

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: P954573

Luminaire Tested: **GALN-SB7D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76414 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

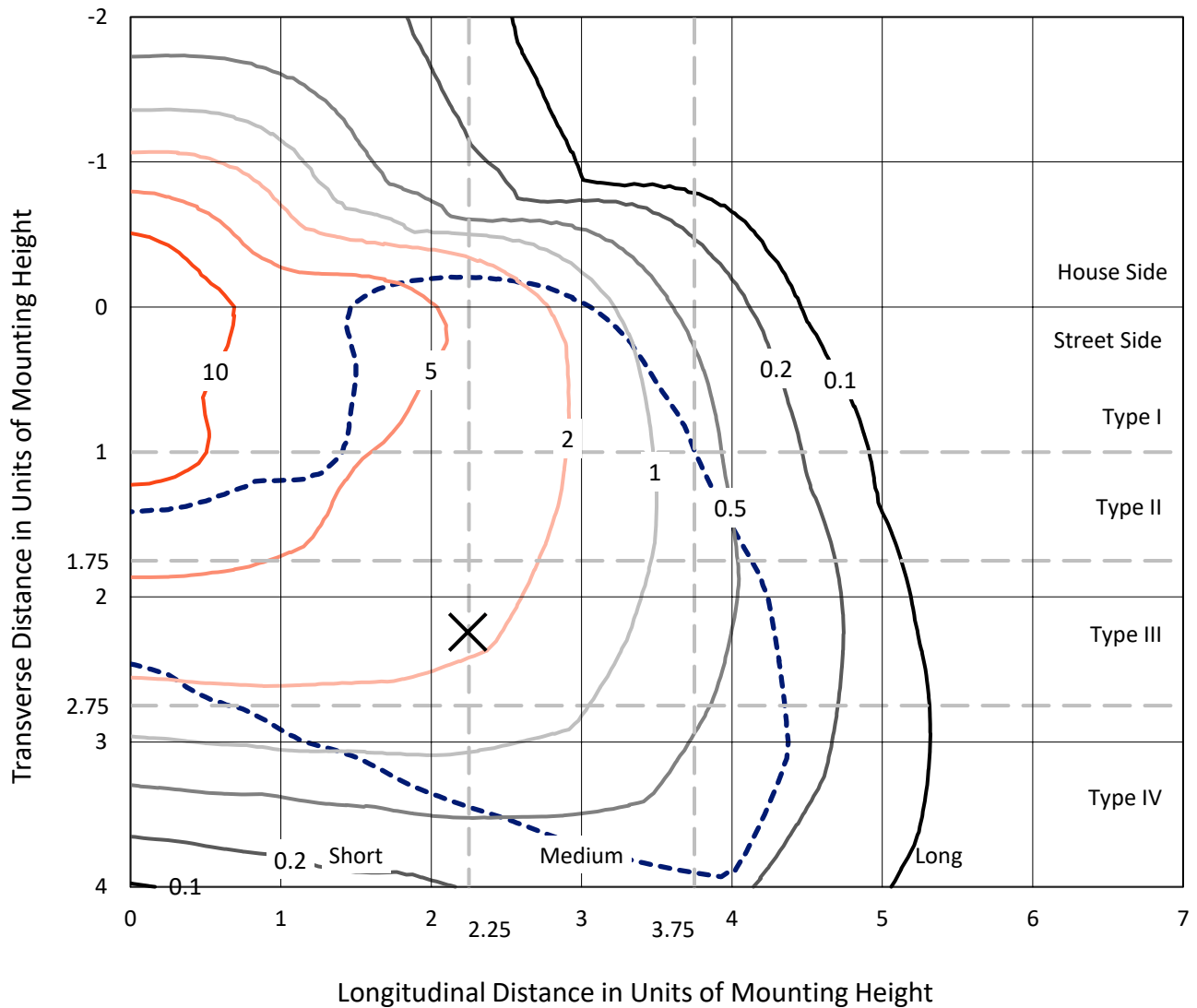
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

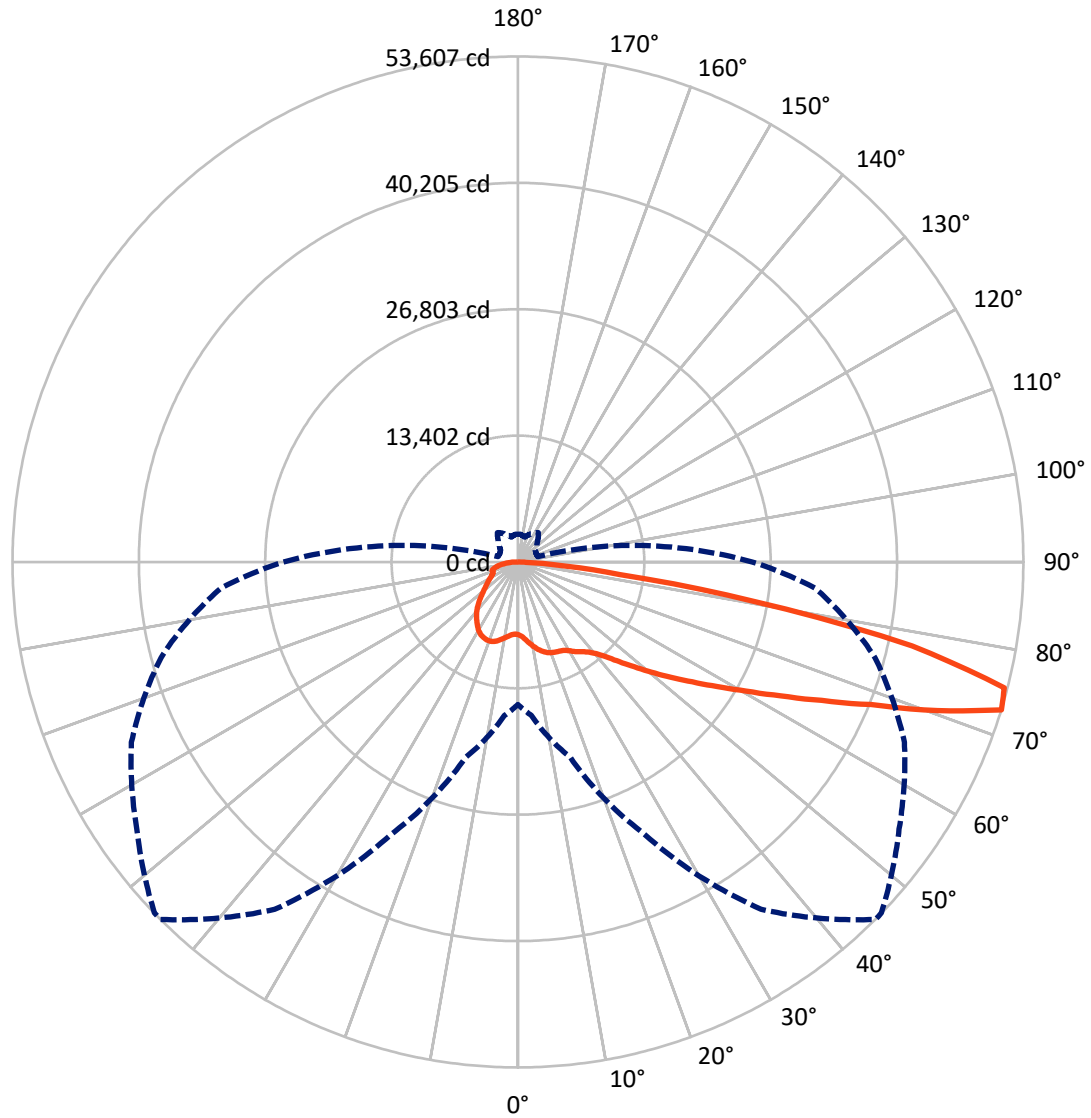
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17274.6	0.0	17274.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	59139.4	0.0	59139.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	76414.0	0.0	76414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.6	1.0
10°-20°	2615.9	3.4
20°-30°	4550.6	6.0
30°-40°	6523.5	8.5
40°-50°	9185.4	12.0
50°-60°	14069.4	18.4
60°-70°	20381.6	26.7
70°-80°	16275.9	21.3
80°-90°	2027.1	2.7
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°	76414.0	100.0
0°-180°	76414.0	100.0

Coefficient of Utilization



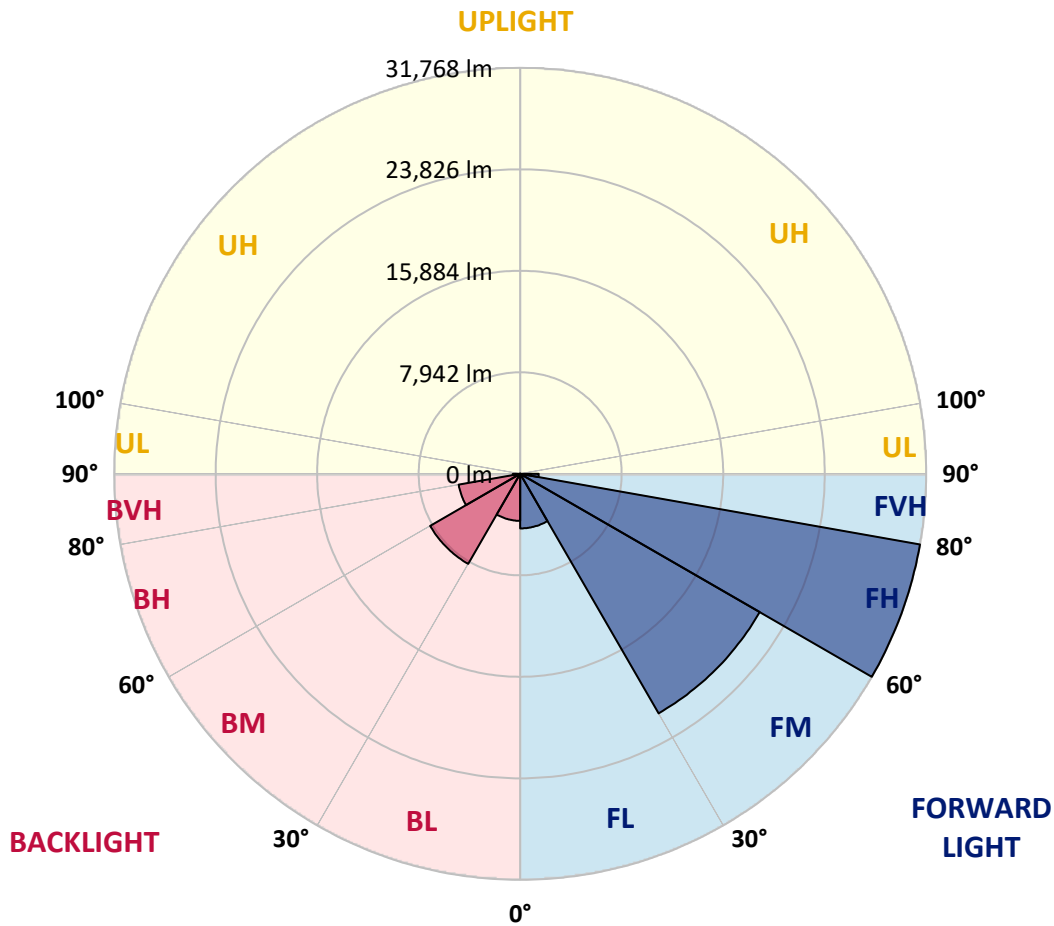
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4273.2	5.6			
FM (30°-60°)	21644.4	28.3			
FH (60°-80°)	31767.5	41.6			G5
FVH (80°-90°)	1454.3	1.9			G5
BL (0°-30°)	3677.9	4.8	B4/5000		
BM (30°-60°)	8133.9	10.6	B4/8500		
BH (60°-80°)	4890.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	572.8	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7
2.5°	8010.6	8062.9	8014.6	7970.3	7950.2	7897.9	7893.9	7861.7	7841.5	7785.2
5°	8570.1	8638.6	8558.0	8469.5	8389.0	8260.2	8244.1	8151.5	8046.8	7926.1
7.5°	9202.1	9262.5	9169.9	9037.1	8896.2	8682.8	8678.8	8509.7	8344.7	8139.4
10°	9753.6	9834.1	9709.3	9528.2	9351.1	9109.5	9081.4	8888.1	8678.8	8413.1
12.5°	10240.7	10297.0	10176.3	9954.9	9749.6	9508.0	9471.8	9258.5	9025.0	8723.1
15°	10627.1	10699.6	10538.6	10301.1	10083.7	9846.2	9814.0	9620.8	9387.3	9069.3
17.5°	10880.7	10941.1	10776.1	10510.4	10301.1	10103.8	10079.7	9918.6	9713.3	9391.3
20°	10977.3	11041.7	10868.6	10598.9	10405.7	10252.8	10240.7	10123.9	9983.0	9689.2
22.5°	11073.9	11134.3	10908.9	10627.1	10458.0	10361.4	10357.4	10280.9	10224.6	9983.0
25°	11464.4	11480.5	11178.6	10772.0	10530.5	10446.0	10441.9	10437.9	10462.1	10272.9
27.5°	11802.5	11798.5	11540.9	11158.5	10784.1	10607.0	10603.0	10643.2	10719.7	10562.7
30°	12297.7	12253.4	11947.5	11548.9	11206.8	10933.0	10908.9	10872.7	10933.0	10808.3
32.5°	13348.3	13207.4	12712.3	12003.8	11557.0	11347.7	11315.5	11090.0	11114.2	11037.7
35°	14853.8	14668.6	14008.5	12865.3	11991.7	11693.9	11677.8	11391.9	11343.6	11275.2
37.5°	16645.1	16415.7	15646.8	14113.1	12740.5	12096.4	12072.2	11814.6	11617.4	11544.9
40°	18444.5	18154.7	17518.6	15634.7	13843.4	12768.6	12692.2	12301.7	12076.3	11955.5
42.5°	20191.5	19950.0	19406.6	17341.5	15204.0	13750.8	13581.8	12913.6	12744.5	12631.8
45°	21737.3	21519.9	21121.4	19165.0	16798.1	15087.3	14922.2	13831.4	13779.0	13779.0
47.5°	22993.2	22944.9	22522.2	21024.8	18678.0	16608.9	16323.1	15107.4	15248.3	15465.7
50°	24386.0	24253.2	23802.3	22856.4	20887.9	18351.9	18118.4	16673.3	17200.6	17796.4
52.5°	25666.1	25738.6	25235.4	24764.4	23383.7	20296.2	19885.6	18521.0	19660.2	20646.4
55°	26982.4	26986.4	26845.5	26781.1	26000.2	22445.8	21994.9	20743.0	22554.4	23778.2
57.5°	28218.2	28226.3	28435.6	29003.2	29035.4	24925.4	24414.2	23472.2	25770.8	27018.6
60°	29321.2	29377.5	29949.1	31277.5	31704.2	27767.4	27284.3	26696.6	29095.8	30351.7
62.5°	29691.5	29896.8	31168.9	33056.8	34340.9	31253.4	30778.4	30428.2	32589.8	33757.2
65°	29063.6	29534.5	31994.1	34526.1	37054.0	35395.5	34924.6	34542.2	36220.8	37319.7
67.5°	27521.8	28129.7	31945.8	36067.8	40346.8	40379.0	39940.2	39042.6	40113.3	40536.0
70°	23460.2	24369.9	29132.0	36643.4	44126.7	47194.1	46771.4	44460.8	43997.9	41953.0
72.5°	15115.5	16339.2	21451.5	31905.5	44968.0	53606.6	53582.4	49351.7	45225.6	39199.6
75°	5514.8	6263.6	9966.9	20026.5	37746.4	53280.5	53437.5	48514.4	41284.7	30279.2
77.5°	2008.7	2197.9	3252.5	7696.6	23214.6	42750.0	43076.1	38785.0	29385.6	15196.0
80°	1054.7	1159.3	1666.5	2986.9	9946.8	25388.3	25899.6	23049.6	13811.2	4576.9
82.5°	583.7	632.0	933.9	1622.2	4480.3	10856.6	11162.5	9105.5	4858.7	1940.3
85°	314.0	334.1	438.8	885.6	2189.8	3763.8	3848.3	2721.2	1936.2	1139.2
87.5°	92.6	112.7	144.9	281.8	857.4	845.3	865.5	539.4	764.8	575.6
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°
7708.7	0°	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7	7708.7
7769.1	2.5°	7744.9	7732.8	7688.6	7668.4	7644.3	7640.3	7660.4	7664.4	7668.4	7672.5
7857.6	5°	7817.4	7777.1	7736.9	7712.7	7720.8	7724.8	7765.0	7793.2	7813.3	7829.4
8022.7	7.5°	7958.3	7926.1	7857.6	7853.6	7865.7	7901.9	7954.2	8018.6	8054.9	8083.0
8236.0	10°	8167.6	8107.2	8026.7	8038.8	8062.9	8115.3	8223.9	8276.3	8336.7	8389.0
8497.7	12.5°	8380.9	8328.6	8236.0	8244.1	8284.3	8376.9	8481.6	8546.0	8586.2	8626.5
8779.4	15°	8658.7	8566.1	8465.5	8465.5	8537.9	8638.6	8686.9	8739.2	8763.3	8807.6
9081.4	17.5°	8944.5	8823.7	8690.9	8682.8	8771.4	8819.7	8847.9	8855.9	8864.0	8912.3
9375.2	20°	9230.3	9097.5	8908.3	8892.2	8912.3	8904.2	8900.2	8892.2	8904.2	8964.6
9677.1	22.5°	9512.1	9359.1	9097.5	9025.0	8968.6	8892.2	8888.1	8884.1	8892.2	8952.5
10003.2	25°	9842.2	9657.0	9306.8	9089.4	8900.2	8795.5	8807.6	8811.7	8819.7	8868.0
10341.3	27.5°	10200.4	9995.1	9500.0	9069.3	8727.1	8654.7	8634.5	8646.6	8674.8	8751.3
10679.4	30°	10558.7	10317.2	9677.1	8988.8	8509.7	8409.1	8344.7	8372.9	8461.4	8537.9
10973.3	32.5°	10884.7	10643.2	9818.0	8811.7	8232.0	8075.0	7990.5	8026.7	8115.3	8143.4
11299.4	35°	11267.2	10993.4	9878.4	8529.9	7930.1	7688.6	7575.8	7523.5	7567.8	7539.6
11681.8	37.5°	11693.9	11408.0	9870.3	8159.5	7575.8	7298.1	7141.1	6943.9	6851.3	6754.7
12245.3	40°	12325.8	11915.3	9773.7	7712.7	7137.1	6883.5	6601.7	6267.6	6058.3	5869.1
13155.1	42.5°	13187.3	12619.7	9596.6	7221.6	6641.9	6404.4	6022.0	5631.6	5301.5	4987.5
14535.8	45°	14471.4	13541.5	9375.2	6698.3	6106.6	5873.1	5458.5	5019.7	4645.3	4242.8
16496.2	47.5°	16323.1	14781.4	9165.9	6102.5	5543.0	5329.7	4955.3	4548.7	4105.9	3715.5
19330.1	50°	18867.2	16560.6	8972.7	5522.9	4987.5	4826.5	4528.6	4114.0	3667.2	3353.2
22651.1	52.5°	22103.6	18979.9	8892.2	4963.3	4468.2	4407.8	4170.3	3783.9	3361.2	3095.6
26523.5	55°	25819.1	21874.1	8892.2	4428.0	4013.3	4033.5	3868.4	3510.2	3143.9	2906.4
30516.7	57.5°	29611.0	24804.7	8731.1	3932.8	3626.9	3711.4	3606.8	3292.8	2962.7	2717.2
34715.2	60°	33105.1	27260.2	8079.0	3482.0	3284.7	3417.6	3349.2	3079.4	2676.9	2471.6
38225.4	62.5°	35790.0	28644.9	6823.1	3123.7	3003.0	3155.9	3119.7	2797.7	2624.6	2540.0
41107.6	65°	37134.5	28419.5	5216.9	2805.7	2765.5	3003.0	2926.5	2914.4	2777.5	2680.9
42045.5	67.5°	36309.3	26479.2	3783.9	2572.2	2628.6	2862.1	3155.9	3204.2	2950.6	2761.4
39404.9	70°	32690.5	22969.1	2817.8	2350.8	2455.5	2866.1	3598.7	3353.2	2894.3	2672.9
31603.6	72.5°	24869.1	17128.2	2185.8	2117.4	2230.1	2886.2	3796.0	3284.7	2733.3	2954.7
19688.3	75°	14221.8	9403.4	1755.1	1831.6	1948.3	2697.0	3695.3	3107.6	2608.5	2713.1
7801.3	77.5°	5422.2	3614.8	1449.2	1549.8	1565.9	2354.9	3534.3	3095.6	2483.7	2423.3
2338.8	80°	1879.9	1412.9	1199.6	1231.8	1211.7	2093.2	3389.4	2693.0	2032.8	1819.5
966.1	82.5°	768.9	704.4	950.0	909.7	861.4	1626.3	2737.3	2201.9	1662.5	1469.3
466.9	85°	334.1	446.8	628.0	551.5	499.2	1127.1	2193.9	1863.8	1404.9	1211.7
153.0	87.5°	68.4	169.1	265.7	249.6	257.6	752.8	1557.8	1324.4	994.3	744.7
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°
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7708.7
7688.6
7837.5
8091.1
8376.9
8642.6
8823.7
8928.4
8988.8
8992.8
8932.4
8827.8
8622.5
8244.1
7628.2
6815.0
5881.1
4959.3
4194.5
3671.2
3333.1
3075.4
2882.2
2676.9
2439.4
2511.9
2648.7
2729.2
2636.7
2930.5
2713.1
2210.0
1759.1
1453.2
1207.6
583.7
0.0

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