

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: P954202

Luminaire Tested: **GALN-SB7C-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56006 lumens
Efficiency: N/A
Efficacy: 159.8 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

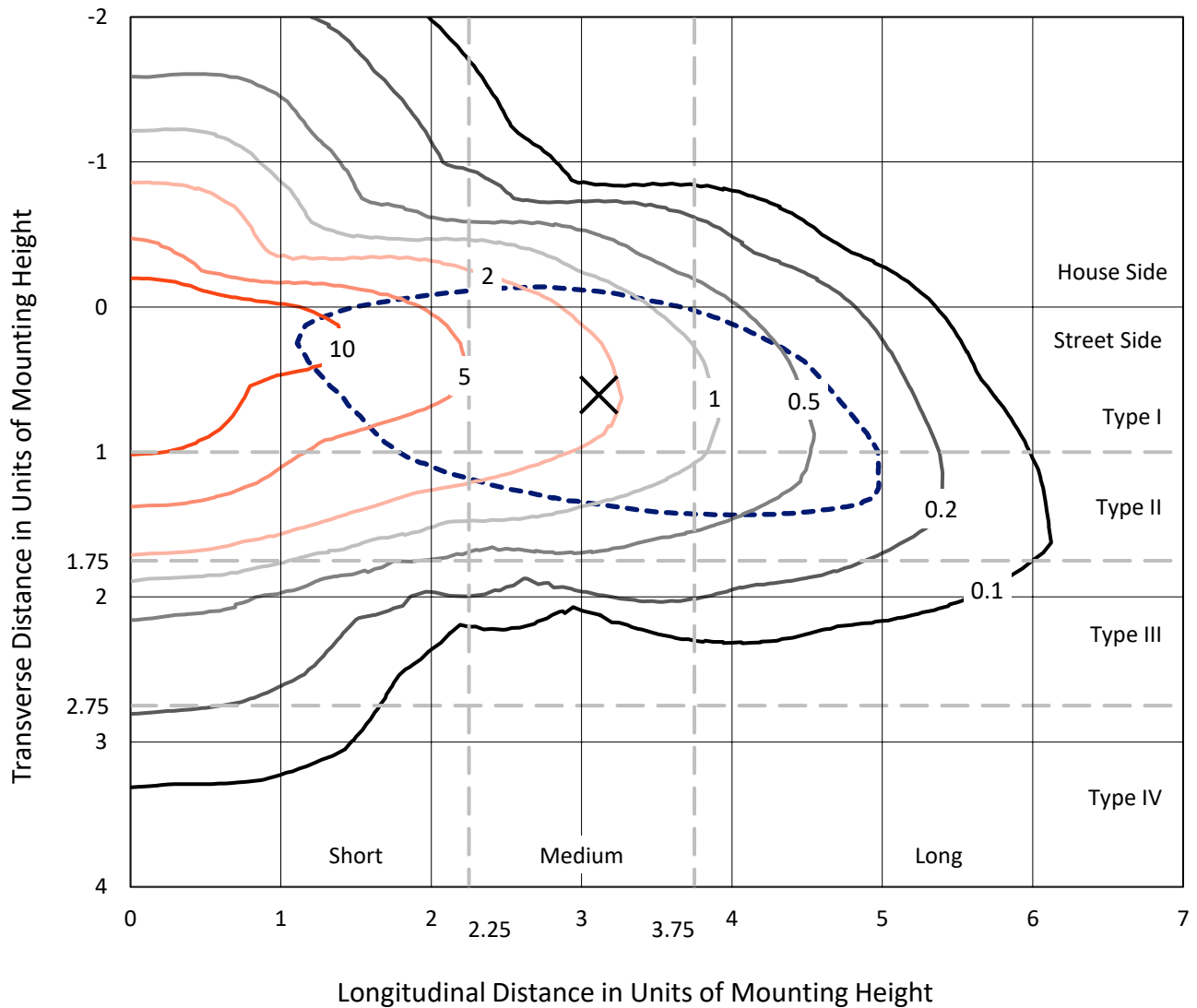
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

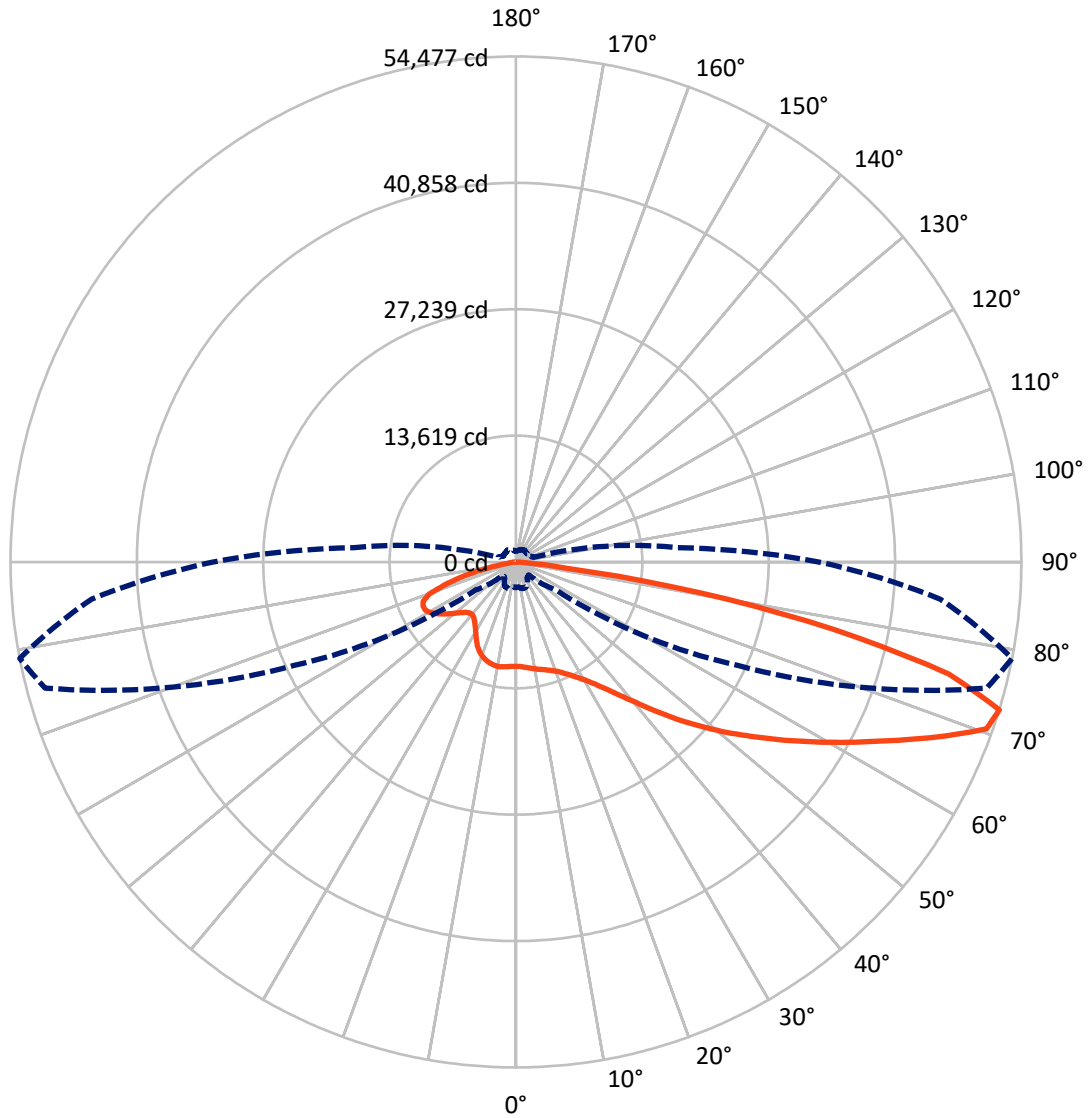
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12324.4	0.0	12324.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	43681.6	0.0	43681.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	56006.0	0.0	56006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1020.5	1.8
10°-20°	2668.1	4.8
20°-30°	4305.3	7.7
30°-40°	6461.6	11.5
40°-50°	9166.1	16.4
50°-60°	11575.6	20.7
60°-70°	11756.6	21.0
70°-80°	8012.6	14.3
80°-90°	1039.6	1.9
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°	56006.0	100.0
0°-180°	56006.0	100.0

Coefficient of Utilization



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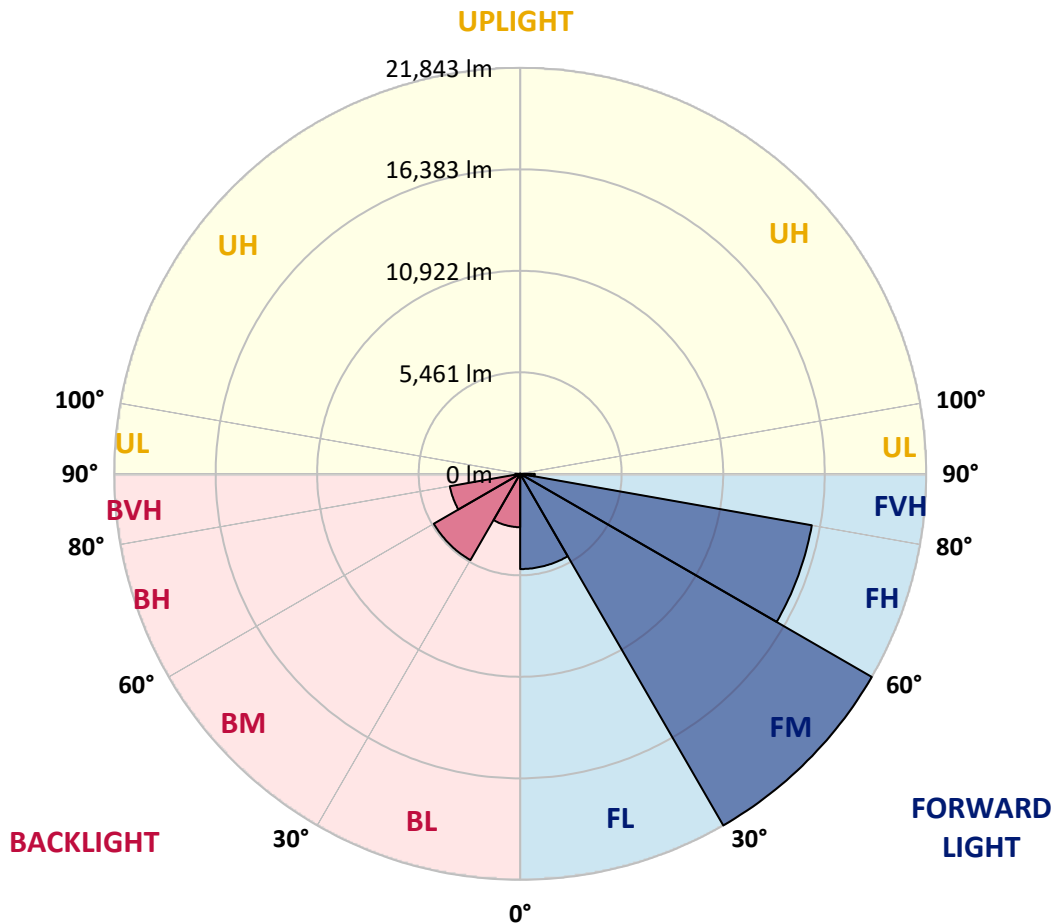
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5123.2	9.1			
FM (30°-60°)	21843.5	39.0			
FH (60°-80°)	15931.8	28.4			G5
FVH (80°-90°)	783.1	1.4			G5
BL (0°-30°)	2870.7	5.1	B4/5000		
BM (30°-60°)	5359.8	9.6	B4/8500		
BH (60°-80°)	3837.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	256.5	0.5			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°	79°
0°	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7
2.5°	11248.6	11195.3	11227.9	11216.0	11230.8	11248.6	11254.5	11263.4	11293.0	11290.1
5°	11224.9	11171.6	11216.0	11201.2	11239.7	11281.2	11316.7	11349.3	11396.7	11417.5
7.5°	11174.5	11139.0	11183.4	11227.9	11299.0	11361.2	11411.5	11485.6	11553.7	11565.6
10°	10881.2	10854.6	10958.3	11073.8	11269.3	11438.2	11547.8	11633.7	11707.8	11719.6
12.5°	10576.1	10543.5	10659.1	10816.1	11133.1	11438.2	11669.3	11781.8	11847.0	11885.5
15°	10525.7	10499.1	10564.3	10700.5	10964.2	11358.2	11752.2	11959.6	12015.9	12060.3
17.5°	10768.7	10718.3	10745.0	10792.4	10946.4	11284.1	11817.4	12161.0	12247.0	12294.4
20°	11331.5	11260.4	11219.0	11124.2	11097.5	11296.0	11811.5	12404.0	12516.5	12575.8
22.5°	12081.1	12033.7	11944.8	11704.8	11444.1	11441.2	11924.0	12715.0	12925.4	12981.7
25°	12987.6	12916.5	12803.9	12478.0	11977.4	11728.5	12113.6	13112.0	13464.5	13479.4
27.5°	14030.4	13923.7	13769.7	13340.1	12664.7	12178.8	12404.0	13568.2	14083.7	14077.8
30°	15129.5	15022.8	14859.9	14338.5	13488.2	12786.1	12806.9	14060.0	14818.4	14785.8
32.5°	15932.3	15852.3	15819.7	15416.8	14436.2	13503.1	13269.0	14605.1	15724.9	15695.3
35°	16548.5	16444.8	16483.3	16278.9	15470.2	14305.9	13834.9	15253.9	16827.0	16824.0
37.5°	17158.8	17066.9	17099.5	16963.3	16427.0	15325.0	14525.1	16047.8	18192.7	18257.9
40°	17715.7	17618.0	17748.3	17620.9	17170.6	16409.3	15310.2	16945.5	19774.7	19899.1
42.5°	18050.5	17973.5	18189.7	18192.7	17816.5	17324.7	16172.3	17935.0	21605.5	21884.0
45°	18166.0	18139.4	18465.2	18533.4	18388.2	17855.0	16948.4	19013.3	23578.5	24076.2
47.5°	18041.6	17991.2	18441.5	18693.3	18808.9	18103.8	17591.3	20180.5	25593.0	26321.8
50°	17413.6	17315.8	17985.3	18515.6	18927.4	18266.7	18240.1	21528.5	27883.0	28679.9
52.5°	16284.8	16210.8	16972.1	17893.5	18666.7	18346.7	18968.9	23000.8	30057.5	31088.4
55°	14842.1	14744.3	15582.7	16785.5	18017.9	18320.1	19697.6	24648.0	32623.0	33668.8
57.5°	12555.1	12359.5	13420.1	14842.1	16960.3	18287.5	20456.0	26286.2	35230.0	36483.1
60°	9219.3	8929.0	10229.5	11915.2	14892.5	17970.5	21395.1	28123.0	38358.4	39487.1
62.5°	5368.0	5199.2	6049.4	7622.5	11224.9	16104.1	21922.5	30258.9	41433.5	42618.5
65°	4168.2	4120.8	4194.9	4316.4	6247.9	12057.4	20296.1	32341.6	45344.0	46173.5
67.5°	3812.7	3777.2	3809.8	3581.7	3169.9	6716.0	16056.7	32868.9	49532.9	50036.6
70°	3389.1	3347.6	3454.3	3258.7	2494.4	3054.3	10374.7	30955.1	52865.7	53810.8
72.5°	2761.0	2713.6	2962.5	2873.6	2100.4	1961.2	5211.0	26407.7	52516.2	54477.3
75°	2121.1	2094.5	2390.7	2464.8	1712.3	1543.5	2500.3	19629.5	46214.9	48190.9
77.5°	1647.1	1626.4	1777.5	2047.1	1380.5	1196.8	1537.5	12451.4	34827.1	35173.7
80°	1235.4	1176.1	1315.3	1584.9	1075.4	873.9	1042.8	7261.1	22014.3	19955.4
82.5°	773.2	743.6	859.1	1057.6	758.4	601.4	678.4	4011.2	8822.3	5196.2
85°	441.4	429.6	468.1	604.3	411.8	346.6	388.1	1771.6	1611.6	1108.0
87.5°	177.7	171.8	213.3	269.6	151.1	127.4	136.3	426.6	355.5	328.8
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°
11242.7	0°	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7	11242.7
11287.1	2.5°	11275.3	11275.3	11233.8	11168.6	11094.5	11047.1	10970.1	10949.4	10869.4	10845.7
11387.8	5°	11411.5	11387.8	11260.4	11076.8	10825.0	10593.9	10339.1	10179.1	9954.0	9874.0
11586.3	7.5°	11583.4	11518.2	11299.0	10896.1	10368.7	9850.3	9311.1	8902.3	8511.3	8372.0
11749.3	10°	11740.4	11648.5	11275.3	10570.2	9657.7	8760.1	7901.0	7299.6	6843.4	6656.7
11930.0	12.5°	11897.4	11728.5	11118.2	10028.0	8647.5	7429.9	6514.5	6046.5	5765.0	5539.9
12078.1	15°	12045.5	11808.5	10875.3	9302.2	7539.6	6304.2	5628.7	5255.5	5030.3	4882.2
12294.4	17.5°	12217.3	11876.6	10510.9	8380.9	6484.9	5525.1	4974.0	4748.9	4704.4	4686.7
12590.6	20°	12457.3	11938.9	10031.0	7350.0	5708.7	4902.9	4618.5	4597.8	4594.8	4585.9
12946.1	22.5°	12715.0	12012.9	9397.0	6413.8	5048.1	4514.8	4464.5	4423.0	4396.3	4393.4
13375.7	25°	13020.2	12036.6	8603.1	5646.5	4485.2	4331.2	4271.9	4209.7	4191.9	4191.9
13864.5	27.5°	13316.4	11956.6	7678.8	4980.0	4168.2	4162.3	4085.3	4064.5	4061.6	4070.5
14421.4	30°	13612.7	11805.5	6760.4	4363.8	3984.6	3984.6	3957.9	3972.7	3984.6	4014.2
15185.8	32.5°	14012.6	11645.6	5993.1	3907.5	3824.6	3795.0	3821.6	3851.2	3863.1	3901.6
16190.0	35°	14599.2	11533.0	5382.9	3658.7	3658.7	3620.2	3635.0	3629.1	3602.4	3584.6
17404.7	37.5°	15375.4	11527.1	4879.2	3543.1	3519.4	3513.5	3516.5	3478.0	3374.3	3249.9
18874.1	40°	16308.5	11687.0	4491.1	3463.2	3445.4	3480.9	3463.2	3359.5	3075.1	2858.8
20681.2	42.5°	17561.7	12143.3	4242.3	3365.4	3418.7	3463.2	3392.1	3033.6	2841.0	2695.9
22740.1	45°	19037.0	12883.9	4114.9	3261.7	3368.4	3421.7	3078.0	2921.0	2767.0	2592.2
24985.7	47.5°	20707.8	13817.1	4085.3	3163.9	3255.8	3288.4	2944.7	2873.6	2698.8	2509.2
27243.1	50°	22526.8	14922.1	4165.3	3048.4	3092.8	2980.3	2900.3	2835.1	2654.4	2467.8
29556.8	52.5°	24408.0	16139.7	4325.2	2891.4	2929.9	2805.5	2882.5	2826.2	2627.7	2375.9
31947.6	55°	26256.6	17366.2	4479.3	2707.7	2764.0	2648.5	2832.1	2790.7	2506.3	2221.9
34498.3	57.5°	28134.8	18586.7	4630.4	2544.8	2604.0	2497.4	2752.2	2695.9	2370.0	2079.7
37283.0	60°	30087.1	19771.7	4701.5	2387.8	2429.2	2358.1	2630.7	2532.9	2215.9	1934.5
40020.4	62.5°	31915.0	20758.2	4585.9	2230.8	2257.4	2227.8	2470.7	2340.4	2061.9	1771.6
42873.2	65°	33748.8	21344.8	4230.4	2076.7	2082.6	2067.8	2245.6	2133.0	1881.2	1629.4
45370.6	67.5°	35410.7	21673.6	3664.6	1910.8	1896.0	1890.1	2035.2	1907.8	1706.4	1487.2
47269.6	70°	35763.3	20838.2	2799.6	1715.3	1715.3	1700.5	1804.2	1673.8	1513.8	1336.1
45909.8	72.5°	32664.5	17529.1	1987.8	1493.1	1516.8	1487.2	1573.1	1463.5	1318.3	1199.8
39567.1	75°	26339.6	12854.3	1445.7	1265.0	1306.5	1256.1	1336.1	1259.1	1134.6	1131.7
27266.8	77.5°	18097.9	7948.4	1048.7	1042.8	1072.4	1007.2	1099.1	1057.6	945.0	894.7
11867.8	80°	7723.2	3169.9	764.3	805.8	805.8	746.5	853.2	865.0	767.3	743.6
2290.0	82.5°	1537.5	900.6	536.2	554.0	521.4	503.6	604.3	669.5	924.3	1028.0
690.3	85°	462.1	331.8	322.9	302.2	266.6	269.6	355.5	672.5	829.5	474.0
228.1	87.5°	127.4	82.9	85.9	68.1	56.3	74.1	121.5	509.5	278.5	118.5
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>
11242.7
10884.2
9933.2
8389.8
6698.2
5613.9
4908.9
4698.5
4615.6
4426.0
4209.7
4094.2
4034.9
3934.2
3626.1
3252.8
2852.9
2689.9
2580.3
2494.4
2447.0
2358.1
2207.1
2073.7
1925.6
1768.6
1611.6
1469.4
1330.2
1164.3
1019.1
838.4
743.6
1030.9
408.8
100.7
0.0

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