

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: P944717

Luminaire Tested: **GALN-SB9D-750-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
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-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

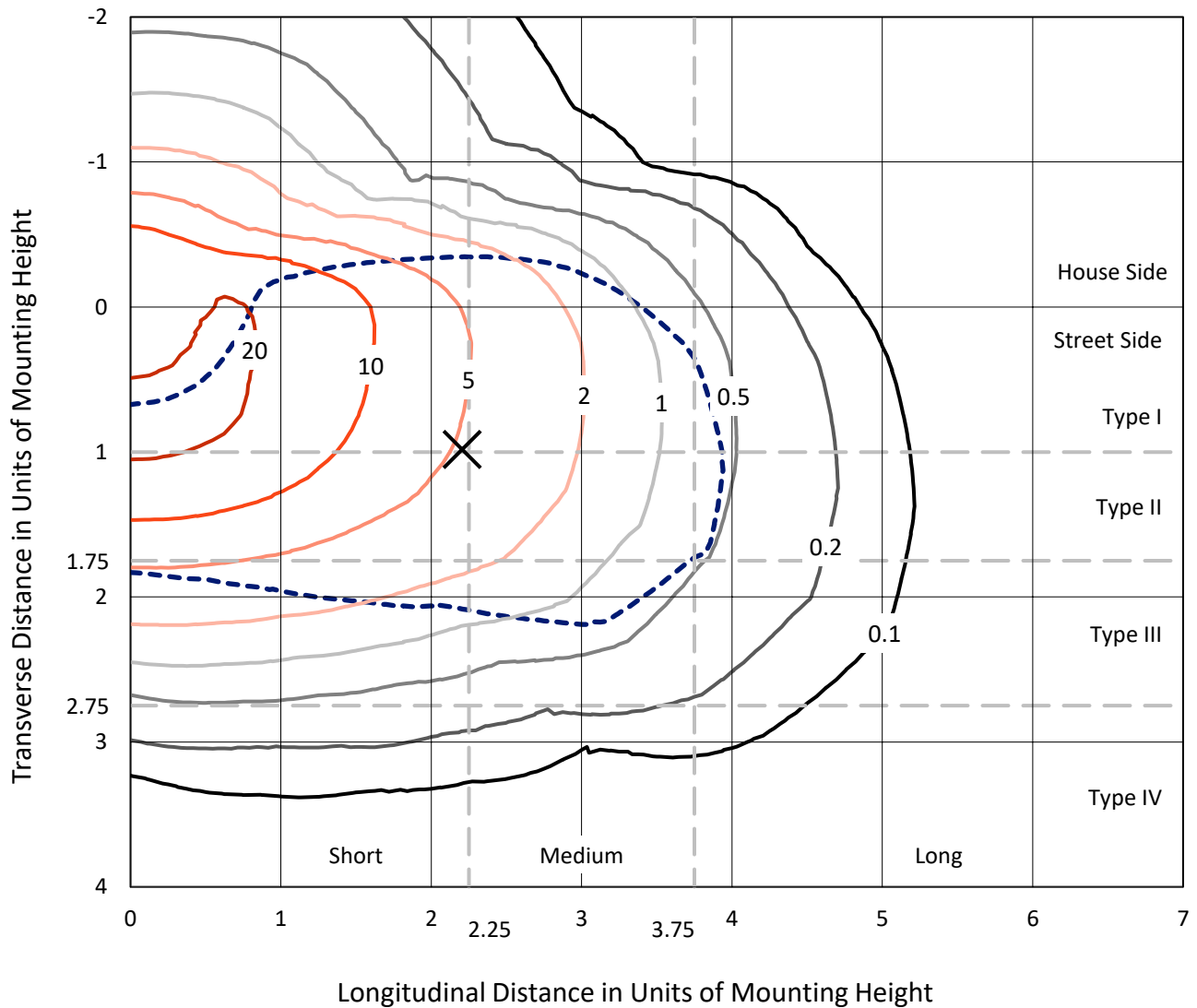
Lumens per Lamp: N/A  
Luminaire Lumens: 98127 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

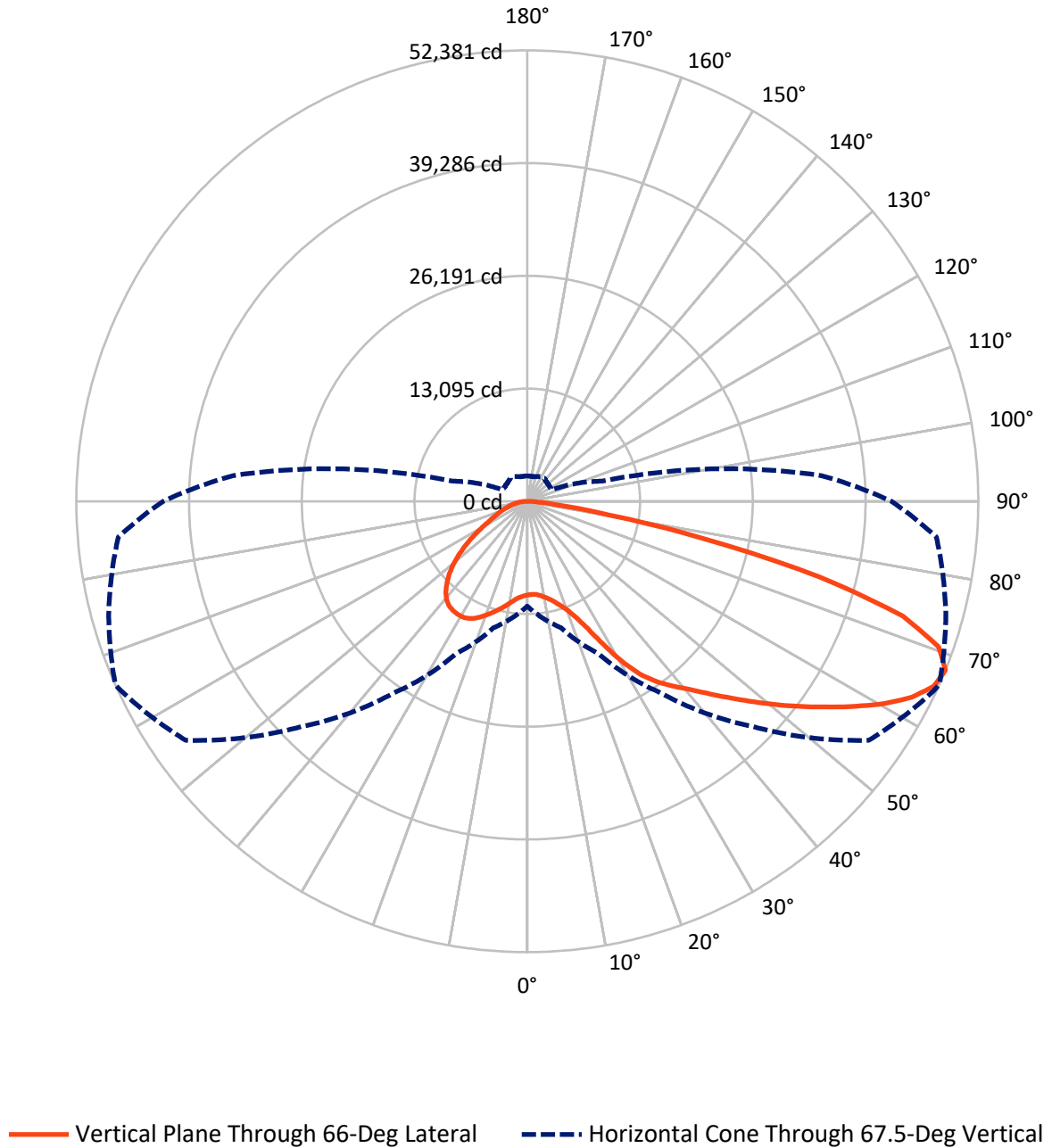
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24399.0	0.0	24399.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	73728.0	0.0	73728.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	98127.0	0.0	98127.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1079.1	1.1
10°-20°	3565.1	3.6
20°-30°	6871.5	7.0
30°-40°	12048.3	12.3
40°-50°	17911.8	18.3
50°-60°	22705.0	23.1
60°-70°	22216.3	22.6
70°-80°	10597.4	10.8
80°-90°	1132.6	1.2
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°	98127.0	100.0
0°-180°	98127.0	100.0

**Coefficient of Utilization**



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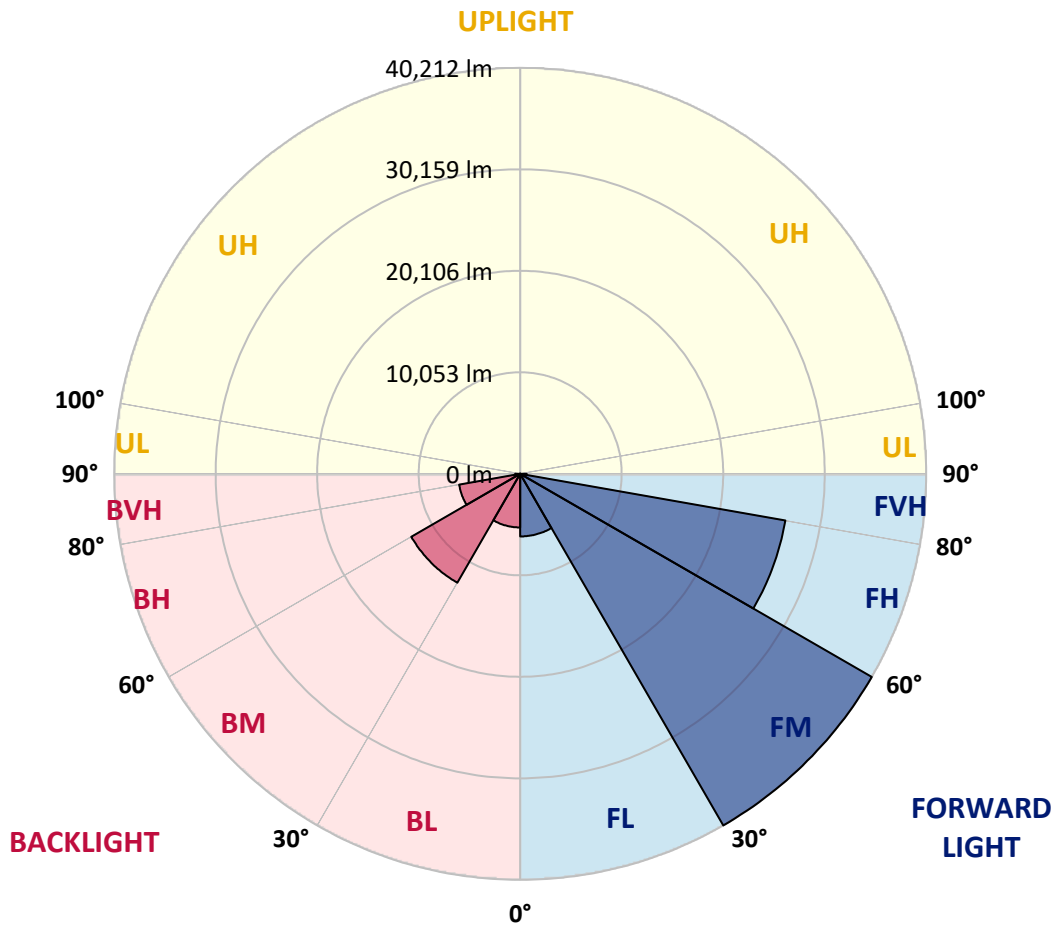
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6200.7	6.3			
FM (30°-60°)	40211.6	41.0			
FH (60°-80°)	26673.6	27.2			G5
FVH (80°-90°)	642.1	0.7			G4/750
BL (0°-30°)	5315.0	5.4	B5		
BM (30°-60°)	12453.5	12.7	B5		
BH (60°-80°)	6140.0	6.3	B5		G5
BVH (80°-90°)	490.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6
2.5°	10770.2	10832.0	10816.6	10790.8	10785.6	10795.9	10811.4	10826.9	10821.7	10847.5
5°	10739.2	10801.1	10795.9	10795.9	10816.6	10857.8	10883.6	10909.4	10883.6	10914.5
7.5°	10759.8	10806.2	10826.9	10847.5	10899.0	10976.4	11038.3	11095.0	11064.0	11100.1
10°	11022.8	11058.9	11079.5	11079.5	11115.6	11203.2	11265.1	11368.2	11342.4	11399.1
12.5°	11502.3	11538.3	11538.3	11517.7	11543.5	11600.2	11620.8	11734.3	11687.9	11780.7
15°	12090.0	12162.2	12105.5	12069.4	12079.7	12136.4	12131.2	12218.9	12172.5	12249.8
17.5°	12739.6	12832.4	12739.6	12734.5	12713.8	12775.7	12780.9	12858.2	12775.7	12832.4
20°	13507.8	13636.7	13559.4	13585.1	13538.7	13564.5	13590.3	13703.7	13574.8	13616.1
22.5°	14590.5	14745.2	14662.7	14760.6	14729.7	14709.1	14703.9	14905.0	14703.9	14719.4
25°	16168.1	16353.7	16209.4	16343.4	16343.4	16410.4	16487.8	16745.6	16410.4	16312.5
27.5°	18498.5	18684.1	18400.5	18483.0	18457.2	18622.2	18539.7	19179.0	18818.1	18658.3
30°	21303.2	21633.1	21096.9	21076.3	21050.5	21313.5	21432.0	21854.8	21488.8	21328.9
32.5°	24334.7	24680.1	24040.8	23855.2	23757.2	23917.1	23819.1	24159.4	23906.8	23659.3
35°	27541.5	27881.8	27273.4	26912.5	26520.7	26185.6	25835.0	25922.6	25685.5	25309.1
37.5°	30573.0	31196.8	30552.4	30165.7	29443.9	28789.2	27809.6	27402.3	27180.6	26835.2
40°	33661.3	34017.0	33527.2	33197.2	32413.6	31387.6	29820.3	28959.3	28660.3	28325.2
42.5°	35934.9	36275.2	36012.2	35785.4	35171.9	33980.9	31954.7	30877.2	30444.1	30067.8
45°	37739.4	37992.0	37827.0	37909.5	37646.6	36491.7	34166.5	32934.3	32485.8	32026.9
47.5°	38466.3	38734.4	38997.4	39487.1	39935.7	39085.0	36543.3	35161.5	34687.2	34218.1
50°	38383.8	38657.1	39420.1	40461.6	41853.6	41570.0	39048.9	37533.1	37094.9	36558.7
52.5°	37723.9	38033.2	39012.8	40745.1	42962.0	43431.2	41601.0	39982.1	39569.6	38930.3
55°	35991.6	36177.2	37646.6	40100.7	43225.0	44730.4	44101.4	42590.8	42178.4	41286.5
57.5°	32779.6	33047.7	35187.3	38363.2	42565.1	45612.1	46297.8	45333.6	44936.7	43652.9
60°	28588.1	29016.0	31464.9	35445.1	40884.3	45606.9	48293.0	48030.1	47700.1	45983.3
62.5°	23844.9	24339.8	26696.0	31320.6	37945.6	44312.8	49540.7	50288.2	50118.1	48133.2
65°	18312.9	18653.1	20999.0	25984.5	33372.5	41533.9	49685.0	51829.8	51860.7	49767.5
67.5°	12193.1	13172.7	15209.2	19498.7	27247.6	36991.8	48416.7	52082.4	52381.4	50329.5
70°	5949.6	7238.5	9233.8	12672.6	19498.7	30026.5	45101.6	50009.8	50674.9	48690.0
72.5°	2469.6	2887.2	3975.0	6253.8	11192.9	20261.7	38440.5	44390.2	45622.4	43142.5
75°	1665.3	1804.5	2273.6	3206.8	5098.9	9991.7	27721.9	33099.3	35084.2	32583.7
77.5°	1283.8	1371.4	1655.0	2242.7	3031.5	3779.1	14838.0	19947.2	20973.2	19416.2
80°	1010.5	1077.5	1237.4	1634.3	2149.9	2021.0	5057.7	9037.9	9630.8	8078.9
82.5°	876.5	902.2	886.8	1108.5	1428.1	1180.6	1660.1	3335.7	3681.1	2670.6
85°	634.1	706.3	737.3	685.7	757.9	598.1	680.5	1180.6	1299.2	1160.0
87.5°	257.8	381.5	469.2	443.4	278.4	170.1	211.4	345.4	397.0	433.1
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°
10883.6	0°	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6	10883.6
10888.7	2.5°	10893.9	10930.0	10955.8	10986.7	11007.3	11038.3	11100.1	11136.2	11141.4	11167.1
10971.2	5°	10991.8	11043.4	11100.1	11182.6	11275.4	11352.7	11471.3	11553.8	11584.7	11610.5
11172.3	7.5°	11203.2	11275.4	11378.5	11522.9	11656.9	11760.0	11904.4	12002.4	12100.3	12136.4
11491.9	10°	11517.7	11620.8	11770.4	11966.3	12110.6	12244.7	12394.2	12476.7	12574.6	12615.9
11873.5	12.5°	11909.6	12017.8	12213.7	12487.0	12621.0	12713.8	12765.4	12744.8	12765.4	12801.5
12332.3	15°	12358.1	12476.7	12698.4	12992.2	13085.0	13002.6	12889.1	12786.0	12770.5	12780.9
12889.1	17.5°	12889.1	12976.8	13234.6	13482.0	13415.0	13074.7	12827.3	12662.3	12579.8	12554.0
13600.6	20°	13631.5	13631.5	13842.9	13997.6	13549.1	12971.6	12584.9	12316.9	12146.7	12074.5
14569.9	22.5°	14533.8	14451.3	14585.3	14477.1	13523.3	12682.9	12146.7	11682.7	11424.9	11321.8
15925.8	25°	15678.3	15580.4	15544.3	14874.1	13337.7	12224.1	11352.7	10790.8	10563.9	10507.2
17879.8	27.5°	17405.5	17158.0	16688.8	15090.6	12997.4	11502.3	10424.7	9904.0	9775.1	9780.3
20390.6	30°	19704.9	19210.0	18060.2	15126.7	12440.6	10481.4	9476.1	9104.9	9043.0	9068.8
22499.3	32.5°	21834.2	21365.0	19462.6	14961.7	11584.7	9481.2	8625.4	8377.9	8285.1	8316.1
24107.8	35°	23504.6	23375.7	20761.8	14729.7	10533.0	8542.9	7862.4	7651.0	7470.5	7429.3
25623.6	37.5°	25082.2	25030.7	21736.2	14404.9	9491.6	7877.8	7248.8	6970.4	6707.5	6563.1
27299.2	40°	26814.5	26763.0	22375.5	13904.8	8568.7	7300.4	6697.2	6331.1	6006.3	5743.4
29196.5	42.5°	28763.4	28459.2	22679.7	13188.2	7785.0	6810.6	6248.7	5753.7	5325.8	5083.5
31341.2	45°	30892.7	30207.0	22674.6	12275.6	7125.1	6362.1	5769.2	5068.0	4671.0	4444.2
33542.7	47.5°	33150.8	31877.4	22396.2	11265.1	6485.8	5867.1	5026.8	4490.6	4227.6	4088.4
35934.9	50°	35481.2	33439.6	21921.8	10105.1	5831.0	5305.2	4562.8	4196.7	3995.6	3866.7
38306.5	52.5°	37672.3	34857.4	21349.6	8790.4	5166.0	4758.7	4356.5	4073.0	3861.6	3717.2
40605.9	55°	39708.8	36079.3	20540.1	7444.8	4624.6	4392.6	4258.6	4021.4	3779.1	3609.0
42941.4	57.5°	41518.5	36873.2	19142.9	6181.6	4237.9	4140.0	4155.5	3933.8	3655.4	3511.0
45240.8	60°	43023.9	37455.8	17075.5	5011.3	3923.5	3892.5	3995.6	3768.8	3444.0	3279.0
47184.5	62.5°	43926.2	37445.5	14538.9	4103.9	3655.4	3665.7	3784.2	3562.6	3232.6	3077.9
48200.2	65°	43848.8	36527.8	11754.9	3511.0	3397.6	3407.9	3562.6	3335.7	3057.3	2964.5
47689.8	67.5°	42297.0	34290.2	9017.2	3124.3	3114.0	3160.4	3340.9	3181.0	2949.0	2938.7
44647.9	70°	38095.1	29645.0	6496.1	2815.0	2820.1	2887.2	3124.3	3083.1	2892.3	2912.9
37538.3	72.5°	30547.2	22602.4	4361.7	2490.2	2495.3	2603.6	2918.1	3005.7	2835.6	3108.9
26634.1	75°	20344.2	14095.6	2804.7	2144.8	2149.9	2289.1	2737.7	2856.2	2680.9	3098.5
13858.4	77.5°	9775.1	6336.3	2031.3	1804.5	1804.5	1933.4	2366.4	2557.2	2284.0	2407.7
4454.5	80°	3377.0	2381.9	1598.3	1453.9	1423.0	1510.6	1995.2	2216.9	1969.5	1814.8
1453.9	82.5°	1330.2	1237.4	1283.8	1129.1	1026.0	1082.7	1551.9	1830.3	1448.7	1309.5
819.7	85°	763.0	804.3	907.4	747.6	592.9	665.1	1139.4	1314.7	1093.0	964.1
268.1	87.5°	206.2	283.6	417.6	386.7	268.1	283.6	541.3	726.9	629.0	484.6
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°  
10883.6  
11162.0  
11605.4  
12141.6  
12636.5  
12811.8  
12817.0  
12590.1  
12059.1  
11306.3  
10517.5  
9795.7  
9156.4  
8357.3  
7460.2  
6568.3  
5769.2  
5098.9  
4433.9  
4057.5  
3820.3  
3655.4  
3541.9  
3418.2  
3206.8  
3031.5  
2959.3  
2954.2  
2907.8  
3150.1  
3124.3  
2206.6  
1701.4  
1304.4  
984.7  
500.1  
0.0

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