57.5°	25046.5	17630.7	4152.8	2815.3	2688.6	2893.5	2780.2	2532.2	2410.8	2321.8
31709.9	60°	26869.4	19132.7	3966.8	2505.2	2534.9	2737.1	2542.9	2440.5	2308.3	2208.6
34794.9	62.5°	29897.8	21934.6	3667.4	2197.8	2354.2	2505.2	2429.7	2327.2	2192.4	2095.3
40069.5	65°	34374.2	25828.5	3103.8	1957.8	2151.9	2278.7	2308.3	2205.9	2065.6	1963.2
44691.6	67.5°	38149.5	28271.7	2348.8	1758.2	1944.3	2095.3	2178.9	2079.1	1930.8	1831.0
45773.0	70°	37941.9	26497.3	1793.3	1561.4	1760.9	1914.6	2022.5	1944.3	1785.2	1690.8
41577.0	72.5°	33700.1	22166.5	1450.8	1361.8	1574.8	1725.9	1855.3	1796.0	1634.2	1542.5
30458.7	75°	24758.0	15735.0	1159.6	1159.6	1342.9	1529.0	1671.9	1634.2	1485.9	1421.1
12787.5	77.5°	10436.0	6601.4	908.8	962.7	1116.4	1313.3	1491.2	1504.7	1375.3	1456.2
3381.6	80°	2774.9	1820.2	693.0	757.8	876.4	1084.1	1297.1	1291.7	1151.5	1076.0
1256.6	82.5°	1057.1	717.3	493.5	533.9	633.7	830.6	1027.4	1059.8	919.6	795.5
493.5	85°	407.2	307.4	304.7	320.9	369.4	550.1	776.6	803.6	693.0	587.9
137.5	87.5°	105.2	91.7	113.3	107.9	169.9	293.9	444.9	461.1	423.4	245.4
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>
7450.8
7108.4
6587.9
6113.3
5827.5
5746.6
5811.3
5903.0
5903.0
5768.1
5517.3
5188.4
4808.1
4387.5
4018.0
3850.8
3605.4
3271.0
2996.0
2812.6
2677.8
2599.6
2405.4
2313.7
2203.2
2095.3
1968.6
1833.7
1698.9
1542.5
1402.3
1321.4
1000.5
795.5
606.7
350.6
0.0

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