

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: P944712

Luminaire Tested: **GALN-SB9D-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 97204 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

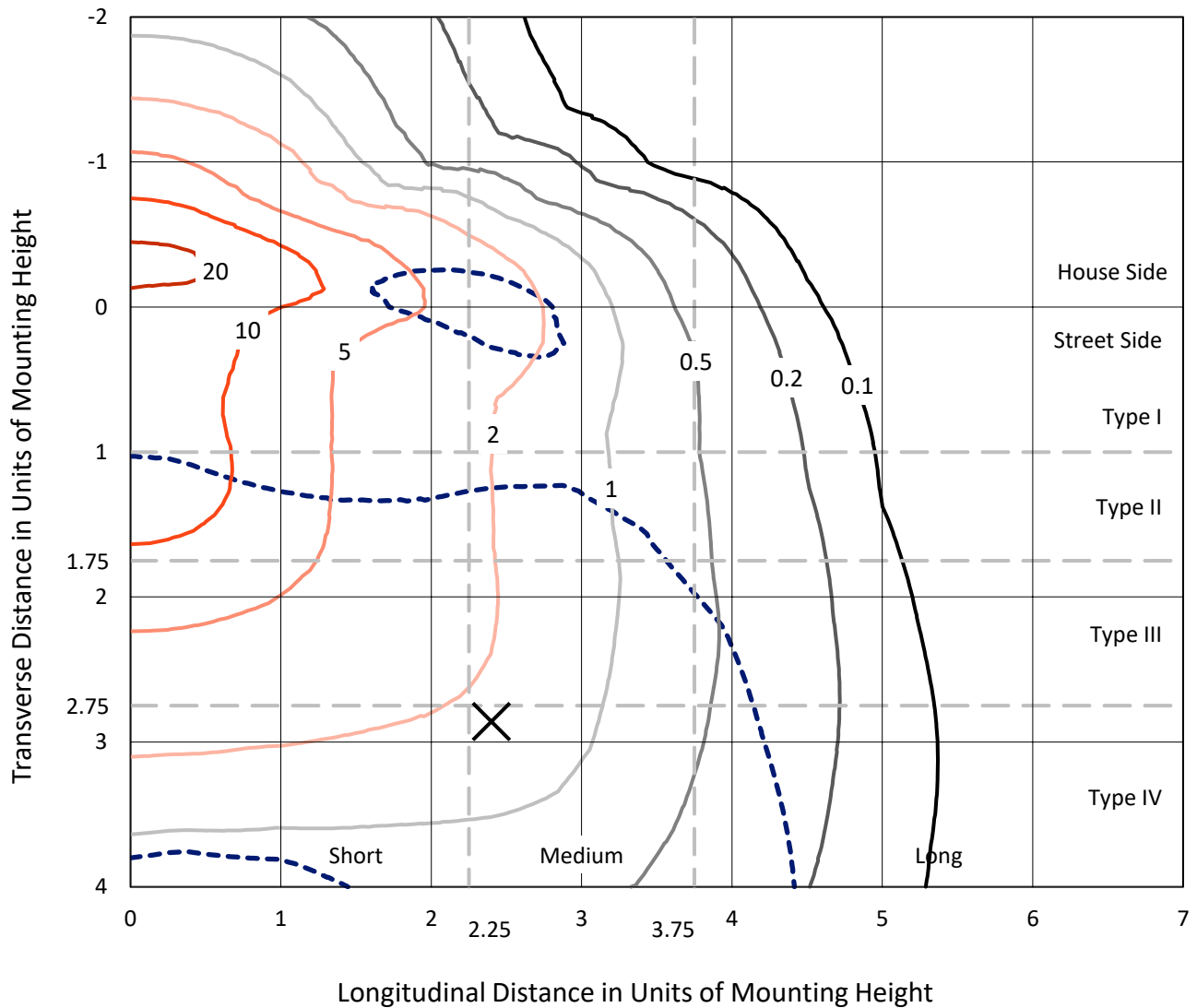
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

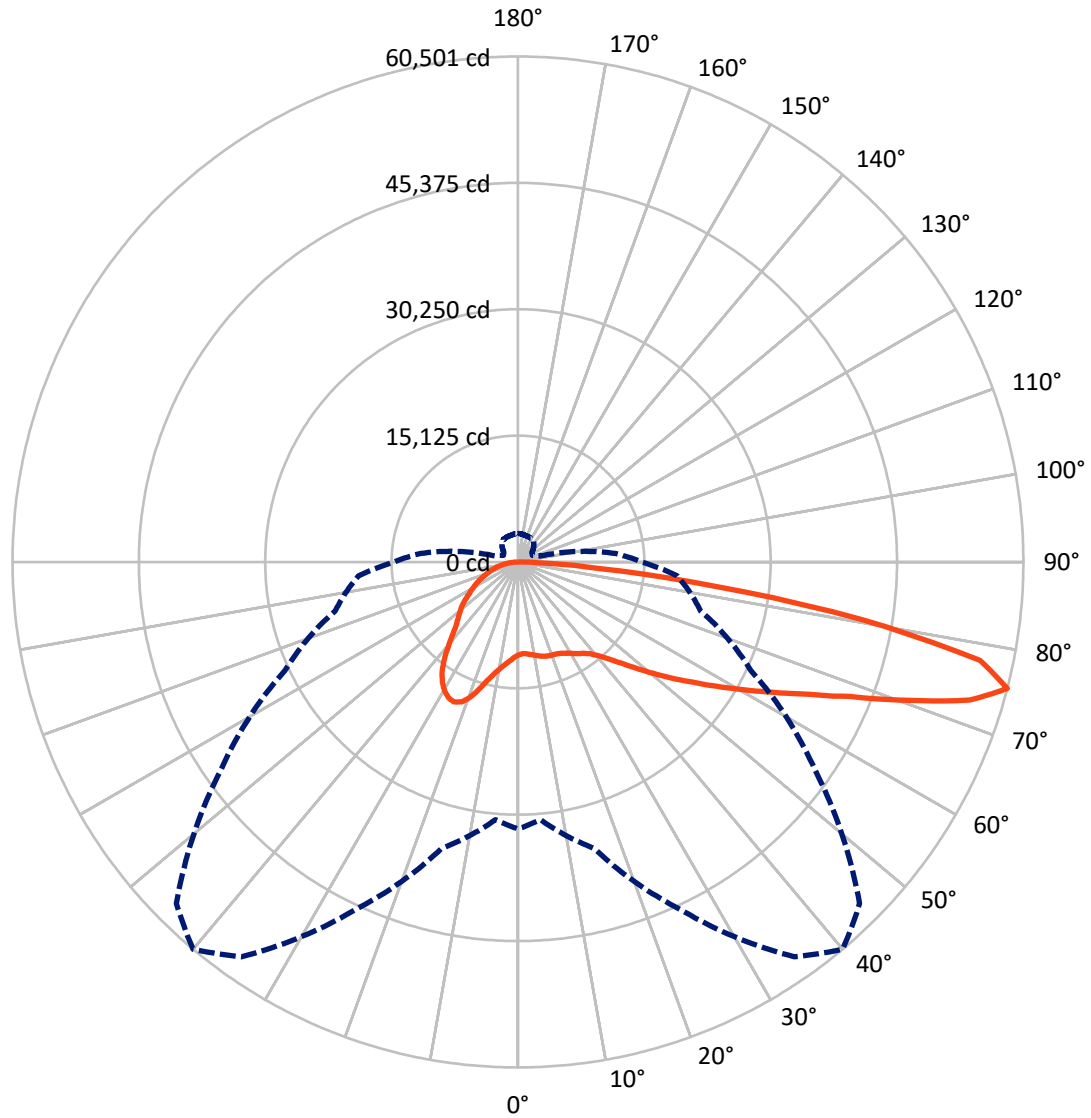
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30117.0	0.0	30117.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	67087.0	0.0	67087.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	97204.0	0.0	97204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.5	1.1
10°-20°	3725.2	3.8
20°-30°	6801.9	7.0
30°-40°	9647.0	9.9
40°-50°	13026.3	13.4
50°-60°	17523.9	18.0
60°-70°	22241.8	22.9
70°-80°	20185.9	20.8
80°-90°	2942.5	3.0
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°	97204.0	100.0
0°-180°	97204.0	100.0

Coefficient of Utilization



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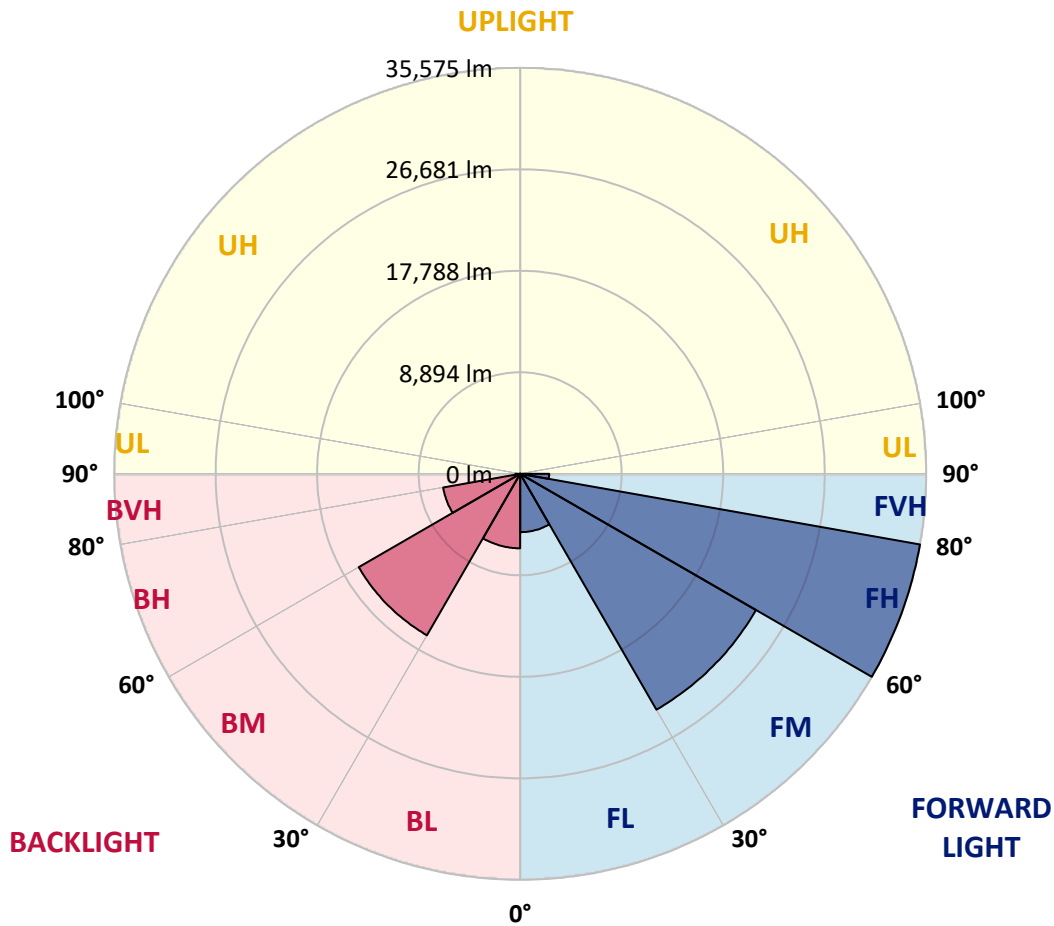
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5113.0	5.3			
FM (30°-60°)	23861.4	24.5			
FH (60°-80°)	35575.2	36.6			G5
FVH (80°-90°)	2537.3	2.6			G5
BL (0°-30°)	6523.6	6.7	B5		
BM (30°-60°)	16335.8	16.8	B5		
BH (60°-80°)	6852.5	7.0	B5		G5
BVH (80°-90°)	405.1	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4
2.5°	10945.3	11007.1	10991.7	10971.1	10971.1	10976.2	10971.1	11007.1	11043.2	11079.3
5°	11058.7	11120.6	11089.6	11063.9	11043.2	11038.1	11022.6	11017.5	11038.1	11084.5
7.5°	11280.4	11342.3	11295.9	11249.5	11208.2	11187.6	11167.0	11136.0	11120.6	11146.3
10°	11527.9	11589.7	11533.0	11450.5	11383.5	11357.7	11337.1	11306.2	11285.5	11301.0
12.5°	11775.3	11837.2	11759.9	11646.4	11558.8	11543.3	11517.5	11507.2	11502.1	11496.9
15°	12007.3	12058.9	11960.9	11826.9	11734.1	11708.3	11682.5	11698.0	11723.8	11754.7
17.5°	12187.8	12239.3	12095.0	11919.7	11832.0	11821.7	11806.3	11857.8	11930.0	12007.3
20°	12352.7	12404.3	12218.7	11981.5	11878.4	11878.4	11883.6	11991.9	12095.0	12208.4
22.5°	12584.7	12626.0	12399.1	12074.3	11924.8	11935.1	11976.4	12084.7	12213.5	12368.2
25°	12930.2	12961.1	12682.7	12249.6	12079.5	12110.4	12146.5	12198.1	12321.8	12502.3
27.5°	13487.0	13512.7	13146.7	12559.0	12301.2	12352.7	12404.3	12368.2	12424.9	12579.6
30°	14270.6	14286.1	13822.1	13043.6	12677.5	12703.3	12713.6	12564.1	12455.9	12579.6
32.5°	15198.6	15193.5	14641.8	13631.3	13105.5	13079.7	12992.0	12698.2	12445.5	12553.8
35°	16637.0	16580.3	15868.8	14456.2	13590.1	13430.3	13224.0	12847.7	12497.1	12528.0
37.5°	19018.9	18843.6	17858.9	15807.0	14311.9	13904.6	13600.4	13090.0	12610.5	12517.7
40°	21704.9	21483.3	20400.6	17657.8	15394.5	14739.8	14250.0	13435.4	12796.1	12564.1
42.5°	24891.1	24576.6	23411.4	19838.6	16765.9	15817.3	15080.0	13873.6	13069.4	12713.6
45°	28804.2	28386.6	26736.8	22297.8	18493.0	17229.9	16245.2	14538.7	13487.0	13002.3
47.5°	32758.5	32861.6	30515.8	25112.8	20565.6	18972.5	17704.2	15538.9	14095.3	13466.3
50°	36960.3	37032.5	34274.2	28231.9	22916.5	20941.9	19343.7	16657.6	14940.8	14126.3
52.5°	40239.2	40249.5	37687.2	31495.4	25365.4	23107.3	21112.1	17936.2	15920.4	15002.7
55°	42291.1	42265.4	40079.4	34583.6	28180.3	25380.9	23071.2	19390.1	17116.5	16033.8
57.5°	43781.1	43703.8	41729.2	37238.7	31180.9	28066.9	25288.1	21039.9	18529.1	17260.8
60°	44348.2	44301.8	42847.9	39532.9	34336.1	31036.5	27845.2	22885.6	20132.5	18709.6
62.5°	44564.7	44652.4	43946.1	41755.0	37713.0	34325.8	30655.0	25092.2	21936.9	20349.0
65°	45327.8	45487.6	45343.2	44662.7	41528.1	38177.0	34382.5	27716.3	23906.4	22107.1
67.5°	46838.3	46998.2	47060.0	48142.7	46188.7	42976.8	39032.8	30985.0	26210.9	23932.2
70°	46802.3	46755.9	47848.8	50911.2	52024.8	49622.4	45302.0	35006.3	28958.8	25447.9
72.5°	42600.5	42229.3	44812.2	50880.3	56881.4	56561.7	52958.0	40192.8	31330.4	25633.5
75°	31959.4	30969.5	35532.2	45853.6	57690.8	60500.6	57824.9	43409.9	30768.4	22648.4
77.5°	13667.4	12672.4	18049.6	33944.3	51633.0	56556.6	53360.1	37872.8	24561.1	14976.9
80°	3578.0	3572.8	5454.6	15389.4	35114.6	41765.3	36640.6	24458.0	14033.5	5351.5
82.5°	1479.6	1443.6	2005.5	5985.6	17157.7	23437.2	19127.2	10909.2	5067.9	1448.7
85°	551.6	546.5	974.4	2067.4	6052.6	9666.7	6996.1	2789.2	1263.1	706.3
87.5°	154.7	149.5	211.4	716.6	1474.5	2237.5	1196.1	458.8	355.7	278.4
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°
11115.4	0°	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4	11115.4
11136.0	2.5°	11151.5	11177.3	11223.7	11259.8	11306.2	11357.7	11429.9	11476.3	11522.7	11553.6
11161.8	5°	11197.9	11254.6	11373.2	11491.8	11631.0	11759.9	11909.4	12017.6	12105.3	12131.1
11254.6	7.5°	11301.0	11393.8	11594.9	11795.9	12017.6	12229.0	12445.5	12631.1	12780.7	12837.4
11419.6	10°	11481.5	11605.2	11888.7	12172.3	12466.2	12791.0	13069.4	13337.5	13548.8	13636.5
11615.5	12.5°	11708.3	11863.0	12234.2	12626.0	13033.3	13481.8	13842.7	14172.7	14435.6	14554.2
11888.7	15°	12002.2	12203.2	12677.5	13203.4	13801.5	14425.3	14884.1	15250.2	15544.0	15688.4
12172.3	17.5°	12321.8	12589.9	13187.9	13981.9	14837.7	15657.5	16193.6	16461.7	16765.9	16905.1
12435.2	20°	12631.1	12961.1	13816.9	14971.8	16111.2	16982.4	17415.5	17487.7	17508.3	17523.8
12682.7	22.5°	12950.8	13394.2	14605.7	16219.4	17441.3	18044.5	18106.4	17797.0	17364.0	17162.9
12925.0	25°	13301.4	13889.1	15636.8	17596.0	18585.8	18658.0	18183.7	17431.0	16611.2	16234.9
13120.9	27.5°	13641.6	14461.4	16874.2	18910.6	19410.7	18776.6	17755.8	16688.6	15698.7	15301.7
13260.1	30°	13981.9	15116.1	18240.4	20060.3	19787.1	18482.7	17080.4	15889.5	14894.4	14476.8
13383.9	32.5°	14327.3	15879.2	19812.9	20890.4	19720.1	17858.9	16240.0	14992.4	14115.9	13677.7
13492.1	35°	14719.1	16817.5	21302.8	21344.1	19271.5	16941.2	15131.6	13920.0	13157.0	12806.4
13621.0	37.5°	15229.6	18008.4	22617.5	21457.5	18487.9	15595.6	13755.1	12651.8	12022.8	11863.0
13811.8	40°	15863.7	19441.7	23622.8	21277.0	17327.9	13961.3	12249.6	11368.0	11012.3	11048.4
14069.5	42.5°	16688.6	21045.0	24329.1	20813.0	15714.2	12275.4	10929.8	10538.0	10708.1	10852.5
14456.2	45°	17760.9	22710.3	24767.4	20024.2	13889.1	10847.3	10151.3	10244.1	10373.0	10388.5
15080.0	47.5°	19132.3	24396.2	25056.1	18833.3	12027.9	9842.0	9656.4	9677.0	9651.2	9543.0
16013.2	50°	20844.0	26035.6	25313.8	17255.7	10445.2	9213.0	8965.5	8893.4	8537.6	8187.0
17255.7	52.5°	22792.8	27541.0	25422.1	15296.6	9213.0	8687.1	8285.0	7831.3	7166.2	7058.0
18817.8	55°	24958.1	28933.1	25143.7	12888.9	8176.7	8011.8	7403.4	6856.9	6784.7	6691.9
20874.9	57.5°	27546.2	30433.3	24576.6	10202.9	7114.7	7223.0	6630.1	6691.9	6563.0	6418.7
23519.7	60°	30376.6	31985.2	23581.6	7754.0	6016.5	6238.2	6429.0	6423.8	6387.8	6269.2
26308.9	62.5°	32923.5	33006.0	21622.5	5939.2	5052.5	5475.2	5995.9	5990.8	5959.8	5892.8
29221.8	65°	34439.2	32851.3	18353.8	4676.1	4258.5	4846.2	5408.2	5449.4	5454.6	5449.4
31412.9	67.5°	34171.1	31041.7	13868.5	3722.3	3603.7	4206.9	4825.6	4882.3	4923.6	4933.9
31691.3	70°	31139.6	27066.7	9042.9	2969.6	3021.2	3645.0	4274.0	4330.7	4366.8	4408.0
27499.8	72.5°	24272.4	19900.5	5176.2	2402.5	2510.8	3160.4	3727.5	3794.5	3815.1	3892.5
19137.5	75°	14791.3	11703.1	2794.3	1892.1	2062.2	2701.5	3186.1	3263.5	3299.6	3392.4
9398.6	77.5°	7032.2	5067.9	1593.1	1474.5	1660.1	2206.6	2691.2	2778.9	2680.9	2732.5
2593.3	80°	2376.7	1881.8	1005.3	1123.9	1268.3	1722.0	2155.0	2242.7	2036.4	2026.1
861.0	82.5°	830.0	763.0	639.3	747.6	819.7	1232.2	1629.2	1742.6	1515.7	1510.6
386.7	85°	324.8	309.3	355.7	407.3	489.8	757.9	1072.4	1129.1	933.2	752.7
113.4	87.5°	67.0	72.2	87.6	92.8	149.5	262.9	386.7	474.3	376.4	319.6
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

180°
11115.4
11533.0
12141.4
12842.5
13641.6
14554.2
15678.1
16900.0
17565.0
17219.6
16291.6
15348.1
14523.2
13734.4
12883.8
11976.4
11172.1
10986.5
10491.6
9625.4
8233.4
7094.1
6707.4
6392.9
6227.9
5867.0
5449.4
4944.2
4428.6
3923.4
3402.7
2691.2
2005.5
1438.4
742.4
293.9
0.0

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