

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: P957656

Luminaire Tested: **GALN-SB9D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68065 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

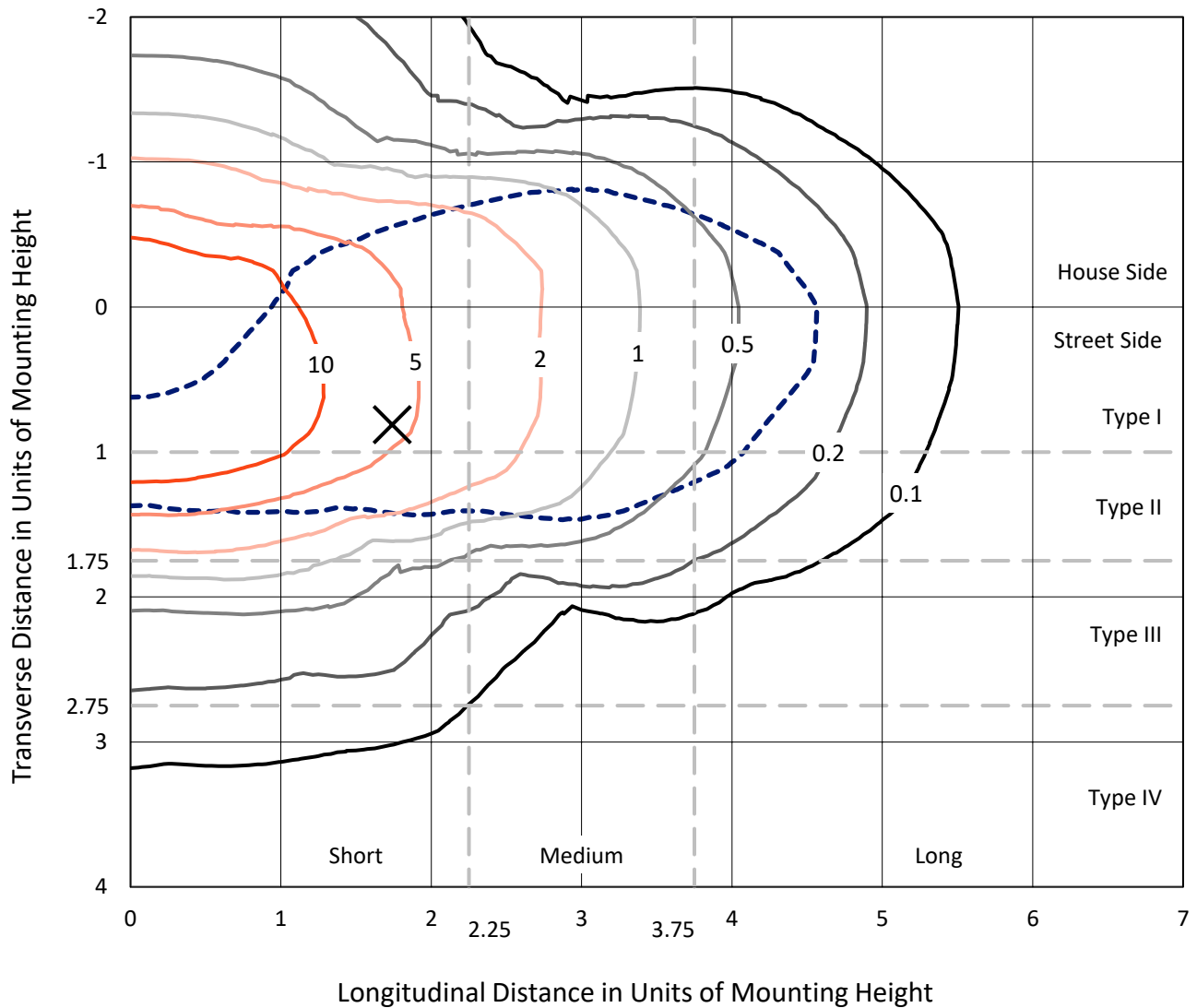
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

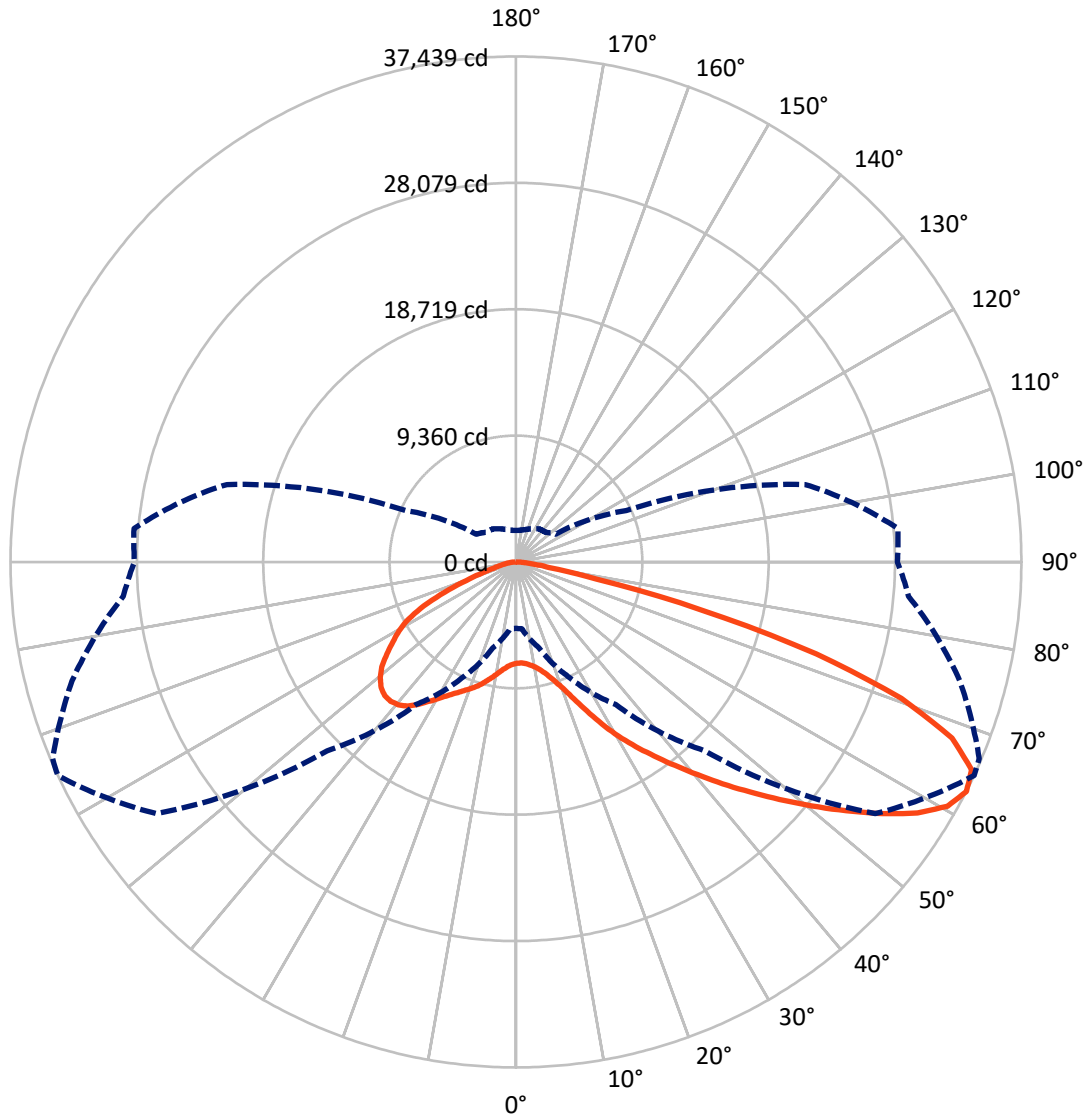
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21478.3	0.0	21478.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	46586.7	0.0	46586.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	68065.0	0.0	68065.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.8	1.1
10°-20°	2535.8	3.7
20°-30°	5141.6	7.6
30°-40°	8897.5	13.1
40°-50°	13464.7	19.8
50°-60°	15786.5	23.2
60°-70°	13235.1	19.4
70°-80°	7306.8	10.7
80°-90°	949.1	1.4
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°	68065.0	100.0
0°-180°	68065.0	100.0

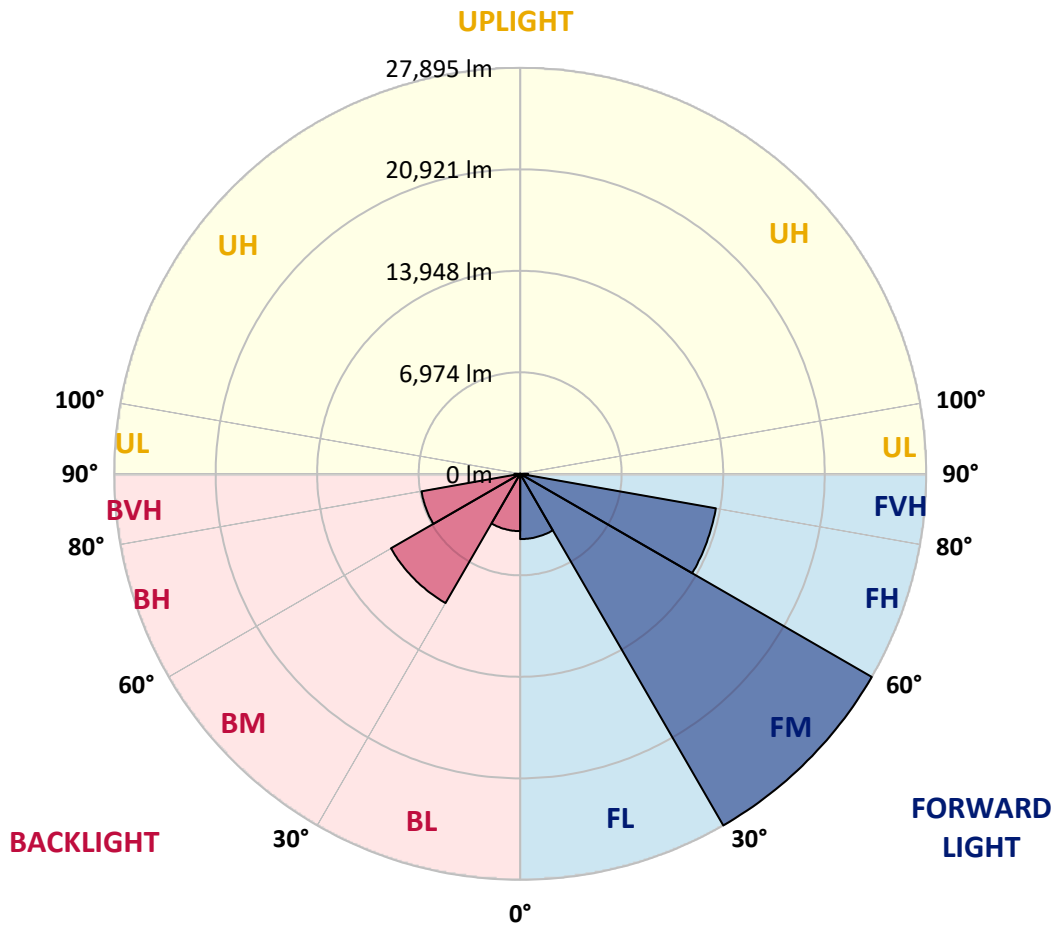


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4486.4	6.6			
FM (30°-60°)	27895.3	41.0			
FH (60°-80°)	13651.8	20.1			G5
FVH (80°-90°)	553.2	0.8			G4/750
BL (0°-30°)	3938.9	5.8	B4/5000		
BM (30°-60°)	10253.5	15.1	B5		
BH (60°-80°)	6890.1	10.1	B5		G5
BVH (80°-90°)	395.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5
2.5°	7451.0	7429.8	7447.5	7447.5	7454.6	7451.0	7475.7	7482.8	7493.4	7514.6
5°	7376.9	7373.3	7405.1	7433.4	7461.6	7486.3	7518.1	7564.0	7571.1	7595.8
7.5°	7352.2	7331.0	7380.4	7415.7	7482.8	7542.8	7627.6	7705.3	7737.1	7747.7
10°	7542.8	7507.5	7553.4	7574.6	7631.1	7691.2	7790.0	7913.6	7948.9	7991.3
12.5°	7867.7	7828.9	7896.0	7927.8	7980.7	8033.7	8100.8	8220.9	8238.5	8316.2
15°	8312.7	8266.8	8309.1	8348.0	8436.3	8485.7	8552.8	8669.3	8669.3	8729.4
17.5°	8916.5	8856.5	8888.3	8902.4	8958.9	9033.0	9146.1	9248.5	9301.4	9280.2
20°	9817.0	9742.8	9742.8	9672.2	9651.0	9711.1	9859.4	10000.6	10057.1	9947.7
22.5°	11169.5	11063.5	11003.5	10763.4	10668.0	10675.1	10823.4	10996.4	11042.4	10848.1
25°	12889.2	12723.3	12642.0	12288.9	12073.5	11886.3	12002.9	12225.3	12288.9	12048.8
27.5°	14609.0	14619.6	14541.9	14118.1	13761.5	13418.9	13358.9	13591.9	13659.0	13387.1
30°	17020.8	16770.1	16621.8	16113.3	15604.8	15124.5	14877.3	14972.7	14990.3	14665.5
32.5°	19100.8	19037.2	18719.4	18274.4	17621.2	16869.0	16455.8	16304.0	16275.7	15813.1
35°	21470.3	21435.0	21099.5	20569.8	19863.5	18818.3	18073.2	17638.8	17603.5	16953.7
37.5°	23878.6	23878.6	23550.2	22971.1	22240.1	20933.5	19800.0	19111.4	18998.4	18150.8
40°	25799.6	25683.1	25743.1	25499.5	24662.6	23274.8	21717.5	20718.1	20566.3	19549.2
42.5°	26890.8	26852.0	27212.1	27484.1	27141.5	26032.7	23829.2	22459.0	22247.2	21088.9
45°	27134.5	27092.1	27734.8	28730.6	29210.9	28755.3	26124.5	24291.8	24034.0	22699.2
47.5°	26573.0	26488.2	27431.1	29002.5	30542.2	31343.8	28610.5	26279.9	25905.6	24267.1
50°	24885.0	24803.8	26230.4	28317.4	30990.6	33102.3	31308.5	28388.1	27816.0	25947.9
52.5°	21216.0	21254.9	23490.2	26357.6	30400.9	34197.0	33632.0	30609.3	29920.7	27667.7
55°	16526.5	16611.2	19358.6	22515.5	28042.0	34031.1	35217.6	32897.5	32212.5	29285.0
57.5°	11833.4	12207.7	14782.0	17907.2	23511.4	31400.3	35563.7	35072.8	34408.9	31050.7
60°	7670.0	7737.1	10385.5	13535.4	17903.7	26724.8	34860.9	36721.9	36202.8	32851.6
62.5°	4915.6	4961.5	6575.3	9467.4	12885.7	19771.7	32495.0	37438.8	37279.9	34041.7
65°	3612.5	3577.2	4417.6	6257.5	8679.9	12193.6	27900.8	37092.7	37407.0	34786.8
67.5°	3015.7	2966.3	3379.4	4332.9	6395.2	6924.9	20643.9	34843.3	35994.5	34702.0
70°	2747.3	2705.0	2955.7	3217.0	4989.7	4636.6	10406.7	30291.4	32064.1	33738.0
72.5°	2327.1	2253.0	2595.5	2856.8	3880.9	3556.0	4301.1	23267.7	25428.8	30648.1
75°	1804.5	1755.1	2048.2	2514.3	2916.8	2775.6	2719.1	14128.7	16487.6	23702.0
77.5°	1430.2	1363.1	1631.5	1959.9	2623.8	2094.1	1981.1	6084.4	8422.1	15131.6
80°	1077.0	1017.0	1239.5	1550.2	2016.4	1578.5	1281.9	2482.5	3174.6	7666.4
82.5°	766.3	713.3	865.2	1137.1	1356.0	1416.0	787.5	1391.3	1564.4	2955.7
85°	490.8	459.1	579.1	713.3	861.6	911.1	480.3	727.4	798.1	1218.3
87.5°	268.4	218.9	310.8	331.9	399.0	363.7	229.5	264.8	286.0	441.4
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°
7500.5	0°	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5	7500.5
7514.6	2.5°	7528.7	7539.3	7574.6	7585.2	7609.9	7641.7	7662.9	7684.1	7684.1	7705.3
7627.6	5°	7631.1	7655.8	7730.0	7768.8	7832.4	7896.0	7934.8	7980.7	8009.0	8023.1
7807.7	7.5°	7828.9	7867.7	7973.7	8040.8	8150.2	8238.5	8298.5	8362.1	8376.2	8415.1
8058.4	10°	8097.3	8143.2	8263.2	8390.4	8521.0	8630.5	8687.0	8732.9	8750.5	8757.6
8379.8	12.5°	8404.5	8471.6	8627.0	8782.3	8920.0	9015.4	9029.5	9018.9	8969.5	8927.1
8775.3	15°	8782.3	8842.4	9015.4	9184.9	9319.1	9336.7	9248.5	9192.0	9131.9	9121.3
9216.7	17.5°	9234.3	9266.1	9425.0	9591.0	9601.6	9541.6	9410.9	9357.9	9301.4	9262.6
9792.3	20°	9760.5	9749.9	9862.9	9933.5	9859.4	9675.7	9478.0	9389.7	9333.2	9287.3
10498.5	22.5°	10389.1	10307.8	10293.7	10276.1	10078.3	9693.4	9425.0	9312.0	9223.7	9160.2
11483.8	25°	11303.7	10992.9	10777.5	10657.4	10212.5	9598.1	9255.5	9004.8	8838.8	8729.4
12687.9	27.5°	12447.8	11925.2	11381.4	11088.3	10212.5	9403.8	8845.9	8439.8	8167.9	8054.9
13853.3	30°	13539.0	12991.6	12190.0	11607.4	10187.8	9086.0	8185.5	7620.5	7302.7	7189.7
14849.1	32.5°	14471.2	13874.5	13048.1	12175.9	10127.8	8570.4	7366.3	6741.2	6434.0	6299.8
15834.3	35°	15336.4	14700.8	13909.8	12800.9	9968.8	7814.8	6465.8	5989.1	5646.5	5431.1
16837.2	37.5°	16222.8	15467.1	14725.5	13365.9	9682.8	6931.9	5773.7	5367.6	4965.0	4675.4
17903.7	40°	17186.8	16282.8	15597.7	13701.4	9213.1	6091.5	5236.9	4866.1	4438.8	4131.6
19132.5	42.5°	18313.3	17261.0	16568.8	13874.5	8570.4	5494.7	4887.3	4523.6	4121.0	3870.3
20449.7	45°	19489.2	18338.0	17455.2	13870.9	7853.6	5215.7	4774.3	4414.1	3969.2	3707.9
21802.2	47.5°	20721.6	19464.5	18221.5	13644.9	7232.1	5254.6	4710.7	4177.5	3686.7	3432.4
23168.8	50°	21957.6	20696.9	18963.0	13221.2	6967.2	5169.8	4474.1	3845.6	3266.4	3036.9
24450.7	52.5°	23182.9	22007.0	19602.2	12617.3	6698.9	4855.5	4170.5	3414.8	3093.4	2934.5
25774.9	55°	24415.4	23303.0	20297.9	11738.0	6027.9	4488.3	3662.0	3252.3	2955.7	2810.9
27070.9	57.5°	25651.3	24800.3	20958.2	10858.7	5183.9	4036.3	3383.0	3054.6	2818.0	2694.4
28155.0	60°	26936.7	26513.0	21639.8	10050.1	4350.6	3457.1	3178.2	2895.7	2655.5	2517.8
29196.7	62.5°	28260.9	28398.7	22173.0	9008.3	3584.3	3104.0	2994.5	2705.0	2471.9	2341.2
30058.4	65°	29595.8	30217.3	22522.6	7564.0	2906.3	2768.5	2796.8	2496.6	2260.0	2147.0
30690.5	67.5°	30602.2	31527.4	22423.7	5724.2	2383.6	2450.7	2549.6	2277.7	2055.2	1966.9
30588.1	70°	30715.2	31372.0	21449.1	3919.7	1995.2	2140.0	2274.2	2062.3	1832.7	1769.2
29147.3	72.5°	29210.9	29253.2	18733.5	2560.2	1688.0	1878.6	1984.6	1843.3	1620.9	1557.3
25499.5	75°	25266.4	24192.9	13754.4	1688.0	1412.5	1613.8	1712.7	1613.8	1398.4	1412.5
19079.6	77.5°	19143.1	17133.8	8351.5	1200.6	1179.5	1356.0	1490.2	1419.6	1236.0	1387.8
9594.5	80°	9862.9	9269.6	3725.5	896.9	932.3	1084.1	1225.4	1133.5	978.2	932.3
2143.5	82.5°	2260.0	2627.3	1469.0	642.7	674.5	780.4	935.8	851.0	702.7	593.3
893.4	85°	791.0	865.2	649.8	402.6	395.5	487.3	635.6	568.5	476.7	381.4
377.8	87.5°	250.7	328.4	243.7	162.4	169.5	218.9	293.1	268.4	222.5	144.8
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>
7500.5
7705.3
8030.2
8400.9
8740.0
8927.1
9121.3
9266.1
9290.8
9181.4
8771.7
8111.4
7256.8
6366.9
5501.8
4753.1
4191.6
3919.7
3750.2
3467.7
3051.0
2934.5
2796.8
2673.2
2507.2
2337.7
2143.5
1970.5
1772.7
1553.8
1363.1
1221.8
851.0
586.2
402.6
151.8
0.0

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