

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: P954567

Luminaire Tested: **GALN-SB7D-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954567
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-SB7D-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77984 lumens
Efficiency: N/A
Efficacy: 152.1 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

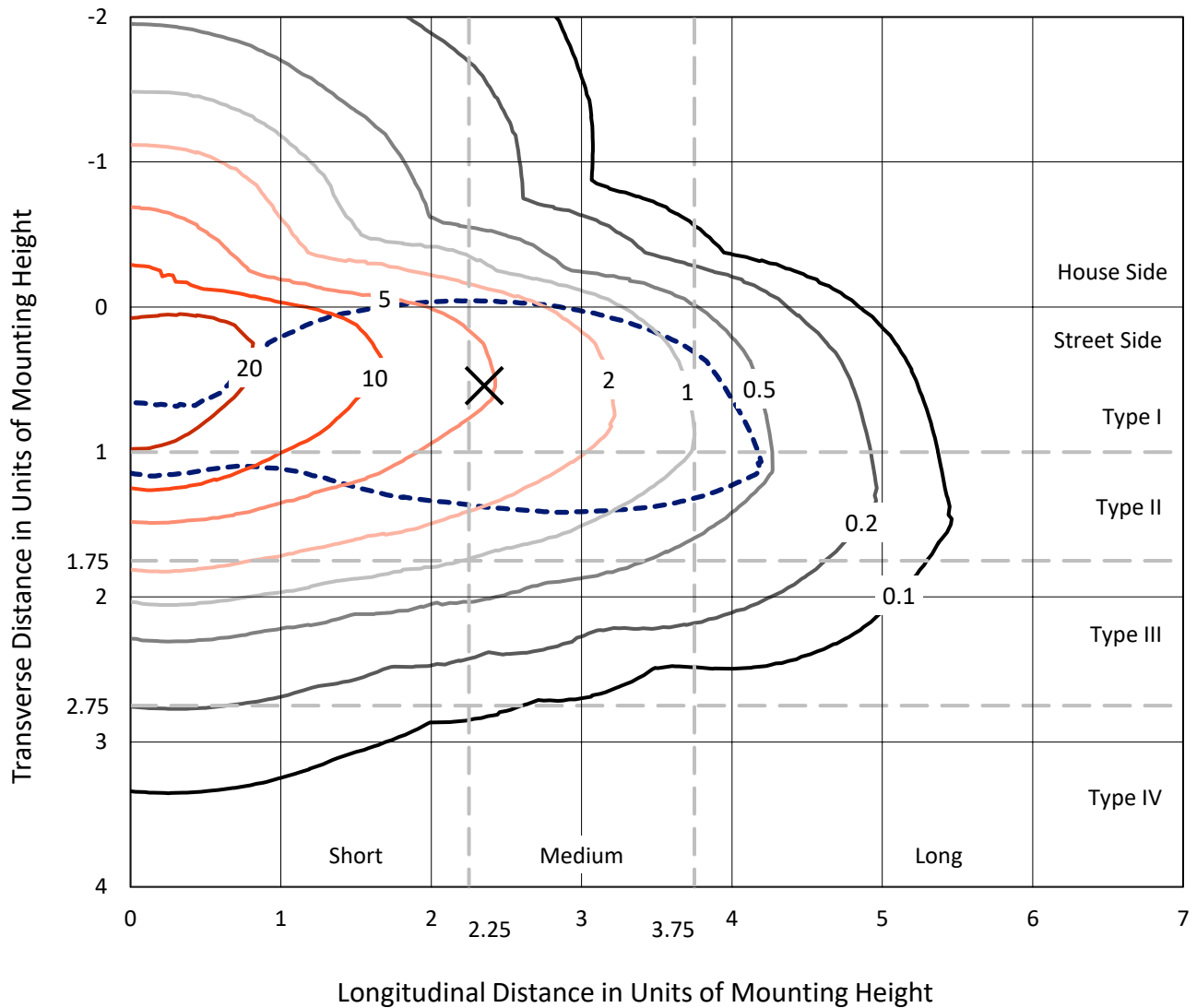
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954567
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Iso-Footcandle Lines of Horizontal Illumination

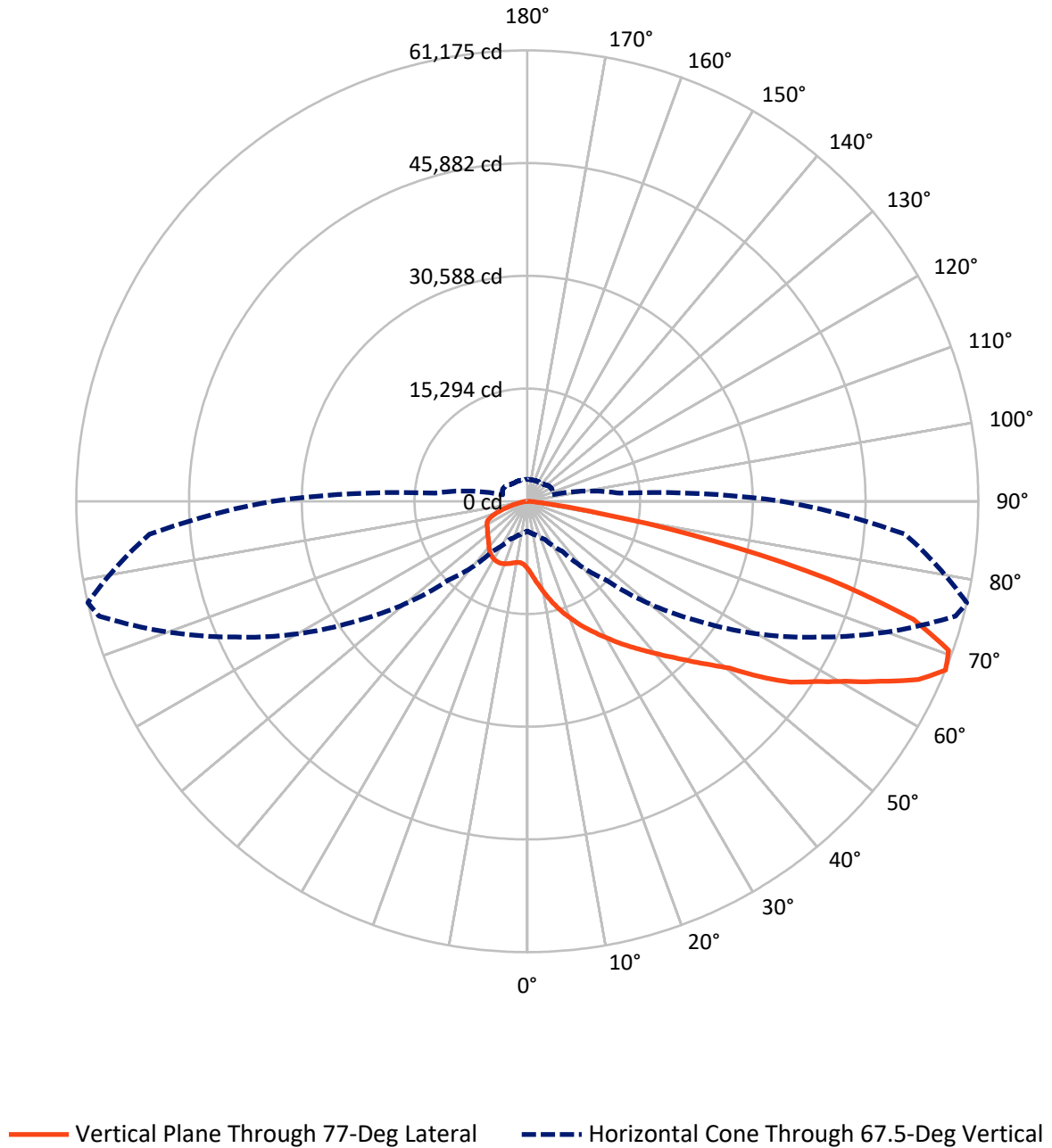
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P954567
CATALOG NUMBER: GALN-SB7D-740-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14751.4	0.0	14751.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	63232.5	0.0	63232.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	77984.0	0.0	77984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.8	1.3
10°-20°	3523.4	4.5
20°-30°	6652.6	8.5
30°-40°	10717.2	13.7
40°-50°	14659.2	18.8
50°-60°	16535.7	21.2
60°-70°	15434.0	19.8
70°-80°	8460.5	10.8
80°-90°	1020.5	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°	77984.0	100.0
0°-180°	77984.0	100.0

Coefficient of Utilization



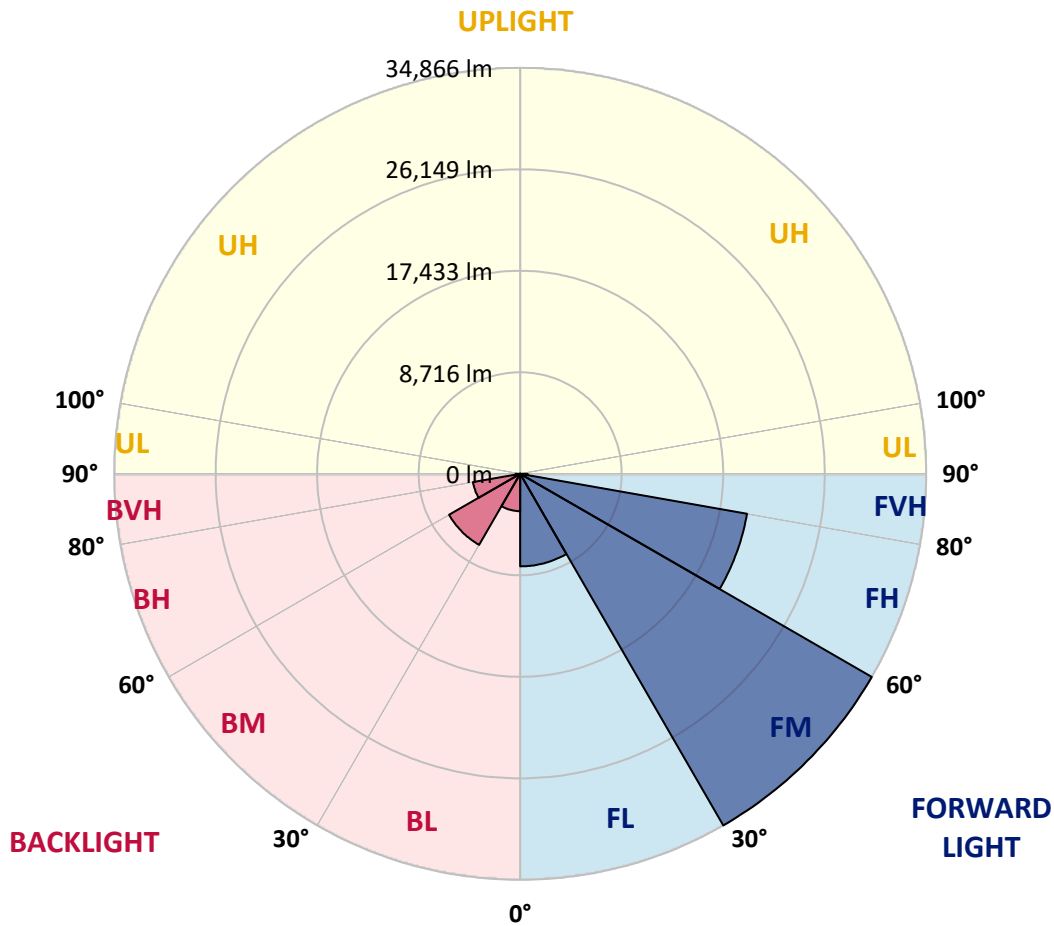
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7949.5	10.2			
FM (30°-60°)	34865.8	44.7			
FH (60°-80°)	19779.1	25.4			G5
FVH (80°-90°)	638.2	0.8			G4/750
BL (0°-30°)	3207.3	4.1	B4/5000		
BM (30°-60°)	7046.4	9.0	B4/8500		
BH (60°-80°)	4115.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	382.3	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



REPORT NUMBER: P954567

CATALOG NUMBER: GALN-SB7D-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9
2.5°	11456.6	11537.1	11436.4	11436.4	11098.3	10921.2	10583.0	10325.4	9862.5	9781.9
5°	13541.8	13642.4	13501.5	13441.1	13042.6	12676.3	12108.7	11549.1	10723.9	10639.4
7.5°	15156.0	15284.8	15160.0	15095.6	14741.4	14330.8	13666.5	12885.6	11722.2	11557.2
10°	16472.3	16492.4	16452.2	16476.3	16198.6	15860.4	15180.1	14270.4	12817.2	12591.7
12.5°	17217.0	17309.6	17390.1	17535.0	17486.7	17277.4	16665.5	15578.7	13976.5	13686.7
15°	17567.3	17728.3	17909.4	18243.5	18513.2	18565.6	18098.6	16983.6	15156.0	14805.8
17.5°	17692.0	17845.0	18130.8	18613.9	19193.6	19584.0	19374.7	18348.2	16323.4	15920.8
20°	18324.0	18368.3	18541.4	19000.3	19628.3	20276.4	20433.4	19660.5	17478.7	17023.8
22.5°	19676.6	19588.0	19636.4	19845.7	20296.5	20924.5	21282.8	20819.9	18666.2	18142.9
25°	21910.8	21653.1	21395.5	21154.0	21383.4	21737.7	22144.2	21979.2	19910.1	19245.9
27.5°	24732.6	24418.6	23851.0	23058.0	22780.3	22905.1	23086.2	23054.0	21061.4	20389.1
30°	27510.2	27143.9	26467.6	25320.4	24587.7	24257.6	24120.8	24028.2	22313.3	21596.8
32.5°	29728.3	29438.4	28774.2	27490.1	26427.4	25863.8	25408.9	25078.8	23621.6	22905.1
35°	31668.6	31398.8	30638.0	29237.2	28081.8	27482.0	26886.3	26181.8	24982.2	24257.6
37.5°	33439.8	33170.1	32127.5	30670.2	29506.9	29092.2	28560.9	27365.3	26346.9	25662.5
40°	34558.9	34498.5	33524.3	31873.9	30666.2	30460.9	30283.8	28738.0	27860.4	27224.4
42.5°	34844.7	34977.5	34204.6	32848.0	31696.7	31531.7	31946.3	30291.8	29559.2	28951.3
45°	34156.3	34538.7	34031.5	33109.7	32429.4	32340.8	33419.6	31990.6	31439.1	30883.6
47.5°	32413.3	33061.4	32852.0	32723.2	32626.6	33009.0	34715.9	33794.0	33568.6	33085.5
50°	28895.0	30122.8	30489.1	31302.2	32236.1	33528.3	35895.3	35762.5	36056.3	35569.3
52.5°	22812.5	24503.2	26628.6	28665.5	31036.6	33355.2	37191.5	38588.4	39828.2	39562.5
55°	18831.3	19592.1	21226.4	24962.1	28709.8	32626.6	37775.2	40870.8	43571.9	43334.4
57.5°	15771.9	16452.2	17458.6	20578.3	25191.5	30972.1	38137.5	42263.7	46136.2	46112.0
60°	12491.1	13211.7	14242.2	16452.2	21081.5	28114.0	38057.0	43849.7	49408.9	49610.2
62.5°	8787.7	9580.7	10723.9	12785.0	16882.9	24410.6	36414.6	44997.0	53261.3	53808.8
65°	5776.6	6299.9	7161.4	8940.6	12579.7	19648.4	33278.8	45145.9	57383.4	58309.3
67.5°	4049.6	4250.9	4758.1	5724.3	8292.5	15067.4	28283.1	43604.1	60132.8	61175.4
70°	3160.0	3260.6	3518.3	3904.7	5209.0	10132.2	21673.3	39594.8	59545.1	60632.0
72.5°	2729.3	2825.9	2922.5	2970.8	3494.1	6255.6	14681.0	33105.7	54010.0	54746.7
75°	2475.7	2499.8	2580.3	2564.2	2664.9	4057.7	8473.7	24120.8	42613.9	42360.3
77.5°	2081.2	2113.4	2246.2	2226.1	2367.0	2773.6	4399.9	15566.6	27627.0	25904.0
80°	1763.2	1779.3	1924.2	1900.0	2057.0	2008.7	2246.2	7934.2	11718.2	9926.9
82.5°	611.9	756.8	1469.3	1513.6	1569.9	1215.7	1296.2	3236.5	3578.7	2741.4
85°	297.9	318.0	748.7	1062.7	1058.7	611.9	632.0	1155.3	1127.1	885.6
87.5°	48.3	60.4	88.6	414.6	330.1	161.0	217.4	225.4	233.5	201.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954567
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9149.9	0°	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9	9149.9
9476.0	2.5°	9250.6	9049.3	8626.6	8236.2	7930.2	7636.4	7471.3	7330.4	7249.9	7233.8
9918.8	5°	9500.2	9085.5	8316.7	7668.6	7245.9	6931.9	6766.9	6662.2	6609.9	6577.7
10514.6	7.5°	9858.4	9250.6	8155.6	7419.0	6976.2	6750.8	6666.2	6650.1	6646.1	6650.1
11235.2	10°	10353.6	9520.3	8139.5	7358.6	6988.3	6863.5	6859.4	6863.5	6879.6	6883.6
12020.1	12.5°	10889.0	9798.1	8204.0	7410.9	7141.2	7072.8	7060.7	7056.7	7068.8	7076.8
12813.1	15°	11472.7	10164.4	8312.6	7523.6	7310.3	7237.8	7225.8	7201.6	7197.6	7193.6
13646.4	17.5°	12072.5	10526.7	8433.4	7644.4	7419.0	7318.3	7274.1	7217.7	7173.4	7161.4
14507.9	20°	12680.3	10884.9	8517.9	7704.8	7427.0	7286.1	7197.6	7101.0	7024.5	6980.2
15377.4	22.5°	13328.4	11259.3	8570.3	7688.7	7354.6	7161.4	7000.3	6887.6	6770.9	6694.4
16254.9	25°	13960.4	11585.4	8566.2	7604.2	7213.7	6968.1	6762.8	6617.9	6456.9	6376.4
17160.7	27.5°	14568.3	11879.2	8465.6	7455.2	7012.4	6738.7	6493.1	6320.0	6163.0	6086.5
18074.5	30°	15196.2	12124.8	8308.6	7237.8	6774.9	6473.0	6203.3	6054.3	5913.4	5841.0
19040.6	32.5°	15820.2	12350.2	8087.2	6968.1	6501.2	6211.3	5945.7	5808.8	5724.3	5724.3
20079.2	35°	16480.4	12507.2	7793.4	6654.1	6211.3	5933.6	5724.3	5643.7	5635.7	5587.4
21178.1	37.5°	17176.8	12607.8	7435.1	6332.1	5925.5	5663.9	5599.5	5502.8	5422.3	5317.7
22385.8	40°	17909.4	12708.5	7004.4	5998.0	5623.6	5478.7	5450.5	5321.7	5092.2	4834.6
23754.4	42.5°	18799.1	12776.9	6557.5	5663.9	5305.6	5257.3	5297.5	5076.1	4709.8	4516.6
25404.9	45°	19829.6	12889.6	6146.9	5333.8	4979.5	4979.5	5148.6	4858.8	4556.9	4436.1
27288.8	47.5°	21166.0	13151.3	5764.5	4971.5	4677.6	4758.1	4818.5	4597.1	4428.0	4279.1
29583.3	50°	23098.3	13779.3	5370.0	4605.2	4448.2	4609.2	4524.7	4395.8	4198.6	4077.8
33230.4	52.5°	25497.5	14149.6	5019.8	4275.1	4250.9	4411.9	4291.2	4170.4	4021.5	3860.4
35996.0	55°	27131.8	14218.0	4725.9	4033.5	4118.1	4102.0	4057.7	3949.0	3868.5	3655.1
38725.2	57.5°	28959.4	14354.9	4484.4	3888.6	4033.5	3856.4	3840.3	3747.7	3643.1	3498.2
42054.3	60°	31145.2	14568.3	4275.1	3832.3	3961.1	3695.4	3614.9	3578.7	3474.0	3401.5
46059.7	62.5°	33528.3	14761.5	4061.7	3840.3	3876.5	3538.4	3417.6	3405.6	3341.2	3317.0
49819.5	65°	35154.6	14234.1	3796.0	3832.3	3743.7	3377.4	3224.4	3220.4	3168.1	3160.0
51449.8	67.5°	34587.0	12563.6	3437.8	3719.6	3606.8	3216.4	3047.3	3031.2	2962.8	2966.8
49747.0	70°	31745.0	10180.5	2942.6	3441.8	3437.8	3071.5	2862.1	2809.8	2717.2	2733.3
43253.9	72.5°	26415.3	7543.8	2278.4	2978.9	3168.1	2938.6	2648.8	2564.2	2447.5	2463.6
31930.2	75°	19076.8	5128.5	1658.5	2266.4	2757.5	2781.6	2439.4	2294.5	2153.6	2177.8
17772.6	77.5°	9761.8	2906.4	1219.7	1561.9	2165.7	2528.0	2250.3	2057.0	2024.8	2250.3
5124.5	80°	3184.2	1457.2	845.4	1094.9	1421.0	2069.1	1972.5	1751.1	1743.0	1795.4
1074.8	82.5°	950.0	615.9	543.4	720.6	785.0	1586.0	1702.8	1324.4	1139.2	1199.6
358.3	85°	326.1	297.9	310.0	358.3	374.4	929.9	1191.5	877.6	829.3	913.8
80.5	87.5°	76.5	104.7	88.6	80.5	80.5	225.4	462.9	366.3	507.2	338.1
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>
9149.9
7233.8
6573.6
6662.2
6887.6
7080.8
7189.5
7173.4
6996.3
6698.4
6376.4
6082.5
5837.0
5728.3
5575.3
5301.6
4798.4
4520.6
4456.2
4275.1
4065.7
3828.2
3659.2
3449.8
3421.7
3317.0
3156.0
2966.8
2749.4
2459.6
2185.8
2218.0
1541.8
1239.9
901.7
326.1
0.0

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