

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: P957091

Luminaire Tested: **GALN-SB9C-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957091
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-SB9C-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74087 lumens
Efficiency: N/A
Efficacy: 164.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

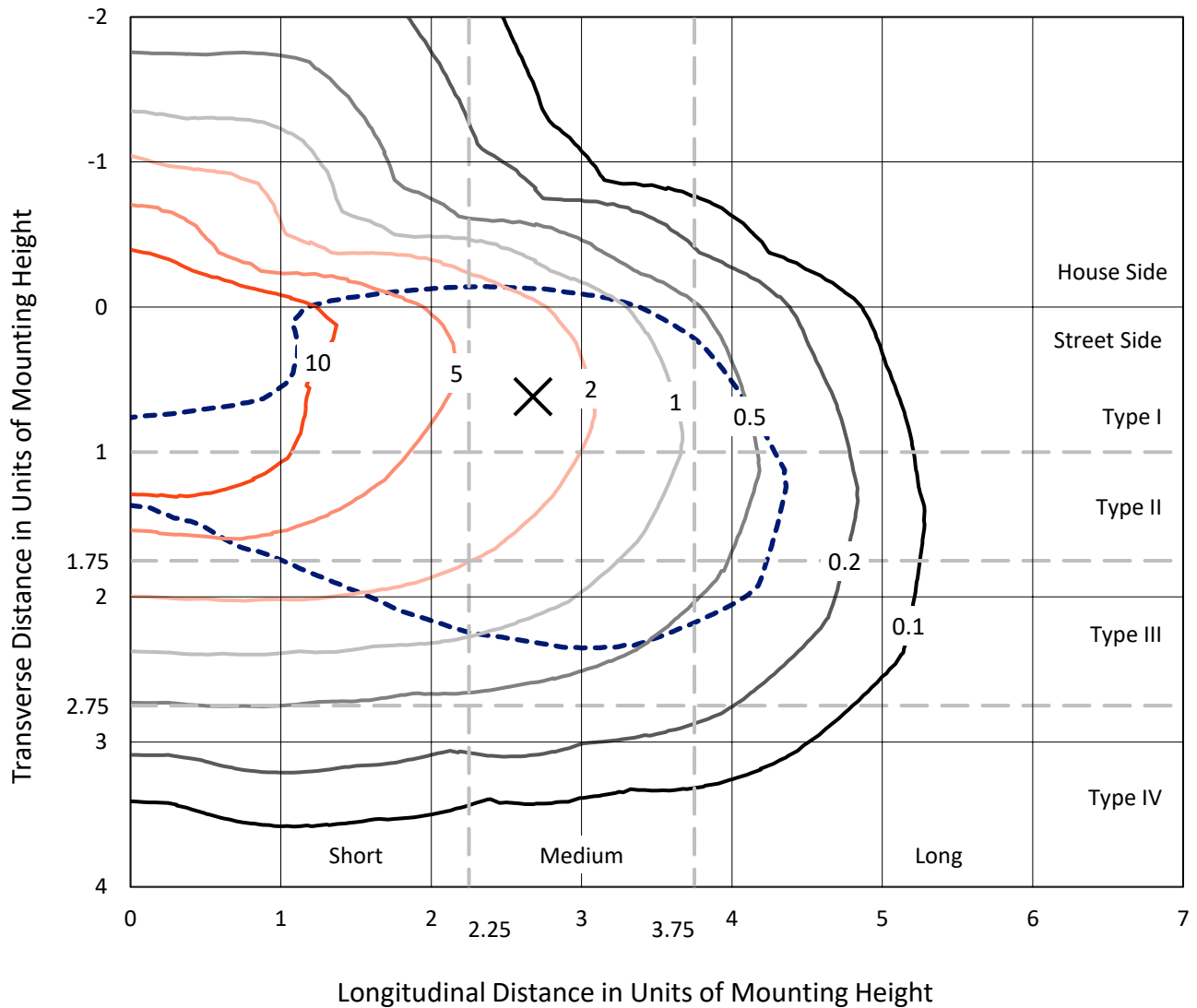
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

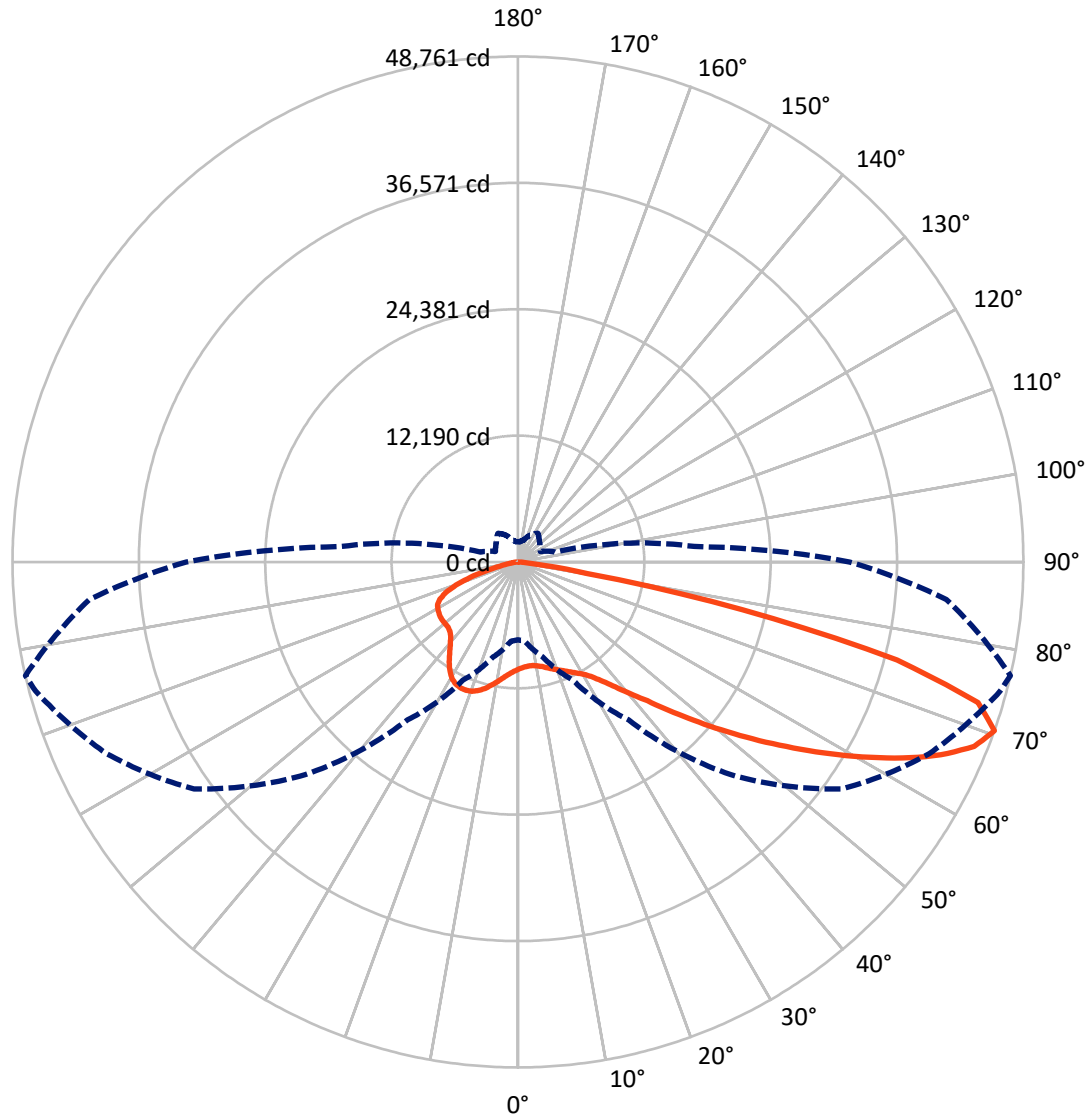
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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	16223.9	0.0	16223.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	57863.1	0.0	57863.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	74087.0	0.0	74087.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.8	1.3
10°-20°	2845.0	3.8
20°-30°	4865.3	6.6
30°-40°	7824.0	10.6
40°-50°	12215.3	16.5
50°-60°	16316.7	22.0
60°-70°	17391.1	23.5
70°-80°	10705.8	14.5
80°-90°	938.1	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°	74087.0	100.0
0°-180°	74087.0	100.0

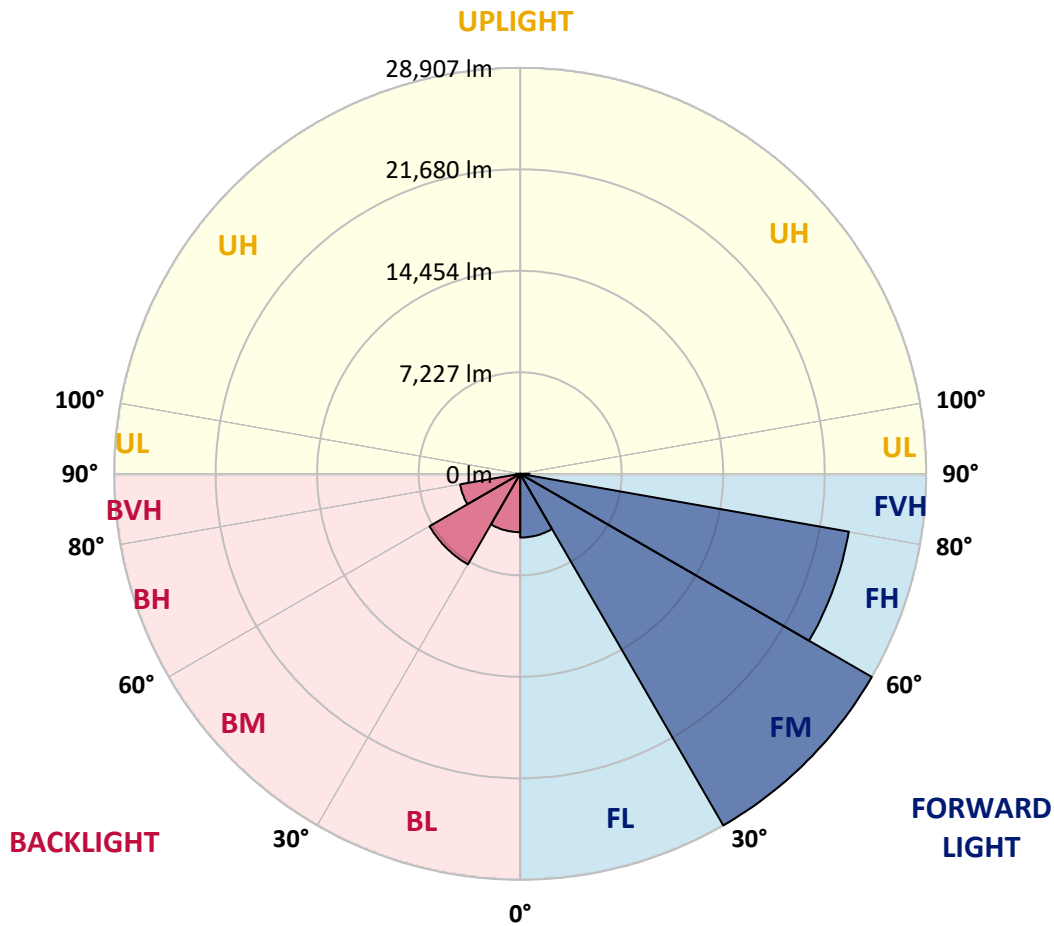


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4539.0	6.1			
FM (30°-60°)	28907.1	39.0			
FH (60°-80°)	23760.9	32.1			G5
FVH (80°-90°)	656.0	0.9			G4/750
BL (0°-30°)	4157.1	5.6	B4/5000		
BM (30°-60°)	7448.7	10.1	B4/8500		
BH (60°-80°)	4335.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	282.1	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8
2.5°	9527.6	9523.8	9573.1	9588.3	9679.4	9743.9	9865.3	9994.3	10161.3	10180.2
5°	8977.4	8977.4	9034.3	9095.1	9212.7	9341.7	9527.6	9751.5	10039.9	10085.4
7.5°	8510.7	8541.1	8590.4	8708.0	8844.6	9030.6	9315.1	9633.9	10013.3	10085.4
10°	8135.1	8169.2	8229.9	8324.8	8529.7	8787.7	9159.6	9569.4	10077.8	10191.6
12.5°	8017.5	8051.6	8085.8	8157.9	8347.6	8651.1	9095.1	9599.7	10233.4	10347.2
15°	8290.7	8332.4	8305.8	8286.9	8385.5	8662.5	9125.4	9709.7	10426.9	10590.0
17.5°	8920.5	8935.7	8875.0	8696.7	8681.5	8829.5	9269.6	9861.5	10669.7	10848.0
20°	9937.4	9910.8	9785.6	9432.8	9231.7	9201.3	9516.2	10089.2	10920.1	11109.9
22.5°	11318.5	11288.2	11037.8	10480.0	10032.3	9736.3	9872.9	10385.1	11200.9	11413.4
25°	13041.2	12999.4	12631.4	11872.5	11178.2	10445.8	10358.6	10776.0	11546.2	11743.5
27.5°	15052.2	15018.0	14619.6	13617.9	12616.2	11417.2	10961.9	11235.1	11906.7	12130.5
30°	17215.0	17313.6	16607.9	15530.3	14263.0	12684.5	11773.9	11800.4	12373.4	12574.5
32.5°	19757.2	19927.9	19078.0	17712.0	15981.8	14061.9	12798.3	12589.7	13052.6	13219.5
35°	22276.6	22470.1	21764.4	20254.2	18262.2	15685.8	13868.4	13496.5	13955.6	14137.8
37.5°	24454.6	24712.6	24348.4	23035.5	20702.0	17643.7	15264.7	14562.7	15067.4	15295.0
40°	26173.4	26568.0	26541.5	25721.9	23578.1	20019.0	17036.6	15879.4	16448.5	16695.1
42.5°	27569.8	27911.2	28207.2	28165.5	26579.4	22716.8	19119.7	17590.6	18023.2	18307.7
45°	28533.5	28897.8	29535.2	30222.0	29466.9	25604.3	21506.4	19620.6	20015.2	20444.0
47.5°	29394.8	29808.4	30635.6	31724.6	31918.1	28503.2	24120.7	21984.5	22344.9	22788.9
50°	29470.7	29827.4	31109.9	32654.2	33659.7	31288.2	26928.5	24636.7	24974.4	25448.7
52.5°	27638.1	28199.6	30438.3	32627.6	34460.3	33618.0	29717.4	27395.2	27774.6	28343.8
55°	21453.3	22276.6	28469.0	31610.7	34175.7	35124.3	32369.6	30328.2	30813.9	31409.6
57.5°	18478.5	18839.0	22599.2	29759.1	32878.1	35515.1	34608.3	33291.6	34073.3	34725.9
60°	16607.9	16907.6	19131.1	26879.2	31170.6	34896.6	36338.5	36053.9	37404.7	38182.6
62.5°	14604.5	14889.0	16911.4	22443.6	28985.0	33868.4	37431.3	38603.7	40819.6	41669.6
65°	12616.2	12859.1	14798.0	18857.9	26207.6	32840.1	37996.6	40808.2	43980.3	44860.6
67.5°	10400.3	10601.4	12434.1	15909.7	22830.6	31432.4	38277.4	42542.3	46731.2	47486.3
70°	7505.2	7660.8	9554.2	12582.1	18592.3	29011.6	38163.6	43771.6	48157.9	48761.2
72.5°	3547.7	3688.1	5911.6	8169.2	13132.2	24299.0	35860.4	42796.5	46708.5	46408.7
75°	1893.4	2014.8	3395.9	4481.1	6936.1	16657.2	29345.5	36865.9	39222.2	37765.2
77.5°	1282.5	1377.3	2102.1	2690.2	3168.3	7907.4	18861.7	25524.6	24557.0	22151.4
80°	1016.9	1115.5	1722.6	1821.3	1532.9	2857.1	7793.6	11815.6	8488.0	6788.1
82.5°	781.6	891.7	1449.4	1320.4	834.8	1172.5	2269.0	3737.4	2174.2	1654.3
85°	478.1	595.7	1138.3	842.3	470.5	535.0	770.3	1039.7	664.0	554.0
87.5°	242.8	341.5	576.7	307.3	212.5	125.2	204.9	204.9	174.5	151.8
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°
10335.8	0°	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8	10335.8
10282.7	2.5°	10373.8	10449.6	10578.7	10700.1	10794.9	10886.0	10977.1	11026.4	11041.6	11102.3
10339.6	5°	10495.2	10635.6	10886.0	11121.2	11269.2	11360.3	11424.8	11462.7	11470.3	11489.3
10495.2	7.5°	10719.0	10942.9	11292.0	11527.2	11637.3	11629.7	11603.1	11508.3	11470.3	11436.2
10722.8	10°	11034.0	11329.9	11758.7	11921.9	11853.6	11671.4	11436.2	11159.2	11030.2	10905.0
11034.0	12.5°	11424.8	11800.4	12221.6	12214.0	11876.3	11409.6	10863.2	10438.3	10168.9	9975.3
11417.2	15°	11899.1	12331.6	12654.2	12396.1	11656.2	10817.7	10017.1	9463.1	9220.3	9007.8
11804.2	17.5°	12388.6	12851.5	12999.4	12339.2	11102.3	9941.2	9034.3	8598.0	8359.0	8245.1
12221.6	20°	12866.6	13325.8	13204.3	12012.9	10259.9	8947.1	8138.9	7899.8	7850.5	7877.1
12627.6	22.5°	13371.3	13781.1	13246.1	11383.1	9186.1	7930.2	7486.3	7493.8	7603.9	7683.6
13052.6	25°	13887.3	14164.3	13136.0	10472.4	8032.6	7182.7	7072.7	7194.1	7410.4	7565.9
13530.7	27.5°	14384.4	14505.8	12897.0	9345.5	7042.3	6647.7	6666.7	6917.1	7243.4	7459.7
14111.2	30°	14945.9	14809.4	12437.9	8078.2	6355.5	6188.6	6347.9	6640.1	6966.4	7159.9
14843.5	32.5°	15579.6	15071.2	11709.4	6905.7	5869.9	5820.5	6082.3	6272.1	6416.2	6473.2
15814.9	35°	16368.8	15439.2	10776.0	6082.3	5433.5	5551.1	5801.6	5706.7	5649.8	5619.4
17120.1	37.5°	17393.3	15936.3	9683.2	5547.3	5080.6	5357.6	5460.1	5164.1	4940.2	4830.2
18702.4	40°	18626.5	16664.8	8632.1	5133.8	4856.8	5190.7	5012.3	4655.7	4371.1	4215.5
20481.9	42.5°	19996.2	17427.5	7748.1	4822.6	4731.6	5054.1	4682.2	4257.3	3798.1	3748.8
22602.9	45°	21434.3	18212.9	7144.8	4583.6	4670.8	4936.5	4492.5	3805.7	3479.4	3680.5
24731.6	47.5°	22872.3	18933.8	6780.5	4405.2	4640.5	4803.6	4325.6	3555.3	3323.9	3616.0
27012.0	50°	24473.6	19578.9	6617.3	4276.2	4606.3	4750.5	4075.1	3490.8	3160.7	3354.2
29372.1	52.5°	26063.4	20079.7	6495.9	4147.2	4557.0	4708.8	3953.7	3414.9	2963.4	2974.8
31747.3	55°	27649.4	20406.0	6363.1	3976.5	4447.0	4617.7	3942.3	3331.4	2815.4	2762.3
34259.2	57.5°	29341.7	20591.9	6200.0	3786.8	4257.3	4386.3	3930.9	3266.9	2769.9	2682.6
36828.0	60°	31064.4	20865.1	5987.5	3555.3	4003.0	4109.3	3904.4	3244.2	2743.3	2595.3
39248.8	62.5°	32608.7	20960.0	5733.3	3335.2	3676.7	3836.1	3847.5	3225.2	2671.2	2417.0
41259.8	65°	33621.7	20550.2	5289.3	3084.8	3323.9	3555.3	3737.4	3160.7	2542.2	2288.0
42253.9	67.5°	33580.0	19381.5	4595.0	2762.3	2982.4	3244.2	3578.1	3050.7	2386.6	2128.6
41502.6	70°	32016.7	17074.6	3714.7	2386.6	2606.7	2910.3	3373.2	2887.5	2200.7	1954.1
36903.9	72.5°	27459.7	13363.7	2697.8	1946.5	2170.4	2565.0	3107.6	2690.2	2011.0	1798.5
27273.8	75°	19616.8	8457.6	1828.9	1495.0	1688.5	2174.2	2777.5	2458.7	1836.5	1806.1
13659.7	77.5°	10020.9	4041.0	1210.4	1092.8	1176.2	1715.0	2333.5	2196.9	1863.0	1491.2
3885.4	80°	3259.3	1491.2	762.7	743.7	781.6	1142.1	1806.1	1802.3	1411.5	1013.1
941.0	82.5°	1039.7	641.2	497.1	478.1	459.1	717.1	1259.7	1426.7	952.4	641.2
337.7	85°	413.6	383.2	292.2	269.4	193.5	337.7	660.2	948.6	709.5	462.9
87.3	87.5°	151.8	151.8	79.7	56.9	41.7	113.8	178.3	284.6	406.0	239.0
0.0	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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180°
10335.8
11136.4
11519.6
11443.8
10867.0
9929.8
8985.0
8279.3
7865.7
7702.5
7607.7
7512.8
7205.5
6503.5
5649.8
4856.8
4226.9
3798.1
3786.8
3752.6
3498.4
3054.5
2800.2
2694.0
2606.7
2417.0
2288.0
2140.0
1976.9
1787.1
1703.7
1328.0
895.5
637.5
474.3
235.2
0.0

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