

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: P956239

Luminaire Tested: **GALN-SB8D-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56895 lumens
Efficiency: N/A
Efficacy: 97.3 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

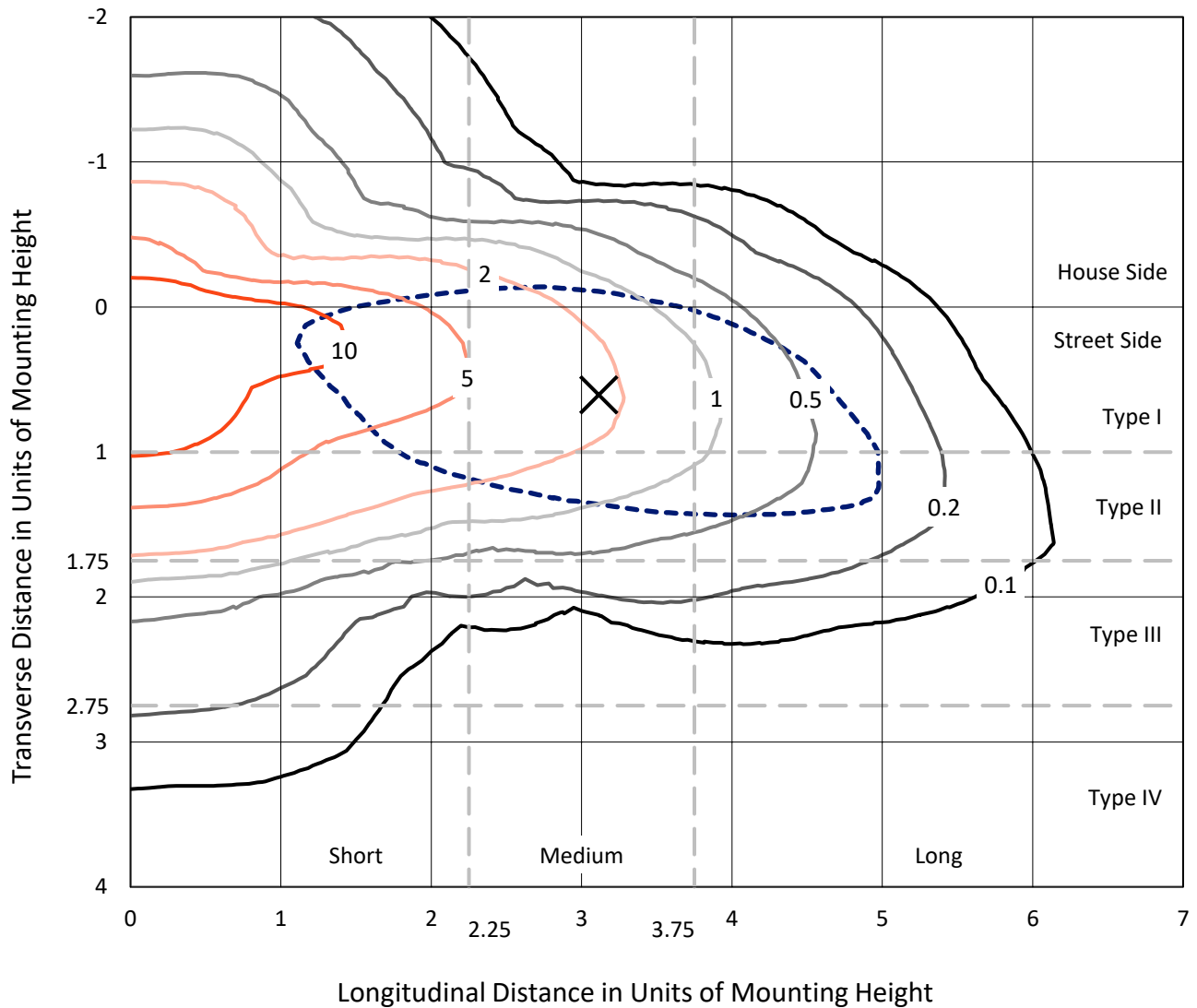
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

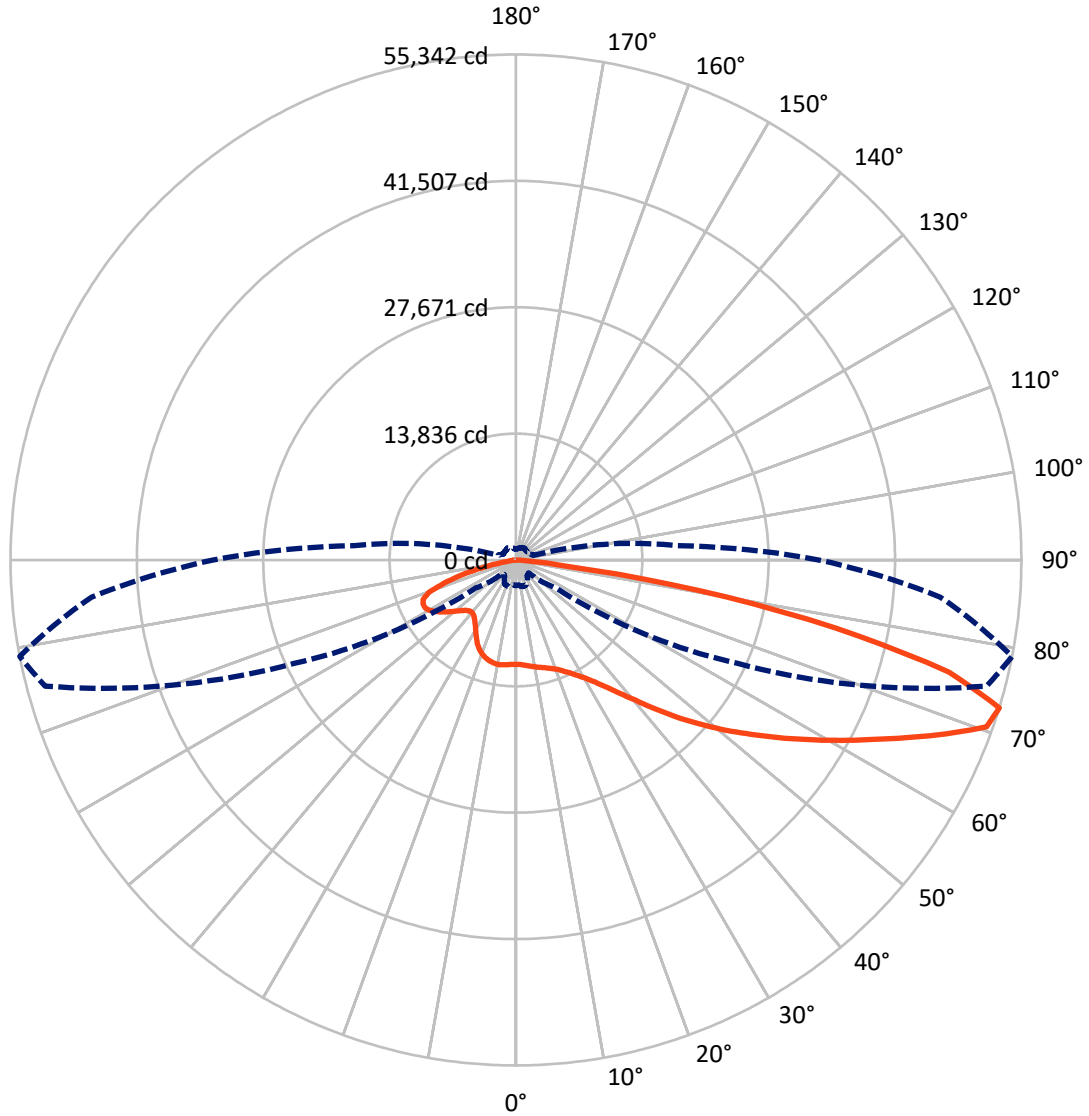
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12520.0	0.0	12520.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	44375.0	0.0	44375.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	56895.0	0.0	56895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.7	1.8
10°-20°	2710.5	4.8
20°-30°	4373.6	7.7
30°-40°	6564.2	11.5
40°-50°	9311.6	16.4
50°-60°	11759.3	20.7
60°-70°	11943.2	21.0
70°-80°	8139.8	14.3
80°-90°	1056.1	1.9
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°	56895.0	100.0
0°-180°	56895.0	100.0

Coefficient of Utilization



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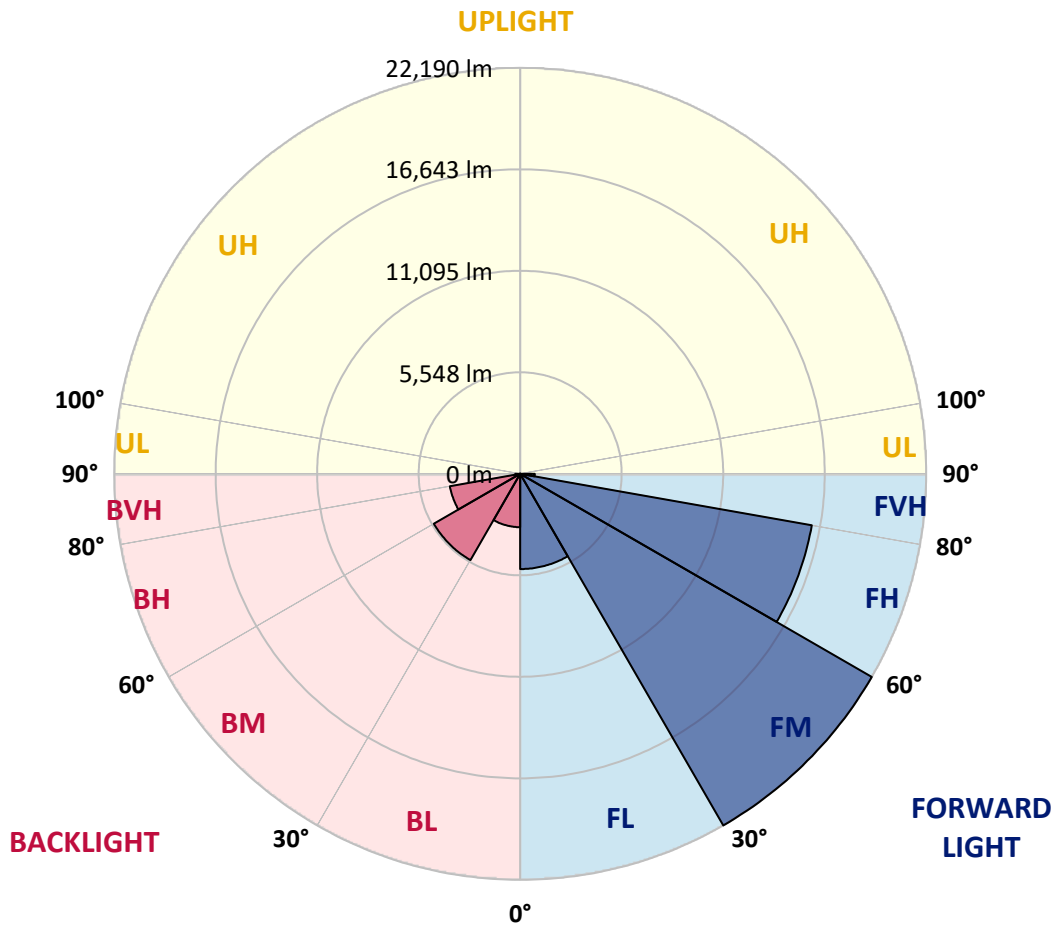
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5204.5	9.1			
FM (30°-60°)	22190.2	39.0			
FH (60°-80°)	16184.7	28.4			G5
FVH (80°-90°)	795.5	1.4			G5
BL (0°-30°)	2916.3	5.1	B4/5000		
BM (30°-60°)	5444.9	9.6	B4/8500		
BH (60°-80°)	3898.3	6.9	B4/5000		G4/5000
BVH (80°-90°)	260.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1
2.5°	11427.1	11373.0	11406.1	11394.0	11409.1	11427.1	11433.2	11442.2	11472.3	11469.3
5°	11403.1	11348.9	11394.0	11379.0	11418.1	11460.3	11496.4	11529.5	11577.6	11598.7
7.5°	11351.9	11315.8	11360.9	11406.1	11478.3	11541.5	11592.7	11667.9	11737.1	11749.2
10°	11054.0	11026.9	11132.2	11249.6	11448.2	11619.8	11731.1	11818.4	11893.6	11905.7
12.5°	10744.0	10710.9	10828.3	10987.8	11309.8	11619.8	11854.5	11968.9	12035.1	12074.2
15°	10692.8	10665.7	10732.0	10870.4	11138.2	11538.5	11938.8	12149.4	12206.6	12251.8
17.5°	10939.6	10888.4	10915.5	10963.7	11120.2	11463.3	12005.0	12354.1	12441.4	12489.5
20°	11511.4	11439.2	11397.1	11300.7	11273.7	11475.3	11999.0	12600.9	12715.2	12775.4
22.5°	12272.8	12224.7	12134.4	11890.6	11625.8	11622.8	12113.3	12916.9	13130.5	13187.7
25°	13193.7	13121.5	13007.1	12676.1	12167.5	11914.7	12305.9	13320.1	13678.3	13693.3
27.5°	14253.1	14144.7	13988.3	13551.9	12865.7	12372.1	12600.9	13783.6	14307.3	14301.2
30°	15369.6	15261.3	15095.8	14566.1	13702.3	12989.1	13010.2	14283.2	15053.6	15020.5
32.5°	16185.2	16103.9	16070.8	15661.5	14665.4	13717.4	13479.6	14836.9	15974.5	15944.4
35°	16811.2	16705.8	16745.0	16537.3	15715.7	14533.0	14054.5	15496.0	17094.1	17091.1
37.5°	17431.1	17337.8	17371.0	17232.5	16687.8	15568.2	14755.7	16302.6	18481.5	18547.7
40°	17996.9	17897.6	18030.0	17900.6	17443.2	16669.7	15553.2	17214.5	20088.5	20214.9
42.5°	18337.0	18258.8	18478.5	18481.5	18099.3	17599.7	16429.0	18219.6	21948.4	22231.3
45°	18454.4	18427.3	18758.3	18827.6	18680.1	18138.4	17217.5	19315.1	23952.8	24458.4
47.5°	18328.0	18276.8	18734.3	18990.1	19107.4	18391.2	17870.5	20500.9	25999.2	26739.6
50°	17690.0	17590.6	18270.8	18809.5	19227.8	18556.7	18529.6	21870.2	28325.6	29135.2
52.5°	16543.3	16468.1	17241.5	18177.5	18963.0	18638.0	19270.0	23365.9	30534.6	31581.9
55°	15077.7	14978.4	15830.1	17051.9	18303.9	18610.9	20010.3	25039.2	33140.8	34203.2
57.5°	12754.3	12555.7	13633.1	15077.7	17229.5	18577.8	20780.7	26703.5	35789.2	37062.2
60°	9365.6	9070.7	10391.9	12104.3	15128.9	18255.8	21734.8	28569.4	38967.3	40113.9
62.5°	5453.3	5281.7	6145.4	7743.5	11403.1	16359.8	22270.5	30739.2	42091.2	43295.0
65°	4234.4	4186.2	4261.5	4384.9	6347.1	12248.7	20618.2	32854.9	46063.7	46906.4
67.5°	3873.3	3837.1	3870.2	3638.5	3220.2	6822.6	16311.6	33390.6	50319.2	50830.8
70°	3442.9	3400.8	3509.1	3310.5	2534.0	3102.8	10539.3	31446.5	53704.9	54664.9
72.5°	2804.9	2756.7	3009.5	2919.2	2133.8	1992.3	5293.7	26826.9	53349.8	55342.1
75°	2154.8	2127.7	2428.7	2503.9	1739.5	1568.0	2540.0	19941.1	46948.5	48955.9
77.5°	1673.3	1652.2	1805.7	2079.6	1402.4	1215.8	1561.9	12649.0	35379.9	35732.0
80°	1255.0	1194.8	1336.2	1610.1	1092.5	887.8	1059.4	7376.3	22363.7	20272.1
82.5°	785.5	755.4	872.8	1074.4	770.4	610.9	689.2	4074.9	8962.4	5278.7
85°	448.4	436.4	475.5	613.9	418.3	352.1	394.2	1799.7	1637.2	1125.6
87.5°	180.6	174.6	216.7	273.9	153.5	129.4	138.4	433.4	361.1	334.1
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°
11421.1	0°	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1	11421.1
11466.3	2.5°	11454.2	11454.2	11412.1	11345.9	11270.7	11222.5	11144.3	11123.2	11041.9	11017.9
11568.6	5°	11592.7	11568.6	11439.2	11252.6	10996.8	10762.0	10503.2	10340.7	10112.0	10030.7
11770.2	7.5°	11767.2	11701.0	11478.3	11069.0	10533.3	10006.7	9458.9	9043.6	8646.4	8504.9
11935.8	10°	11926.7	11833.4	11454.2	10738.0	9811.0	8899.2	8026.4	7415.5	6952.0	6762.4
12119.3	12.5°	12086.2	11914.7	11294.7	10187.2	8784.8	7547.9	6617.9	6142.4	5856.5	5627.8
12269.8	15°	12236.7	11995.9	11047.9	9449.9	7659.2	6404.3	5718.1	5338.9	5110.2	4959.7
12489.5	17.5°	12411.3	12065.2	10677.8	8513.9	6587.8	5612.8	5053.0	4824.3	4779.1	4761.1
12790.5	20°	12655.0	12128.4	10190.2	7466.6	5799.3	4980.8	4691.8	4670.8	4667.8	4658.7
13151.6	22.5°	12916.9	12203.6	9546.2	6515.6	5128.2	4586.5	4535.3	4493.2	4466.1	4463.1
13588.0	25°	13226.8	12227.7	8739.6	5736.1	4556.4	4399.9	4339.7	4276.5	4258.5	4258.5
14084.6	27.5°	13527.8	12146.4	7800.7	5059.0	4234.4	4228.4	4150.1	4129.1	4126.1	4135.1
14650.3	30°	13828.7	11992.9	6867.7	4433.0	4047.8	4047.8	4020.7	4035.8	4047.8	4077.9
15426.8	32.5°	14235.0	11830.4	6088.3	3969.6	3885.3	3855.2	3882.3	3912.4	3924.4	3963.5
16447.0	35°	14830.9	11716.1	5468.3	3716.8	3716.8	3677.6	3692.7	3686.7	3659.6	3641.5
17680.9	37.5°	15619.4	11710.0	4956.7	3599.4	3575.3	3569.3	3572.3	3533.2	3427.8	3301.4
19173.7	40°	16567.4	11872.6	4562.4	3518.1	3500.1	3536.2	3518.1	3412.8	3123.9	2904.2
21009.5	42.5°	17840.4	12336.0	4309.6	3418.8	3473.0	3518.1	3445.9	3081.7	2886.1	2738.7
23101.1	45°	19339.2	13088.4	4180.2	3313.5	3421.8	3476.0	3126.9	2967.4	2810.9	2633.3
25382.3	47.5°	21036.5	14036.4	4150.1	3214.2	3307.5	3340.6	2991.5	2919.2	2741.7	2549.1
27675.6	50°	22884.4	15159.0	4231.4	3096.8	3141.9	3027.6	2946.3	2880.1	2696.5	2506.9
30026.0	52.5°	24795.4	16395.9	4393.9	2937.3	2976.4	2850.0	2928.3	2871.1	2669.4	2413.6
32454.7	55°	26673.4	17641.8	4550.4	2750.7	2807.9	2690.5	2877.1	2835.0	2546.1	2257.1
35045.9	57.5°	28581.4	18881.7	4703.9	2585.2	2645.4	2537.0	2795.8	2738.7	2407.6	2112.7
37874.8	60°	30564.7	20085.5	4776.1	2425.7	2467.8	2395.6	2672.5	2573.1	2251.1	1965.2
40655.6	62.5°	32421.6	21087.7	4658.7	2266.2	2293.3	2263.2	2509.9	2377.5	2094.6	1799.7
43553.8	65°	34284.5	21683.6	4297.6	2109.7	2115.7	2100.6	2281.2	2166.9	1911.0	1655.2
46090.8	67.5°	35972.8	22017.7	3722.8	1941.1	1926.1	1920.1	2067.5	1938.1	1733.5	1510.8
48019.9	70°	36330.9	21169.0	2844.0	1742.5	1742.5	1727.5	1832.8	1700.4	1537.9	1357.3
46638.5	72.5°	33183.0	17807.3	2019.4	1516.8	1540.9	1510.8	1598.1	1486.7	1339.2	1218.9
40195.2	75°	26757.6	13058.3	1468.6	1285.1	1327.2	1276.0	1357.3	1279.0	1152.6	1149.6
27699.6	77.5°	18385.2	8074.5	1065.4	1059.4	1089.4	1023.2	1116.5	1074.4	960.0	908.9
12056.1	80°	7845.8	3220.2	776.5	818.6	818.6	758.4	866.7	878.8	779.5	755.4
2326.4	82.5°	1561.9	914.9	544.7	562.8	529.7	511.6	613.9	680.2	939.0	1044.3
701.2	85°	469.5	337.1	328.0	307.0	270.9	273.9	361.1	683.2	842.7	481.5
231.7	87.5°	129.4	84.3	87.3	69.2	57.2	75.2	123.4	517.6	282.9	120.4
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°
11421.1
11057.0
10090.9
8523.0
6804.5
5703.0
4986.8
4773.1
4688.8
4496.2
4276.5
4159.2
4099.0
3996.6
3683.7
3304.5
2898.2
2732.6
2621.3
2534.0
2485.9
2395.6
2242.1
2106.7
1956.2
1796.7
1637.2
1492.7
1351.3
1182.7
1035.3
851.7
755.4
1047.3
415.3
102.3
0.0

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