

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: P957507

Luminaire Tested: **GALN-SB9D-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957507
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-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 84829 lumens
Efficiency: N/A
Efficacy: 128.9 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

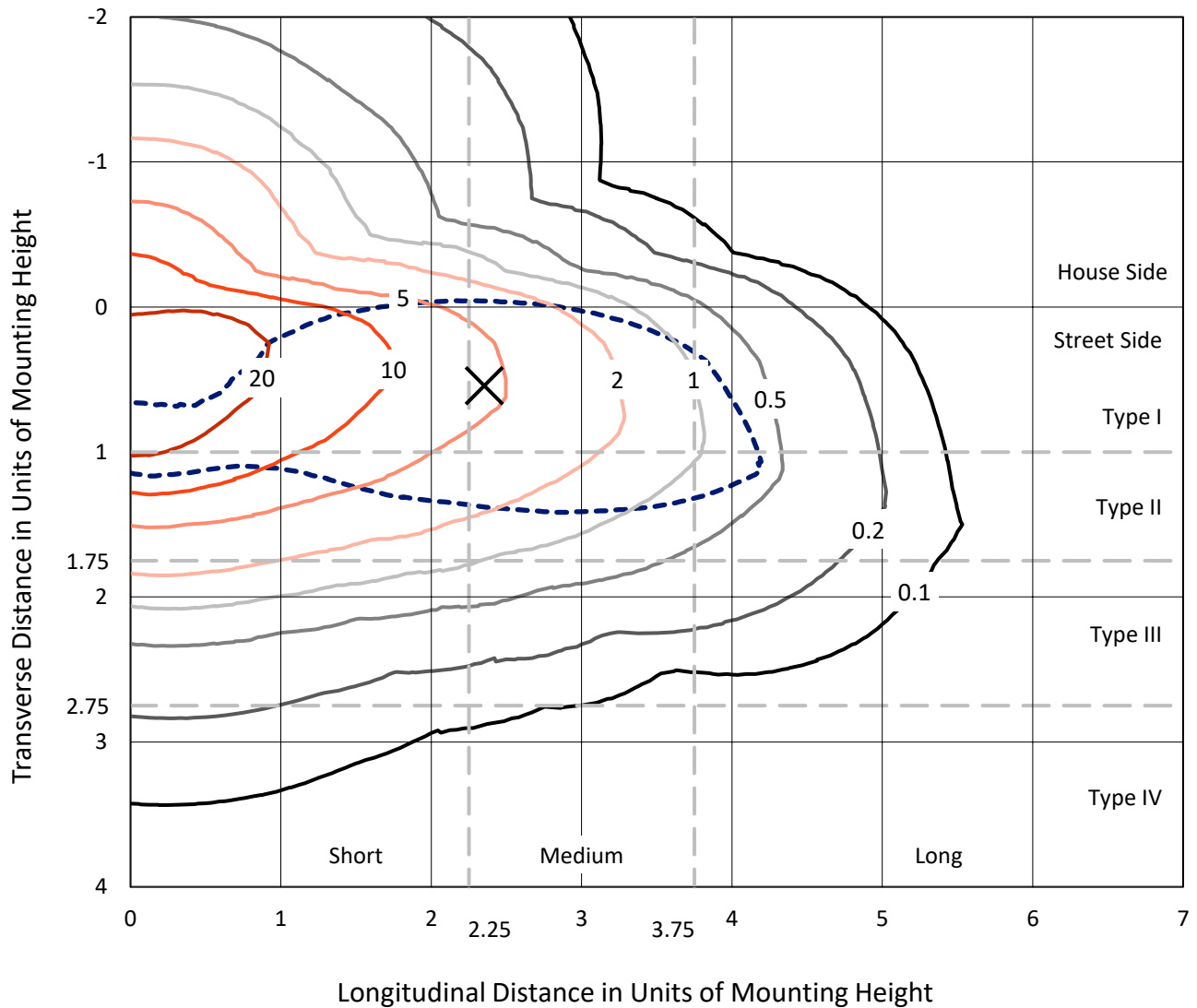
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

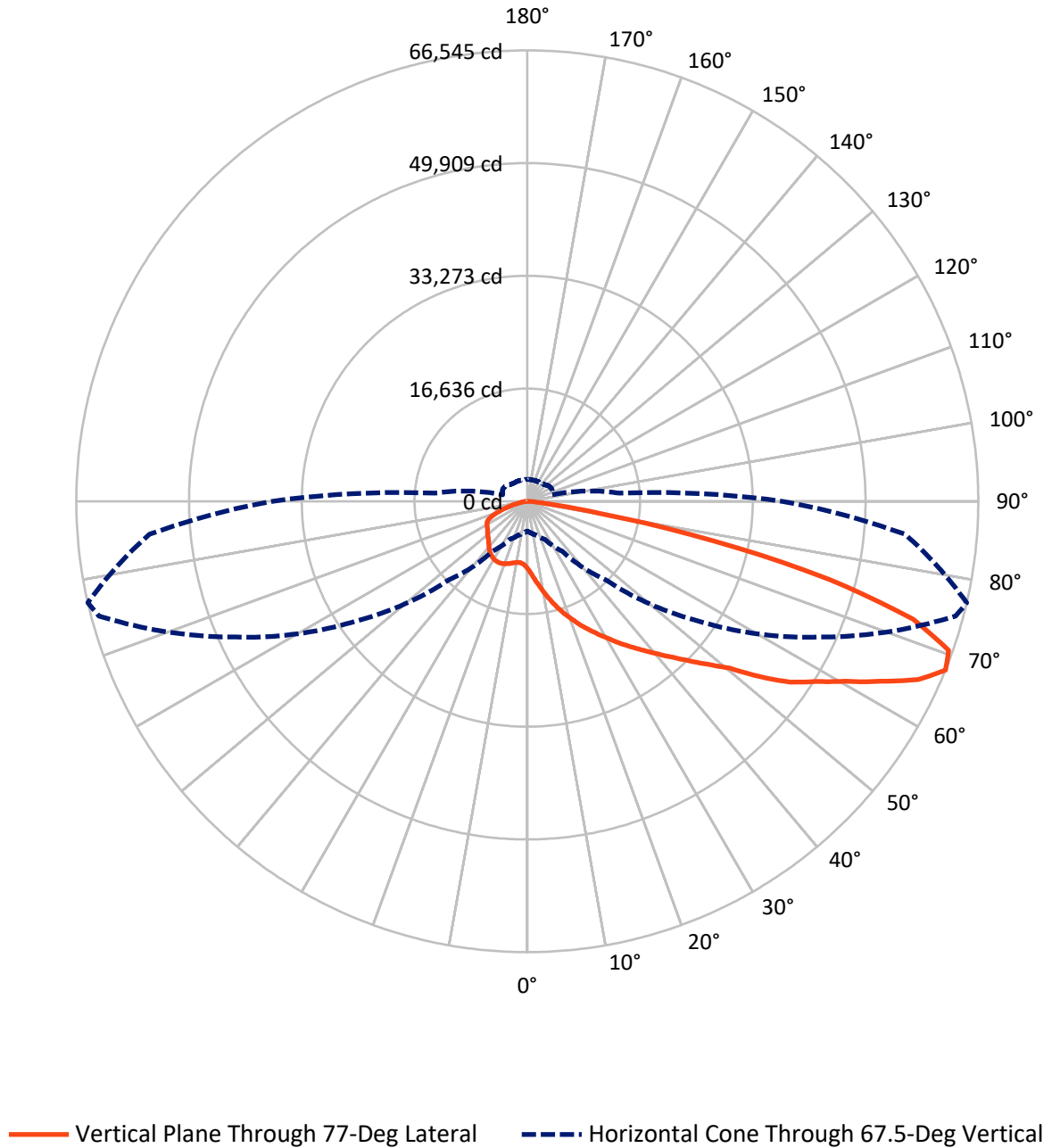
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.1 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	16046.2	0.0	16046.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	68782.8	0.0	68782.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	84829.0	0.0	84829.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.8	1.3
10°-20°	3832.7	4.5
20°-30°	7236.5	8.5
30°-40°	11657.9	13.7
40°-50°	15945.9	18.8
50°-60°	17987.1	21.2
60°-70°	16788.7	19.8
70°-80°	9203.1	10.8
80°-90°	1110.1	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°	84829.0	100.0
0°-180°	84829.0	100.0



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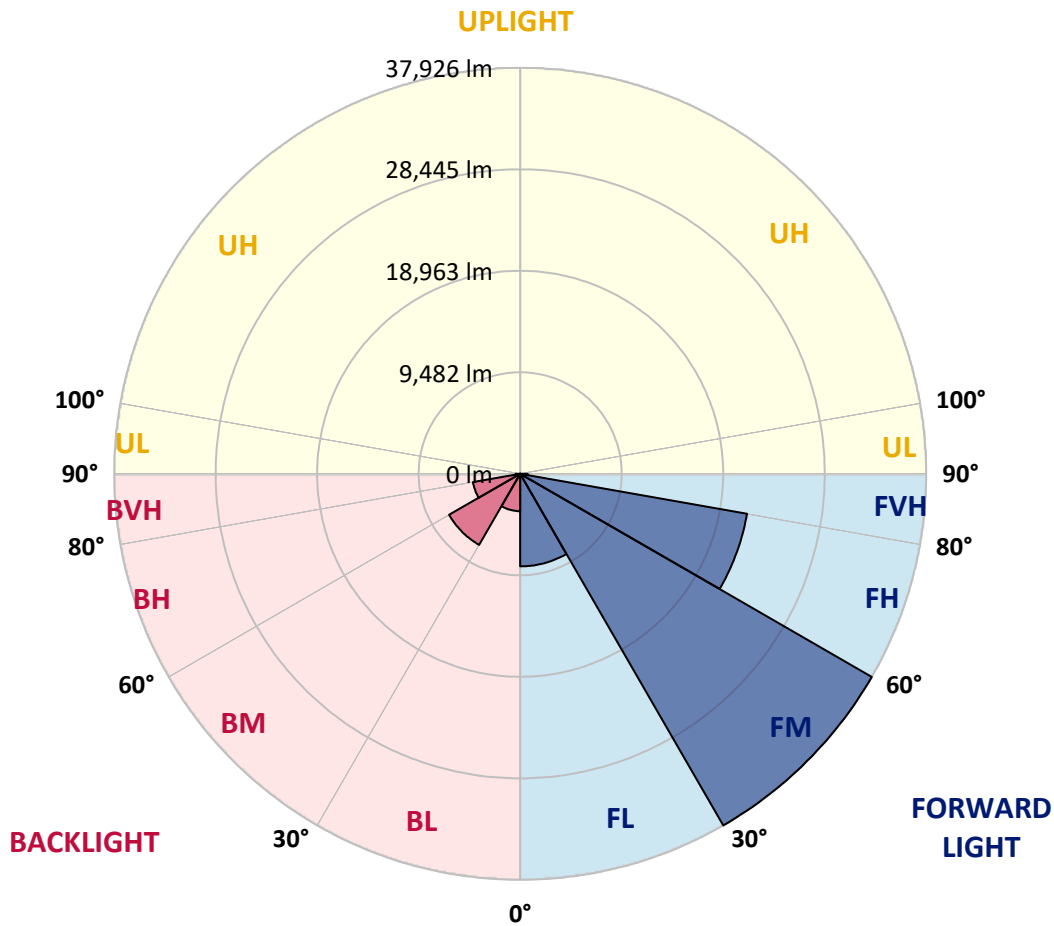
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8647.3	10.2			
FM (30°-60°)	37926.1	44.7			
FH (60°-80°)	21515.2	25.4			G5
FVH (80°-90°)	694.2	0.8			G4/750
BL (0°-30°)	3488.8	4.1	B4/5000		
BM (30°-60°)	7664.9	9.0	B4/8500		
BH (60°-80°)	4476.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	415.9	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°	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1
2.5°	12462.1	12549.7	12440.3	12440.3	12072.4	11879.8	11511.9	11231.7	10728.1	10640.6
5°	14730.4	14839.8	14686.6	14620.9	14187.4	13788.9	13171.5	12562.9	11665.2	11573.2
7.5°	16486.3	16626.4	16490.7	16420.6	16035.3	15588.6	14866.1	14016.6	12751.1	12571.6
10°	17918.2	17940.1	17896.3	17922.5	17620.4	17252.6	16512.6	15522.9	13942.2	13697.0
12.5°	18728.2	18829.0	18916.5	19074.2	19021.6	18793.9	18128.3	16946.1	15203.3	14888.0
15°	19109.2	19284.4	19481.4	19844.9	20138.2	20195.2	19687.2	18474.3	16486.3	16105.3
17.5°	19245.0	19411.3	19722.2	20247.7	20878.3	21303.0	21075.3	19958.7	17756.1	17318.3
20°	19932.4	19980.6	20168.9	20668.1	21351.2	22056.2	22226.9	21386.2	19012.9	18518.1
22.5°	21403.7	21307.4	21359.9	21587.6	22078.1	22761.2	23150.9	22647.3	20304.6	19735.4
25°	23834.0	23553.7	23273.5	23010.7	23260.3	23645.7	24087.9	23908.4	21657.7	20935.2
27.5°	26903.5	26562.0	25944.6	25081.9	24779.8	24915.5	25112.6	25077.6	22910.0	22178.8
30°	29924.9	29526.4	28790.8	27542.8	26745.9	26386.8	26237.9	26137.2	24271.8	23492.4
32.5°	32337.6	32022.4	31299.9	29903.0	28747.0	28134.0	27639.2	27280.1	25695.0	24915.5
35°	34448.2	34154.9	33327.3	31803.4	30546.7	29894.3	29246.2	28479.9	27175.0	26386.8
37.5°	36374.9	36081.5	34947.4	33362.3	32096.8	31645.8	31067.8	29767.3	28659.4	27915.0
40°	37592.2	37526.6	36466.9	34671.6	33357.9	33134.6	32941.9	31260.5	30305.9	29614.0
42.5°	37903.1	38047.6	37206.9	35731.2	34478.9	34299.4	34750.4	32950.7	32153.7	31492.5
45°	37154.4	37570.3	37018.6	36015.9	35275.8	35179.5	36353.0	34798.5	34198.7	33594.4
47.5°	35258.3	35963.3	35735.6	35595.5	35490.4	35906.4	37763.0	36760.3	36515.1	35989.6
50°	31431.2	32766.8	33165.2	34049.8	35065.7	36471.3	39046.0	38901.5	39221.2	38691.3
52.5°	24814.8	26653.9	28966.0	31181.6	33760.8	36283.0	40456.0	41975.4	43324.1	43035.1
55°	20484.2	21311.8	23089.6	27153.1	31229.8	35490.4	41090.9	44458.2	47396.4	47138.1
57.5°	17156.2	17896.3	18991.0	22384.6	27402.7	33690.7	41485.0	45973.3	50185.8	50159.5
60°	13587.5	14371.3	15492.3	17896.3	22931.9	30581.7	41397.4	47698.6	53745.7	53964.7
62.5°	9559.0	10421.6	11665.2	13907.2	18364.8	26553.2	39610.9	48946.5	57936.3	58531.8
65°	6283.6	6852.9	7789.9	9725.4	13683.8	21373.1	36199.8	49108.6	62420.2	63427.3
67.5°	4405.1	4624.0	5175.8	6226.7	9020.4	16390.0	30765.6	47431.5	65410.9	66545.1
70°	3437.4	3546.9	3827.1	4247.5	5666.2	11021.5	23575.6	43070.2	64771.6	65953.9
72.5°	2968.8	3073.9	3179.0	3231.6	3800.8	6804.7	15969.6	36011.5	58750.7	59552.1
75°	2693.0	2719.3	2806.8	2789.3	2898.8	4413.9	9217.4	26237.9	46354.3	46078.4
77.5°	2263.9	2298.9	2443.4	2421.5	2574.8	3017.0	4786.1	16932.9	30051.9	28177.8
80°	1917.9	1935.4	2093.1	2066.8	2237.6	2185.0	2443.4	8630.7	12746.8	10798.2
82.5°	665.6	823.2	1598.3	1646.4	1707.7	1322.4	1410.0	3520.6	3892.8	2982.0
85°	324.0	345.9	814.5	1156.0	1151.6	665.6	687.5	1256.7	1226.1	963.3
87.5°	52.5	65.7	96.3	451.0	359.1	175.2	236.5	245.2	254.0	218.9
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°
9953.1	0°	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1	9953.1
10307.8	2.5°	10062.5	9843.6	9383.8	8959.1	8626.3	8306.6	8127.1	7973.8	7886.3	7868.8
10789.4	5°	10334.0	9883.0	9046.7	8341.7	7881.9	7540.3	7360.8	7247.0	7190.0	7155.0
11437.5	7.5°	10723.8	10062.5	8871.5	8070.2	7588.5	7343.3	7251.3	7233.8	7229.4	7233.8
12221.3	10°	11262.3	10355.9	8854.0	8004.5	7601.6	7465.9	7461.5	7465.9	7483.4	7487.8
13075.2	12.5°	11844.7	10658.1	8924.1	8061.4	7768.0	7693.6	7680.5	7676.1	7689.2	7698.0
13937.8	15°	12479.7	11056.5	9042.3	8184.0	7952.0	7873.1	7860.0	7833.7	7829.3	7825.0
14844.2	17.5°	13132.1	11450.6	9173.6	8315.4	8070.2	7960.7	7912.5	7851.2	7803.1	7789.9
15781.3	20°	13793.3	11840.4	9265.6	8381.1	8078.9	7925.7	7829.3	7724.3	7641.1	7592.9
16727.1	22.5°	14498.3	12247.6	9322.5	8363.6	8000.1	7789.9	7614.8	7492.2	7365.2	7282.0
17681.7	25°	15185.8	12602.3	9318.1	8271.6	7846.9	7579.8	7356.4	7198.8	7023.6	6936.1
18666.9	27.5°	15847.0	12921.9	9208.7	8109.6	7627.9	7330.2	7063.1	6874.8	6704.0	6620.8
19660.9	30°	16530.1	13189.0	9037.9	7873.1	7369.6	7041.2	6747.8	6585.8	6432.5	6353.7
20711.9	32.5°	17208.8	13434.2	8797.1	7579.8	7071.8	6756.5	6467.5	6318.6	6226.7	6226.7
21841.6	35°	17926.9	13605.0	8477.4	7238.2	6756.5	6454.4	6226.7	6139.1	6130.4	6077.8
23037.0	37.5°	18684.5	13714.5	8087.7	6887.9	6445.6	6161.0	6091.0	5985.9	5898.3	5784.4
24350.7	40°	19481.4	13824.0	7619.2	6524.5	6117.2	5959.6	5928.9	5788.8	5539.2	5259.0
25839.5	42.5°	20449.1	13898.4	7133.1	6161.0	5771.3	5718.7	5762.5	5521.7	5123.2	4913.0
27634.8	45°	21570.1	14021.0	6686.5	5801.9	5416.6	5416.6	5600.5	5285.2	4956.8	4825.5
29684.1	47.5°	23023.9	14305.6	6270.5	5407.9	5088.2	5175.8	5241.5	5000.6	4816.7	4654.7
32180.0	50°	25125.7	14988.7	5841.4	5009.4	4838.6	5013.8	4921.8	4781.7	4567.1	4435.8
36147.2	52.5°	27735.5	15391.6	5460.4	4650.3	4624.0	4799.2	4667.8	4536.5	4374.4	4199.3
39155.5	55°	29513.3	15466.0	5140.7	4387.6	4479.5	4462.0	4413.9	4295.6	4208.1	3976.0
42124.3	57.5°	31501.3	15614.9	4878.0	4229.9	4387.6	4194.9	4177.4	4076.7	3962.8	3805.2
45745.6	60°	33879.0	15847.0	4650.3	4168.6	4308.8	4019.8	3932.2	3892.8	3778.9	3700.1
50102.6	62.5°	36471.3	16057.2	4418.2	4177.4	4216.8	3849.0	3717.6	3704.5	3634.4	3608.2
54192.4	65°	38240.3	15483.5	4129.2	4168.6	4072.3	3673.8	3507.4	3503.1	3446.1	3437.4
55965.8	67.5°	37622.9	13666.3	3739.5	4046.0	3923.4	3498.7	3314.8	3297.3	3222.8	3227.2
54113.6	70°	34531.4	11074.1	3200.9	3743.9	3739.5	3341.0	3113.3	3056.4	2955.7	2973.2
47050.5	72.5°	28733.9	8205.9	2478.4	3240.3	3446.1	3196.5	2881.3	2789.3	2662.3	2679.8
34732.9	75°	20751.3	5578.6	1804.1	2465.3	2999.5	3025.8	2653.6	2495.9	2342.7	2368.9
19332.5	77.5°	10618.7	3161.5	1326.8	1699.0	2355.8	2749.9	2447.8	2237.6	2202.6	2447.8
5574.2	80°	3463.7	1585.1	919.6	1191.0	1545.7	2250.7	2145.6	1904.8	1896.0	1953.0
1169.1	82.5°	1033.4	670.0	591.1	783.8	853.9	1725.3	1852.2	1440.6	1239.2	1304.9
389.7	85°	354.7	324.0	337.2	389.7	407.2	1011.5	1296.1	954.6	902.0	994.0
87.6	87.5°	83.2	113.8	96.3	87.6	87.6	245.2	503.6	398.5	551.7	367.8
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°
9953.1
7868.8
7150.6
7247.0
7492.2
7702.4
7820.6
7803.1
7610.4
7286.4
6936.1
6616.4
6349.3
6231.1
6064.7
5766.9
5219.6
4917.4
4847.4
4650.3
4422.6
4164.3
3980.4
3752.7
3722.0
3608.2
3433.0
3227.2
2990.7
2675.5
2377.7
2412.7
1677.1
1348.7
980.9
354.7
0.0

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