

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: P957591

Luminaire Tested: **GALN-SB9D-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57465 lumens
Efficiency: N/A
Efficacy: 87.3 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

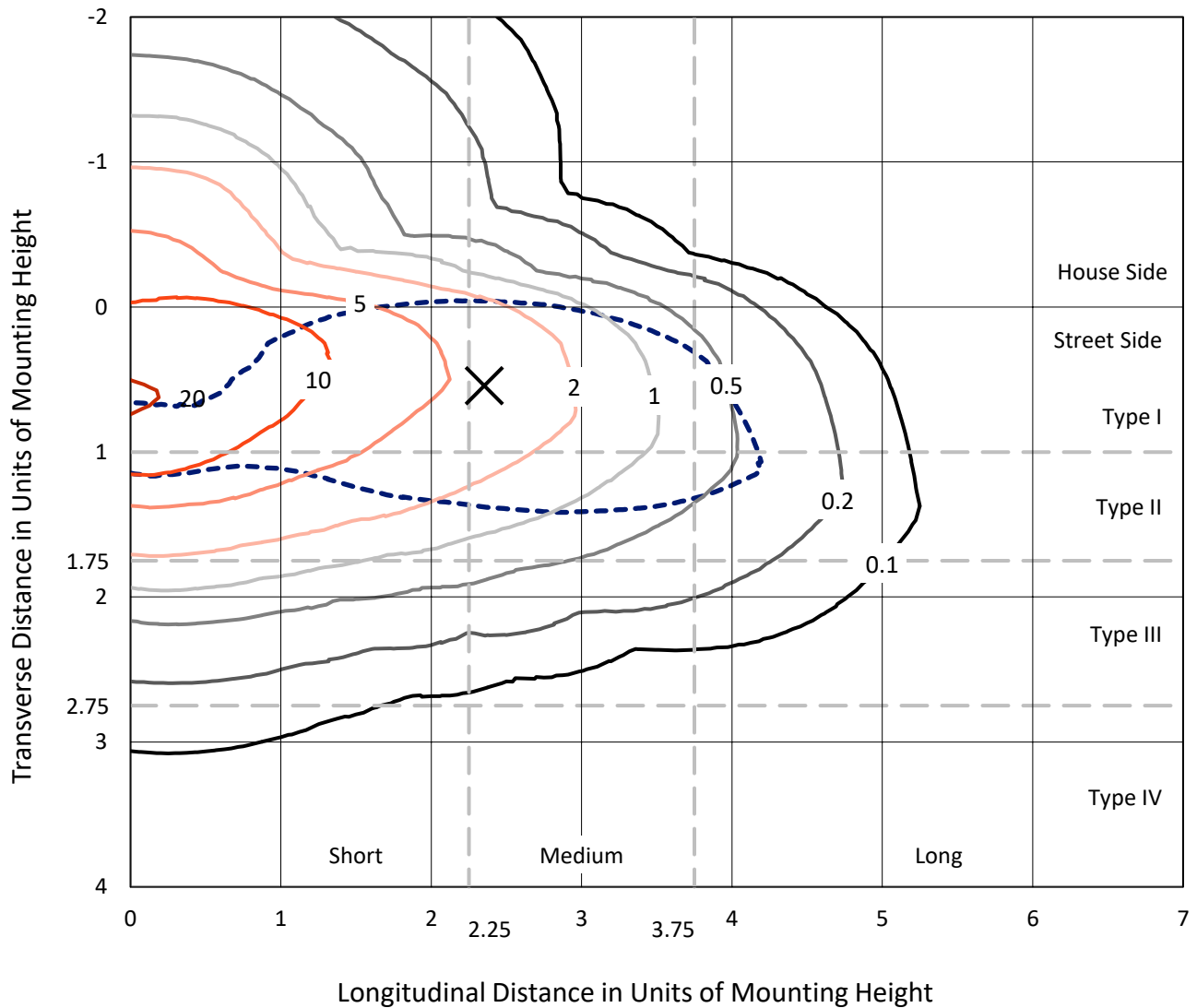
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

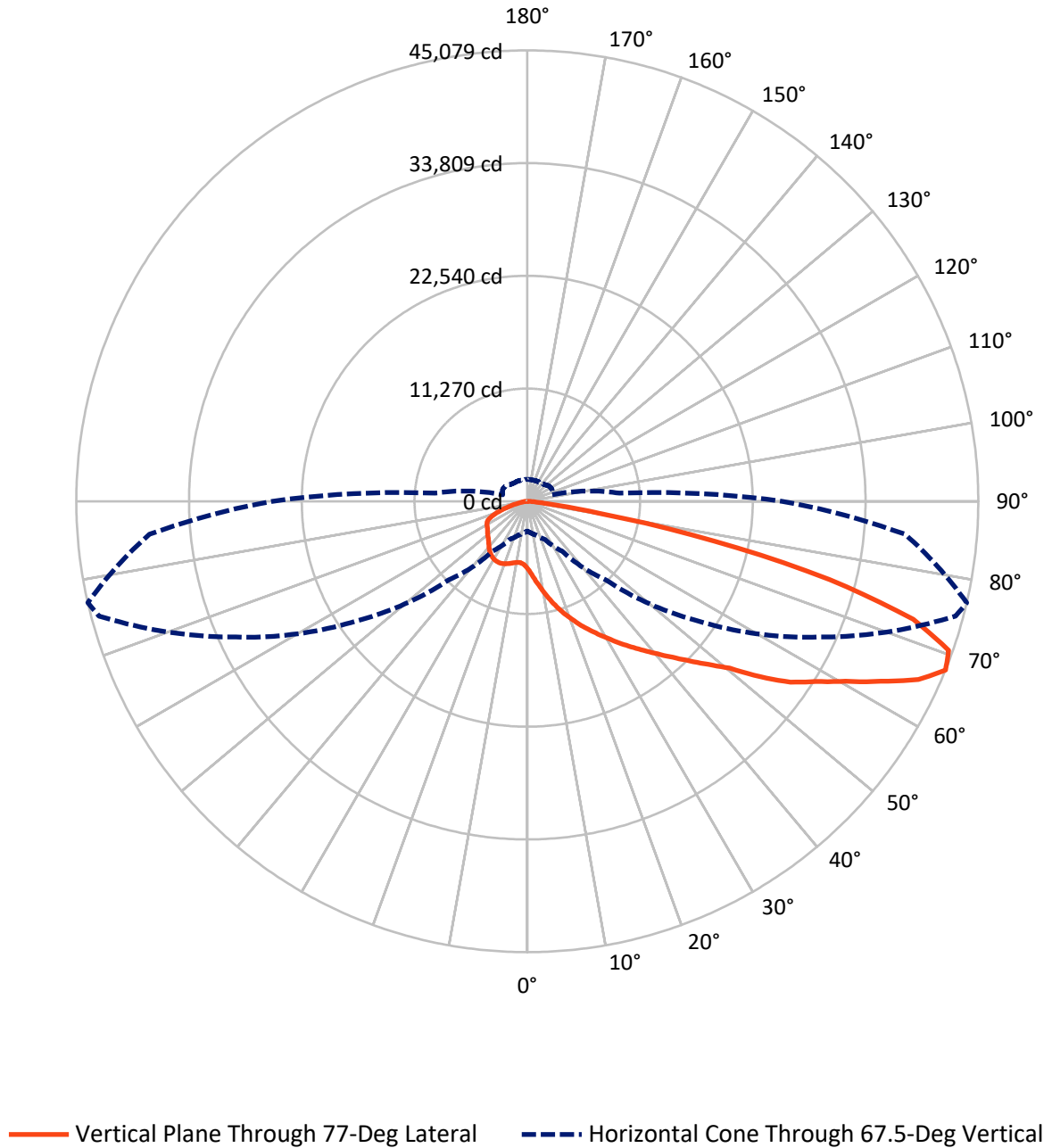
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10870.1	0.0	10870.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	46594.9	0.0	46594.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	57465.0	0.0	57465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.7	1.3
10°-20°	2596.4	4.5
20°-30°	4902.2	8.5
30°-40°	7897.3	13.7
40°-50°	10802.1	18.8
50°-60°	12184.9	21.2
60°-70°	11373.1	19.8
70°-80°	6234.3	10.8
80°-90°	752.0	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°	57465.0	100.0
0°-180°	57465.0	100.0

Coefficient of Utilization



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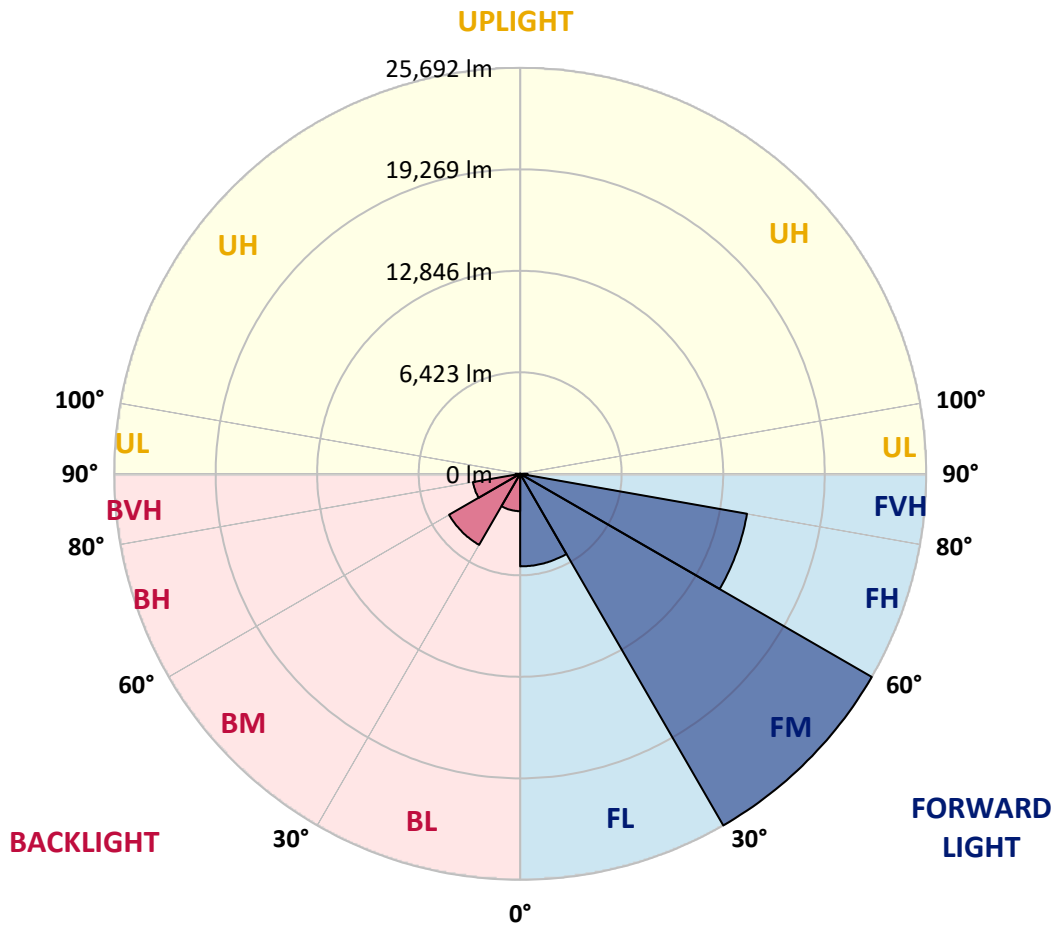
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5857.8	10.2			
FM (30°-60°)	25692.0	44.7			
FH (60°-80°)	14574.8	25.4			G5
FVH (80°-90°)	470.3	0.8			G3/500
BL (0°-30°)	2363.4	4.1	B3/2500		
BM (30°-60°)	5192.4	9.0	B4/8500		
BH (60°-80°)	3032.6	5.3	B4/5000		G4/5000
BVH (80°-90°)	281.7	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°	77°
0°	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4
2.5°	8442.1	8501.5	8427.3	8427.3	8178.1	8047.6	7798.4	7608.6	7267.5	7208.1
5°	9978.7	10052.8	9949.0	9904.5	9610.9	9340.9	8922.7	8510.4	7902.3	7840.0
7.5°	11168.2	11263.1	11171.1	11123.7	10862.6	10560.1	10070.6	9495.2	8637.9	8516.3
10°	12138.2	12153.0	12123.3	12141.1	11936.4	11687.3	11186.0	10515.6	9444.7	9278.6
12.5°	12686.9	12755.1	12814.5	12921.3	12885.7	12731.4	12280.5	11479.6	10299.0	10085.5
15°	12945.0	13063.6	13197.1	13443.3	13642.1	13680.6	13336.5	12514.9	11168.2	10910.1
17.5°	13036.9	13149.7	13360.3	13716.2	14143.4	14431.1	14276.9	13520.5	12028.4	11731.8
20°	13502.7	13535.3	13662.8	14001.0	14463.7	14941.3	15057.0	14487.5	12879.7	12544.5
22.5°	14499.3	14434.1	14469.7	14623.9	14956.2	15418.9	15682.9	15341.8	13754.8	13369.2
25°	16145.6	15955.8	15766.0	15588.0	15757.1	16018.1	16317.7	16196.1	14671.4	14181.9
27.5°	18225.0	17993.7	17575.4	16991.0	16786.4	16878.3	17011.8	16988.1	15519.8	15024.4
30°	20271.8	20001.8	19503.5	18658.1	18118.2	17875.0	17774.1	17705.9	16442.3	15914.3
32.5°	21906.2	21692.6	21203.2	20257.0	19473.8	19058.6	18723.4	18480.1	17406.3	16878.3
35°	23336.0	23137.2	22576.6	21544.3	20693.0	20251.0	19812.0	19292.9	18408.9	17875.0
37.5°	24641.2	24442.4	23674.1	22600.3	21743.1	21437.5	21046.0	20165.0	19414.5	18910.2
40°	25465.8	25421.3	24703.5	23487.3	22597.4	22446.1	22315.6	21176.5	20529.9	20061.2
42.5°	25676.4	25774.3	25204.8	24205.1	23356.7	23235.1	23540.7	22321.5	21781.6	21333.7
45°	25169.2	25451.0	25077.2	24397.9	23896.6	23831.4	24626.3	23573.3	23166.9	22757.6
47.5°	23884.8	24362.3	24208.1	24113.2	24042.0	24323.8	25581.5	24902.2	24736.1	24380.1
50°	21292.2	22196.9	22466.9	23066.1	23754.2	24706.4	26450.6	26352.7	26569.3	26210.3
52.5°	16810.1	18055.9	19622.2	21123.1	22870.3	24578.9	27405.8	28435.1	29348.7	29152.9
55°	13876.4	14437.0	15641.4	18394.1	21155.7	24042.0	27835.9	30117.0	32107.4	31932.4
57.5°	11622.0	12123.3	12864.9	15163.8	18563.2	22822.8	28102.9	31143.3	33996.9	33979.1
60°	9204.5	9735.4	10494.8	12123.3	15534.6	20716.7	28043.5	32312.0	36408.5	36556.8
62.5°	6475.5	7059.8	7902.3	9421.0	12440.7	17987.7	26833.3	33157.4	39247.3	39650.7
65°	4256.7	4642.3	5277.1	6588.2	9269.7	14478.6	24522.5	33267.2	42284.8	42967.0
67.5°	2984.1	3132.4	3506.2	4218.1	6110.6	11102.9	20841.3	32131.1	44310.8	45079.1
70°	2328.6	2402.7	2592.6	2877.3	3838.4	7466.2	15970.6	29176.7	43877.7	44678.6
72.5°	2011.2	2082.4	2153.5	2189.1	2574.8	4609.7	10818.1	24395.0	39799.0	40341.9
75°	1824.3	1842.1	1901.4	1889.5	1963.7	2990.0	6244.1	17774.1	31401.4	31214.5
77.5°	1533.6	1557.3	1655.2	1640.4	1744.2	2043.8	3242.2	11470.7	20357.8	19088.2
80°	1299.2	1311.1	1417.9	1400.1	1515.8	1480.2	1655.2	5846.6	8634.9	7314.9
82.5°	450.9	557.7	1082.7	1115.3	1156.9	895.8	955.2	2384.9	2637.1	2020.1
85°	219.5	234.3	551.7	783.1	780.1	450.9	465.7	851.3	830.6	652.6
87.5°	35.6	44.5	65.3	305.5	243.2	118.7	160.2	166.1	172.0	148.3
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°
6742.4	0°	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4	6742.4
6982.7	2.5°	6816.6	6668.3	6356.8	6069.1	5843.6	5627.1	5505.5	5401.7	5342.3	5330.5
7309.0	5°	7000.5	6695.0	6128.4	5650.8	5339.4	5108.0	4986.4	4909.2	4870.7	4847.0
7748.0	7.5°	7264.5	6816.6	6009.8	5466.9	5140.6	4974.5	4912.2	4900.3	4897.4	4900.3
8279.0	10°	7629.4	7015.3	5997.9	5422.4	5149.5	5057.6	5054.6	5057.6	5069.4	5072.4
8857.4	12.5°	8023.9	7220.0	6045.3	5461.0	5262.2	5211.8	5202.9	5199.9	5208.8	5214.8
9441.8	15°	8454.0	7489.9	6125.4	5544.0	5386.8	5333.4	5324.5	5306.7	5303.8	5300.8
10055.8	17.5°	8896.0	7756.9	6214.4	5633.0	5466.9	5392.8	5360.1	5318.6	5286.0	5277.1
10690.6	20°	9343.9	8020.9	6276.7	5677.5	5472.8	5369.0	5303.8	5232.6	5176.2	5143.6
11331.3	22.5°	9821.5	8296.8	6315.3	5665.7	5419.5	5277.1	5158.4	5075.4	4989.3	4933.0
11978.0	25°	10287.2	8537.0	6312.3	5603.4	5315.6	5134.7	4983.4	4876.6	4758.0	4698.6
12645.4	27.5°	10735.1	8753.6	6238.2	5493.6	5167.3	4965.6	4784.7	4657.1	4541.4	4485.1
13318.7	30°	11197.8	8934.5	6122.5	5333.4	4992.3	4769.8	4571.1	4461.3	4357.5	4304.1
14030.7	32.5°	11657.6	9100.6	5959.3	5134.7	4790.6	4577.0	4381.2	4280.4	4218.1	4218.1
14796.0	35°	12144.1	9216.3	5742.8	4903.3	4577.0	4372.3	4218.1	4158.8	4152.8	4117.2
15605.8	37.5°	12657.3	9290.5	5478.8	4666.0	4366.4	4173.6	4126.1	4055.0	3995.6	3918.5
16495.7	40°	13197.1	9364.7	5161.4	4419.8	4143.9	4037.2	4016.4	3921.5	3752.4	3562.5
17504.2	42.5°	13852.7	9415.1	4832.1	4173.6	3909.6	3874.0	3903.7	3740.5	3470.6	3328.2
18720.4	45°	14612.1	9498.1	4529.6	3930.4	3669.3	3669.3	3793.9	3580.3	3357.9	3268.9
20108.6	47.5°	15596.9	9690.9	4247.8	3663.4	3446.9	3506.2	3550.7	3387.5	3262.9	3153.2
21799.4	50°	17020.7	10153.7	3957.1	3393.5	3277.8	3396.4	3334.1	3239.2	3093.9	3004.9
24486.9	52.5°	18788.6	10426.6	3699.0	3150.2	3132.4	3251.1	3162.1	3073.1	2963.3	2844.7
26524.8	55°	19993.0	10477.0	3482.5	2972.2	3034.5	3022.7	2990.0	2910.0	2850.6	2693.4
28535.9	57.5°	21339.7	10577.9	3304.5	2865.5	2972.2	2841.7	2829.9	2761.6	2684.5	2577.7
30989.1	60°	22950.4	10735.1	3150.2	2823.9	2918.9	2723.1	2663.7	2637.1	2559.9	2506.5
33940.6	62.5°	24706.4	10877.5	2993.0	2829.9	2856.6	2607.4	2518.4	2509.5	2462.0	2444.2
36711.1	65°	25904.8	10488.9	2797.2	2823.9	2758.7	2488.7	2376.0	2373.1	2334.5	2328.6
37912.4	67.5°	25486.6	9257.9	2533.2	2740.9	2657.8	2370.1	2245.5	2233.6	2183.2	2186.2
36657.7	70°	23392.3	7501.8	2168.4	2536.2	2533.2	2263.3	2109.0	2070.5	2002.3	2014.1
31873.0	72.5°	19464.9	5558.9	1678.9	2195.1	2334.5	2165.4	1951.8	1889.5	1803.5	1815.4
23528.8	75°	14057.4	3779.1	1222.1	1670.0	2031.9	2049.7	1797.6	1690.8	1587.0	1604.8
13096.3	77.5°	7193.3	2141.7	898.8	1150.9	1595.9	1862.8	1658.2	1515.8	1492.1	1658.2
3776.1	80°	2346.4	1073.8	622.9	806.8	1047.1	1524.7	1453.5	1290.3	1284.4	1323.0
792.0	82.5°	700.0	453.8	400.5	531.0	578.4	1168.7	1254.8	975.9	839.5	884.0
264.0	85°	240.3	219.5	228.4	264.0	275.9	685.2	878.0	646.7	611.1	673.4
59.3	87.5°	56.4	77.1	65.3	59.3	59.3	166.1	341.1	269.9	373.8	249.2
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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180°
6742.4
5330.5
4844.0
4909.2
5075.4
5217.7
5297.8
5286.0
5155.5
4935.9
4698.6
4482.1
4301.2
4221.1
4108.3
3906.6
3535.8
3331.2
3283.7
3150.2
2996.0
2821.0
2696.4
2542.1
2521.4
2444.2
2325.6
2186.2
2026.0
1812.4
1610.7
1634.4
1136.1
913.6
664.5
240.3
0.0

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