

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: P944489

Luminaire Tested: **GALN-SB9B-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35265 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

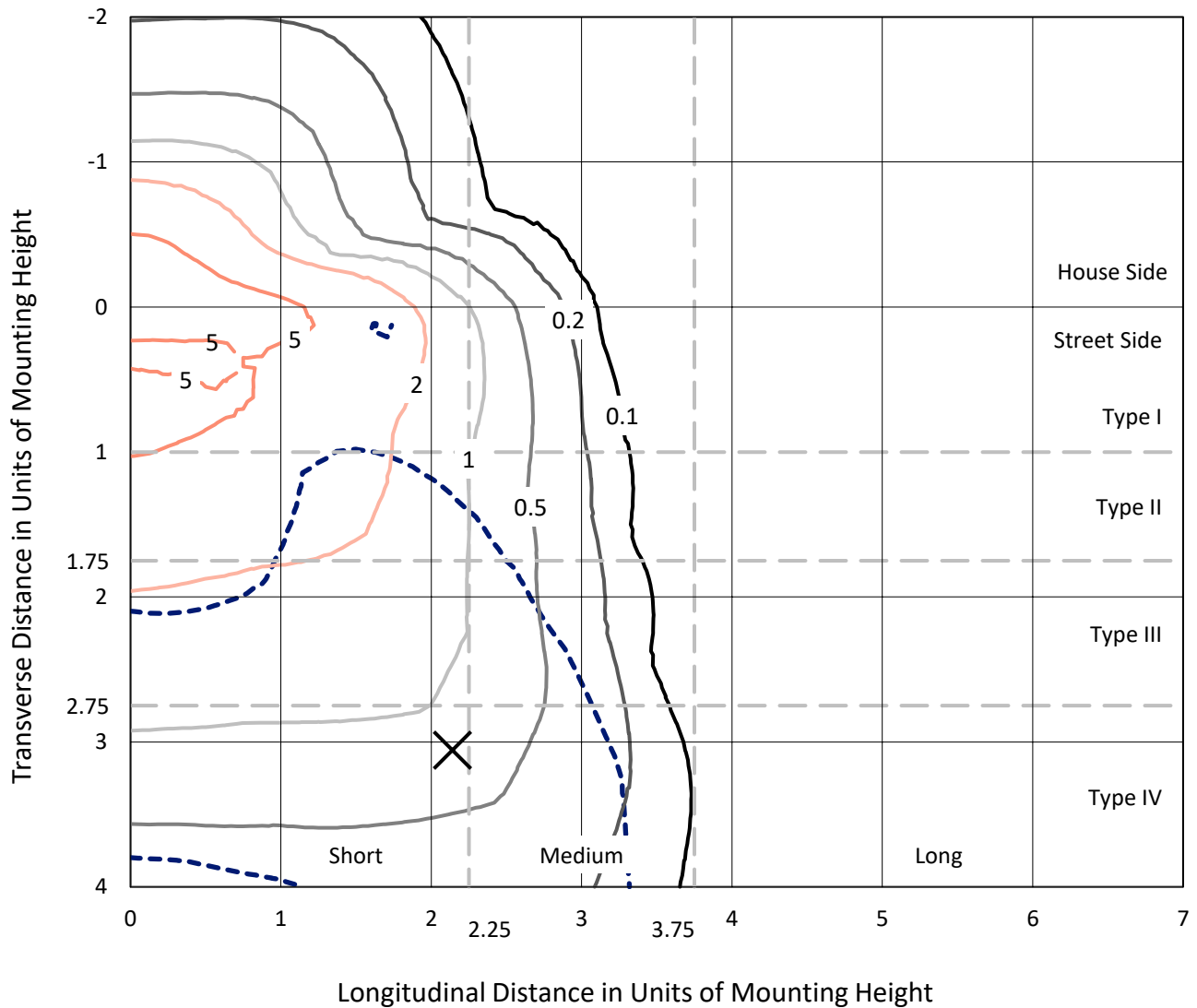
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

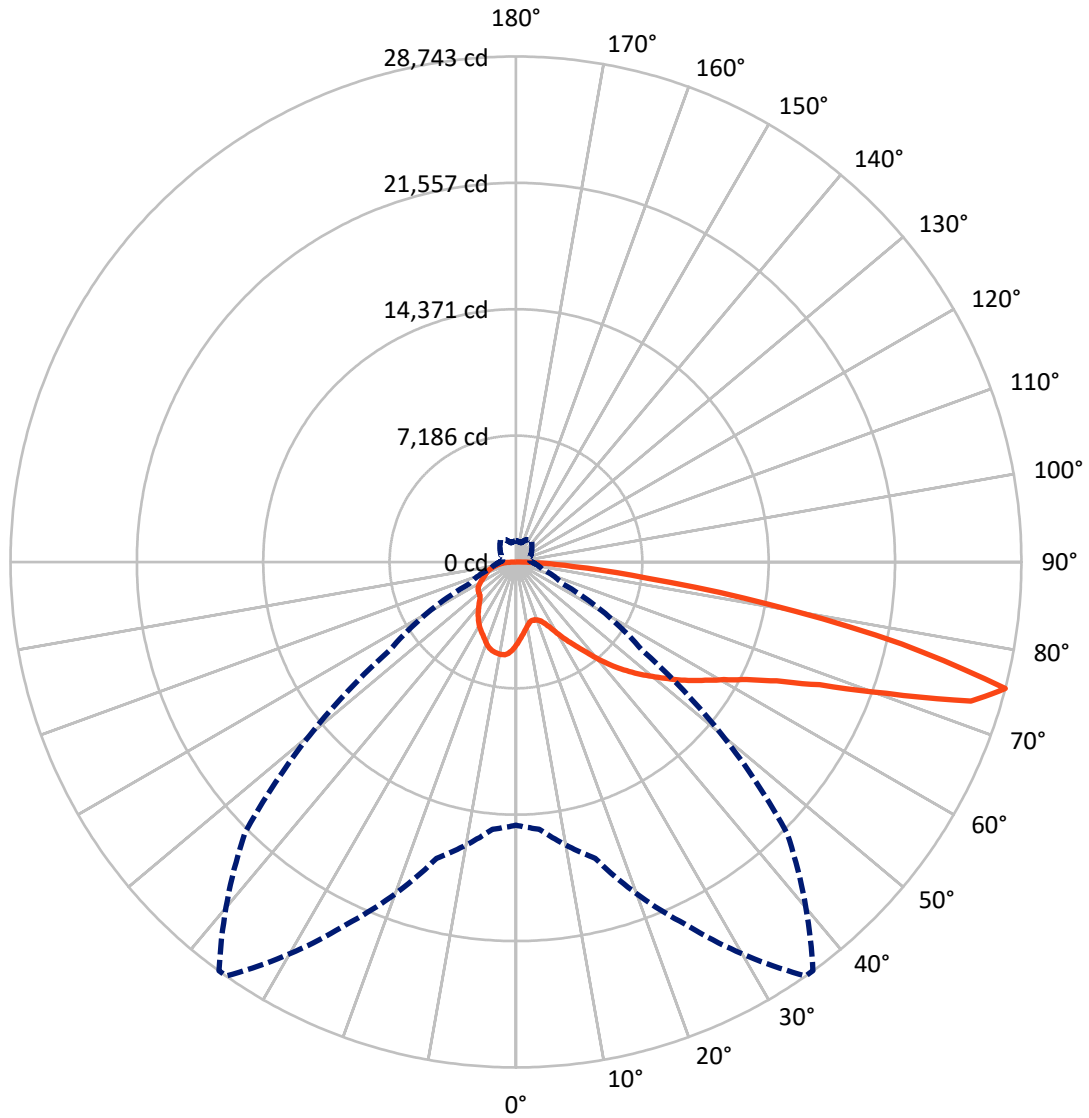
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8392.2	0.0	8392.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	26872.8	0.0	26872.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	35265.0	0.0	35265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.9	1.3
10°-20°	1283.4	3.6
20°-30°	2155.1	6.1
30°-40°	3349.3	9.5
40°-50°	4971.3	14.1
50°-60°	6863.2	19.5
60°-70°	8326.6	23.6
70°-80°	6881.3	19.5
80°-90°	989.7	2.8
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°	35265.0	100.0
0°-180°	35265.0	100.0

Coefficient of Utilization



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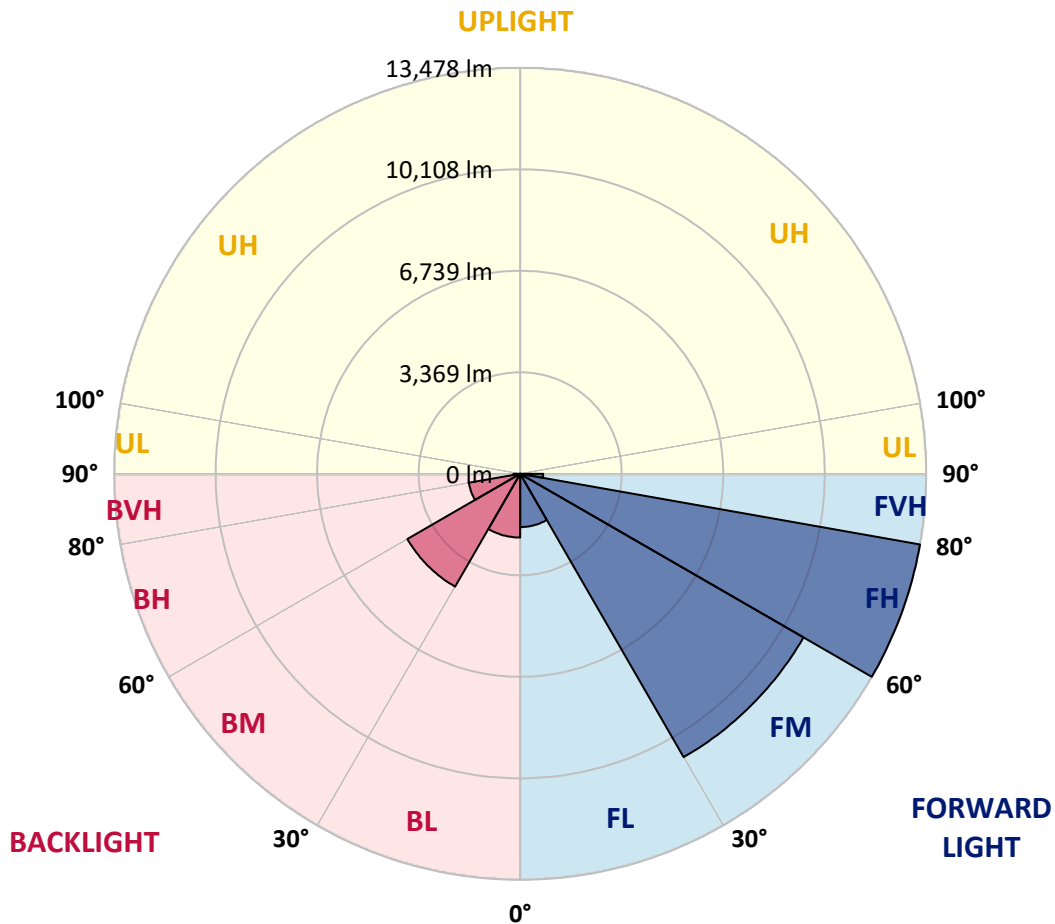
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1768.5	5.0			
FM (30°-60°)	10859.7	30.8			
FH (60°-80°)	13477.8	38.2			G5
FVH (80°-90°)	766.9	2.2			G5
BL (0°-30°)	2114.9	6.0	B3/2500		
BM (30°-60°)	4324.2	12.3	B3/5000		
BH (60°-80°)	1730.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	222.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3
2.5°	4333.3	4360.0	4371.4	4365.7	4394.3	4390.5	4430.5	4480.1	4548.7	4615.4
5°	3999.6	4028.2	4053.0	4075.9	4131.2	4148.3	4211.3	4306.6	4432.4	4560.1
7.5°	3688.9	3713.7	3751.8	3793.8	3887.2	3904.3	4009.2	4157.9	4333.3	4520.1
10°	3435.4	3460.1	3500.2	3547.8	3664.1	3685.1	3818.5	4016.8	4245.6	4482.0
12.5°	3326.7	3334.3	3357.2	3404.8	3505.9	3519.2	3666.0	3892.9	4159.8	4453.4
15°	3321.0	3336.2	3338.1	3362.9	3446.8	3452.5	3587.9	3812.8	4106.4	4447.7
17.5°	3378.2	3389.6	3372.4	3387.7	3458.2	3467.8	3574.5	3774.7	4089.2	4472.4
20°	3530.7	3540.2	3488.7	3467.8	3519.2	3526.9	3631.7	3799.5	4106.4	4523.9
22.5°	3854.8	3860.5	3734.7	3648.9	3652.7	3656.5	3748.0	3900.5	4173.1	4617.3
25°	4360.0	4356.1	4156.0	3990.1	3894.8	3873.8	3934.8	4064.5	4285.6	4741.2
27.5°	4950.9	4922.3	4722.2	4474.3	4266.5	4236.0	4222.7	4278.0	4445.7	4905.2
30°	5618.2	5591.5	5376.1	5052.0	4764.1	4714.6	4588.7	4560.1	4684.0	5128.2
32.5°	6350.3	6333.1	6075.7	5683.0	5297.9	5240.7	5029.1	4952.9	5050.1	5465.7
35°	6964.1	6948.9	6735.3	6331.2	5860.3	5789.8	5574.3	5488.6	5538.1	5898.4
37.5°	7518.9	7511.3	7328.2	7009.9	6523.7	6437.9	6195.8	6167.2	6157.7	6468.4
40°	8033.6	8014.5	7823.9	7656.1	7295.8	7217.7	7004.1	6979.4	6906.9	7170.0
42.5°	8603.6	8554.1	8277.6	8199.5	8102.2	8037.4	7909.7	7913.5	7753.4	7961.2
45°	9068.8	9040.2	8756.1	8710.4	8815.2	8788.5	8899.1	8927.7	8617.0	8790.5
47.5°	9568.3	9541.6	9301.4	9269.0	9553.0	9560.6	9951.5	9961.0	9459.6	9652.2
50°	10184.0	10145.9	9907.6	9947.6	10266.0	10294.6	11009.5	10944.7	10235.5	10527.2
52.5°	10590.1	10613.0	10561.5	10626.3	11061.0	11087.7	12050.4	11884.6	11003.8	11390.8
55°	10889.4	10935.2	11095.3	11244.0	11899.8	11926.5	13032.2	12778.7	11640.5	12191.5
57.5°	11274.5	11209.7	11509.0	11798.8	12696.7	12767.2	13987.3	13640.4	12204.8	12881.6
60°	11827.4	11781.6	12014.2	12443.1	13588.9	13701.4	14997.7	14416.3	12618.5	13428.7
62.5°	12948.3	12833.9	12870.2	13249.5	14713.7	14862.4	16137.8	15093.0	12824.4	13642.3
65°	14624.1	14427.7	14244.7	14507.8	16297.9	16444.7	17424.6	15624.9	12748.2	13228.6
67.5°	16734.5	16540.0	16315.1	16562.9	18631.3	18747.6	19012.6	15924.2	12147.6	11634.8
70°	18475.0	18402.6	18671.4	19691.3	22358.4	22362.2	21048.7	15676.4	10502.4	8249.0
72.5°	18244.3	18200.5	19617.0	22770.2	27055.8	26954.7	22976.0	13800.5	7074.7	3721.3
75°	14967.2	15251.3	17445.6	22714.9	28742.9	28729.6	21796.0	8773.3	2926.3	1542.3
77.5°	8026.0	8475.9	11326.0	16770.7	22438.4	22775.9	15323.7	3069.3	1256.3	987.5
80°	2617.5	3010.2	4514.4	8538.8	14580.2	14517.3	6567.6	1204.9	859.8	699.7
82.5°	1111.4	1157.2	2017.0	4032.1	7482.7	7366.4	2091.3	692.0	604.3	478.5
85°	434.7	486.1	890.3	1864.5	3240.9	3170.4	754.9	343.2	387.0	312.7
87.5°	143.0	173.5	318.4	638.6	1008.5	972.3	184.9	118.2	167.8	143.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4699.3	0°	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3
4712.6	2.5°	4739.3	4769.8	4806.1	4859.4	4905.2	4943.3	4983.4	5008.1	5017.7	5046.3
4720.3	5°	4773.6	4840.4	4930.0	5017.7	5103.5	5154.9	5200.7	5223.6	5244.5	5259.8
4741.2	7.5°	4830.8	4916.6	5057.7	5172.1	5244.5	5286.5	5317.0	5309.4	5317.0	5320.8
4764.1	10°	4880.4	5000.5	5168.3	5276.9	5332.2	5334.1	5326.5	5299.8	5286.5	5288.4
4798.4	12.5°	4939.5	5073.0	5254.1	5345.6	5360.8	5318.9	5286.5	5240.7	5223.6	5215.9
4849.9	15°	5019.6	5172.1	5347.5	5381.8	5343.7	5290.3	5235.0	5160.7	5122.5	5092.0
4937.6	17.5°	5116.8	5284.6	5419.9	5395.1	5313.2	5225.5	5135.9	5023.4	4945.2	4912.8
5057.7	20°	5252.2	5402.8	5475.2	5366.5	5242.6	5109.2	4956.7	4819.4	4747.0	4714.6
5210.2	22.5°	5416.1	5561.0	5528.6	5317.0	5141.6	4928.1	4737.4	4636.4	4600.2	4577.3
5406.6	25°	5612.5	5736.4	5566.7	5244.5	4975.7	4687.9	4541.1	4508.7	4491.5	4474.3
5646.8	27.5°	5867.9	5934.7	5595.3	5137.8	4716.5	4432.4	4379.0	4384.7	4379.0	4350.4
5980.4	30°	6205.4	6192.0	5622.0	4964.3	4419.1	4201.7	4205.5	4230.3	4234.1	4215.1
6445.6	32.5°	6649.6	6514.2	5635.3	4739.3	4135.0	3999.6	4003.5	4030.2	4049.2	4016.8
7053.7	35°	7187.2	6889.8	5614.4	4457.2	3915.8	3807.1	3778.5	3786.1	3791.8	3761.3
7791.5	37.5°	7814.4	7311.1	5521.0	4144.5	3734.7	3618.4	3557.4	3505.9	3475.4	3446.8
8626.5	40°	8502.6	7770.5	5349.4	3839.5	3532.6	3418.2	3326.7	3229.5	3126.5	3088.4
9511.1	42.5°	9223.2	8243.3	5141.6	3547.8	3300.0	3206.6	3109.4	2968.3	2813.9	2735.7
10430.0	45°	9970.5	8727.5	4937.6	3260.0	3061.7	3021.7	2909.2	2739.5	2571.7	2472.6
11350.8	47.5°	10702.6	9185.1	4638.3	2970.2	2838.6	2882.5	2794.8	2638.5	2451.6	2295.3
12263.9	50°	11402.2	9614.0	4148.3	2676.6	2657.5	2840.6	2756.7	2531.7	2318.2	2118.0
13159.9	52.5°	12096.2	9961.0	3521.1	2409.7	2560.3	2829.1	2707.1	2459.3	2198.1	1988.4
14002.6	55°	12685.2	10140.2	2916.8	2180.9	2419.2	2731.9	2648.0	2373.5	2028.4	1805.4
14580.2	57.5°	13020.8	9995.3	2413.5	1956.0	2224.8	2571.7	2547.0	2190.5	1826.3	1654.8
14692.7	60°	12875.9	9408.1	2001.7	1759.6	2039.9	2398.3	2371.6	2009.4	1671.9	1509.9
14090.3	62.5°	12077.1	8289.1	1675.7	1588.0	1872.1	2221.0	2196.2	1870.2	1553.7	1397.4
12490.8	65°	10468.1	6743.0	1422.2	1445.1	1702.4	2007.4	2043.7	1753.9	1460.3	1307.8
9663.6	67.5°	7984.0	4884.2	1223.9	1321.1	1536.6	1797.7	1902.6	1670.0	1382.1	1237.3
5591.5	70°	4550.6	2773.8	1056.2	1201.0	1389.8	1603.3	1793.9	1603.3	1298.3	1178.2
2095.1	72.5°	1725.3	1273.5	913.2	1080.9	1248.7	1439.3	1673.8	1498.4	1201.0	1111.4
1082.8	75°	920.8	775.9	768.3	939.9	1086.7	1279.2	1523.2	1395.5	1128.6	1174.3
749.2	77.5°	627.2	549.0	642.5	804.5	909.4	1101.9	1363.1	1239.2	978.0	974.2
518.5	80°	434.7	388.9	522.4	648.2	703.5	926.5	1189.6	1063.8	796.9	743.5
320.3	82.5°	261.2	253.6	390.8	484.2	497.6	714.9	985.6	892.2	652.0	568.1
190.6	85°	143.0	150.6	249.7	284.1	289.8	499.5	772.1	690.1	501.4	421.3
68.6	87.5°	40.0	51.5	91.5	112.5	139.2	259.3	459.4	409.9	251.6	175.4
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°
4699.3
5044.4
5263.6
5326.5
5292.2
5212.1
5101.6
4914.7
4710.7
4581.1
4474.3
4356.1
4224.6
4032.1
3782.3
3465.9
3105.5
2745.2
2465.0
2278.2
2100.9
1965.5
1786.3
1631.9
1487.0
1372.6
1283.0
1214.4
1162.9
1096.2
1212.5
897.9
711.1
571.9
425.1
175.4
0.0

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