

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: P954025

Luminaire Tested: **GALN-SB7B-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25024 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

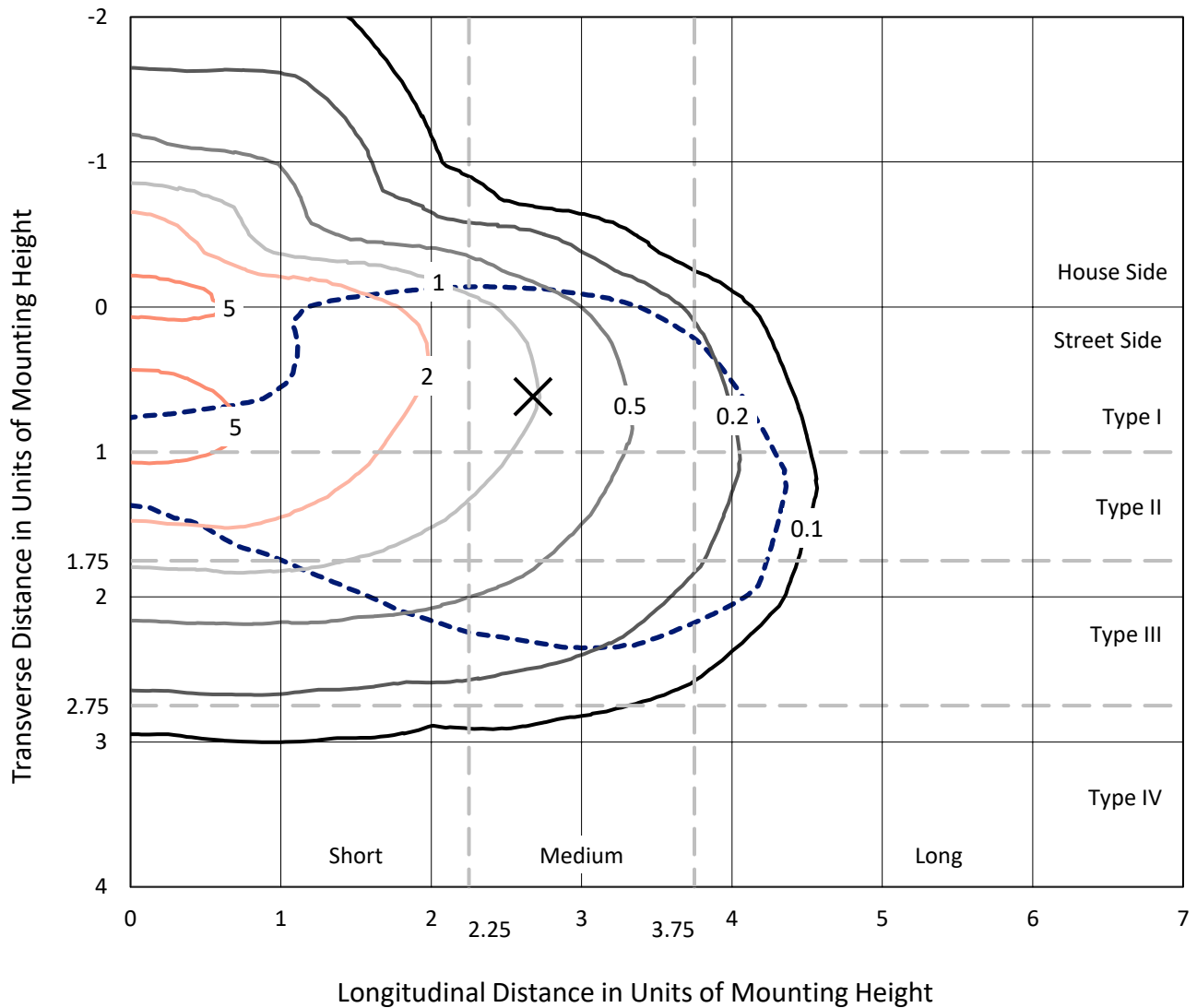
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

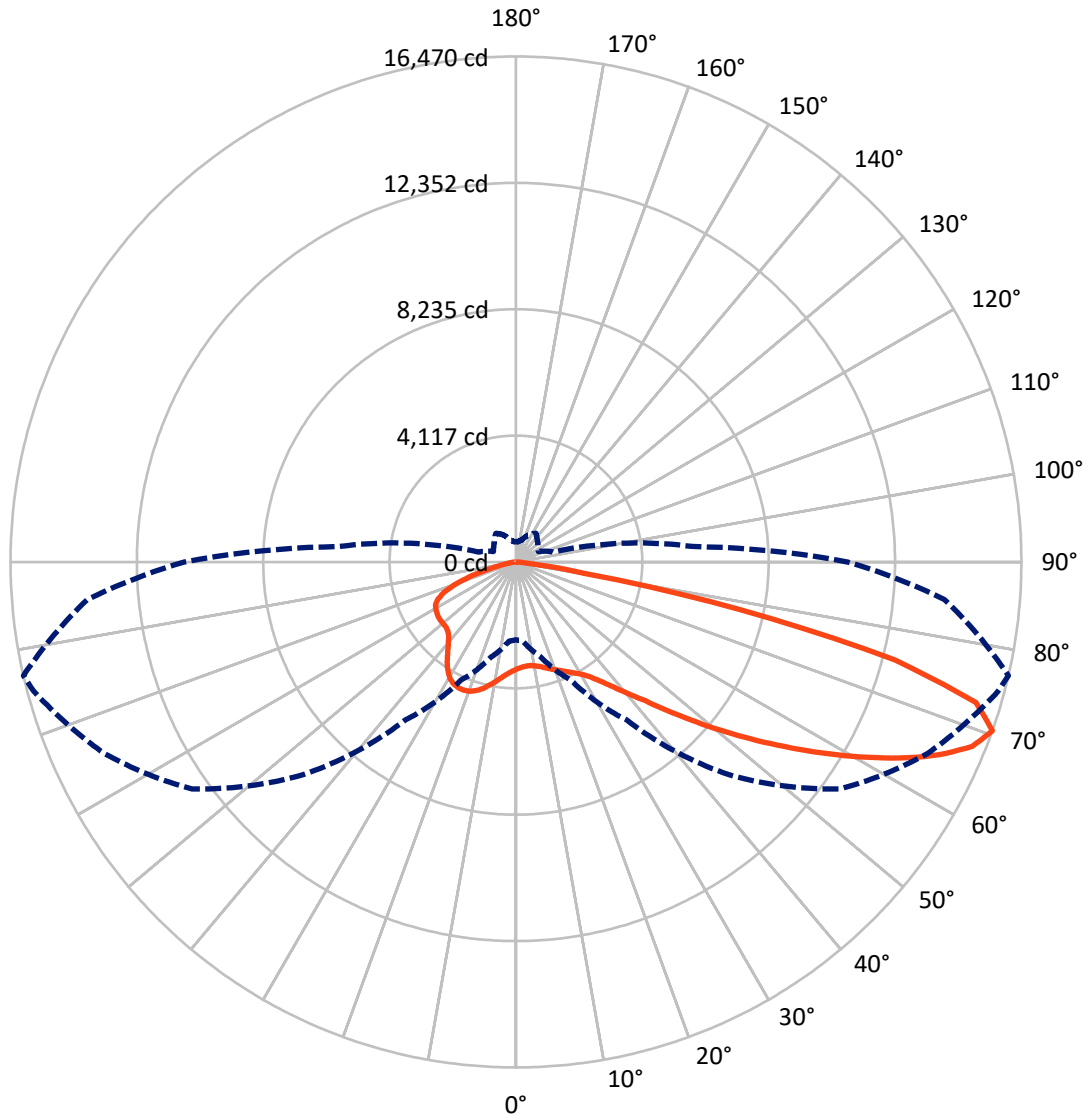
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5479.9	0.0	5479.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	19544.1	0.0	19544.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	25024.0	0.0	25024.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.0	1.3
10°-20°	960.9	3.8
20°-30°	1643.3	6.6
30°-40°	2642.7	10.6
40°-50°	4125.9	16.5
50°-60°	5511.2	22.0
60°-70°	5874.1	23.5
70°-80°	3616.1	14.5
80°-90°	316.9	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°	25024.0	100.0
0°-180°	25024.0	100.0



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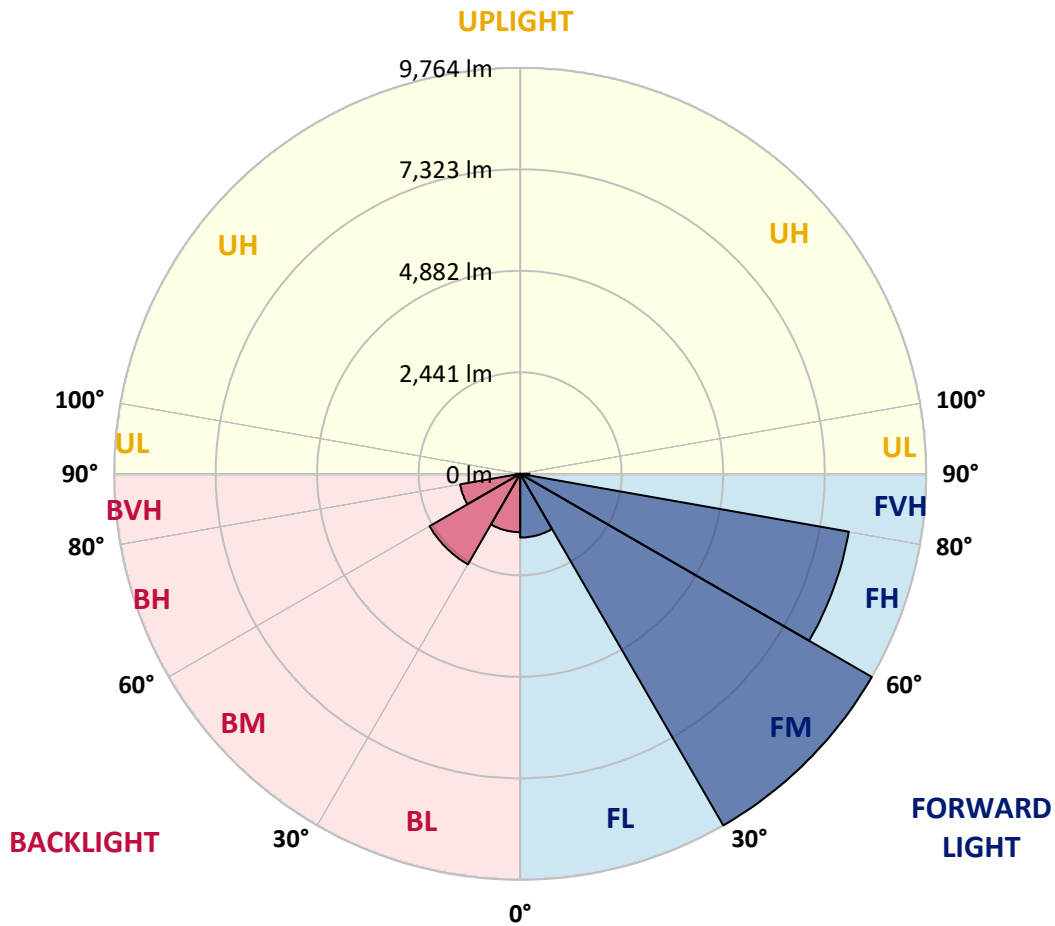
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.1	6.1			
FM (30°-60°)	9763.8	39.0			
FH (60°-80°)	8025.6	32.1			G4/12000
FVH (80°-90°)	221.6	0.9			G2/225
BL (0°-30°)	1404.1	5.6	B3/2500		
BM (30°-60°)	2515.9	10.1	B3/5000		
BH (60°-80°)	1464.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	95.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1
2.5°	3218.1	3216.8	3233.5	3238.6	3269.4	3291.1	3332.2	3375.7	3432.1	3438.5
5°	3032.3	3032.3	3051.5	3072.0	3111.7	3155.3	3218.1	3293.7	3391.1	3406.5
7.5°	2874.6	2884.9	2901.5	2941.3	2987.4	3050.2	3146.3	3254.0	3382.1	3406.5
10°	2747.7	2759.3	2779.8	2811.8	2881.0	2968.2	3093.8	3232.2	3403.9	3442.4
12.5°	2708.0	2719.6	2731.1	2755.4	2819.5	2922.0	3072.0	3242.4	3456.5	3494.9
15°	2800.3	2814.4	2805.4	2799.0	2832.3	2925.9	3082.2	3279.6	3521.8	3576.9
17.5°	3013.0	3018.2	2997.7	2937.4	2932.3	2982.3	3130.9	3330.9	3603.9	3664.1
20°	3356.5	3347.5	3305.2	3186.1	3118.1	3107.9	3214.3	3407.8	3688.4	3752.5
22.5°	3823.0	3812.8	3728.2	3539.8	3388.5	3288.6	3334.7	3507.7	3783.3	3855.1
25°	4404.9	4390.8	4266.4	4010.1	3775.6	3528.2	3498.8	3639.7	3899.9	3966.5
27.5°	5084.1	5072.6	4938.0	4599.7	4261.3	3856.3	3702.5	3794.8	4021.7	4097.3
30°	5814.6	5847.9	5609.6	5245.6	4817.5	4284.4	3976.8	3985.8	4179.3	4247.2
32.5°	6673.3	6731.0	6443.9	5982.5	5398.1	4749.6	4322.8	4252.3	4408.7	4465.1
35°	7524.3	7589.6	7351.3	6841.2	6168.3	5298.1	4684.2	4558.6	4713.7	4775.2
37.5°	8259.9	8347.1	8224.0	7780.6	6992.4	5959.4	5155.9	4918.8	5089.2	5166.1
40°	8840.5	8973.8	8964.8	8688.0	7963.9	6761.7	5754.4	5363.5	5555.7	5639.0
42.5°	9312.1	9427.4	9527.4	9513.3	8977.6	7672.9	6458.0	5941.5	6087.6	6183.7
45°	9637.6	9760.7	9976.0	10207.9	9952.9	8648.2	7264.1	6627.1	6760.4	6905.3
47.5°	9928.5	10068.2	10347.6	10715.5	10780.8	9627.4	8147.1	7425.6	7547.3	7697.3
50°	9954.2	10074.7	10507.8	11029.4	11369.1	10568.1	9095.5	8321.4	8435.5	8595.7
52.5°	9335.2	9524.8	10281.0	11020.5	11639.5	11355.0	10037.5	9253.1	9381.3	9573.5
55°	7246.2	7524.3	9615.8	10677.0	11543.4	11863.8	10933.3	10243.8	10407.9	10609.1
57.5°	6241.4	6363.1	7633.2	10051.6	11105.1	11995.8	11689.5	11244.8	11508.8	11729.2
60°	5609.6	5710.8	6461.8	9078.8	10528.3	11786.9	12273.9	12177.8	12634.0	12896.7
62.5°	4932.9	5029.0	5712.1	7580.7	9790.1	11439.6	12643.0	13039.0	13787.4	14074.5
65°	4261.3	4343.3	4998.2	6369.5	8852.0	11092.2	12833.9	13783.6	14855.0	15152.3
67.5°	3512.9	3580.8	4199.8	5373.7	7711.4	10616.8	12928.8	14369.3	15784.2	16039.2
70°	2535.0	2587.5	3227.1	4249.8	6279.8	9799.1	12890.3	14784.5	16266.1	16469.8
72.5°	1198.3	1245.7	1996.7	2759.3	4435.6	8207.4	12112.4	14455.2	15776.5	15675.2
75°	639.5	680.5	1147.0	1513.6	2342.8	5626.2	9911.9	12452.0	13247.9	12755.8
77.5°	433.2	465.2	710.0	908.7	1070.1	2670.9	6370.8	8621.3	8294.5	7482.0
80°	343.5	376.8	581.8	615.2	517.8	965.0	2632.4	3990.9	2866.9	2292.8
82.5°	264.0	301.2	489.6	446.0	282.0	396.0	766.4	1262.4	734.4	558.8
85°	161.5	201.2	384.5	284.5	158.9	180.7	260.2	351.2	224.3	187.1
87.5°	82.0	115.3	194.8	103.8	71.8	42.3	69.2	69.2	59.0	51.3
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°
3491.1	0°	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1	3491.1
3473.1	2.5°	3503.9	3529.5	3573.1	3614.1	3646.1	3676.9	3707.7	3724.3	3729.5	3750.0
3492.4	5°	3544.9	3592.3	3676.9	3756.4	3806.3	3837.1	3858.9	3871.7	3874.3	3880.7
3544.9	7.5°	3620.5	3696.1	3814.0	3893.5	3930.7	3928.1	3919.1	3887.1	3874.3	3862.7
3621.8	10°	3726.9	3826.9	3971.7	4026.8	4003.7	3942.2	3862.7	3769.2	3725.6	3683.3
3726.9	12.5°	3858.9	3985.8	4128.0	4125.5	4011.4	3853.8	3669.2	3525.7	3434.7	3369.3
3856.3	15°	4019.1	4165.2	4274.1	4187.0	3937.1	3653.8	3383.4	3196.3	3114.3	3042.5
3987.1	17.5°	4184.4	4340.8	4390.8	4167.8	3750.0	3357.8	3051.5	2904.1	2823.4	2784.9
4128.0	20°	4345.9	4501.0	4460.0	4057.5	3465.4	3022.0	2749.0	2668.3	2651.6	2660.6
4265.2	22.5°	4516.4	4654.8	4474.1	3844.8	3102.8	2678.5	2528.6	2531.2	2568.3	2595.2
4408.7	25°	4690.7	4784.2	4436.9	3537.2	2713.1	2426.1	2388.9	2429.9	2503.0	2555.5
4570.2	27.5°	4858.5	4899.6	4356.2	3156.6	2378.6	2245.4	2251.8	2336.4	2446.6	2519.6
4766.3	30°	5048.2	5002.1	4201.1	2728.5	2146.7	2090.3	2144.1	2242.8	2353.0	2418.4
5013.6	32.5°	5262.2	5090.5	3955.0	2332.5	1982.6	1966.0	2054.4	2118.5	2167.2	2186.4
5341.7	35°	5528.8	5214.8	3639.7	2054.4	1835.3	1875.0	1959.6	1927.5	1908.3	1898.0
5782.6	37.5°	5874.9	5382.7	3270.6	1873.7	1716.1	1809.6	1844.2	1744.3	1668.6	1631.5
6317.0	40°	6291.4	5628.8	2915.6	1734.0	1640.4	1753.2	1693.0	1572.5	1476.4	1423.9
6918.1	42.5°	6754.0	5886.4	2617.0	1628.9	1598.2	1707.1	1581.5	1438.0	1282.9	1266.2
7634.5	45°	7239.8	6151.7	2413.3	1548.2	1577.6	1667.4	1517.4	1285.4	1175.2	1243.2
8353.5	47.5°	7725.5	6395.2	2290.2	1487.9	1567.4	1622.5	1461.0	1200.9	1122.7	1221.4
9123.7	50°	8266.3	6613.1	2235.1	1444.4	1555.9	1604.6	1376.4	1179.1	1067.6	1132.9
9920.9	52.5°	8803.3	6782.2	2194.1	1400.8	1539.2	1590.5	1335.4	1153.4	1000.9	1004.8
10723.1	55°	9339.0	6892.4	2149.2	1343.1	1502.0	1559.7	1331.6	1125.2	950.9	933.0
11571.6	57.5°	9910.6	6955.2	2094.1	1279.0	1438.0	1481.5	1327.7	1103.5	935.6	906.1
12439.2	60°	10492.5	7047.5	2022.4	1200.9	1352.1	1388.0	1318.8	1095.8	926.6	876.6
13256.9	62.5°	11014.1	7079.6	1936.5	1126.5	1241.9	1295.7	1299.5	1089.4	902.2	816.4
13936.1	65°	11356.3	6941.1	1786.5	1041.9	1122.7	1200.9	1262.4	1067.6	858.7	772.8
14271.9	67.5°	11342.2	6546.4	1552.0	933.0	1007.3	1095.8	1208.5	1030.4	806.1	719.0
14018.1	70°	10814.1	5767.2	1254.7	806.1	880.5	983.0	1139.3	975.3	743.3	660.0
12464.8	72.5°	9274.9	4513.8	911.2	657.5	733.1	866.4	1049.6	908.7	679.2	607.5
9212.1	75°	6625.9	2856.7	617.7	505.0	570.3	734.4	938.1	830.5	620.3	610.0
4613.8	77.5°	3384.7	1364.9	408.8	369.1	397.3	579.3	788.2	742.0	629.3	503.7
1312.4	80°	1100.9	503.7	257.6	251.2	264.0	385.8	610.0	608.8	476.8	342.2
317.8	82.5°	351.2	216.6	167.9	161.5	155.1	242.2	425.5	481.9	321.7	216.6
114.1	85°	139.7	129.4	98.7	91.0	65.4	114.1	223.0	320.4	239.7	156.4
29.5	87.5°	51.3	51.3	26.9	19.2	14.1	38.4	60.2	96.1	137.1	80.7
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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<u>180°</u>
3491.1
3761.5
3890.9
3865.3
3670.5
3353.9
3034.8
2796.4
2656.8
2601.6
2569.6
2537.6
2433.8
2196.7
1908.3
1640.4
1427.7
1282.9
1279.0
1267.5
1181.6
1031.7
945.8
909.9
880.5
816.4
772.8
722.8
667.7
603.6
575.4
448.6
302.5
215.3
160.2
79.5
0.0

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