

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: P956680

Luminaire Tested: **GALN-SB9B-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956680
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-SB9B-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50979 lumens
Efficiency: N/A
Efficacy: 154.7 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

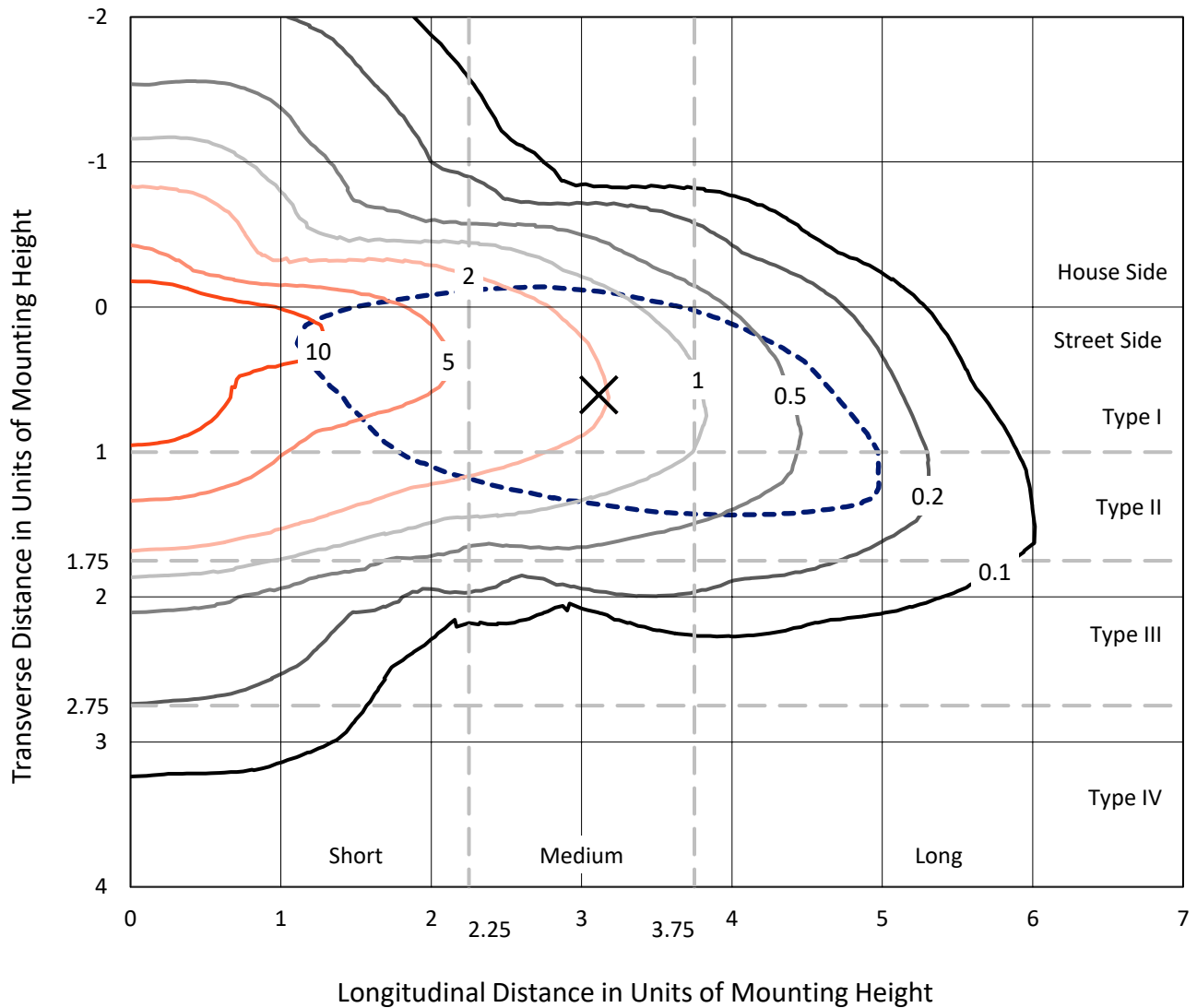
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

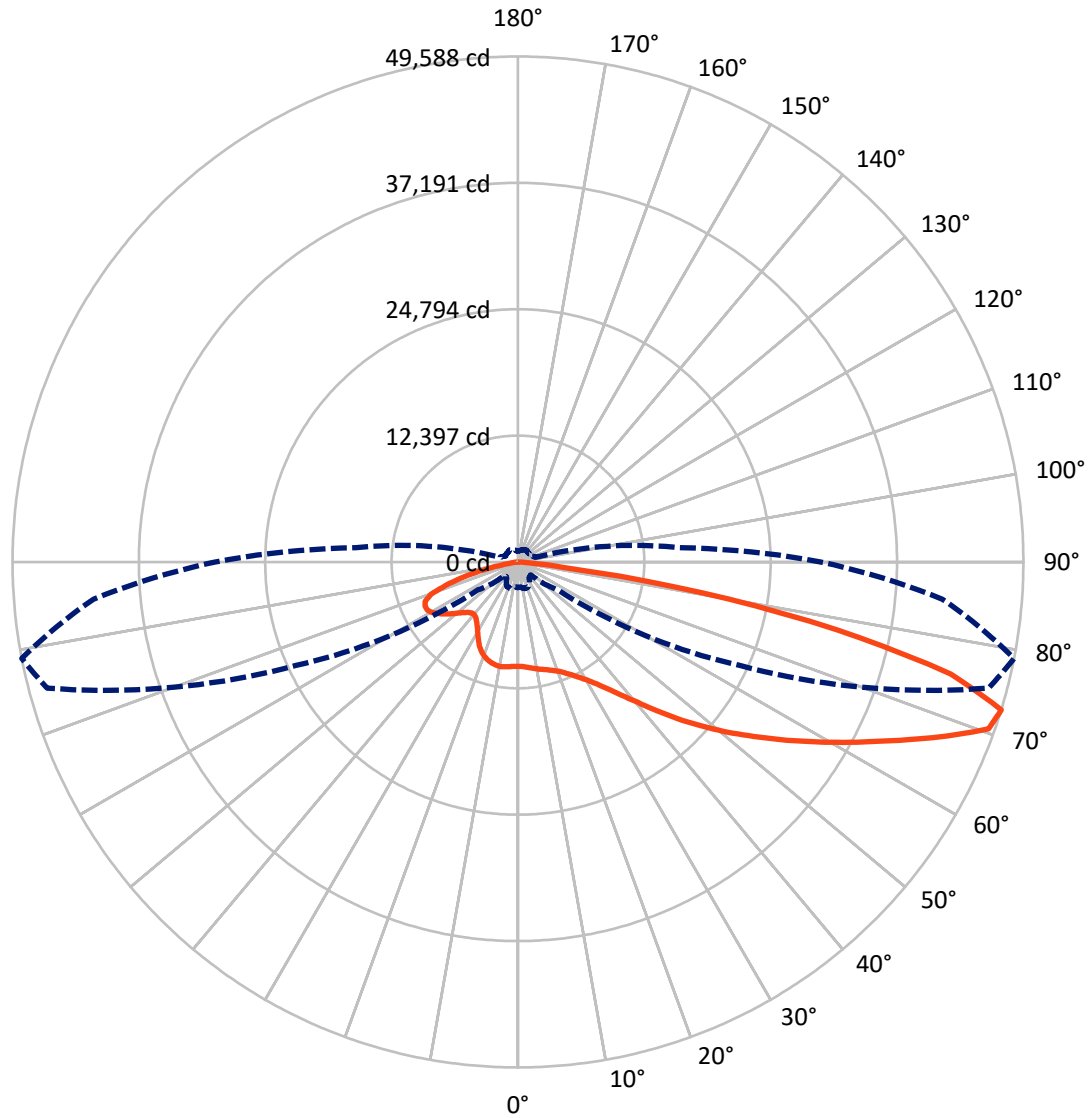
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	11218.2	0.0	11218.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	39760.8	0.0	39760.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	50979.0	0.0	50979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.9	1.8
10°-20°	2428.6	4.8
20°-30°	3918.8	7.7
30°-40°	5881.6	11.5
40°-50°	8343.4	16.4
50°-60°	10536.6	20.7
60°-70°	10701.3	21.0
70°-80°	7293.4	14.3
80°-90°	946.3	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°	50979.0	100.0
0°-180°	50979.0	100.0

Coefficient of Utilization



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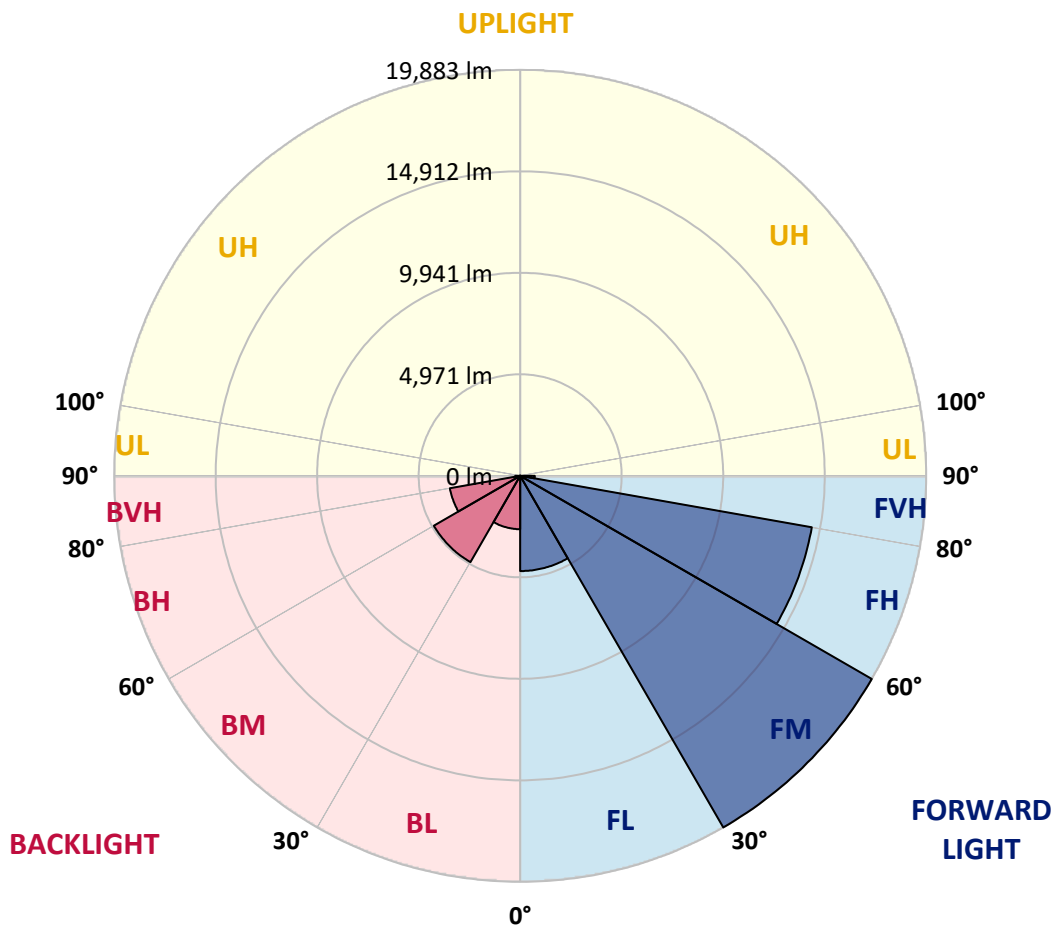
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4663.3	9.1			
FM (30°-60°)	19882.9	39.0			
FH (60°-80°)	14501.8	28.4			G5
FVH (80°-90°)	712.8	1.4			G4/750
BL (0°-30°)	2613.0	5.1	B4/5000		
BM (30°-60°)	4878.7	9.6	B3/5000		
BH (60°-80°)	3493.0	6.9	B4/5000		G4/5000
BVH (80°-90°)	233.4	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°	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5
2.5°	10238.9	10190.4	10220.1	10209.3	10222.8	10238.9	10244.3	10252.4	10279.4	10276.7	
5°	10217.4	10168.8	10209.3	10195.8	10230.9	10268.6	10301.0	10330.6	10373.8	10392.6	
7.5°	10171.5	10139.2	10179.6	10220.1	10284.8	10341.4	10387.3	10454.7	10516.7	10527.5	
10°	9904.6	9880.3	9974.7	10079.8	10257.8	10411.5	10511.3	10589.5	10656.9	10667.7	
12.5°	9626.8	9597.2	9702.3	9845.2	10133.8	10411.5	10621.9	10724.3	10783.7	10818.7	
15°	9581.0	9556.7	9616.0	9740.1	9980.1	10338.7	10697.4	10886.1	10937.4	10977.8	
17.5°	9802.1	9756.3	9780.5	9823.7	9963.9	10271.3	10756.7	11069.5	11147.7	11190.8	
20°	10314.4	10249.7	10212.0	10125.7	10101.4	10282.1	10751.3	11290.6	11393.1	11447.0	
22.5°	10996.7	10953.5	10872.6	10654.2	10416.9	10414.2	10853.8	11573.8	11765.2	11816.4	
25°	11821.8	11757.1	11654.7	11358.0	10902.3	10675.8	11026.3	11935.1	12256.0	12269.5	
27.5°	12771.0	12674.0	12533.7	12142.7	11527.9	11085.7	11290.6	12350.4	12819.6	12814.2	
30°	13771.5	13674.4	13526.1	13051.5	12277.6	11638.5	11657.3	12798.0	13488.3	13458.7	
32.5°	14502.2	14429.4	14399.8	14033.0	13140.5	12291.0	12078.0	13294.2	14313.5	14286.5	
35°	15063.1	14968.8	15003.8	14817.7	14081.6	13021.8	12593.1	13884.7	15316.6	15313.9	
37.5°	15618.6	15535.0	15564.7	15440.7	14952.6	13949.4	13221.4	14607.4	16559.7	16619.1	
40°	16125.6	16036.6	16155.3	16039.3	15629.4	14936.4	13936.0	15424.5	17999.7	18113.0	
42.5°	16430.3	16360.2	16557.0	16559.7	16217.3	15769.6	14720.7	16325.1	19666.2	19919.7	
45°	16535.5	16511.2	16807.8	16869.9	16737.7	16252.3	15427.2	17306.7	21462.1	21915.2	
47.5°	16422.2	16376.4	16786.3	17015.5	17120.6	16478.8	16012.3	18369.2	23295.8	23959.2	
50°	15850.5	15761.6	16371.0	16853.7	17228.5	16627.2	16602.9	19596.1	25380.3	26105.7	
52.5°	14823.1	14755.7	15448.7	16287.4	16991.2	16700.0	17266.2	20936.3	27359.6	28298.0	
55°	13509.9	13420.9	14184.1	15278.9	16400.6	16675.7	17929.6	22435.6	29694.8	30646.7	
57.5°	11428.1	11250.2	12215.5	13509.9	15438.0	16646.0	18619.9	23926.8	32067.8	33208.5	
60°	8391.8	8127.5	9311.3	10845.7	13555.7	16357.5	19474.8	25598.7	34915.4	35942.8	
62.5°	4886.2	4732.5	5506.4	6938.3	10217.4	14658.6	19954.7	27542.9	37714.5	38793.1	
65°	3794.1	3751.0	3818.4	3928.9	5687.1	10975.1	18474.3	29438.6	41274.0	42029.0	
67.5°	3470.5	3438.1	3467.8	3260.2	2885.3	6113.2	14615.5	29918.6	45086.9	45545.4	
70°	3084.9	3047.1	3144.2	2966.2	2270.5	2780.2	9443.4	28176.6	48120.6	48980.8	
72.5°	2513.2	2470.1	2696.6	2615.7	1911.9	1785.1	4743.3	24037.4	47802.4	49587.5	
75°	1930.8	1906.5	2176.1	2243.6	1558.6	1404.9	2275.9	17867.6	42066.8	43865.4	
77.5°	1499.3	1480.4	1618.0	1863.3	1256.6	1089.4	1399.5	11333.8	31701.1	32016.6	
80°	1124.5	1070.5	1197.3	1442.7	978.9	795.5	949.2	6609.3	20038.3	18164.2	
82.5°	703.8	676.8	782.0	962.7	690.3	547.4	617.5	3651.2	8030.4	4729.8	
85°	401.8	391.0	426.1	550.1	374.8	315.5	353.3	1612.6	1466.9	1008.5	
87.5°	161.8	156.4	194.2	245.4	137.5	116.0	124.0	388.3	323.6	299.3	
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°
10233.5	0°	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5	10233.5
10274.0	2.5°	10263.2	10263.2	10225.5	10166.1	10098.7	10055.6	9985.5	9966.6	9893.8	9872.2
10365.7	5°	10387.3	10365.7	10249.7	10082.5	9853.3	9643.0	9411.1	9265.5	9060.5	8987.7
10546.4	7.5°	10543.7	10484.3	10284.8	9918.0	9438.1	8966.2	8475.4	8103.2	7747.3	7620.6
10694.7	10°	10686.6	10603.0	10263.2	9621.4	8790.9	7973.8	7191.8	6644.4	6229.1	6059.2
10859.2	12.5°	10829.5	10675.8	10120.3	9127.9	7871.3	6763.0	5929.8	5503.7	5247.6	5042.6
10994.0	15°	10964.3	10748.6	9899.2	8467.3	6862.8	5738.3	5123.5	4783.7	4578.8	4444.0
11190.8	17.5°	11120.7	10810.6	9567.5	7628.6	5902.8	5029.1	4527.6	4322.6	4282.2	4266.0
11460.5	20°	11339.2	10867.2	9130.6	6690.2	5196.3	4462.9	4204.0	4185.1	4182.4	4174.3
11784.1	22.5°	11573.8	10934.7	8553.6	5838.1	4595.0	4109.6	4063.8	4026.0	4001.7	3999.0
12175.1	25°	11851.5	10956.2	7830.9	5139.7	4082.6	3942.4	3888.5	3831.9	3815.7	3815.7
12620.0	27.5°	12121.2	10883.4	6989.6	4533.0	3794.1	3788.7	3718.6	3699.7	3697.0	3705.1
13127.0	30°	12390.8	10745.9	6153.6	3972.1	3626.9	3626.9	3602.6	3616.1	3626.9	3653.9
13822.7	32.5°	12754.9	10600.3	5455.2	3556.8	3481.3	3454.3	3478.6	3505.6	3516.4	3551.4
14736.9	35°	13288.8	10497.8	4899.7	3330.3	3330.3	3295.2	3308.7	3303.3	3279.1	3262.9
15842.5	37.5°	13995.3	10492.4	4441.3	3225.1	3203.5	3198.2	3200.8	3165.8	3071.4	2958.2
17180.0	40°	14844.7	10638.0	4088.0	3152.3	3136.1	3168.5	3152.3	3057.9	2799.1	2602.2
18824.9	42.5°	15985.4	11053.3	3861.5	3063.3	3111.9	3152.3	3087.6	2761.3	2586.0	2453.9
20699.0	45°	17328.3	11727.5	3745.6	2968.9	3066.0	3114.6	2801.8	2658.8	2518.6	2359.5
22743.0	47.5°	18849.1	12576.9	3718.6	2880.0	2963.5	2993.2	2680.4	2615.7	2456.6	2284.0
24797.8	50°	20504.9	13582.7	3791.4	2774.8	2815.2	2712.8	2640.0	2580.6	2416.1	2246.3
26903.9	52.5°	22217.2	14691.0	3937.0	2631.9	2666.9	2553.7	2623.8	2572.5	2391.9	2162.7
29080.0	55°	23899.9	15807.4	4077.2	2464.7	2515.9	2410.7	2577.9	2540.2	2281.3	2022.4
31401.8	57.5°	25609.5	16918.4	4214.8	2316.4	2370.3	2273.2	2505.1	2453.9	2157.3	1893.0
33936.6	60°	27386.5	17997.0	4279.5	2173.4	2211.2	2146.5	2394.6	2305.6	2017.0	1760.9
36428.2	62.5°	29050.3	18895.0	4174.3	2030.5	2054.8	2027.8	2249.0	2130.3	1876.8	1612.6
39025.0	65°	30719.5	19428.9	3850.7	1890.3	1895.7	1882.2	2044.0	1941.5	1712.3	1483.1
41298.2	67.5°	32232.3	19728.2	3335.7	1739.3	1725.8	1720.4	1852.6	1736.6	1553.2	1353.7
43026.8	70°	32553.2	18967.8	2548.3	1561.3	1561.3	1547.8	1642.2	1523.6	1378.0	1216.2
41789.0	72.5°	29732.6	15955.7	1809.4	1359.1	1380.7	1353.7	1431.9	1332.1	1200.0	1092.1
36015.6	75°	23975.4	11700.5	1315.9	1151.4	1189.2	1143.4	1216.2	1146.0	1032.8	1030.1
24819.4	77.5°	16473.5	7234.9	954.6	949.2	976.2	916.8	1000.4	962.7	860.2	814.4
10802.5	80°	7030.0	2885.3	695.7	733.5	733.5	679.5	776.6	787.4	698.4	676.8
2084.5	82.5°	1399.5	819.8	488.1	504.3	474.6	458.4	550.1	609.4	841.3	935.7
628.3	85°	420.7	302.0	293.9	275.1	242.7	245.4	323.6	612.1	755.0	431.5
207.6	87.5°	116.0	75.5	78.2	62.0	51.2	67.4	110.6	463.8	253.5	107.9
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>
10233.5
9907.3
9041.7
7636.7
6097.0
5110.0
4468.2
4276.8
4201.3
4028.7
3831.9
3726.7
3672.8
3581.1
3300.6
2960.9
2596.8
2448.5
2348.7
2270.5
2227.4
2146.5
2009.0
1887.6
1752.8
1609.9
1466.9
1337.5
1210.8
1059.8
927.6
763.1
676.8
938.4
372.1
91.7
0.0

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