

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: P944534

Luminaire Tested: **GALN-SB9C-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52699 lumens
Efficiency: N/A
Efficacy: 117.2 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

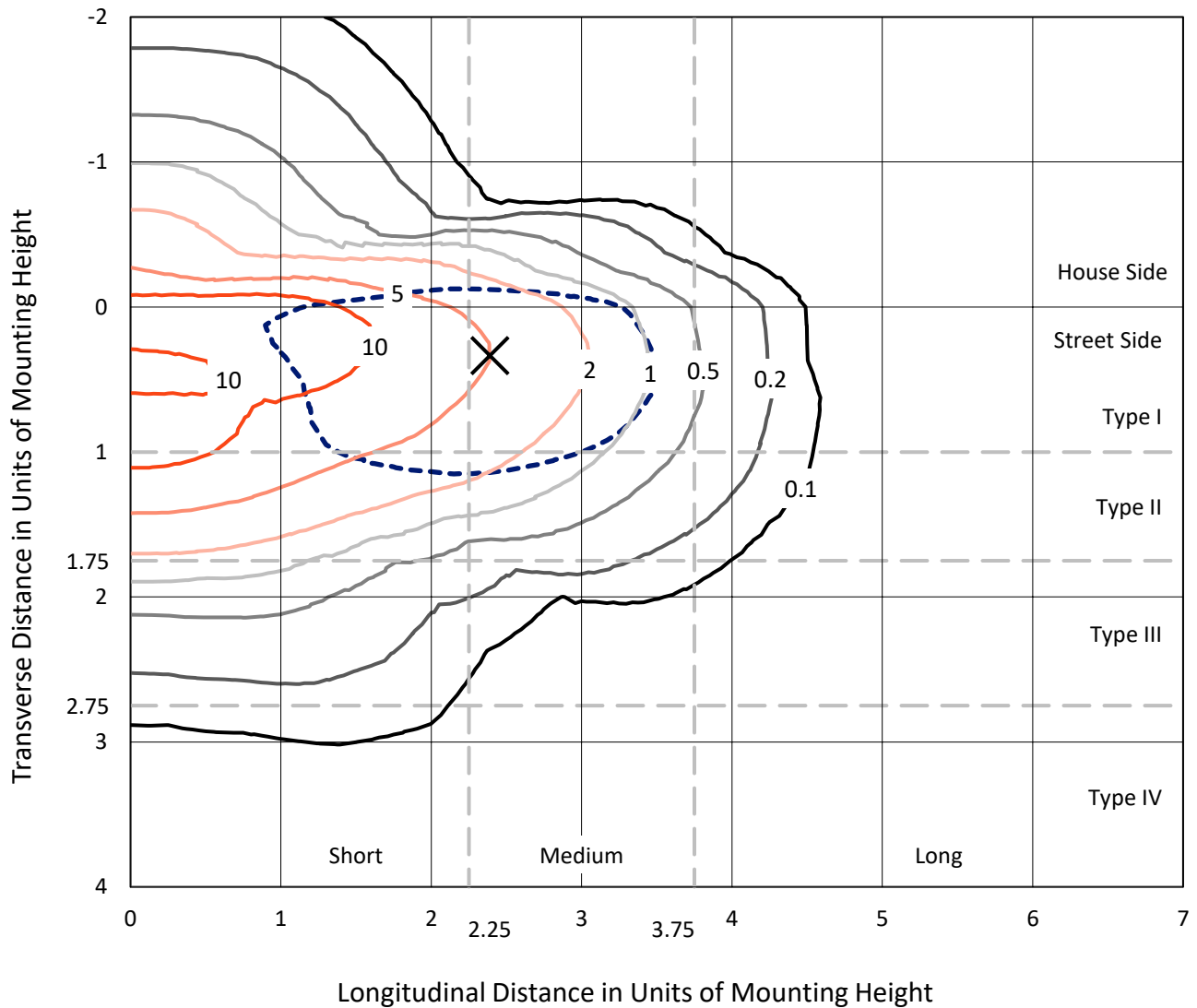
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

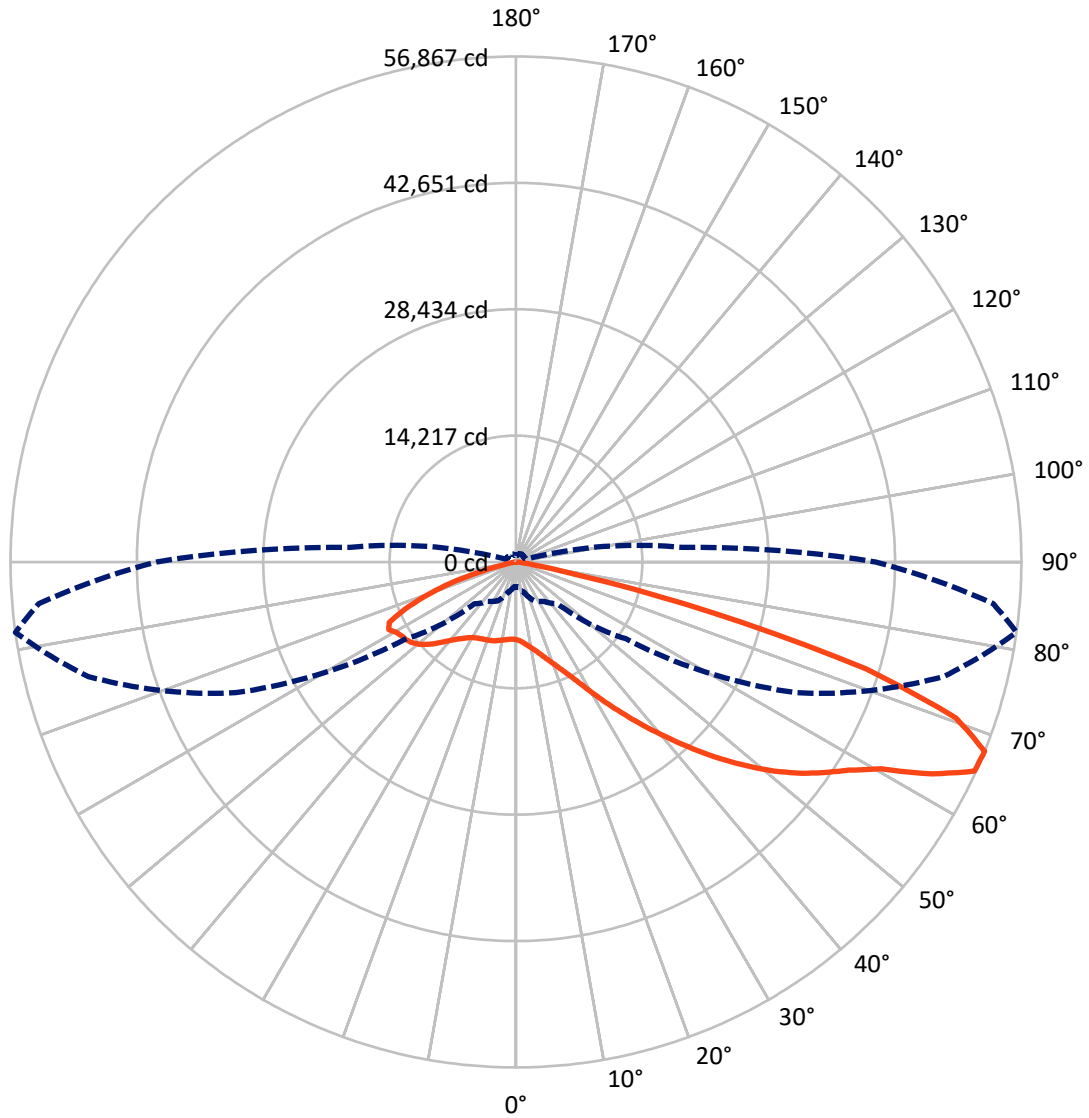
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9546.0	0.0	9546.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	43153.0	0.0	43153.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	52699.0	0.0	52699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.8	1.5
10°-20°	2021.2	3.8
20°-30°	3237.4	6.1
30°-40°	5724.7	10.9
40°-50°	10030.2	19.0
50°-60°	13377.4	25.4
60°-70°	12453.7	23.6
70°-80°	4779.7	9.1
80°-90°	296.9	0.6
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°	52699.0	100.0
0°-180°	52699.0	100.0

Coefficient of Utilization



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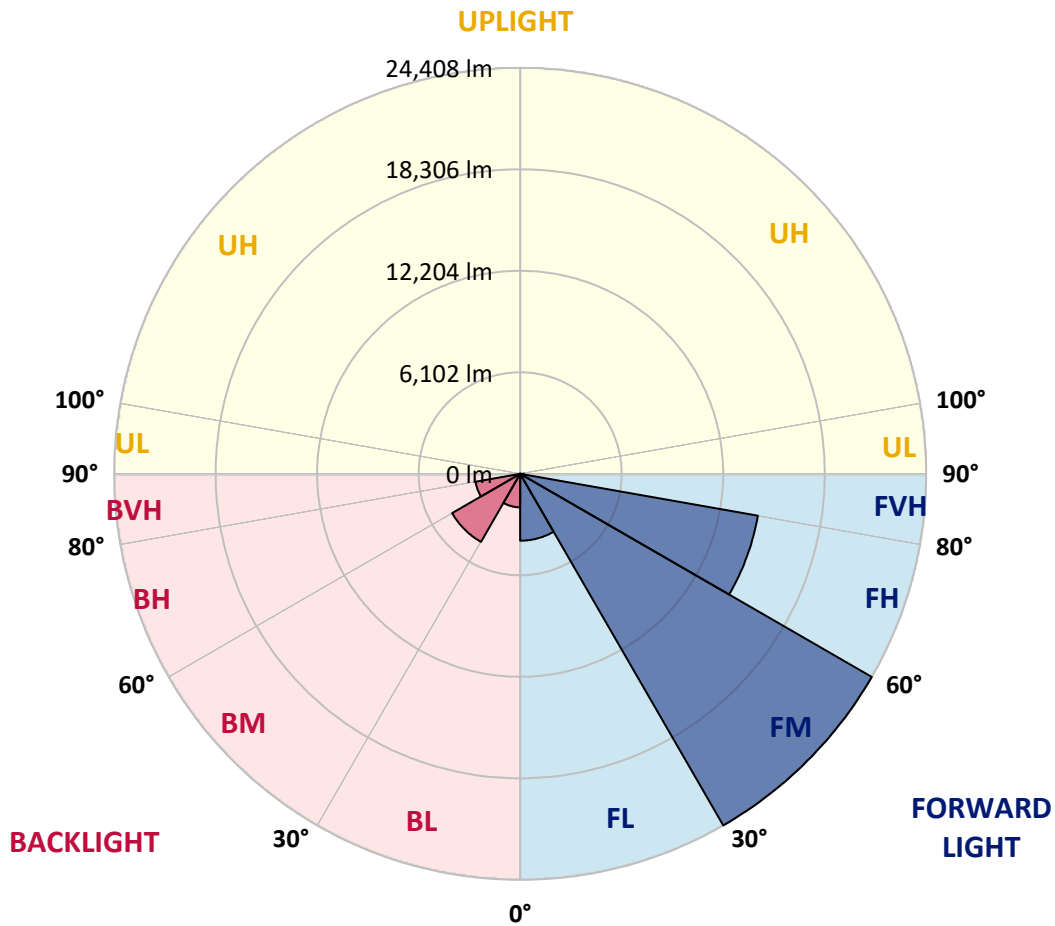
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4020.3	7.6			
FM (30°-60°)	24408.0	46.3			
FH (60°-80°)	14508.8	27.5			G5
FVH (80°-90°)	215.8	0.4			G2/225
BL (0°-30°)	2016.1	3.8	B3/2500		
BM (30°-60°)	4724.3	9.0	B3/5000		
BH (60°-80°)	2724.6	5.2	B4/5000		G4/5000
BVH (80°-90°)	81.0	0.2			G1/100
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°	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4
2.5°	9227.5	9280.6	9250.2	9235.1	9208.5	9170.6	9140.2	9045.4	8946.7	8882.2
5°	9413.4	9466.5	9462.7	9477.9	9496.9	9508.3	9500.7	9394.4	9254.0	9144.0
7.5°	9254.0	9314.7	9364.1	9440.0	9572.8	9713.1	9781.4	9758.7	9614.5	9462.7
10°	8802.5	8867.0	8984.7	9163.0	9443.7	9747.3	10001.5	10119.1	10028.1	9861.1
12.5°	7975.4	8039.9	8271.3	8658.4	9128.8	9656.2	10141.9	10456.8	10479.6	10312.6
15°	7045.8	7110.3	7356.9	7842.6	8559.7	9405.8	10217.8	10813.5	11014.5	10870.4
17.5°	6469.1	6526.0	6711.9	7102.7	7850.2	8905.0	10191.2	11192.9	11652.0	11538.1
20°	6294.6	6343.9	6431.2	6704.3	7326.6	8385.2	10016.7	11549.5	12338.7	12274.2
22.5°	6480.5	6526.0	6552.6	6674.0	7064.8	8043.7	9796.6	11913.8	13135.5	13143.1
25°	6909.2	6954.8	6924.4	7000.3	7171.0	7937.5	9713.1	12342.5	14137.2	14220.6
27.5°	7614.9	7618.7	7546.7	7542.9	7569.4	8096.8	9800.4	12801.6	15400.6	15556.2
30°	9030.2	8973.3	8696.3	8396.6	8260.0	8574.9	10043.2	13344.2	16891.8	17168.7
32.5°	11211.8	11128.4	10619.9	9902.8	9182.0	9345.1	10479.6	13962.6	18515.7	19016.5
35°	13579.4	13556.7	13025.5	11959.3	10699.6	10441.6	11189.1	14774.6	20287.6	21084.3
37.5°	15780.1	15768.7	15465.1	14209.3	12676.4	11970.7	12327.3	15837.0	22184.7	23338.1
40°	17791.0	17825.1	17521.6	16398.5	14854.3	13932.3	13875.4	17149.8	24294.2	25792.9
42.5°	19528.7	19566.7	19259.3	18428.4	17005.6	16102.6	15776.3	18758.5	26354.5	28429.9
45°	20708.7	20944.0	20898.4	20234.4	19213.8	18276.6	18060.4	20777.0	28703.1	31226.2
47.5°	21042.6	21258.9	21600.3	21691.4	21069.2	20147.2	20405.2	23209.1	31078.2	34026.3
50°	20219.3	20420.4	21129.9	22074.6	22507.2	22222.6	22685.5	25815.7	33510.3	36818.9
52.5°	18595.3	18800.2	19695.7	21190.6	22954.9	23850.3	24973.4	28384.4	35866.5	39463.4
55°	16246.7	16463.0	17612.6	19304.9	22101.2	24521.9	26881.9	30949.2	38025.4	41842.4
57.5°	13052.0	13211.4	14406.6	16774.1	19953.7	23854.1	28289.5	33749.4	40059.1	44179.6
60°	8506.6	8647.0	10035.6	12676.4	16394.7	21623.1	28570.3	36872.0	42760.6	47218.7
62.5°	5657.1	5752.0	6575.3	8514.2	11545.7	17339.5	26927.4	39364.8	46721.7	52507.9
65°	3881.5	3976.3	4799.7	6150.4	7459.4	11469.8	22203.6	39034.7	50311.0	56708.0
67.5°	2769.8	2849.4	3547.6	4822.4	5399.1	6662.6	15051.6	34815.5	49795.0	56867.4
70°	1984.4	2029.9	2606.6	3756.3	4291.2	4002.9	8370.0	26627.7	43599.1	52511.6
72.5°	1388.7	1403.9	1809.8	2860.8	3456.5	2921.5	3983.9	17753.0	32975.3	41216.3
75°	941.0	959.9	1217.9	2098.2	2773.6	2231.0	2109.6	9519.6	19358.0	22814.5
77.5°	576.7	584.3	785.4	1434.2	2075.4	1699.8	1358.3	4033.2	7489.7	7353.1
80°	326.3	326.3	500.8	891.6	1415.2	1096.5	952.3	1715.0	2371.4	2083.0
82.5°	182.1	185.9	364.2	554.0	937.2	648.8	523.6	793.0	1024.4	906.8
85°	75.9	83.5	223.9	261.8	447.7	322.5	212.5	333.9	379.4	337.7
87.5°	7.6	11.4	68.3	49.3	53.1	64.5	30.4	64.5	53.1	53.1
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°
8730.4	0°	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4	8730.4
8859.4	2.5°	8787.4	8730.4	8586.3	8419.3	8199.3	8093.0	7948.8	7850.2	7766.7	7774.3
9079.5	5°	8958.1	8813.9	8491.4	8089.2	7588.4	7231.7	6852.3	6590.5	6378.0	6332.5
9383.0	7.5°	9193.3	8965.7	8400.3	7675.7	6829.5	6188.3	5615.4	5247.4	4985.6	4902.1
9751.1	10°	9496.9	9166.8	8282.7	7155.9	5937.9	5122.2	4507.5	4219.1	4040.8	3980.1
10183.6	12.5°	9849.7	9398.2	8127.2	6522.2	5019.7	4234.3	3843.5	3699.3	3642.4	3623.5
10714.8	15°	10293.6	9686.6	7891.9	5771.0	4241.9	3691.8	3524.8	3505.8	3513.4	3505.8
11352.2	17.5°	10821.0	10001.5	7508.7	4997.0	3718.3	3414.8	3354.1	3369.2	3388.2	3384.4
12065.5	20°	11397.8	10312.6	7019.3	4310.2	3361.7	3217.5	3183.3	3198.5	3213.7	3206.1
12888.9	22.5°	12054.2	10646.5	6476.7	3775.2	3122.6	3035.4	2997.4	3001.2	3001.2	2986.0
13932.3	25°	12839.6	11014.5	5907.6	3395.8	2940.5	2872.2	2826.7	2811.5	2788.7	2743.2
15199.5	27.5°	13776.7	11405.3	5361.2	3130.2	2796.3	2731.8	2678.7	2640.8	2583.8	2508.0
16721.0	30°	14831.5	11879.6	4898.3	2963.3	2682.5	2618.0	2557.3	2500.4	2416.9	2322.0
18470.1	32.5°	16072.2	12388.0	4560.6	2853.2	2580.1	2511.8	2439.7	2371.4	2280.3	2185.5
20435.5	35°	17551.9	13002.7	4363.3	2777.4	2500.4	2409.3	2329.6	2253.8	2185.5	2102.0
22571.7	37.5°	19156.9	13655.3	4302.6	2739.4	2447.3	2306.9	2215.8	2162.7	2155.1	2105.8
24882.3	40°	20913.6	14429.3	4348.1	2716.6	2390.3	2208.2	2109.6	2098.2	2117.2	2029.9
27352.3	42.5°	22772.8	15347.5	4424.0	2690.1	2310.7	2109.6	2014.7	2014.7	1999.5	1878.1
29962.8	45°	24783.7	16406.1	4499.9	2625.6	2215.8	2010.9	1938.8	1912.3	1847.8	1730.2
32588.3	47.5°	26809.8	17483.6	4556.8	2508.0	2102.0	1927.5	1862.9	1802.2	1707.4	1601.1
35164.6	50°	28733.4	18451.2	4496.1	2333.4	1973.0	1847.8	1779.5	1696.0	1593.6	1521.5
37604.3	52.5°	30452.2	19289.7	4238.1	2128.5	1836.4	1764.3	1703.6	1616.3	1532.9	1457.0
39804.9	55°	31947.1	19968.8	3782.8	1935.0	1715.0	1692.2	1631.5	1521.5	1407.6	1343.1
41986.6	57.5°	33381.3	20484.9	3213.7	1775.7	1604.9	1612.5	1521.5	1422.8	1316.6	1248.3
44927.1	60°	35289.8	21175.4	2637.0	1627.7	1487.3	1510.1	1411.4	1339.4	1206.6	1119.3
49969.5	62.5°	38340.3	22249.2	2094.4	1445.6	1350.7	1358.3	1316.6	1229.3	1070.0	967.5
53706.8	65°	40761.0	21854.6	1650.5	1248.3	1195.2	1206.6	1206.6	1111.7	941.0	823.3
53907.9	67.5°	40487.8	18713.0	1316.6	1054.8	1047.2	1054.8	1081.3	1001.7	834.7	739.9
49802.6	70°	37296.9	14884.6	1054.8	876.5	910.6	891.6	967.5	914.4	751.3	656.4
38609.7	72.5°	30433.2	10722.4	804.4	724.7	698.1	728.5	872.7	823.3	626.0	519.8
20450.7	75°	17783.4	5721.6	599.5	572.9	504.6	607.1	774.0	701.9	478.1	383.2
6268.0	77.5°	5789.9	1995.7	440.1	421.2	375.6	489.5	660.2	591.9	390.8	303.5
1836.4	80°	1551.8	603.3	299.7	277.0	242.8	364.2	523.6	470.5	280.8	197.3
789.2	82.5°	622.2	254.2	174.5	155.6	132.8	250.4	413.6	379.4	208.7	125.2
246.6	85°	201.1	83.5	64.5	49.3	60.7	155.6	246.6	258.0	148.0	64.5
37.9	87.5°	26.6	11.4	11.4	15.2	11.4	26.6	75.9	72.1	41.7	7.6
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>
8730.4
7698.4
6230.1
4818.6
3934.6
3612.1
3502.0
3376.8
3202.3
2978.4
2735.6
2500.4
2314.5
2189.3
2094.4
2102.0
2033.7
1878.1
1726.4
1597.4
1510.1
1449.4
1335.6
1240.7
1107.9
959.9
812.0
724.7
645.0
508.4
371.8
292.2
193.5
125.2
49.3
0.0
0.0

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