

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: P957486

Luminaire Tested: **GALN-SB9D-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957486
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-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 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: 82093 lumens
Efficiency: N/A
Efficacy: 124.8 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

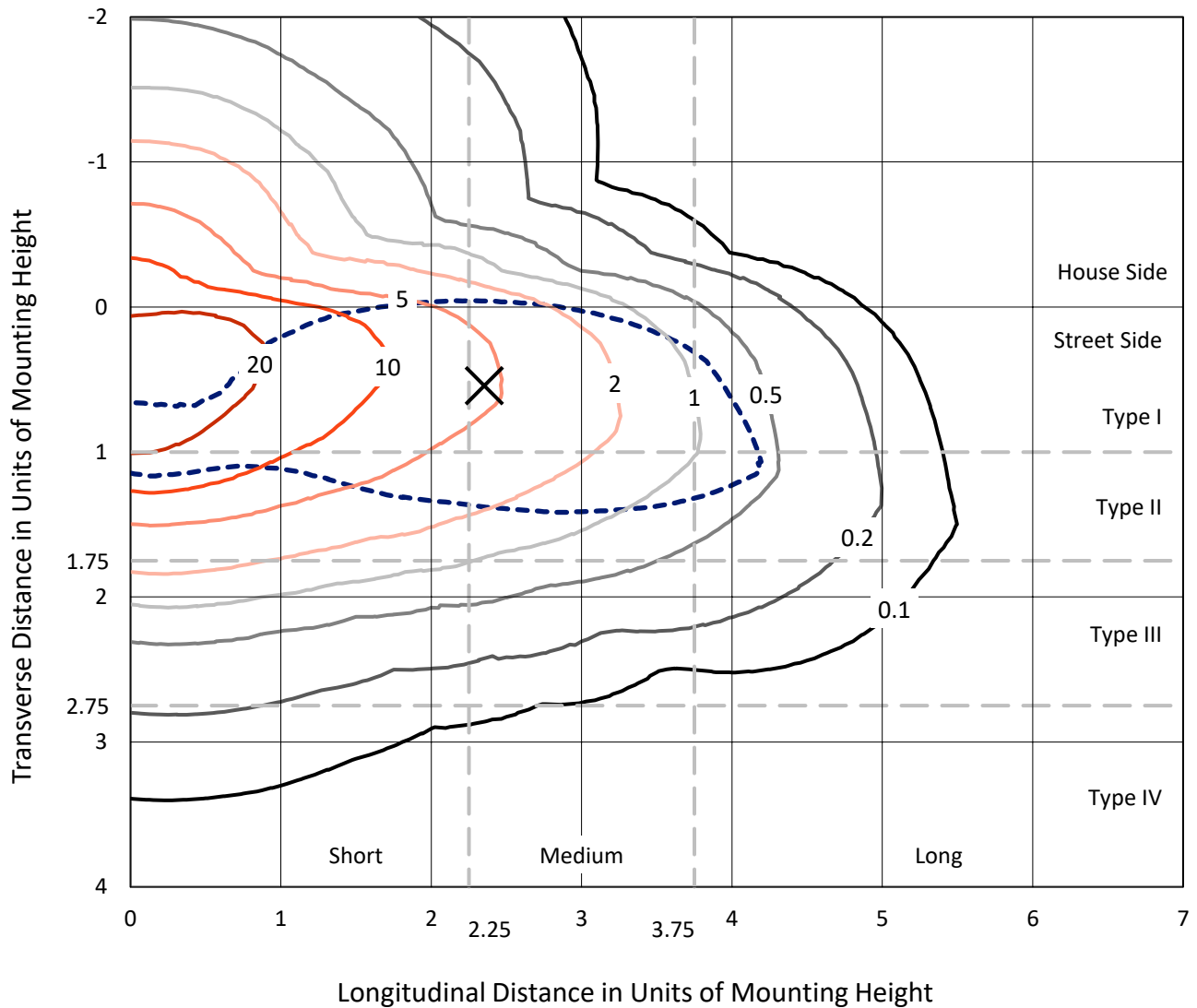
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

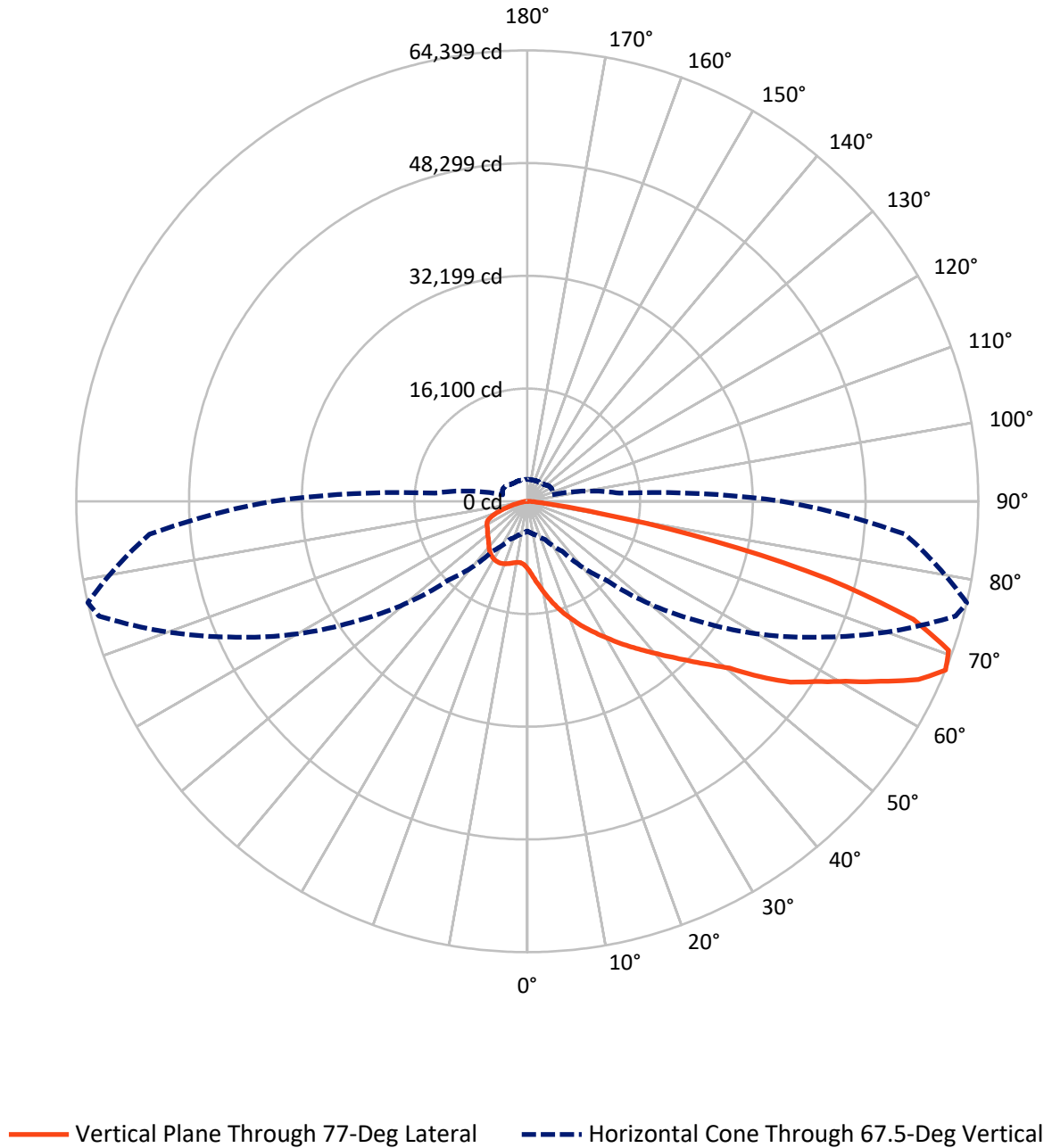
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.1 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	15528.7	0.0	15528.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	66564.3	0.0	66564.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	82093.0	0.0	82093.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.4	1.3
10°-20°	3709.1	4.5
20°-30°	7003.1	8.5
30°-40°	11281.9	13.7
40°-50°	15431.6	18.8
50°-60°	17407.0	21.2
60°-70°	16247.3	19.8
70°-80°	8906.2	10.8
80°-90°	1074.3	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°	82093.0	100.0
0°-180°	82093.0	100.0

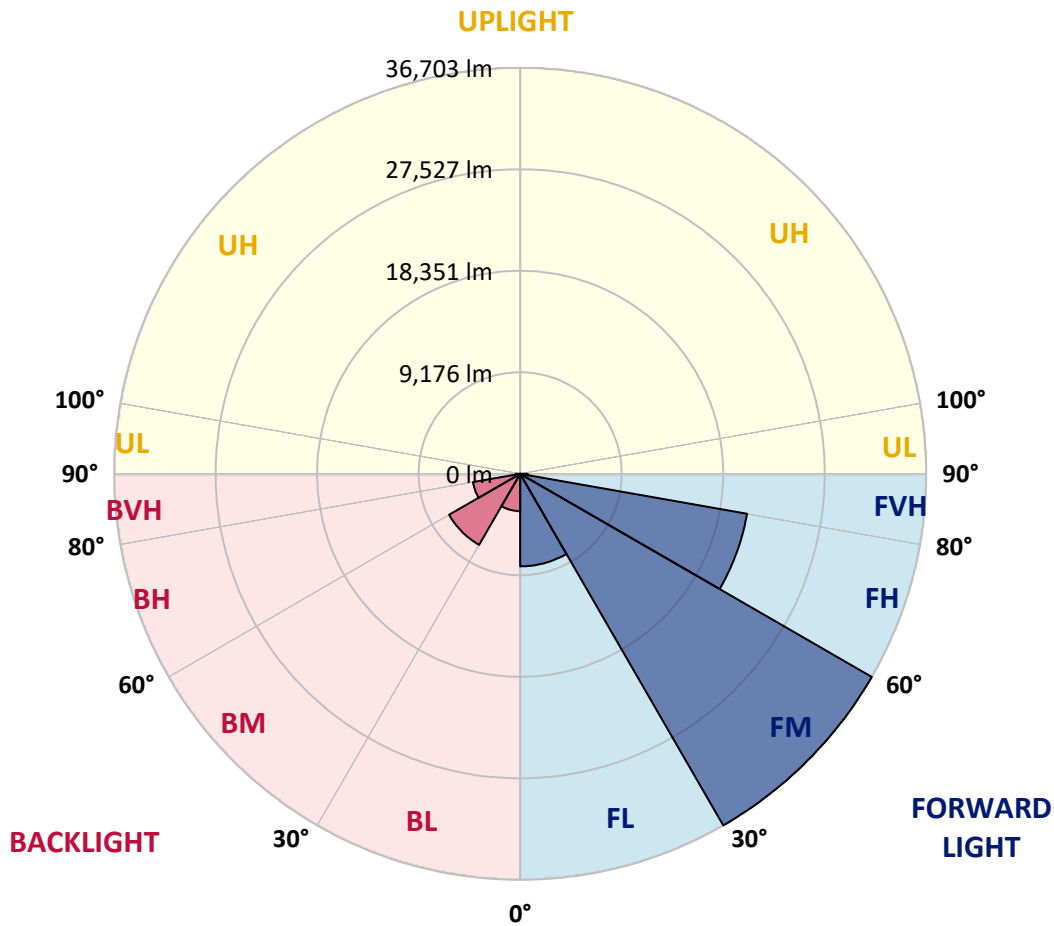


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8368.4	10.2			
FM (30°-60°)	36702.9	44.7			
FH (60°-80°)	20821.2	25.4			G5
FVH (80°-90°)	671.8	0.8			G4/750
BL (0°-30°)	3376.3	4.1	B4/5000		
BM (30°-60°)	7417.7	9.0	B4/8500		
BH (60°-80°)	4332.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	402.5	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°	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1
2.5°	12060.2	12145.0	12039.0	12039.0	11683.1	11496.6	11140.6	10869.4	10382.1	10297.4
5°	14255.3	14361.2	14212.9	14149.3	13729.8	13344.2	12746.7	12157.7	11289.0	11200.0
7.5°	15954.6	16090.2	15958.8	15891.0	15518.1	15085.8	14386.6	13564.5	12339.9	12166.1
10°	17340.2	17361.4	17319.1	17344.5	17052.1	16696.1	15980.0	15022.3	13492.5	13255.2
12.5°	18124.2	18221.7	18306.4	18459.0	18408.1	18187.8	17543.7	16399.5	14712.9	14407.8
15°	18492.9	18662.4	18853.1	19204.8	19488.7	19543.8	19052.2	17878.4	15954.6	15585.9
17.5°	18624.2	18785.3	19086.1	19594.7	20204.9	20615.9	20395.6	19315.0	17183.5	16759.7
20°	19289.5	19336.2	19518.4	20001.5	20662.5	21344.8	21510.0	20696.4	18399.6	17920.8
22.5°	20713.4	20620.1	20671.0	20891.4	21366.0	22027.0	22404.2	21916.9	19649.7	19098.9
25°	23065.2	22794.0	22522.8	22268.6	22510.1	22883.0	23311.0	23137.3	20959.2	20260.0
27.5°	26035.8	25705.3	25107.8	24273.0	23980.6	24111.9	24302.6	24268.7	22171.1	21463.4
30°	28959.7	28574.1	27862.2	26654.5	25883.2	25535.8	25391.7	25294.2	23489.0	22734.7
32.5°	31294.7	30989.6	30290.3	28938.6	27819.8	27226.6	26747.7	26400.2	24866.2	24111.9
35°	33337.2	33053.3	32252.4	30777.7	29561.5	28930.1	28302.9	27561.3	26298.5	25535.8
37.5°	35201.7	34917.8	33820.3	32286.3	31061.6	30625.1	30065.8	28807.2	27735.1	27014.7
40°	36379.8	36316.2	35290.7	33553.3	32282.0	32065.9	31879.4	30252.2	29328.4	28658.9
42.5°	36680.6	36820.5	36006.9	34578.8	33366.8	33193.1	33629.6	31887.9	31116.7	30476.8
45°	35956.0	36358.6	35824.6	34854.2	34138.1	34044.9	35180.5	33676.2	33095.6	32510.8
47.5°	34121.1	34803.4	34583.0	34447.4	34345.7	34748.3	36545.0	35574.6	35337.3	34828.8
50°	30417.5	31709.9	32095.6	32951.6	33934.7	35295.0	37786.7	37646.8	37956.2	37443.4
52.5°	24014.5	25794.3	28031.7	30175.9	32671.9	35112.7	39151.2	40621.6	41926.8	41647.1
55°	19823.5	20624.4	22344.9	26277.3	30222.5	34345.7	39765.6	43024.3	45867.8	45617.7
57.5°	16602.9	17319.1	18378.5	21662.6	26518.9	32604.1	40147.0	44490.5	48567.1	48541.7
60°	13149.3	13907.8	14992.6	17319.1	22192.3	29595.4	40062.2	46160.2	52012.3	52224.2
62.5°	9250.7	10085.5	11289.0	13458.6	17772.5	25696.8	38333.3	47367.9	56067.7	56644.0
65°	6081.0	6631.8	7538.7	9411.7	13242.5	20683.7	35032.2	47524.7	60407.0	61381.6
67.5°	4263.0	4474.9	5008.8	6025.9	8729.5	15861.3	29773.4	45901.7	63301.2	64398.8
70°	3326.5	3432.5	3703.7	4110.5	5483.5	10666.0	22815.2	41681.0	62682.5	63826.7
72.5°	2873.1	2974.8	3076.5	3127.3	3678.2	6585.2	15454.5	34850.0	56855.8	57631.3
75°	2606.1	2631.5	2716.3	2699.3	2805.3	4271.5	8920.1	25391.7	44859.2	44592.2
77.5°	2190.8	2224.7	2364.6	2343.4	2491.7	2919.7	4631.7	16386.8	29082.6	27268.9
80°	1856.1	1873.0	2025.6	2000.1	2165.4	2114.6	2364.6	8352.3	12335.6	10449.9
82.5°	644.1	796.7	1546.7	1593.3	1652.7	1279.8	1364.5	3407.0	3767.2	2885.8
85°	313.6	334.8	788.2	1118.7	1114.5	644.1	665.3	1216.2	1186.5	932.3
87.5°	50.9	63.6	93.2	436.5	347.5	169.5	228.8	237.3	245.8	211.9
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°
9632.1	0°	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1	9632.1
9975.3	2.5°	9738.0	9526.1	9081.2	8670.1	8348.1	8038.7	7865.0	7716.7	7631.9	7615.0
10441.4	5°	10000.7	9564.3	8754.9	8072.6	7627.7	7297.1	7123.4	7013.2	6958.1	6924.2
11068.6	7.5°	10377.9	9738.0	8585.4	7809.9	7343.8	7106.5	7017.5	7000.5	6996.3	7000.5
11827.1	10°	10899.1	10021.9	8568.4	7746.3	7356.5	7225.1	7220.9	7225.1	7242.1	7246.3
12653.5	12.5°	11462.7	10314.3	8636.2	7801.4	7517.5	7445.5	7432.7	7428.5	7441.2	7449.7
13488.3	15°	12077.2	10699.9	8750.6	7920.1	7695.5	7619.2	7606.5	7581.1	7576.8	7572.6
14365.5	17.5°	12708.6	11081.3	8877.8	8047.2	7809.9	7704.0	7657.3	7598.0	7551.4	7538.7
15272.3	20°	13348.4	11458.5	8966.8	8110.8	7818.4	7670.1	7576.8	7475.1	7394.6	7348.0
16187.6	22.5°	14030.7	11852.6	9021.8	8093.8	7742.1	7538.7	7369.2	7250.5	7127.6	7047.1
17111.4	25°	14696.0	12195.8	9017.6	8004.8	7593.8	7335.3	7119.2	6966.6	6797.1	6712.4
18064.9	27.5°	15335.9	12505.2	8911.7	7848.0	7381.9	7093.7	6835.2	6653.0	6487.8	6407.2
19026.8	30°	15996.9	12763.6	8746.4	7619.2	7131.9	6814.1	6530.1	6373.3	6225.0	6148.8
20043.8	32.5°	16653.8	13000.9	8513.3	7335.3	6843.7	6538.6	6258.9	6114.9	6025.9	6025.9
21137.1	35°	17348.7	13166.2	8204.0	7004.7	6538.6	6246.2	6025.9	5941.1	5932.6	5881.8
22294.0	37.5°	18081.8	13272.2	7826.8	6665.7	6237.7	5962.3	5894.5	5792.8	5708.0	5597.9
23565.3	40°	18853.1	13378.1	7373.4	6314.0	5919.9	5767.4	5737.7	5602.1	5360.6	5089.4
25006.1	42.5°	19789.6	13450.1	6903.0	5962.3	5585.2	5534.3	5576.7	5343.6	4958.0	4754.6
26743.5	45°	20874.4	13568.8	6470.8	5614.8	5241.9	5241.9	5419.9	5114.8	4797.0	4669.8
28726.7	47.5°	22281.3	13844.2	6068.2	5233.4	4924.1	5008.8	5072.4	4839.3	4661.4	4504.6
31142.1	50°	24315.3	14505.3	5653.0	4847.8	4682.5	4852.0	4763.1	4627.5	4419.8	4292.7
34981.4	52.5°	26840.9	14895.2	5284.3	4500.3	4474.9	4644.4	4517.3	4390.2	4233.4	4063.9
37892.6	55°	28561.4	14967.2	4974.9	4246.1	4335.1	4318.1	4271.5	4157.1	4072.3	3847.7
40765.7	57.5°	30485.3	15111.3	4720.7	4093.5	4246.1	4059.6	4042.7	3945.2	3835.0	3682.5
44270.2	60°	32786.3	15335.9	4500.3	4034.2	4169.8	3890.1	3805.4	3767.2	3657.0	3580.8
48486.6	62.5°	35295.0	15539.3	4275.7	4042.7	4080.8	3724.8	3597.7	3585.0	3517.2	3491.8
52444.5	65°	37006.9	14984.1	3996.1	4034.2	3941.0	3555.3	3394.3	3390.1	3335.0	3326.5
54160.7	67.5°	36409.4	13225.5	3618.9	3915.5	3796.9	3385.8	3207.9	3190.9	3118.9	3123.1
52368.2	70°	33417.7	10716.9	3097.7	3623.1	3618.9	3233.3	3012.9	2957.8	2860.4	2877.3
45533.0	72.5°	27807.1	7941.3	2398.5	3135.8	3335.0	3093.4	2788.3	2699.3	2576.5	2593.4
33612.6	75°	20082.0	5398.7	1745.9	2385.8	2902.8	2928.2	2568.0	2415.4	2267.1	2292.5
18709.0	77.5°	10276.2	3059.5	1284.0	1644.2	2279.8	2661.2	2368.8	2165.4	2131.5	2368.8
5394.5	80°	3351.9	1534.0	889.9	1152.6	1495.9	2178.1	2076.4	1843.4	1834.9	1890.0
1131.4	82.5°	1000.1	648.4	572.1	758.5	826.3	1669.6	1792.5	1394.2	1199.2	1262.8
377.1	85°	343.2	313.6	326.3	377.1	394.1	978.9	1254.3	923.8	872.9	961.9
84.8	87.5°	80.5	110.2	93.2	84.8	84.8	237.3	487.3	385.6	533.9	356.0
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°
9632.1
7615.0
6920.0
7013.2
7250.5
7453.9
7568.3
7551.4
7364.9
7051.4
6712.4
6403.0
6144.5
6030.1
5869.1
5580.9
5051.2
4758.8
4691.0
4500.3
4280.0
4030.0
3852.0
3631.6
3602.0
3491.8
3322.3
3123.1
2894.3
2589.2
2301.0
2334.9
1623.0
1305.2
949.2
343.2
0.0

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