

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: P944365

Luminaire Tested: **GALN-SB9B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944365
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-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53766 lumens
Efficiency: N/A
Efficacy: 163.2 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

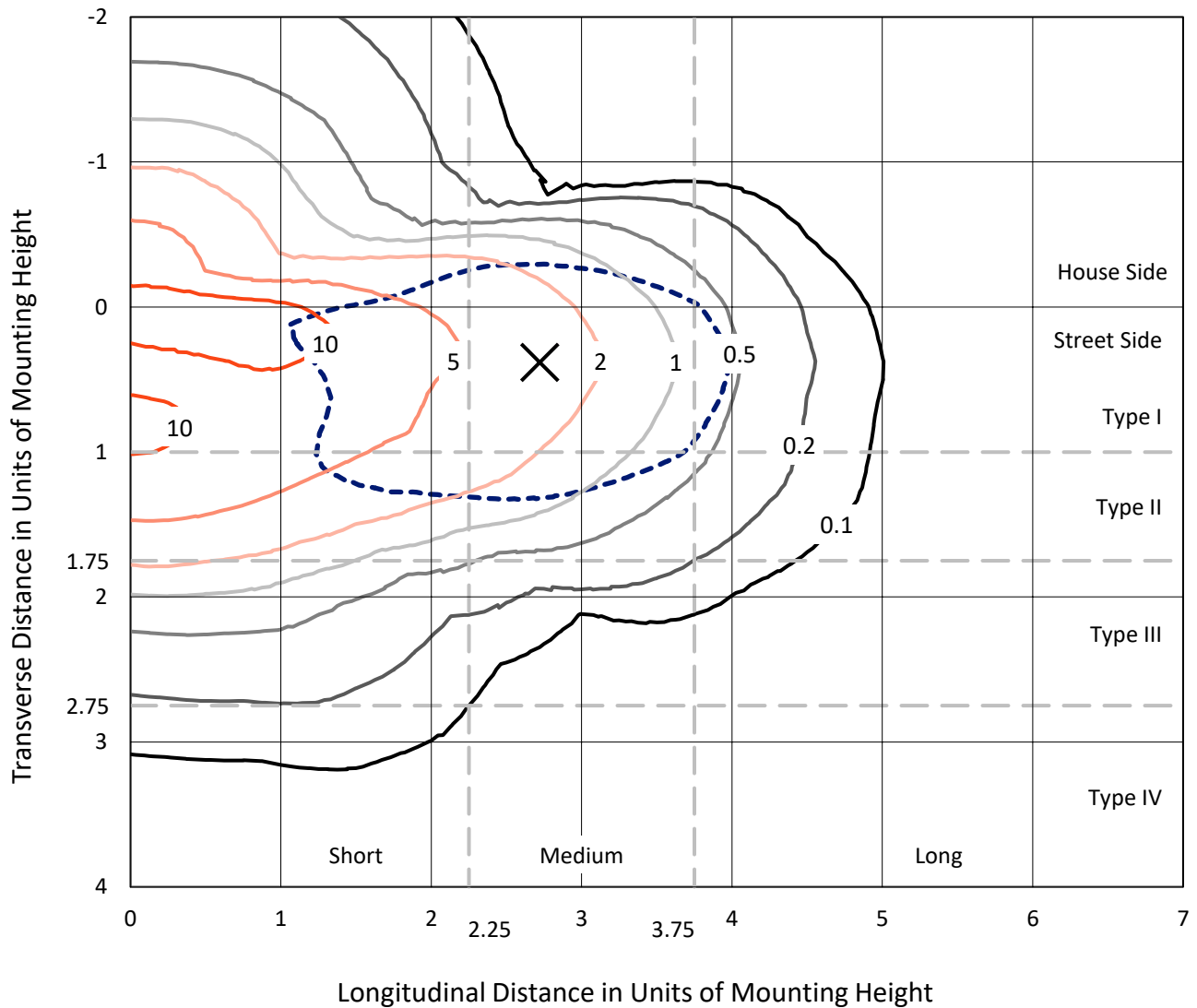
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

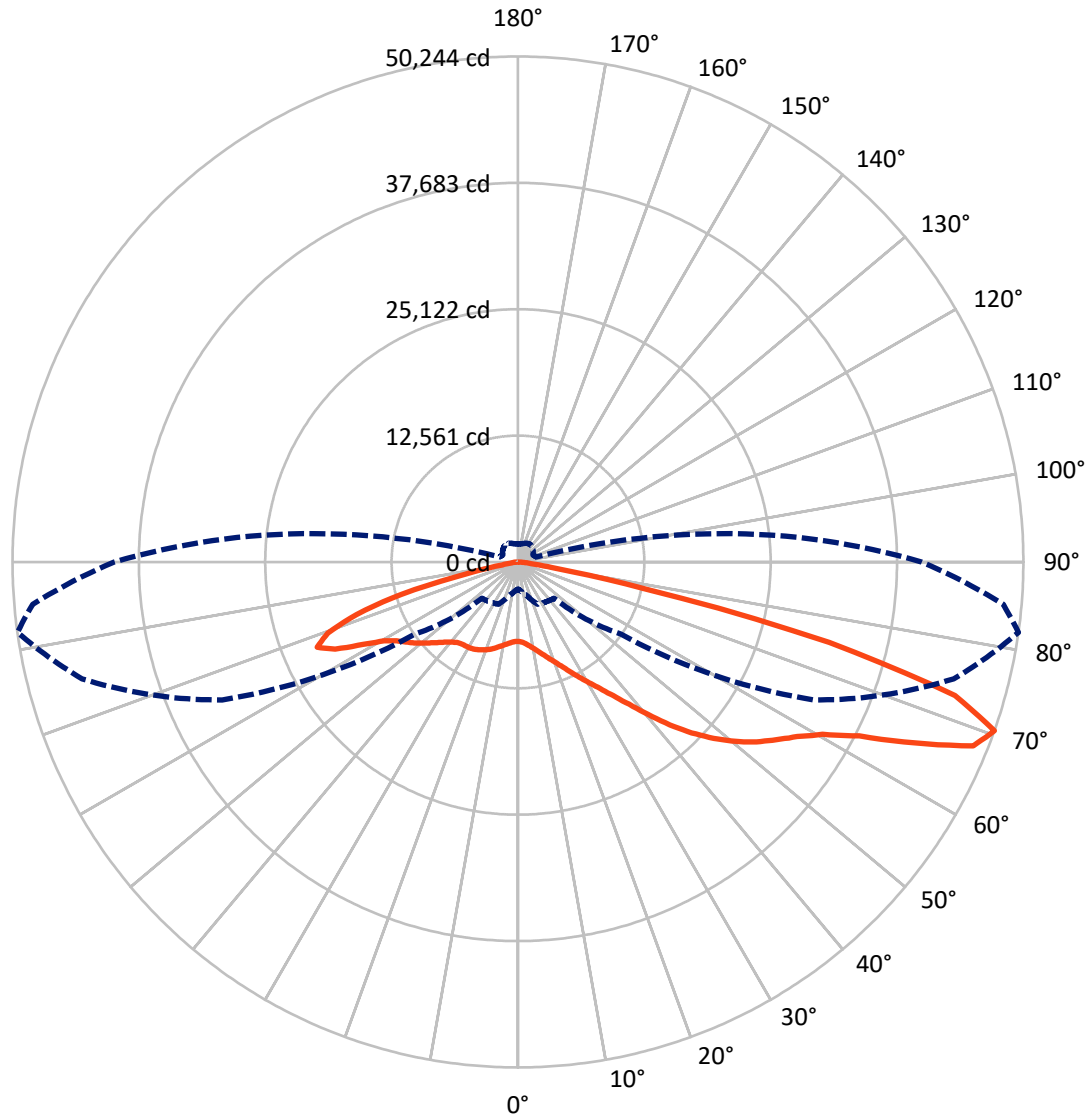
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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
House Side	Lumens	13254.6	0.0	13254.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	40511.4	0.0	40511.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	53766.0	0.0	53766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.3	1.4
10°-20°	2138.3	4.0
20°-30°	3577.2	6.7
30°-40°	5588.6	10.4
40°-50°	8900.4	16.6
50°-60°	12386.0	23.0
60°-70°	12956.3	24.1
70°-80°	6771.7	12.6
80°-90°	703.2	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°	53766.0	100.0
0°-180°	53766.0	100.0

Coefficient of Utilization



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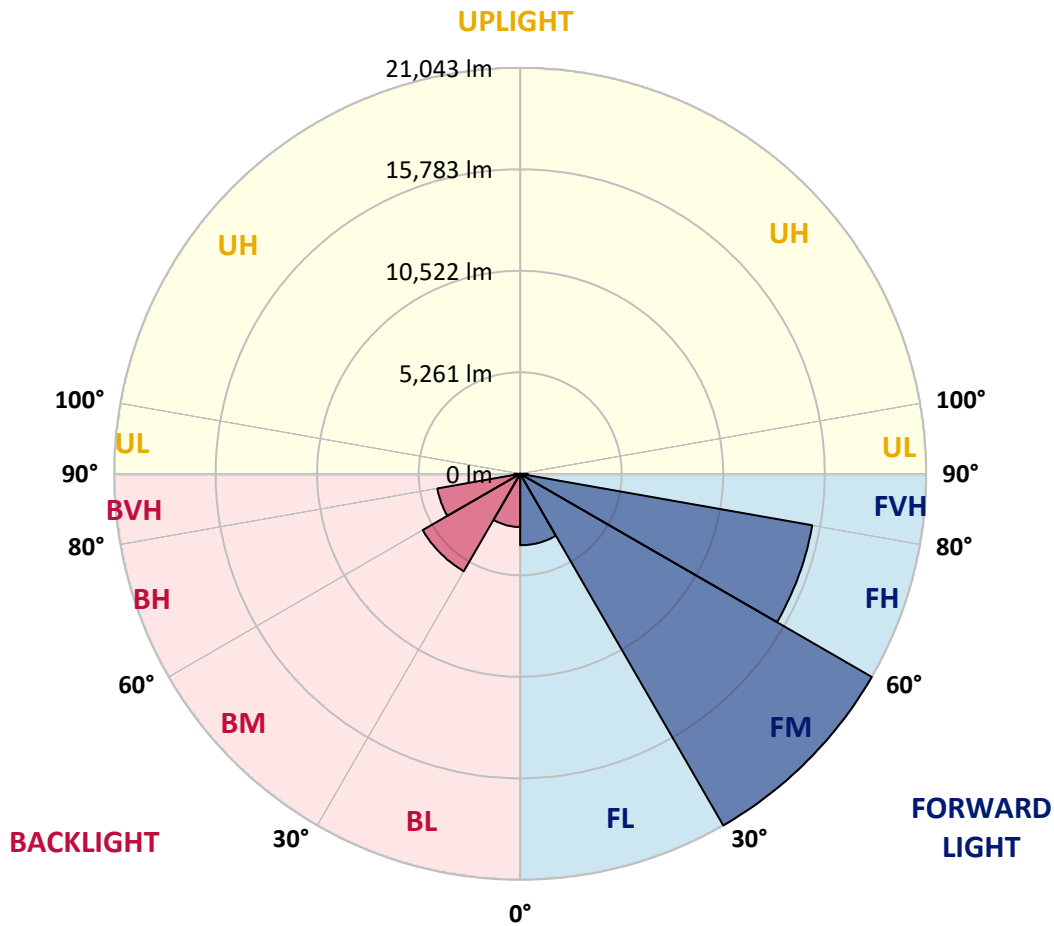
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3702.4	6.9			
FM (30°-60°)	21043.5	39.1			
FH (60°-80°)	15371.9	28.6			G5
FVH (80°-90°)	393.6	0.7			G3/500
BL (0°-30°)	2757.4	5.1	B4/5000		
BM (30°-60°)	5831.5	10.8	B4/8500		
BH (60°-80°)	4356.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	309.5	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°	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8
2.5°	8071.1	8116.7	8102.4	8088.2	8088.2	8068.2	8065.4	8036.8	8014.0	7976.9
5°	8173.8	8222.3	8216.6	8228.0	8265.1	8273.6	8282.2	8265.1	8219.4	8173.8
7.5°	8082.5	8136.7	8153.8	8222.3	8336.4	8439.1	8516.1	8547.5	8504.7	8439.1
10°	7774.4	7834.3	7894.2	8056.8	8259.4	8501.9	8707.3	8830.0	8821.4	8758.6
12.5°	7149.6	7212.3	7340.7	7657.4	8028.3	8456.2	8838.5	9095.3	9183.7	9138.1
15°	6650.3	6704.5	6801.5	7126.7	7608.9	8259.4	8887.0	9386.3	9611.7	9586.0
17.5°	6636.0	6658.8	6718.8	6872.8	7243.7	7951.2	8835.7	9671.6	10102.4	10099.5
20°	6887.1	6895.6	6929.9	6961.3	7172.4	7717.3	8704.4	9908.4	10653.0	10653.0
22.5°	7235.1	7229.4	7263.7	7235.1	7337.8	7697.3	8621.7	10116.6	11266.4	11312.0
25°	7757.2	7728.7	7720.1	7654.5	7674.5	7882.8	8713.0	10353.4	11993.9	12088.1
27.5°	8453.4	8407.7	8376.3	8225.1	8173.8	8265.1	8992.6	10638.7	12804.1	12966.8
30°	9360.6	9277.9	9232.2	8969.8	8784.3	8798.6	9414.8	11018.2	13651.5	13914.0
32.5°	10598.8	10470.4	10347.7	9916.9	9577.4	9466.2	9959.7	11543.1	14570.1	14989.5
35°	11985.3	11882.6	11751.4	11086.7	10564.6	10307.8	10695.8	12276.3	15645.7	16310.5
37.5°	13320.5	13232.1	13294.9	12399.0	11725.7	11352.0	11660.1	13260.6	16972.3	17953.8
40°	14701.4	14632.9	14641.5	13785.6	13001.0	12581.6	12829.8	14496.0	18493.0	19908.1
42.5°	16202.0	16150.7	15979.5	15220.6	14339.0	13948.2	14176.4	15922.4	20124.9	22133.4
45°	17882.4	17851.1	17691.3	16821.1	15811.2	15371.8	15679.9	17497.3	21765.3	24227.5
47.5°	19334.6	19360.3	19340.3	18607.1	17560.1	16915.3	17283.3	19140.6	23291.7	26196.0
50°	20033.6	20167.7	20364.5	20136.3	19485.8	18829.6	18901.0	20726.9	24746.7	28041.9
52.5°	19668.4	19922.3	20458.7	20823.9	21074.9	20938.0	20746.8	22301.7	26116.1	29708.0
55°	18307.5	18664.2	19554.3	20435.9	21716.8	22712.5	22963.6	24047.7	27451.3	31174.4
57.5°	15828.3	16407.5	17206.3	18989.4	21146.2	23571.3	25548.4	26469.9	28866.4	32740.7
60°	11577.4	12353.4	13346.2	15999.5	19149.2	23111.9	27748.0	30190.2	30877.7	34769.2
62.5°	7409.2	7888.5	8801.4	11300.6	14921.1	20758.2	28421.3	34840.5	34287.0	38095.8
65°	5072.6	5380.7	6216.6	7620.3	9645.9	15451.7	26618.2	38326.9	39702.0	43368.1
67.5°	3686.0	3920.0	4633.2	5862.9	6285.1	9143.8	20655.5	38167.1	44965.7	48800.1
70°	2687.5	2853.0	3452.1	4633.2	4835.8	5086.9	12513.1	32444.0	44851.6	50243.7
72.5°	1991.4	2105.5	2507.8	3594.7	3914.3	3435.0	6193.8	23579.8	38540.8	45445.0
75°	1440.8	1526.3	1823.1	2750.3	3132.6	2616.2	3089.8	13779.9	26883.6	31967.6
77.5°	1101.2	1166.9	1360.9	2014.2	2507.8	1962.8	1917.2	6339.3	12747.1	12809.9
80°	884.4	927.2	1032.8	1417.9	1922.9	1469.3	1249.6	2559.1	4028.4	3409.3
82.5°	650.5	721.8	873.0	995.7	1375.1	1012.8	761.7	1292.4	1532.0	1318.1
85°	370.9	419.4	527.8	713.2	878.7	619.1	436.5	573.4	713.2	584.9
87.5°	131.2	171.2	185.4	279.6	382.3	256.8	168.3	165.5	233.9	174.0
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°
7882.8	0°	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8	7882.8
7968.4	2.5°	7939.8	7925.6	7868.5	7791.5	7711.6	7634.6	7608.9	7554.7	7517.6	7497.6
8153.8	5°	8099.6	8053.9	7919.9	7748.7	7568.9	7374.9	7238.0	7112.5	7021.2	6935.6
8407.7	7.5°	8327.8	8247.9	8016.9	7717.3	7397.8	7075.4	6835.7	6653.1	6530.5	6450.6
8704.4	10°	8593.2	8470.5	8116.7	7668.8	7175.2	6713.0	6430.6	6273.7	6196.7	6153.9
9043.9	12.5°	8898.4	8724.4	8219.4	7557.5	6835.7	6307.9	6113.9	6068.3	6071.1	6074.0
9471.9	15°	9275.0	9032.5	8302.2	7315.0	6393.5	5997.0	5962.7	6036.9	6113.9	6151.0
9956.9	17.5°	9700.1	9357.8	8316.4	6915.6	5959.9	5797.2	5905.7	6065.4	6182.4	6233.7
10498.9	20°	10156.6	9688.7	8213.7	6350.7	5603.2	5634.6	5828.6	6034.0	6162.4	6228.0
11118.0	22.5°	10678.7	10042.5	7968.4	5757.3	5312.2	5457.7	5686.0	5885.7	6019.8	6085.4
11845.5	25°	11275.0	10439.0	7583.2	5258.0	5061.2	5258.0	5486.3	5651.7	5760.2	5820.1
12658.6	27.5°	11936.8	10852.7	7069.7	4861.5	4841.5	5052.6	5240.9	5369.3	5426.4	5472.0
13523.1	30°	12601.6	11229.3	6447.7	4561.9	4650.3	4850.1	4984.1	5041.2	5058.3	5066.9
14487.4	32.5°	13320.5	11554.5	5794.4	4313.7	4467.8	4653.2	4733.1	4758.8	4678.9	4624.7
15657.1	35°	14190.7	11902.6	5155.3	4116.8	4288.0	4447.8	4473.5	4450.6	4356.5	4245.2
17123.6	37.5°	15266.3	12336.3	4644.6	3977.0	4119.7	4225.3	4193.9	4188.2	4196.7	4065.5
18886.7	40°	16584.3	12901.1	4270.9	3868.6	3982.8	4005.6	3917.1	3965.6	4008.4	3808.7
20821.0	42.5°	18047.9	13583.0	4034.1	3794.5	3868.6	3814.4	3677.5	3731.7	3726.0	3463.5
22763.9	45°	19540.0	14324.8	3951.4	3740.2	3763.1	3654.7	3503.5	3517.7	3397.9	3161.1
24626.9	47.5°	21023.6	15120.8	4002.7	3694.6	3631.8	3509.2	3392.2	3329.4	3152.5	2975.7
26412.8	50°	22478.6	15956.7	4191.0	3603.3	3452.1	3380.8	3295.2	3183.9	2995.6	2844.4
28101.8	52.5°	23828.0	16798.3	4402.1	3452.1	3226.7	3269.5	3215.3	3086.9	2901.5	2747.4
29699.5	55°	25106.2	17639.9	4484.9	3243.8	3015.6	3172.5	3141.1	2904.3	2681.8	2556.3
31371.3	57.5°	26498.4	18652.7	4393.6	2978.5	2844.4	3061.2	2941.4	2678.9	2550.6	2456.4
33548.1	60°	28427.0	20241.9	4196.7	2650.4	2681.8	2895.8	2690.4	2581.9	2442.1	2336.6
36811.9	62.5°	31630.9	23206.1	3880.0	2325.2	2490.6	2650.4	2570.5	2462.1	2319.5	2216.8
42392.3	65°	36366.9	27325.8	3283.8	2071.3	2276.7	2410.8	2442.1	2333.7	2185.4	2077.0
47282.3	67.5°	40361.0	29910.6	2484.9	1860.1	2057.0	2216.8	2305.2	2199.6	2042.7	1937.2
48426.4	70°	40141.3	28033.3	1897.2	1651.9	1863.0	2025.6	2139.7	2057.0	1888.7	1788.8
43987.2	72.5°	35653.6	23451.4	1534.9	1440.8	1666.1	1825.9	1962.8	1900.1	1728.9	1631.9
32224.3	75°	26193.2	16647.1	1226.8	1226.8	1420.8	1617.6	1768.8	1728.9	1572.0	1503.5
13528.8	77.5°	11041.0	6984.1	961.5	1018.5	1181.1	1389.4	1577.7	1592.0	1455.0	1540.6
3577.6	80°	2935.7	1925.8	733.2	801.7	927.2	1146.9	1372.3	1366.6	1218.2	1138.3
1329.5	82.5°	1118.4	758.9	522.1	564.9	670.4	878.7	1087.0	1121.2	972.9	841.6
522.1	85°	430.8	325.2	322.4	339.5	390.9	582.0	821.7	850.2	733.2	621.9
145.5	87.5°	111.3	97.0	119.8	114.1	179.7	311.0	470.7	487.9	447.9	259.6
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>
7882.8
7520.4
6969.8
6467.7
6165.3
6079.7
6148.2
6245.2
6245.2
6102.5
5837.2
5489.1
5086.9
4641.8
4250.9
4074.0
3814.4
3460.7
3169.7
2975.7
2833.0
2750.3
2544.9
2447.9
2330.9
2216.8
2082.7
1940.0
1797.4
1631.9
1483.5
1398.0
1058.5
841.6
641.9
370.9
0.0

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