

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: P957444

Luminaire Tested: **GALN-SB9D-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957444
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-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 99879 lumens
Efficiency: N/A
Efficacy: 151.8 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

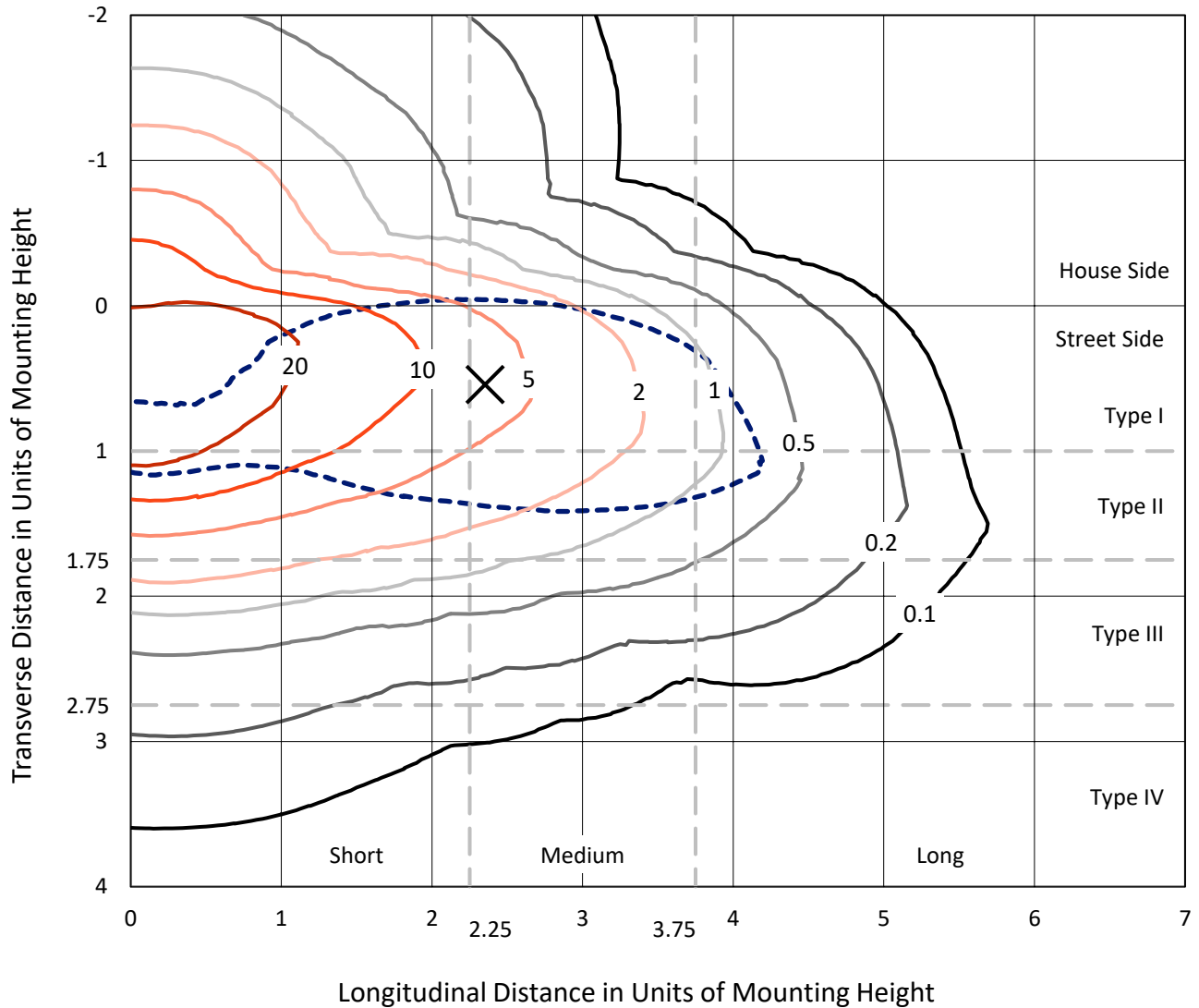
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

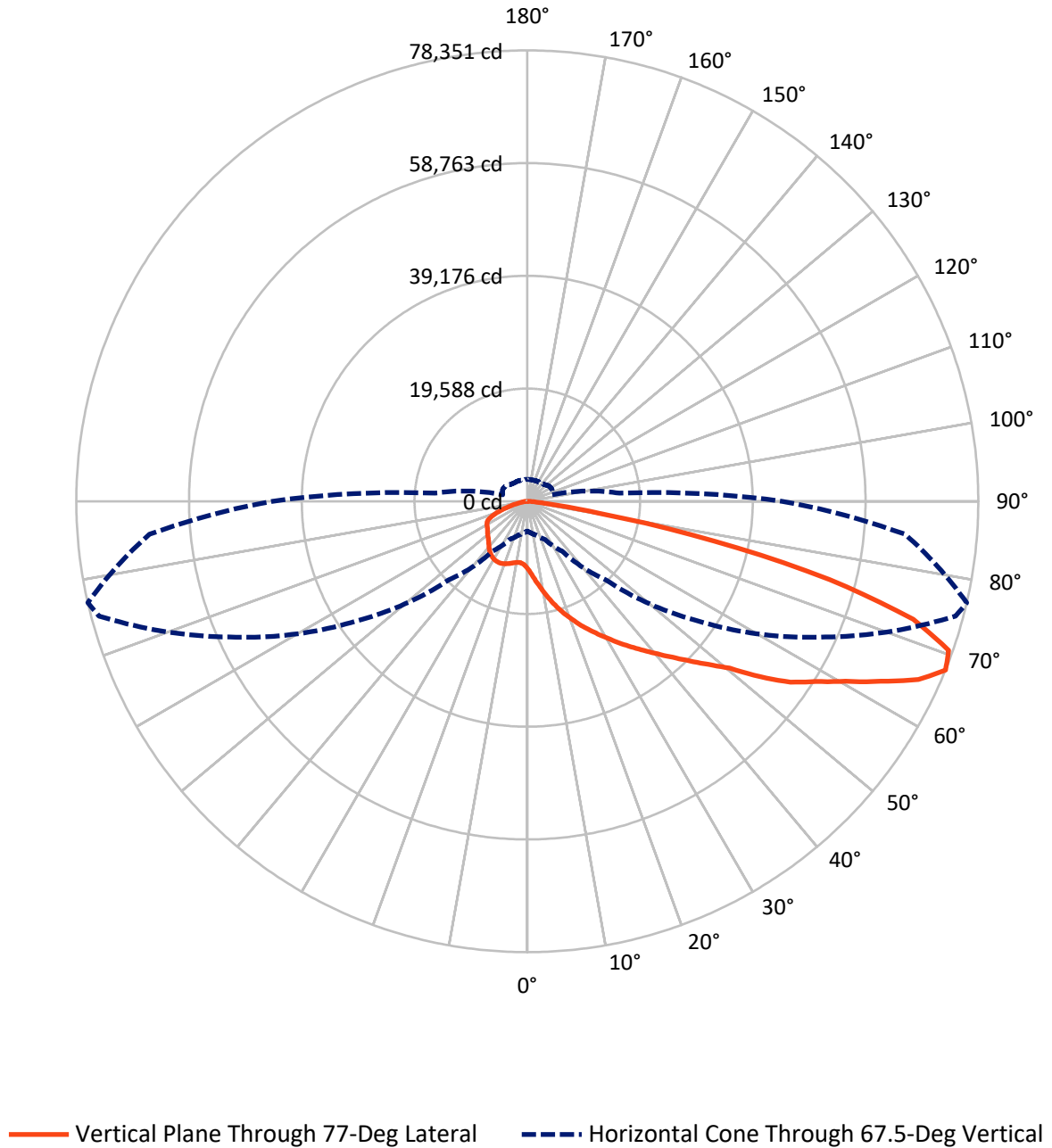
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.6 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	18893.1	0.0	18893.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	80985.9	0.0	80985.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	99879.0	0.0	99879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1256.1	1.3
10°-20°	4512.7	4.5
20°-30°	8520.4	8.5
30°-40°	13726.2	13.7
40°-50°	18775.0	18.8
50°-60°	21178.3	21.2
60°-70°	19767.3	19.8
70°-80°	10835.8	10.8
80°-90°	1307.0	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°	99879.0	100.0
0°-180°	99879.0	100.0

Coefficient of Utilization



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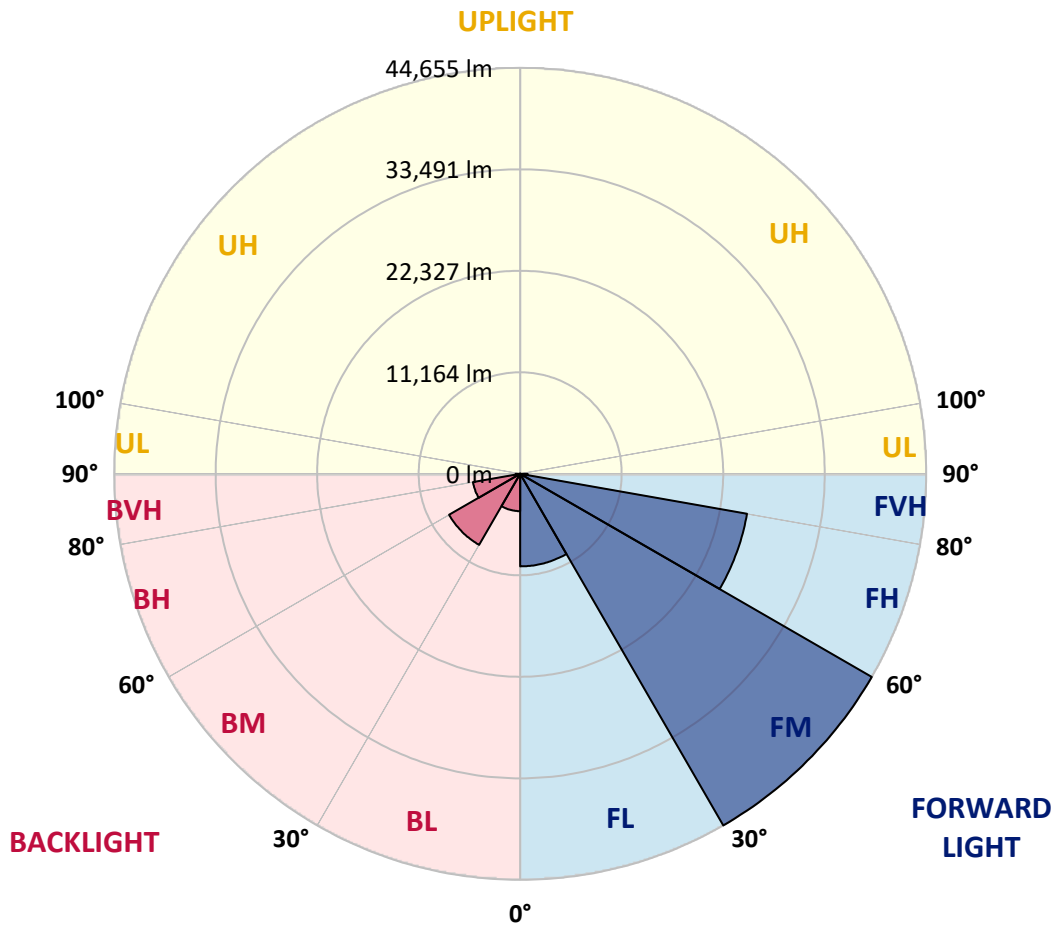
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10181.4	10.2			
FM (30°-60°)	44654.8	44.7			
FH (60°-80°)	25332.3	25.4			G5
FVH (80°-90°)	817.4	0.8			G5
BL (0°-30°)	4107.8	4.1	B4/5000		
BM (30°-60°)	9024.8	9.0	B5		
BH (60°-80°)	5270.9	5.3	B5		G5
BVH (80°-90°)	489.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9
2.5°	14673.1	14776.2	14647.3	14647.3	14214.3	13987.4	13554.3	13224.4	12631.5	12528.4
5°	17343.8	17472.7	17292.2	17214.9	16704.5	16235.3	15508.4	14791.7	13734.8	13626.5
7.5°	19411.2	19576.2	19416.4	19333.9	18880.2	18354.3	17503.6	16503.4	15013.4	14802.0
10°	21097.1	21122.9	21071.4	21102.3	20746.5	20313.5	19442.2	18277.0	16415.8	16127.0
12.5°	22050.9	22169.5	22272.6	22458.2	22396.4	22128.3	21344.6	19952.6	17900.6	17529.4
15°	22499.5	22705.7	22937.7	23365.6	23711.1	23778.1	23180.0	21751.9	19411.2	18962.7
17.5°	22659.3	22855.2	23221.3	23840.0	24582.4	25082.5	24814.4	23499.7	20906.4	20390.8
20°	23468.8	23525.5	23747.2	24334.9	25139.2	25969.3	26170.3	25180.4	22386.1	21803.5
22.5°	25201.1	25087.6	25149.5	25417.6	25995.0	26799.3	27258.2	26665.3	23907.0	23236.7
25°	28062.5	27732.5	27402.6	27093.2	27387.1	27840.8	28361.5	28150.1	25500.1	24649.4
27.5°	31676.6	31274.5	30547.5	29531.9	29176.1	29335.9	29567.9	29526.7	26974.6	26113.6
30°	35234.1	34764.9	33898.7	32429.4	31491.0	31068.3	30893.0	30774.4	28578.1	27660.3
32.5°	38074.9	37703.6	36853.0	35208.3	33847.2	33125.4	32542.8	32120.0	30253.7	29335.9
35°	40559.9	40214.5	39240.0	37445.9	35966.2	35198.0	34434.9	33532.7	31996.3	31068.3
37.5°	42828.4	42483.0	41147.7	39281.3	37791.3	37260.3	36579.7	35048.5	33744.1	32867.6
40°	44261.7	44184.4	42936.7	40822.8	39276.1	39013.2	38786.3	36806.6	35682.6	34868.0
42.5°	44627.8	44797.9	43808.0	42070.5	40596.0	40384.6	40915.6	38796.7	37858.3	37079.8
45°	43746.1	44235.9	43586.3	42405.6	41534.3	41420.9	42802.6	40972.4	40266.0	39554.5
47.5°	41513.7	42343.8	42075.7	41910.7	41787.0	42276.8	44462.8	43282.1	42993.4	42374.7
50°	37007.6	38580.1	39049.3	40090.7	41286.9	42941.8	45973.4	45803.3	46179.6	45555.8
52.5°	29217.4	31382.8	34105.0	36713.8	39750.5	42720.1	47633.5	49422.6	51010.5	50670.2
55°	24118.4	25092.8	27186.0	31970.5	36770.5	41787.0	48381.1	52345.8	55805.3	55501.1
57.5°	20200.0	21071.4	22360.3	26355.9	32264.4	39668.0	48845.1	54129.7	59089.5	59058.6
60°	15998.1	16921.0	18240.9	21071.4	27000.4	36007.4	48742.0	56161.1	63281.1	63538.9
62.5°	11254.9	12270.6	13734.8	16374.5	21623.0	31264.2	46638.5	57630.4	68215.1	68916.3
65°	7398.4	8068.7	9172.0	11450.8	16111.6	25165.0	42622.2	57821.2	73494.5	74680.3
67.5°	5186.6	5444.4	6094.0	7331.4	10620.7	19297.8	36224.0	55846.6	77015.9	78351.2
70°	4047.2	4176.1	4506.1	5001.0	6671.5	12976.9	27758.3	50711.5	76263.1	77655.2
72.5°	3495.6	3619.3	3743.0	3804.9	4475.1	8012.0	18802.8	42400.5	69174.0	70117.5
75°	3170.8	3201.7	3304.8	3284.2	3413.1	5196.9	10852.8	30893.0	54578.3	54253.4
77.5°	2665.5	2706.7	2876.9	2851.1	3031.6	3552.3	5635.2	19937.1	35383.6	33176.9
80°	2258.2	2278.8	2464.4	2433.5	2634.6	2572.7	2876.9	10161.9	15008.2	12714.0
82.5°	783.7	969.3	1881.8	1938.5	2010.7	1557.0	1660.1	4145.2	4583.4	3511.0
85°	381.5	407.3	959.0	1361.1	1355.9	783.7	809.4	1479.7	1443.6	1134.3
87.5°	61.9	77.3	113.4	531.0	422.8	206.2	278.4	288.7	299.0	257.8
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°
11718.9	0°	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9	11718.9
12136.5	2.5°	11847.8	11590.0	11048.7	10548.6	10156.7	9780.4	9569.0	9388.5	9285.4	9264.8
12703.6	5°	12167.5	11636.4	10651.7	9821.6	9280.3	8878.1	8666.7	8532.7	8465.7	8424.4
13466.7	7.5°	12626.3	11847.8	10445.5	9502.0	8934.8	8646.1	8537.8	8517.2	8512.1	8517.2
14389.6	10°	13260.5	12193.2	10424.8	9424.6	8950.3	8790.5	8785.3	8790.5	8811.1	8816.2
15394.9	12.5°	13946.2	12549.0	10507.3	9491.6	9146.2	9058.6	9043.1	9037.9	9053.4	9063.7
16410.6	15°	14693.7	13018.1	10646.5	9636.0	9362.8	9270.0	9254.5	9223.6	9218.4	9213.2
17477.8	17.5°	15461.9	13482.2	10801.2	9790.7	9502.0	9373.1	9316.4	9244.2	9187.5	9172.0
18581.1	20°	16240.5	13941.0	10909.5	9868.0	9512.3	9331.8	9218.4	9094.7	8996.7	8940.0
19694.8	22.5°	17070.5	14420.5	10976.5	9847.4	9419.5	9172.0	8965.8	8821.4	8671.9	8573.9
20818.7	25°	17880.0	14838.1	10971.3	9739.1	9239.0	8924.5	8661.6	8476.0	8269.7	8166.6
21978.8	27.5°	18658.5	15214.5	10842.4	9548.4	8981.2	8630.6	8316.1	8094.5	7893.4	7795.4
23149.1	30°	19462.8	15529.0	10641.4	9270.0	8677.0	8290.4	7944.9	7754.2	7573.7	7480.9
24386.5	32.5°	20261.9	15817.7	10357.8	8924.5	8326.5	7955.2	7615.0	7439.7	7331.4	7331.4
25716.6	35°	21107.4	16018.8	9981.4	8522.4	7955.2	7599.5	7331.4	7228.3	7218.0	7156.1
27124.1	37.5°	21999.4	16147.7	9522.6	8109.9	7589.2	7254.1	7171.6	7047.8	6944.7	6810.7
28670.9	40°	22937.7	16276.5	8970.9	7682.0	7202.5	7016.9	6980.8	6815.8	6522.0	6192.0
30423.8	42.5°	24077.1	16364.2	8398.6	7254.1	6795.2	6733.3	6784.9	6501.3	6032.2	5784.7
32537.6	45°	25397.0	16508.6	7872.8	6831.3	6377.6	6377.6	6594.1	6222.9	5836.3	5681.6
34950.5	47.5°	27108.7	16843.7	7383.0	6367.3	5990.9	6094.0	6171.4	5887.8	5671.3	5480.5
37889.3	50°	29583.4	17648.0	6877.7	5898.1	5697.1	5903.3	5795.0	5630.0	5377.4	5222.7
42560.3	52.5°	32656.2	18122.3	6429.2	5475.4	5444.4	5650.6	5496.0	5341.3	5150.5	4944.3
46102.3	55°	34749.4	18209.9	6052.8	5166.0	5274.3	5253.7	5196.9	5057.7	4954.6	4681.4
49597.8	57.5°	37090.1	18385.2	5743.5	4980.4	5166.0	4939.2	4918.5	4800.0	4665.9	4480.3
53861.6	60°	39889.7	18658.5	5475.4	4908.2	5073.2	4732.9	4629.8	4583.4	4449.4	4356.6
58991.5	62.5°	42941.8	18906.0	5202.1	4918.5	4964.9	4531.9	4377.2	4361.7	4279.2	4248.3
63807.0	65°	45024.7	18230.6	4861.8	4908.2	4794.8	4325.6	4129.7	4124.6	4057.5	4047.2
65895.0	67.5°	44297.8	16090.9	4403.0	4763.9	4619.5	4119.4	3902.9	3882.2	3794.6	3799.8
63714.2	70°	40657.9	13038.8	3768.8	4408.1	4403.0	3933.8	3665.7	3598.7	3480.1	3500.7
55398.0	72.5°	33831.7	9661.8	2918.1	3815.2	4057.5	3763.7	3392.5	3284.2	3134.7	3155.3
40895.0	75°	24432.9	6568.4	2124.1	2902.7	3531.7	3562.6	3124.4	2938.7	2758.3	2789.2
22762.4	77.5°	12502.6	3722.4	1562.2	2000.4	2773.8	3237.8	2882.0	2634.6	2593.3	2882.0
6563.2	80°	4078.2	1866.4	1082.7	1402.4	1820.0	2650.0	2526.3	2242.7	2232.4	2299.4
1376.6	82.5°	1216.7	788.8	696.0	922.9	1005.4	2031.3	2180.9	1696.2	1459.1	1536.4
458.9	85°	417.6	381.5	397.0	458.9	479.5	1191.0	1526.1	1123.9	1062.1	1170.3
103.1	87.5°	98.0	134.0	113.4	103.1	103.1	288.7	592.9	469.2	649.6	433.1
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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180°
11718.9
9264.8
8419.3
8532.7
8821.4
9068.9
9208.1
9187.5
8960.6
8579.1
8166.6
7790.3
7475.8
7336.6
7140.6
6790.1
6145.6
5789.9
5707.4
5475.4
5207.3
4903.1
4686.5
4418.4
4382.3
4248.3
4042.1
3799.8
3521.3
3150.1
2799.5
2840.8
1974.6
1588.0
1154.9
417.6
0.0

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