

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: P957381

Luminaire Tested: **GALN-SB9D-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957381
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-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 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: 94407 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - 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

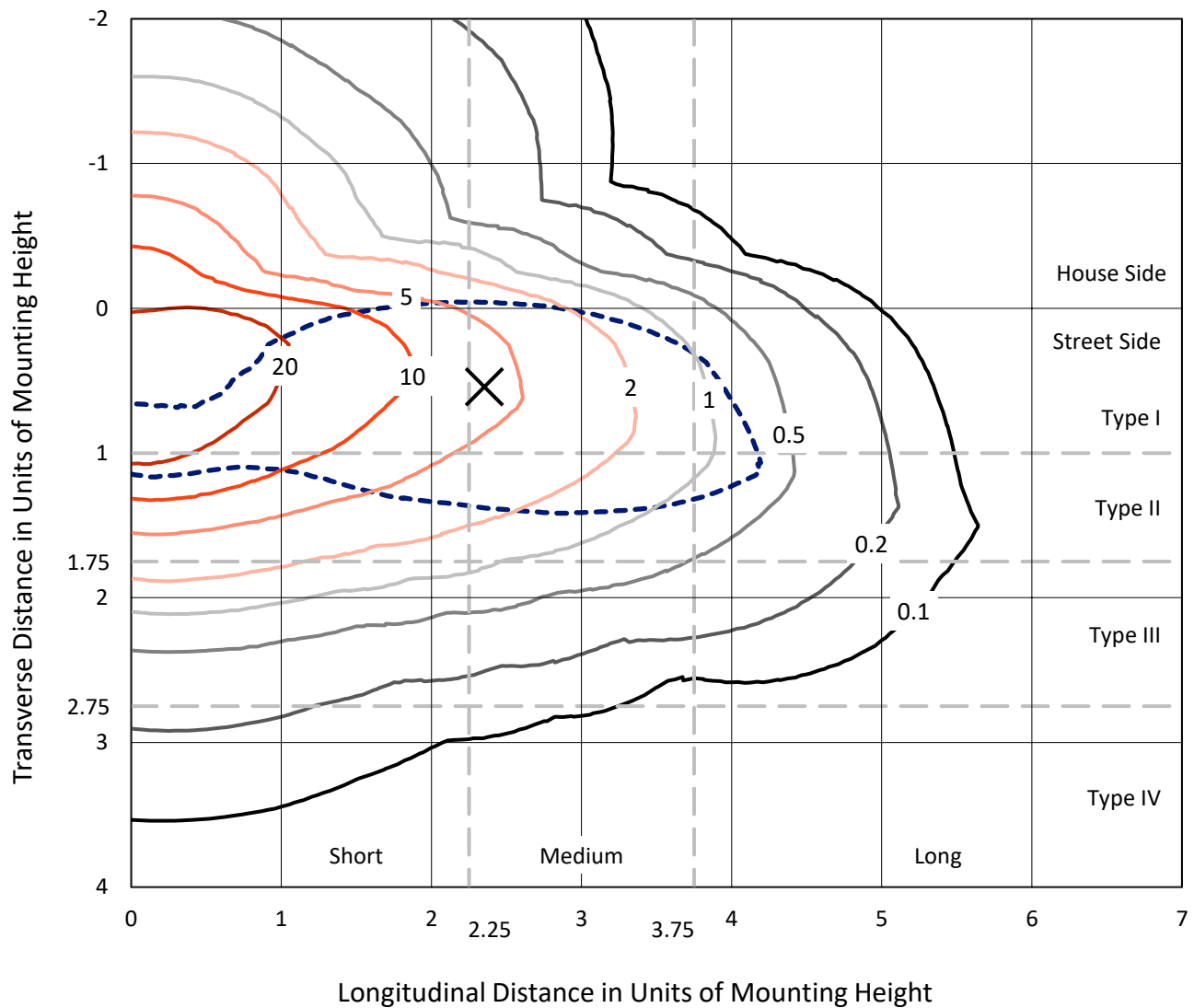


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

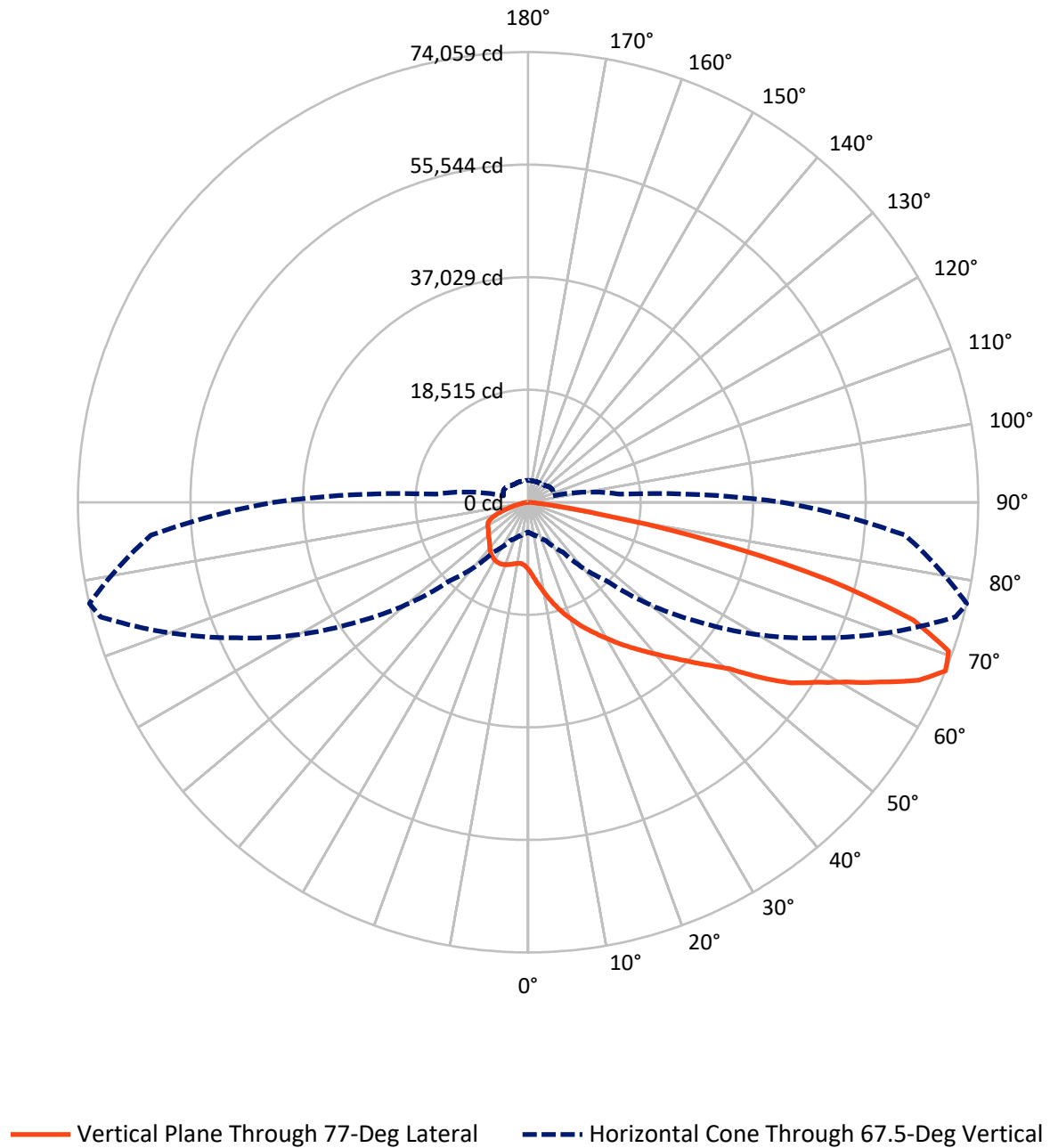


Based on 25 foot mounting height. Maximum calculated value = 34.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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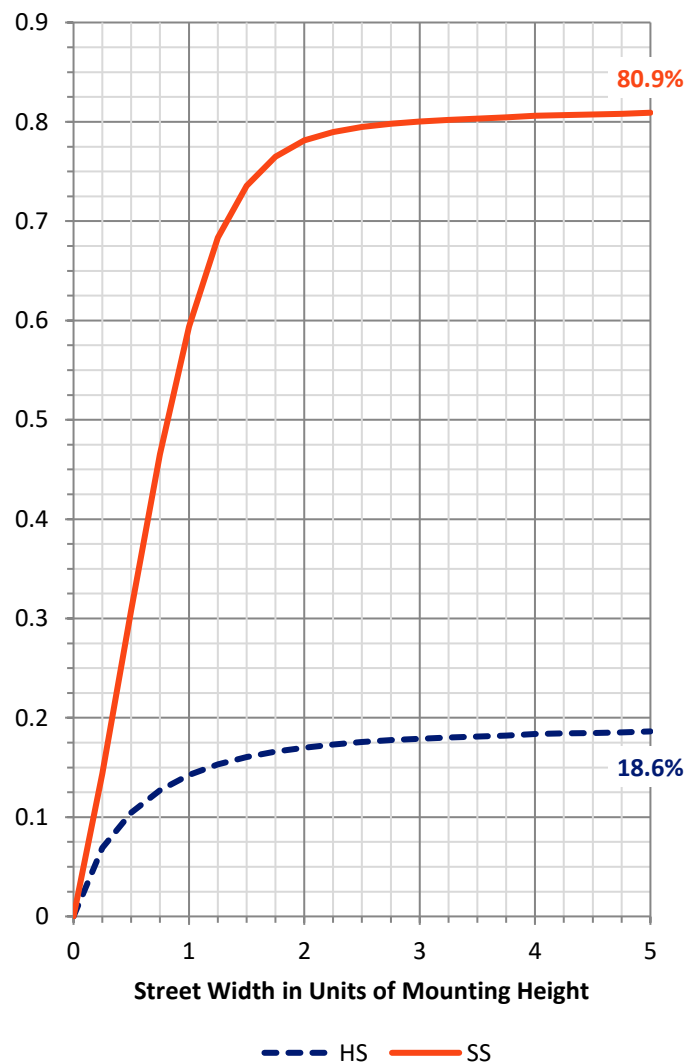
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17858.0	0.0	17858.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	76549.0	0.0	76549.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	94407.0	0.0	94407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1187.3	1.3
10°-20°	4265.5	4.5
20°-30°	8053.6	8.5
30°-40°	12974.2	13.7
40°-50°	17746.4	18.8
50°-60°	20018.1	21.2
60°-70°	18684.4	19.8
70°-80°	10242.2	10.8
80°-90°	1235.4	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°	94407.0	100.0
0°-180°	94407.0	100.0

Coefficient of Utilization



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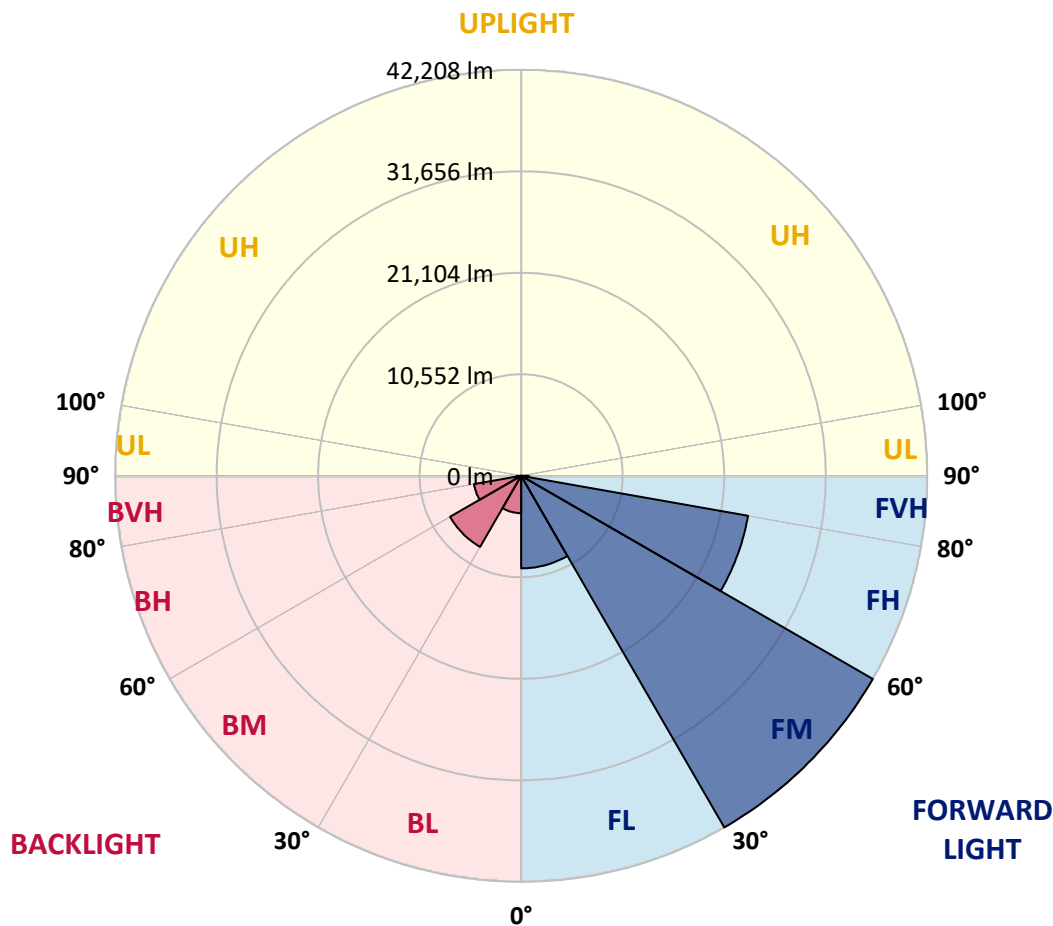
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9623.6	10.2			
FM	(30°-60°)	42208.3	44.7			
FH	(60°-80°)	23944.4	25.4			G5
FVH	(80°-90°)	772.6	0.8			G5
BL	(0°-30°)	3882.7	4.1	B4/5000		
BM	(30°-60°)	8530.3	9.0	B5		
BH	(60°-80°)	4982.1	5.3	B4/5000		G4/5000
BVH	(80°-90°)	462.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9
2.5°	13869.2	13966.7	13844.9	13844.9	13435.5	13221.1	12811.7	12499.9	11939.4	11842.0
5°	16393.6	16515.4	16344.8	16271.7	15789.3	15345.8	14658.7	13981.3	12982.3	12880.0
7.5°	18347.7	18503.7	18352.6	18274.6	17845.8	17348.7	16544.6	15599.2	14190.9	13991.1
10°	19941.3	19965.7	19916.9	19946.2	19609.9	19200.6	18377.0	17275.6	15516.4	15243.5
12.5°	20842.8	20954.9	21052.4	21227.8	21169.4	20915.9	20175.2	18859.4	16919.9	16569.0
15°	21266.8	21461.7	21681.0	22085.5	22412.0	22475.4	21910.1	20560.2	18347.7	17923.8
17.5°	21417.9	21603.1	21949.1	22533.9	23235.6	23708.3	23454.9	22212.2	19761.0	19273.7
20°	22183.0	22236.6	22446.1	23001.7	23761.9	24546.5	24736.6	23800.9	21159.6	20608.9
22.5°	23820.4	23713.2	23771.7	24025.1	24570.9	25331.1	25764.8	25204.4	22597.2	21963.7
25°	26525.0	26213.2	25901.3	25608.9	25886.6	26315.5	26807.7	26607.9	24103.0	23299.0
27.5°	29941.2	29561.1	28873.9	27913.9	27577.7	27728.7	27948.0	27909.0	25496.8	24683.0
30°	33303.7	32860.3	32041.6	30652.7	29765.7	29366.1	29200.5	29088.4	27012.4	26144.9
32.5°	35988.9	35638.0	34833.9	33279.4	31992.8	31310.6	30759.9	30360.3	28596.2	27728.7
35°	38337.8	38011.3	37090.2	35394.3	33995.7	33269.6	32548.4	31695.6	30243.3	29366.1
37.5°	40482.0	40155.5	38893.3	37129.2	35720.8	35218.9	34575.6	33128.3	31895.4	31066.9
40°	41836.8	41763.7	40584.3	38586.3	37124.3	36875.8	36661.4	34790.1	33727.7	32957.7
42.5°	42182.8	42343.6	41407.9	39765.6	38371.9	38172.1	38674.0	36671.1	35784.2	35048.3
45°	41349.4	41812.4	41198.4	40082.4	39258.8	39151.6	40457.6	38727.6	38060.0	37387.5
47.5°	39239.3	40023.9	39770.5	39614.6	39497.6	39960.6	42026.8	40910.8	40637.9	40053.2
50°	34980.1	36466.5	36909.9	37894.3	39024.9	40589.2	43454.7	43293.9	43649.6	43059.9
52.5°	27616.6	29663.4	32236.5	34702.3	37572.7	40379.7	45023.9	46714.9	48215.8	47894.2
55°	22797.0	23718.1	25696.6	30219.0	34755.9	39497.6	45730.5	49478.0	52747.9	52460.4
57.5°	19093.4	19916.9	21135.2	24912.0	30496.7	37494.7	46169.1	51164.1	55852.2	55823.0
60°	15121.7	15994.0	17241.5	19916.9	25521.2	34034.7	46071.6	53084.2	59814.1	60057.8
62.5°	10638.3	11598.3	12982.3	15477.4	20438.4	29551.3	44083.3	54473.1	64477.8	65140.6
65°	6993.1	7626.6	8669.5	10823.5	15228.9	23786.3	40287.1	54653.4	69468.0	70588.9
67.5°	4902.5	5146.1	5760.2	6929.7	10038.9	18240.5	34239.4	52786.9	72796.5	74058.6
70°	3825.5	3947.3	4259.2	4727.0	6306.0	12265.9	26237.5	47933.2	72085.0	73400.7
72.5°	3304.1	3421.0	3538.0	3596.5	4230.0	7573.0	17772.7	40077.5	65384.3	66276.1
75°	2997.0	3026.3	3123.7	3104.3	3226.1	4912.2	10258.2	29200.5	51588.1	51281.1
77.5°	2519.5	2558.5	2719.3	2694.9	2865.5	3357.7	5326.5	18844.8	33445.0	31359.3
80°	2134.5	2154.0	2329.4	2300.2	2490.2	2431.7	2719.3	9605.2	14186.0	12017.4
82.5°	740.7	916.2	1778.7	1832.3	1900.6	1471.7	1569.2	3918.1	4332.3	3318.7
85°	360.6	385.0	906.4	1286.5	1281.7	740.7	765.1	1398.6	1364.5	1072.1
87.5°	58.5	73.1	107.2	501.9	399.6	194.9	263.2	272.9	282.6	243.7
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°
11076.9	0°	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9	11076.9
11471.6	2.5°	11198.7	10955.0	10443.4	9970.6	9600.3	9244.5	9044.7	8874.2	8776.7	8757.2
12007.7	5°	11500.8	10998.9	10068.1	9283.5	8771.8	8391.7	8191.9	8065.2	8001.9	7962.9
12728.9	7.5°	11934.6	11198.7	9873.2	8981.4	8445.3	8172.4	8070.1	8050.6	8045.7	8050.6
13601.2	10°	12534.0	11525.2	9853.7	8908.3	8459.9	8308.9	8304.0	8308.9	8328.4	8333.2
14551.5	12.5°	13182.1	11861.5	9931.7	8971.6	8645.1	8562.3	8547.7	8542.8	8557.4	8567.2
15511.5	15°	13888.7	12304.9	10063.2	9108.1	8849.8	8762.1	8747.5	8718.2	8713.4	8708.5
16520.3	17.5°	14614.8	12743.5	10209.4	9254.3	8981.4	8859.5	8805.9	8737.7	8684.1	8669.5
17563.2	20°	15350.7	13177.2	10311.8	9327.4	8991.1	8820.6	8713.4	8596.4	8503.8	8450.2
18615.8	22.5°	16135.3	13630.5	10375.1	9307.9	8903.4	8669.5	8474.6	8338.1	8196.8	8104.2
19678.1	25°	16900.4	14025.2	10370.3	9205.5	8732.8	8435.6	8187.0	8011.6	7816.7	7719.2
20774.6	27.5°	17636.3	14380.9	10248.4	9025.2	8489.2	8157.8	7860.5	7651.0	7460.9	7368.3
21880.8	30°	18396.5	14678.2	10058.4	8762.1	8201.7	7836.2	7509.7	7329.4	7158.8	7071.1
23050.4	32.5°	19151.8	14951.1	9790.3	8435.6	7870.3	7519.4	7197.8	7032.1	6929.7	6929.7
24307.7	35°	19951.0	15141.2	9434.6	8055.5	7519.4	7183.2	6929.7	6832.3	6822.5	6764.1
25638.1	37.5°	20794.1	15263.0	9000.9	7665.6	7173.4	6856.6	6778.7	6661.7	6564.3	6437.5
27100.1	40°	21681.0	15384.8	8479.4	7261.1	6807.9	6632.5	6598.4	6442.4	6164.6	5852.8
28757.0	42.5°	22758.0	15467.7	7938.5	6856.6	6422.9	6364.5	6413.2	6145.2	5701.7	5467.8
30755.0	45°	24005.6	15604.1	7441.4	6457.0	6028.2	6028.2	6232.9	5882.0	5516.5	5370.3
33035.7	47.5°	25623.5	15920.9	6978.5	6018.5	5662.7	5760.2	5833.3	5565.2	5360.6	5180.3
35813.4	50°	27962.6	16681.1	6500.9	5575.0	5384.9	5579.9	5477.5	5321.6	5082.8	4936.6
40228.6	52.5°	30867.1	17129.4	6076.9	5175.4	5146.1	5341.1	5194.9	5048.7	4868.4	4673.4
43576.5	55°	32845.6	17212.3	5721.2	4883.0	4985.3	4965.8	4912.2	4780.6	4683.2	4424.9
46880.6	57.5°	35058.1	17378.0	5428.8	4707.5	4883.0	4668.6	4649.1	4537.0	4410.3	4234.8
50910.7	60°	37704.3	17636.3	5175.4	4639.3	4795.3	4473.6	4376.2	4332.3	4205.6	4117.9
55759.6	62.5°	40589.2	17870.2	4917.1	4649.1	4692.9	4283.6	4137.4	4122.8	4044.8	4015.5
60311.2	65°	42558.0	17231.8	4595.5	4639.3	4532.1	4088.6	3903.5	3898.6	3835.2	3825.5
62284.9	67.5°	41870.9	15209.4	4161.7	4502.9	4366.4	3893.7	3689.0	3669.5	3586.7	3591.6
60223.5	70°	38430.4	12324.4	3562.3	4166.6	4161.7	3718.3	3464.9	3401.5	3289.4	3308.9
52363.0	72.5°	31978.2	9132.5	2758.3	3606.2	3835.2	3557.5	3206.6	3104.3	2962.9	2982.4
38654.5	75°	23094.3	6208.5	2007.8	2743.6	3338.2	3367.4	2953.2	2777.7	2607.2	2636.4
21515.4	77.5°	11817.6	3518.5	1476.6	1890.8	2621.8	3060.4	2724.1	2490.2	2451.2	2724.1
6203.6	80°	3854.7	1764.1	1023.4	1325.5	1720.3	2504.8	2387.9	2119.9	2110.1	2173.5
1301.2	82.5°	1150.1	745.6	657.9	872.3	950.3	1920.1	2061.4	1603.3	1379.1	1452.2
433.7	85°	394.7	360.6	375.2	433.7	453.2	1125.7	1442.5	1062.4	1003.9	1106.2
97.5	87.5°	92.6	126.7	107.2	97.5	97.5	272.9	560.4	443.5	614.0	409.4
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°
11076.9
8757.2
7958.0
8065.2
8338.1
8572.0
8703.6
8684.1
8469.7
8109.1
7719.2
7363.5
7066.2
6934.6
6749.4
6418.1
5808.9
5472.6
5394.7
5175.4
4922.0
4634.5
4429.8
4176.4
4142.3
4015.5
3820.6
3591.6
3328.4
2977.5
2646.2
2685.2
1866.5
1501.0
1091.6
394.7
0.0

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