

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: P957646

Luminaire Tested: **GALN-SB9D-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66758 lumens
Efficiency: N/A
Efficacy: 101.5 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

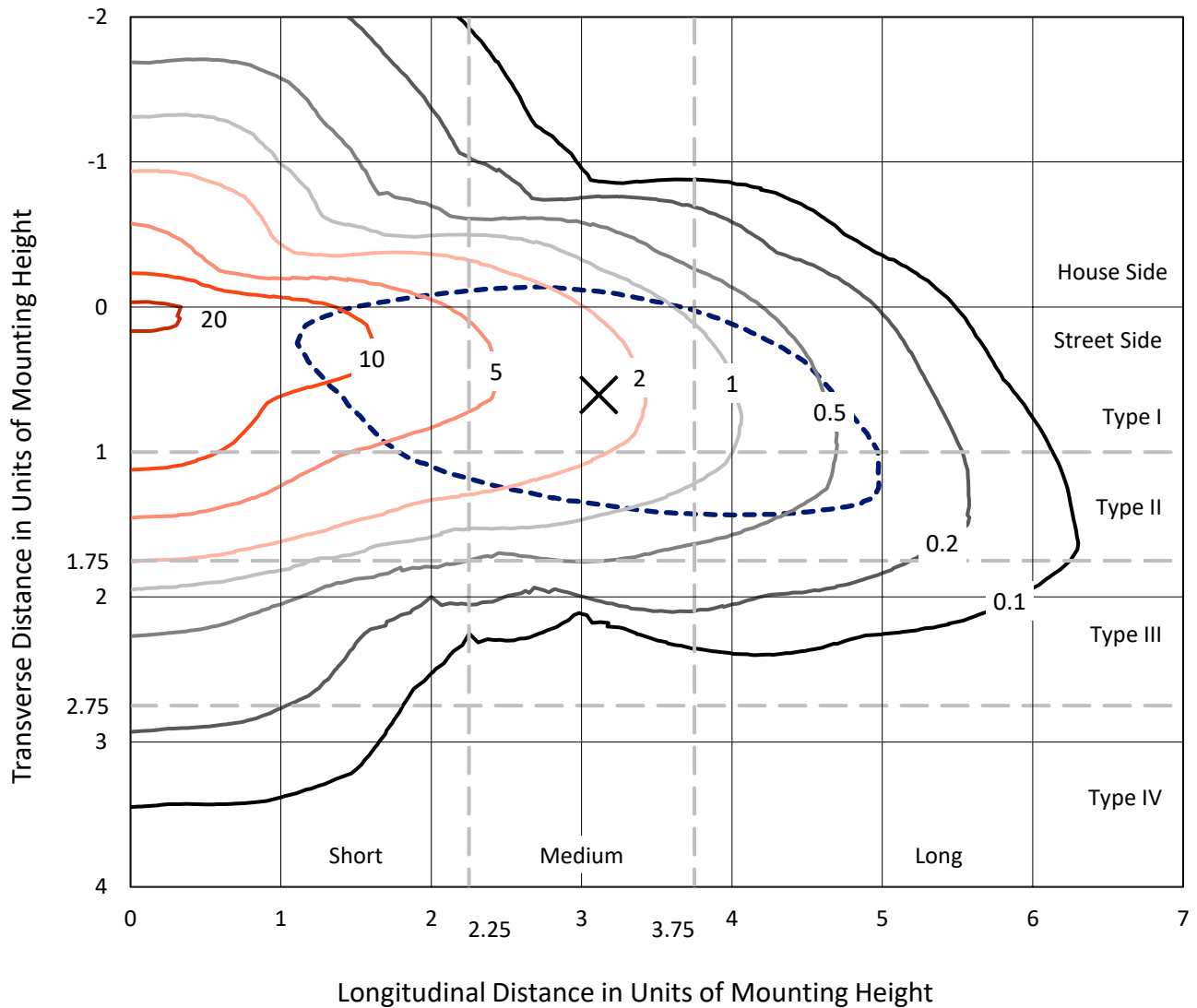
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

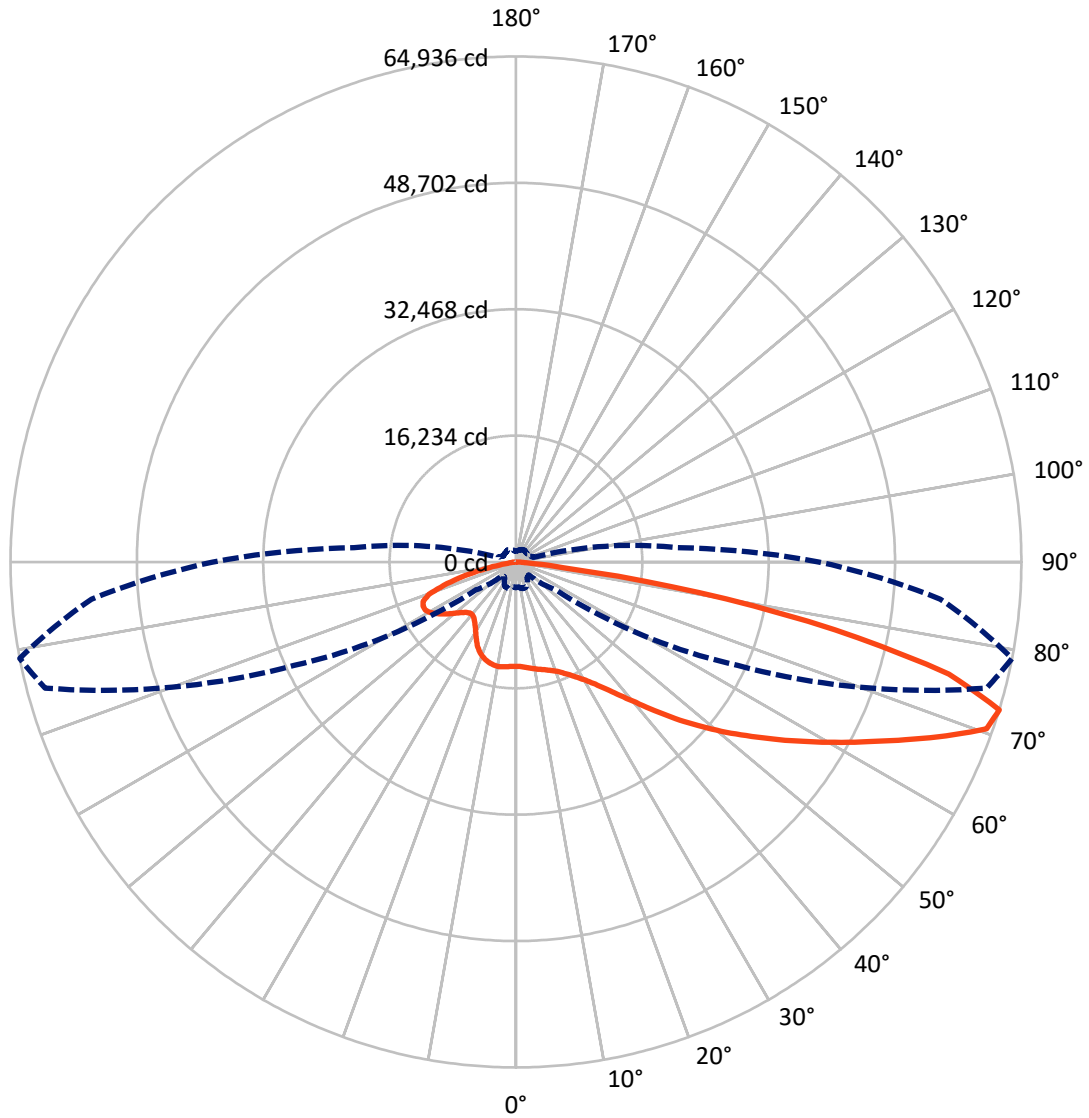
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14690.4	0.0	14690.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	52067.6	0.0	52067.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	66758.0	0.0	66758.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.4	1.8
10°-20°	3180.4	4.8
20°-30°	5131.8	7.7
30°-40°	7702.1	11.5
40°-50°	10925.8	16.4
50°-60°	13797.9	20.7
60°-70°	14013.6	21.0
70°-80°	9550.9	14.3
80°-90°	1239.1	1.9
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°	66758.0	100.0
0°-180°	66758.0	100.0



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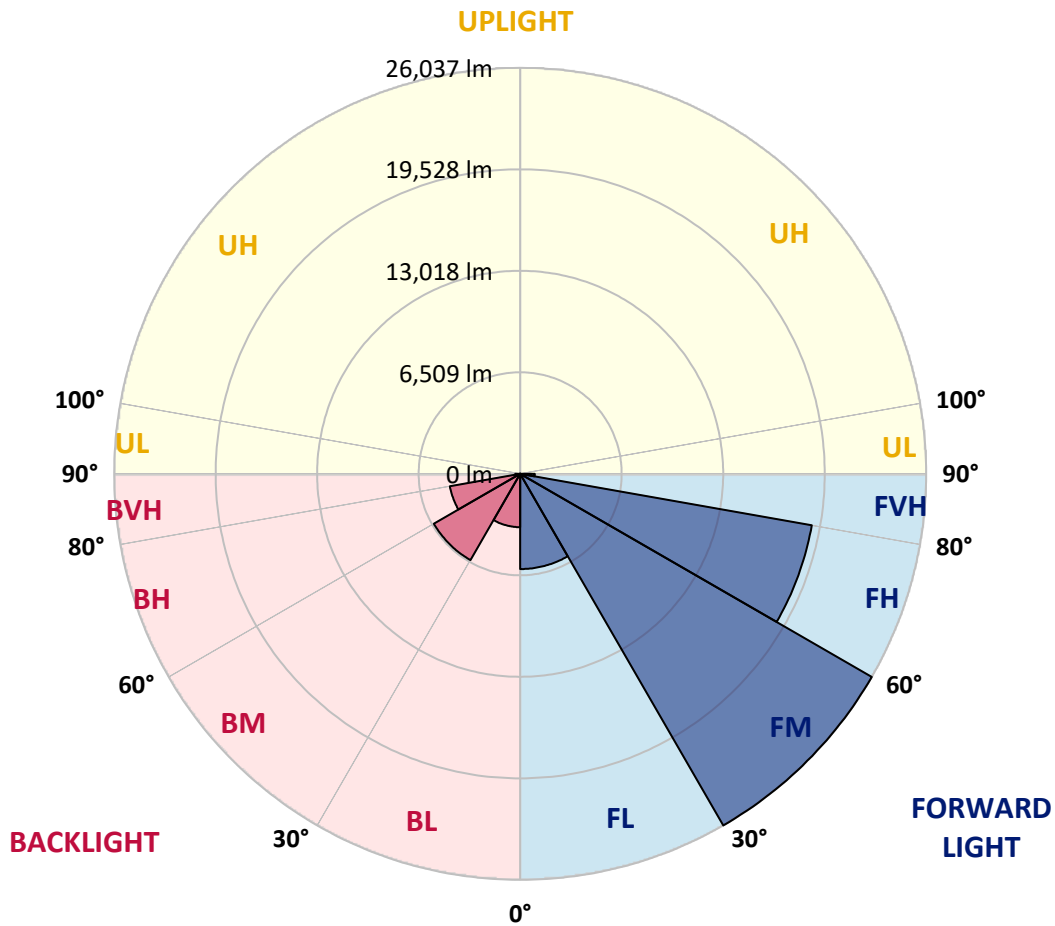
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6106.7	9.1			
FM (30°-60°)	26037.0	39.0			
FH (60°-80°)	18990.4	28.4			G5
FVH (80°-90°)	933.5	1.4			G5
BL (0°-30°)	3421.8	5.1	B4/5000		
BM (30°-60°)	6388.8	9.6	B4/8500		
BH (60°-80°)	4574.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	305.7	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0
2.5°	13408.1	13344.5	13383.4	13369.3	13386.9	13408.1	13415.2	13425.8	13461.1	13457.5
5°	13379.8	13316.3	13369.3	13351.6	13397.5	13446.9	13489.3	13528.2	13584.7	13609.4
7.5°	13319.8	13277.4	13330.4	13383.4	13468.1	13542.3	13602.3	13690.6	13771.8	13785.9
10°	12970.2	12938.4	13062.0	13199.8	13432.8	13634.1	13764.8	13867.2	13955.4	13969.6
12.5°	12606.5	12567.7	12705.4	12892.5	13270.4	13634.1	13909.5	14043.7	14121.4	14167.3
15°	12546.5	12514.7	12592.4	12754.8	13069.1	13538.8	14008.4	14255.6	14322.7	14375.7
17.5°	12836.0	12776.0	12807.8	12864.3	13047.9	13450.5	14086.1	14495.7	14598.1	14654.6
20°	13507.0	13422.2	13372.8	13259.8	13228.0	13464.6	14079.0	14785.3	14919.5	14990.1
22.5°	14400.4	14343.9	14237.9	13951.9	13641.2	13637.6	14213.2	15156.1	15406.8	15473.9
25°	15480.9	15396.2	15262.0	14873.6	14276.8	13980.2	14439.2	15629.2	16049.5	16067.1
27.5°	16723.9	16596.8	16413.2	15901.1	15096.0	14516.9	14785.3	16173.1	16787.5	16780.4
30°	18034.0	17906.9	17712.7	17091.2	16077.7	15240.8	15265.5	16759.2	17663.2	17624.4
32.5°	18991.0	18895.6	18856.8	18376.5	17207.7	16095.4	15816.4	17409.0	18743.8	18708.5
35°	19725.5	19601.9	19647.8	19404.1	18440.1	17052.3	16490.9	18182.3	20057.4	20053.9
37.5°	20452.9	20343.4	20382.3	20219.8	19580.7	18267.1	17313.6	19128.7	21685.3	21763.0
40°	21116.8	21000.2	21155.6	21003.8	20467.0	19559.5	18249.4	20198.7	23571.0	23719.3
42.5°	21515.8	21424.0	21681.8	21685.3	21236.8	20650.7	19277.0	21378.1	25753.3	26085.2
45°	21653.5	21621.7	22010.2	22091.4	21918.4	21282.7	20202.2	22663.5	28105.1	28698.3
47.5°	21505.2	21445.2	21981.9	22282.1	22419.8	21579.4	20968.5	24054.8	30506.3	31375.0
50°	20756.6	20640.1	21438.1	22070.2	22561.1	21773.6	21741.8	25661.5	33236.0	34185.9
52.5°	19411.2	19322.9	20230.4	21328.7	22250.3	21868.9	22610.5	27416.5	35827.9	37056.8
55°	17691.5	17575.0	18574.3	20008.0	21477.0	21837.2	23479.2	29379.9	38886.0	40132.5
57.5°	14965.4	14732.3	15996.5	17691.5	20216.3	21798.3	24383.2	31332.6	41993.4	43487.1
60°	10989.2	10643.1	12193.4	14202.6	17751.5	21420.5	25502.6	33522.0	45722.4	47067.8
62.5°	6398.6	6197.3	7210.8	9085.9	13379.8	19195.8	26131.1	36068.0	49387.8	50800.3
65°	4968.4	4911.9	5000.2	5145.0	7447.4	14372.1	24192.5	38550.5	54049.1	55037.8
67.5°	4544.7	4502.3	4541.2	4269.3	3778.4	8005.3	19139.3	39179.0	59042.2	59642.5
70°	4039.7	3990.3	4117.4	3884.4	2973.3	3640.7	12366.4	36897.9	63014.9	64141.3
72.5°	3291.1	3234.6	3531.2	3425.3	2503.6	2337.7	6211.4	31477.4	62598.2	64935.9
75°	2528.4	2496.6	2849.7	2938.0	2041.1	1839.8	2980.4	23398.0	55087.3	57442.6
77.5°	1963.4	1938.6	2118.7	2440.1	1645.6	1426.6	1832.7	14841.8	41513.2	41926.3
80°	1472.5	1401.9	1567.9	1889.2	1281.8	1041.7	1243.0	8655.1	26240.6	23786.4
82.5°	921.7	886.3	1024.1	1260.7	904.0	716.8	808.7	4781.3	10516.0	6193.8
85°	526.2	512.0	557.9	720.4	490.8	413.2	462.6	2111.7	1921.0	1320.7
87.5°	211.9	204.8	254.2	321.3	180.1	151.8	162.4	508.5	423.7	392.0
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°
13401.0	0°	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0	13401.0
13454.0	2.5°	13439.9	13439.9	13390.4	13312.8	13224.5	13168.0	13076.2	13051.4	12956.1	12927.8
13574.1	5°	13602.3	13574.1	13422.2	13203.3	12903.1	12627.7	12324.0	12133.3	11864.9	11769.6
13810.7	7.5°	13807.1	13729.4	13468.1	12987.9	12359.3	11741.4	11098.7	10611.4	10145.2	9979.3
14004.9	10°	13994.3	13884.8	13439.9	12599.4	11511.8	10441.9	9417.8	8701.0	8157.2	7934.7
14220.3	12.5°	14181.4	13980.2	13252.7	11953.2	10307.7	8856.3	7765.2	7207.2	6871.8	6603.4
14396.8	15°	14358.0	14075.5	12963.2	11088.1	8987.0	7514.5	6709.3	6264.4	5996.0	5819.5
14654.6	17.5°	14562.8	14156.7	12528.8	9989.9	7729.9	6585.8	5928.9	5660.6	5607.6	5586.4
15007.7	20°	14848.8	14230.9	11956.8	8761.0	6804.7	5844.2	5505.2	5480.5	5476.9	5466.4
15431.5	22.5°	15156.1	14319.2	11201.1	7645.1	6017.2	5381.6	5321.6	5272.1	5240.4	5236.8
15943.5	25°	15519.8	14347.4	10254.7	6730.5	5346.3	5162.7	5092.0	5017.9	4996.7	4996.7
16526.2	27.5°	15872.9	14252.1	9153.0	5936.0	4968.4	4961.4	4869.6	4844.9	4841.3	4851.9
17190.0	30°	16226.0	14072.0	8058.3	5201.5	4749.5	4749.5	4717.7	4735.4	4749.5	4784.8
18101.1	32.5°	16702.7	13881.3	7143.7	4657.7	4558.8	4523.5	4555.3	4590.6	4604.7	4650.6
19298.2	35°	17401.9	13747.1	6416.3	4361.1	4361.1	4315.2	4332.8	4325.8	4294.0	4272.8
20746.0	37.5°	18327.1	13740.0	5815.9	4223.4	4195.1	4188.0	4191.6	4145.7	4022.1	3873.8
22497.5	40°	19439.4	13930.7	5353.4	4128.0	4106.8	4149.2	4128.0	4004.4	3665.4	3407.6
24651.5	42.5°	20933.2	14474.5	5056.7	4011.5	4075.0	4128.0	4043.3	3616.0	3386.5	3213.4
27105.8	45°	22691.7	15357.3	4904.9	3887.9	4015.0	4078.6	3669.0	3481.8	3298.2	3089.8
29782.4	47.5°	24683.3	16469.7	4869.6	3771.4	3880.8	3919.7	3510.0	3425.3	3217.0	2991.0
32473.2	50°	26851.5	17786.8	4964.9	3633.6	3686.6	3552.4	3457.1	3379.4	3164.0	2941.5
35231.1	52.5°	29093.8	19238.2	5155.6	3446.5	3492.4	3344.1	3435.9	3368.8	3132.2	2832.0
38080.8	55°	31297.3	20700.1	5339.2	3227.5	3294.6	3156.9	3375.9	3326.4	2987.4	2648.4
41121.2	57.5°	33536.1	22155.0	5519.3	3033.3	3104.0	2976.8	3280.5	3213.4	2825.0	2478.9
44440.6	60°	35863.2	23567.5	5604.1	2846.2	2895.6	2810.9	3135.7	3019.2	2641.4	2305.9
47703.4	62.5°	38042.0	24743.4	5466.4	2659.0	2690.8	2655.5	2945.0	2789.7	2457.7	2111.7
51104.0	65°	40227.8	25442.5	5042.6	2475.4	2482.5	2464.8	2676.7	2542.5	2242.3	1942.2
54080.9	67.5°	42208.8	25834.5	4368.1	2277.6	2260.0	2252.9	2426.0	2274.1	2034.0	1772.7
56344.4	70°	42629.1	24838.7	3337.0	2044.6	2044.6	2026.9	2150.5	1995.1	1804.5	1592.6
54723.5	72.5°	38935.4	20894.3	2369.5	1779.7	1808.0	1772.7	1875.1	1744.4	1571.4	1430.1
47163.2	75°	31396.2	15322.0	1723.2	1507.8	1557.3	1497.2	1592.6	1500.8	1352.5	1348.9
32501.5	77.5°	21572.3	9474.3	1250.1	1243.0	1278.3	1200.6	1310.1	1260.7	1126.5	1066.4
14146.1	80°	9205.9	3778.4	911.1	960.5	960.5	889.9	1017.0	1031.1	914.6	886.3
2729.6	82.5°	1832.7	1073.5	639.2	660.3	621.5	600.3	720.4	798.1	1101.7	1225.3
822.8	85°	550.9	395.5	384.9	360.2	317.8	321.3	423.7	801.6	988.7	565.0
271.9	87.5°	151.8	98.9	102.4	81.2	67.1	88.3	144.8	607.4	331.9	141.2
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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<u>180°</u>
13401.0
12973.8
11840.2
10000.5
7984.1
6691.7
5851.3
5600.5
5501.7
5275.7
5017.9
4880.2
4809.5
4689.5
4322.2
3877.3
3400.6
3206.4
3075.7
2973.3
2916.8
2810.9
2630.8
2471.9
2295.3
2108.1
1921.0
1751.5
1585.5
1387.8
1214.7
999.3
886.3
1228.9
487.3
120.1
0.0

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