

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: P952786

Luminaire Tested: **GALN-SB6C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49325 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

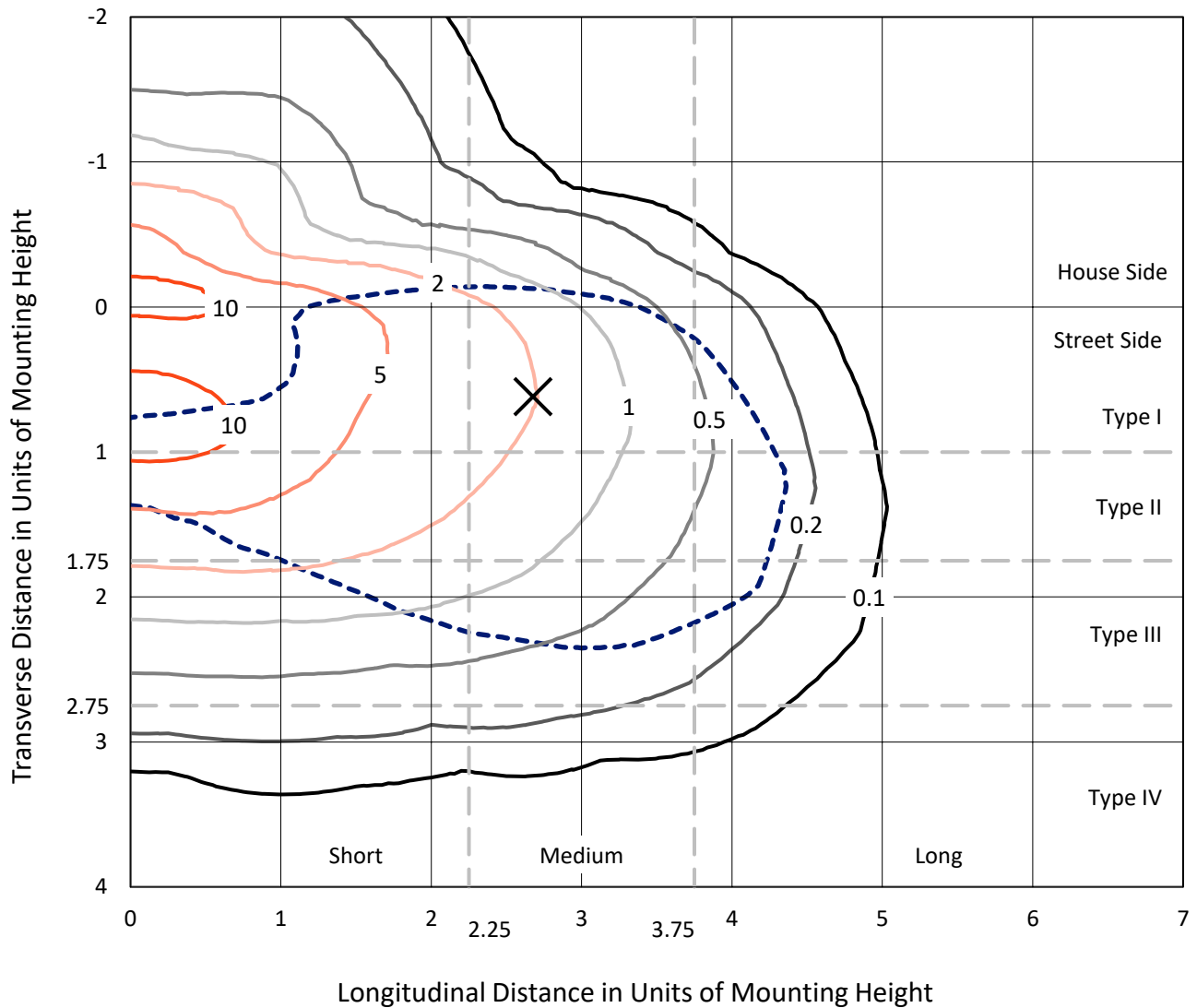
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

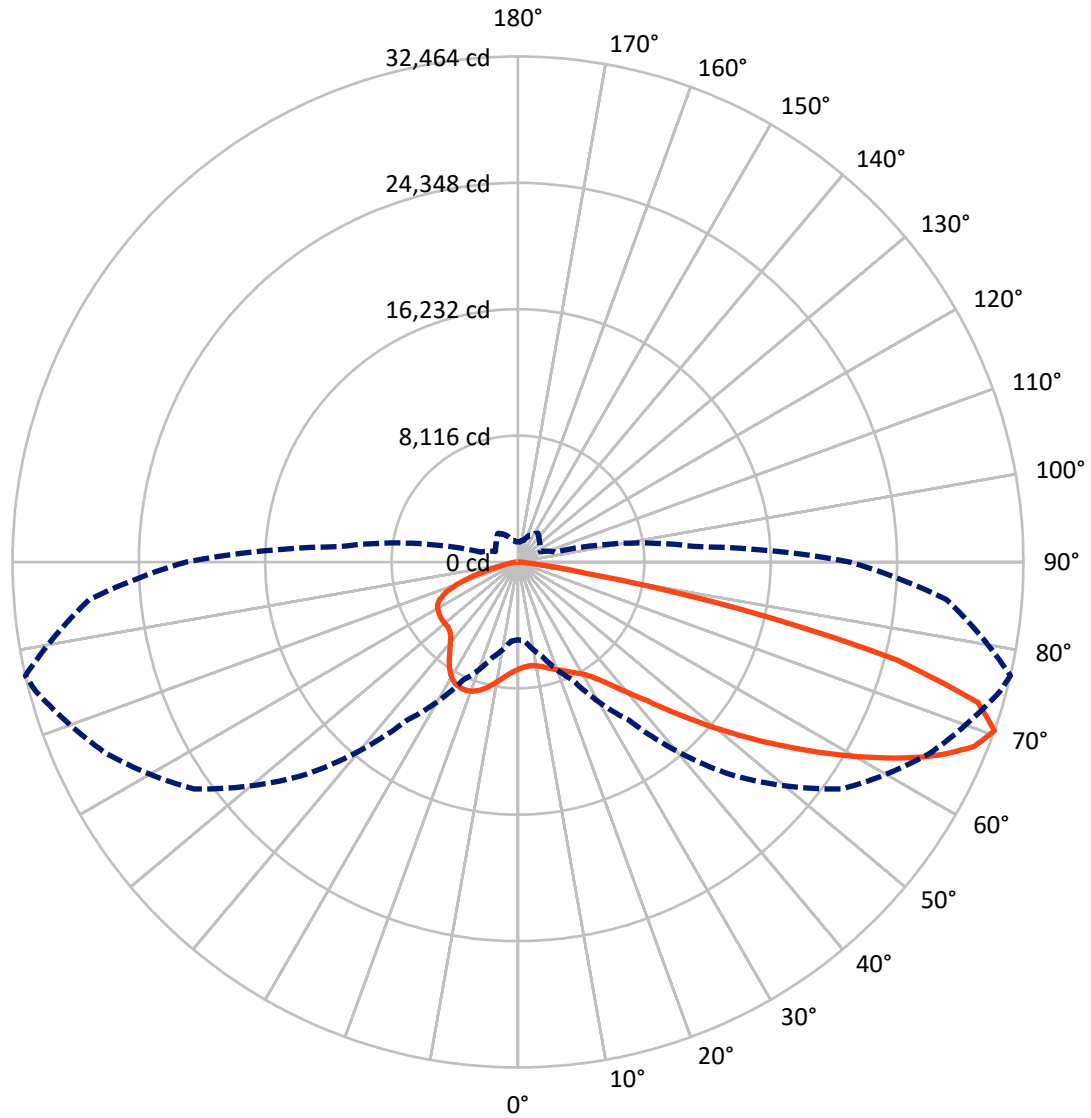
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10801.4	0.0	10801.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	38523.6	0.0	38523.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	49325.0	0.0	49325.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.3	1.3
10°-20°	1894.1	3.8
20°-30°	3239.2	6.6
30°-40°	5209.0	10.6
40°-50°	8132.6	16.5
50°-60°	10863.2	22.0
60°-70°	11578.5	23.5
70°-80°	7127.6	14.5
80°-90°	624.6	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°	49325.0	100.0
0°-180°	49325.0	100.0



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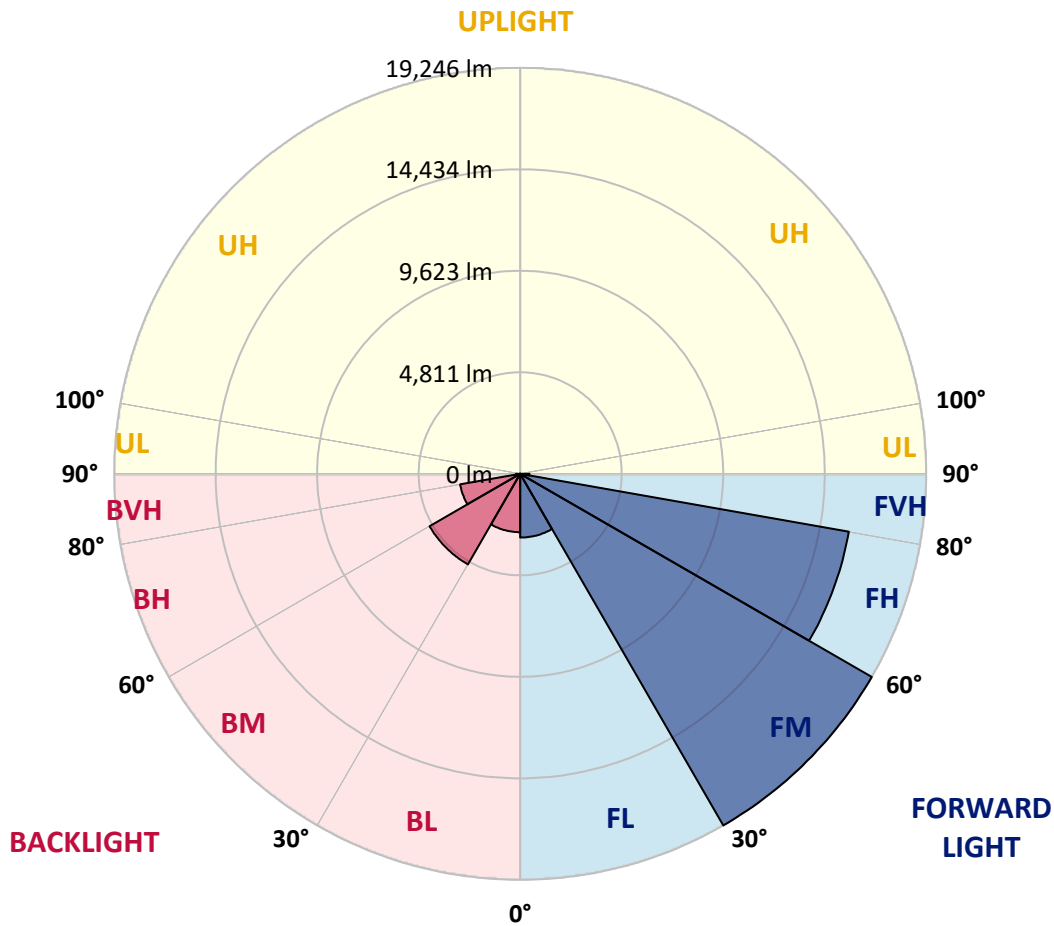
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3021.9	6.1			
FM (30°-60°)	19245.6	39.0			
FH (60°-80°)	15819.4	32.1			G5
FVH (80°-90°)	436.7	0.9			G3/500
BL (0°-30°)	2767.7	5.6	B4/5000		
BM (30°-60°)	4959.2	10.1	B3/5000		
BH (60°-80°)	2886.8	5.9	B4/5000		G4/5000
BVH (80°-90°)	187.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3
2.5°	6343.2	6340.7	6373.5	6383.6	6444.3	6487.2	6568.0	6653.9	6765.1	6777.7
5°	5976.9	5976.9	6014.8	6055.2	6133.5	6219.4	6343.2	6492.3	6684.2	6714.6
7.5°	5666.2	5686.4	5719.2	5797.6	5888.5	6012.3	6201.7	6413.9	6666.6	6714.6
10°	5416.1	5438.8	5479.3	5542.4	5678.8	5850.6	6098.2	6371.0	6709.5	6785.3
12.5°	5337.8	5360.5	5383.3	5431.3	5557.6	5759.7	6055.2	6391.2	6813.1	6888.9
15°	5519.7	5547.5	5529.8	5517.2	5582.8	5767.2	6075.4	6464.5	6941.9	7050.5
17.5°	5939.0	5949.1	5908.7	5790.0	5779.9	5878.4	6171.4	6565.5	7103.6	7222.3
20°	6616.0	6598.4	6515.0	6280.1	6146.2	6126.0	6335.6	6717.1	7270.3	7396.6
22.5°	7535.6	7515.4	7348.6	6977.3	6679.2	6482.2	6573.1	6914.1	7457.3	7598.7
25°	8682.4	8654.7	8409.6	7904.4	7442.1	6954.5	6896.4	7174.3	7687.1	7818.5
27.5°	10021.3	9998.6	9733.3	9066.4	8399.5	7601.2	7298.1	7480.0	7927.1	8076.2
30°	11461.2	11526.9	11057.0	10339.6	9495.9	8445.0	7838.7	7856.4	8237.8	8371.7
32.5°	13153.8	13267.4	12701.6	11792.2	10640.2	9362.0	8520.8	8381.8	8690.0	8801.2
35°	14831.1	14960.0	14490.1	13484.7	12158.5	10443.2	9233.2	8985.6	9291.3	9412.5
37.5°	16281.2	16452.9	16210.4	15336.4	13782.8	11746.7	10162.8	9695.4	10031.4	10183.0
40°	17425.5	17688.2	17670.6	17124.9	15697.6	13328.1	11342.5	10572.0	10950.9	11115.1
42.5°	18355.2	18582.5	18779.5	18751.8	17695.8	15124.2	12729.4	11711.3	11999.3	12188.8
45°	18996.8	19239.3	19663.7	20120.9	19618.2	17046.6	14318.3	13062.8	13325.5	13611.0
47.5°	19570.2	19845.6	20396.3	21121.3	21250.1	18976.6	16058.9	14636.6	14876.6	15172.2
50°	19620.8	19858.2	20712.1	21740.2	22409.7	20830.8	17928.2	16402.4	16627.3	16943.0
52.5°	18400.6	18774.5	20264.9	21722.5	22942.7	22381.9	19785.0	18238.9	18491.6	18870.5
55°	14283.0	14831.1	18953.9	21045.5	22753.2	23384.8	21550.8	20191.7	20515.0	20911.6
57.5°	12302.4	12542.4	15045.9	19812.8	21889.3	23645.0	23041.2	22164.6	22685.0	23119.5
60°	11057.0	11256.6	12736.9	17895.4	20752.5	23233.2	24193.1	24003.7	24903.0	25420.9
62.5°	9723.2	9912.7	11259.1	14942.3	19297.4	22548.6	24920.7	25701.3	27176.5	27742.4
65°	8399.5	8561.2	9852.1	12555.1	17448.3	21864.0	25297.1	27169.0	29280.8	29866.9
67.5°	6924.2	7058.1	8278.3	10592.2	15200.0	20926.8	25484.0	28323.4	31112.3	31615.0
70°	4996.8	5100.3	6360.9	8376.8	12378.2	19315.1	25408.2	29141.9	32062.2	32463.8
72.5°	2362.0	2455.4	3935.8	5438.8	8743.1	16177.6	23874.8	28492.7	31097.2	30897.6
75°	1260.6	1341.4	2260.9	2983.4	4617.8	11089.9	19537.4	24544.3	26113.0	25143.0
77.5°	853.8	917.0	1399.5	1791.1	2109.4	5264.5	12557.6	16993.5	16349.4	14747.8
80°	677.0	742.7	1146.9	1212.6	1020.6	1902.2	5188.8	7866.5	5651.0	4519.3
82.5°	520.4	593.6	965.0	879.1	555.8	780.6	1510.6	2488.3	1447.5	1101.4
85°	318.3	396.6	757.9	560.8	313.2	356.2	512.8	692.2	442.1	368.8
87.5°	161.7	227.4	384.0	204.6	141.5	83.4	136.4	136.4	116.2	101.0
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°
6881.3	0°	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3	6881.3
6845.9	2.5°	6906.5	6957.1	7043.0	7123.8	7187.0	7247.6	7308.2	7341.1	7351.2	7391.6
6883.8	5°	6987.4	7080.9	7247.6	7404.2	7502.7	7563.4	7606.3	7631.6	7636.6	7649.2
6987.4	7.5°	7136.4	7285.5	7517.9	7674.5	7747.8	7742.7	7725.0	7661.9	7636.6	7613.9
7139.0	10°	7346.1	7543.1	7828.6	7937.2	7891.8	7770.5	7613.9	7429.5	7343.6	7260.2
7346.1	12.5°	7606.3	7856.4	8136.8	8131.7	7906.9	7596.2	7232.4	6949.5	6770.1	6641.3
7601.2	15°	7922.1	8210.1	8424.8	8253.0	7760.4	7202.1	6669.1	6300.3	6138.6	5997.1
7858.9	17.5°	8247.9	8556.1	8654.7	8215.1	7391.6	6618.6	6014.8	5724.3	5565.2	5489.4
8136.8	20°	8566.2	8871.9	8791.1	7997.9	6830.8	5956.7	5418.6	5259.5	5226.6	5244.3
8407.1	22.5°	8902.2	9175.0	8818.9	7578.5	6115.9	5279.7	4984.1	4989.2	5062.4	5115.5
8690.0	25°	9245.8	9430.2	8745.6	6972.2	5347.9	4782.0	4708.8	4789.6	4933.6	5037.2
9008.3	27.5°	9576.7	9657.5	8586.5	6222.0	4688.6	4425.9	4438.5	4605.2	4822.5	4966.5
9394.8	30°	9950.6	9859.6	8280.8	5378.2	4231.3	4120.2	4226.3	4420.8	4638.0	4766.9
9882.4	32.5°	10372.5	10033.9	7795.8	4597.6	3908.0	3875.1	4049.5	4175.8	4271.8	4309.6
10529.1	35°	10897.9	10279.0	7174.3	4049.5	3617.5	3695.8	3862.5	3799.4	3761.5	3741.3
11398.1	37.5°	11580.0	10609.9	6446.8	3693.3	3382.5	3567.0	3635.2	3438.1	3289.1	3215.8
12451.5	40°	12401.0	11094.9	5747.0	3417.9	3233.5	3455.8	3337.1	3099.6	2910.1	2806.6
13636.3	42.5°	13312.9	11602.7	5158.4	3210.8	3150.1	3364.9	3117.3	2834.4	2528.7	2495.9
15048.4	45°	14270.3	12125.6	4756.8	3051.6	3109.7	3286.5	2991.0	2533.7	2316.5	2450.4
16465.6	47.5°	15227.8	12605.6	4514.3	2932.9	3089.5	3198.1	2879.8	2367.0	2212.9	2407.4
17983.8	50°	16293.8	13035.0	4405.6	2847.0	3066.8	3162.8	2713.1	2324.1	2104.3	2233.1
19555.1	52.5°	17352.3	13368.5	4324.8	2761.1	3033.9	3135.0	2632.3	2273.6	1972.9	1980.5
21136.5	55°	18408.2	13585.7	4236.4	2647.4	2960.7	3074.3	2624.7	2218.0	1874.4	1839.1
22808.8	57.5°	19534.9	13709.5	4127.8	2521.1	2834.4	2920.3	2617.1	2175.0	1844.1	1786.0
24519.0	60°	20681.8	13891.4	3986.3	2367.0	2665.1	2735.8	2599.4	2159.9	1826.4	1727.9
26130.7	62.5°	21709.9	13954.6	3817.0	2220.5	2447.9	2554.0	2561.5	2147.2	1778.4	1609.2
27469.6	65°	22384.4	13681.7	3521.5	2053.8	2212.9	2367.0	2488.3	2104.3	1692.5	1523.3
28131.4	67.5°	22356.6	12903.7	3059.2	1839.1	1985.6	2159.9	2382.2	2031.0	1589.0	1417.2
27631.2	70°	21315.8	11367.8	2473.1	1589.0	1735.5	1937.6	2245.8	1922.4	1465.2	1301.0
24569.5	72.5°	18281.9	8897.2	1796.1	1295.9	1445.0	1707.7	2068.9	1791.1	1338.9	1197.4
18158.1	75°	13060.3	5630.8	1217.6	995.3	1124.1	1447.5	1849.2	1637.0	1222.7	1202.5
9094.2	77.5°	6671.6	2690.4	805.8	727.5	783.1	1141.8	1553.6	1462.7	1240.3	992.8
2586.8	80°	2170.0	992.8	507.8	495.1	520.4	760.4	1202.5	1199.9	939.7	674.5
626.5	82.5°	692.2	426.9	330.9	318.3	305.7	477.4	838.7	949.8	634.1	426.9
224.8	85°	275.4	255.1	194.5	179.4	128.8	224.8	439.6	631.5	472.4	308.2
58.1	87.5°	101.0	101.0	53.0	37.9	27.8	75.8	118.7	189.5	270.3	159.1
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>
6881.3
7414.3
7669.5
7618.9
7235.0
6611.0
5982.0
5512.1
5236.8
5128.1
5065.0
5001.8
4797.2
4329.9
3761.5
3233.5
2814.2
2528.7
2521.1
2498.4
2329.1
2033.6
1864.3
1793.6
1735.5
1609.2
1523.3
1424.8
<i>1316.1</i>
1189.8
1134.3
884.2
596.2
424.4
315.8
156.6
0.0

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