

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: P956524

Luminaire Tested: **GALN-SB9A-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956524
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-SB9A-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25532 lumens
Efficiency: N/A
Efficacy: 99.9 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

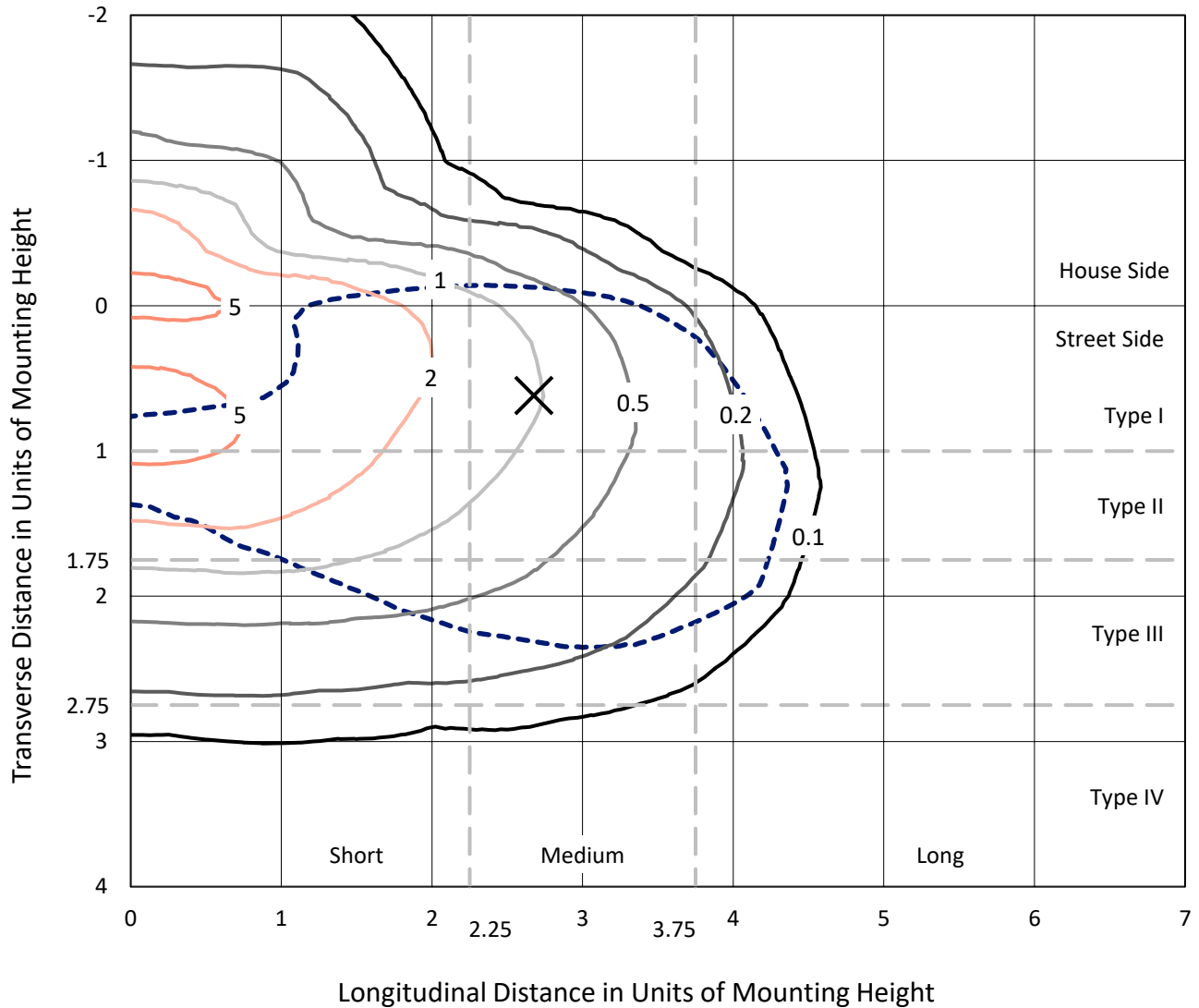
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

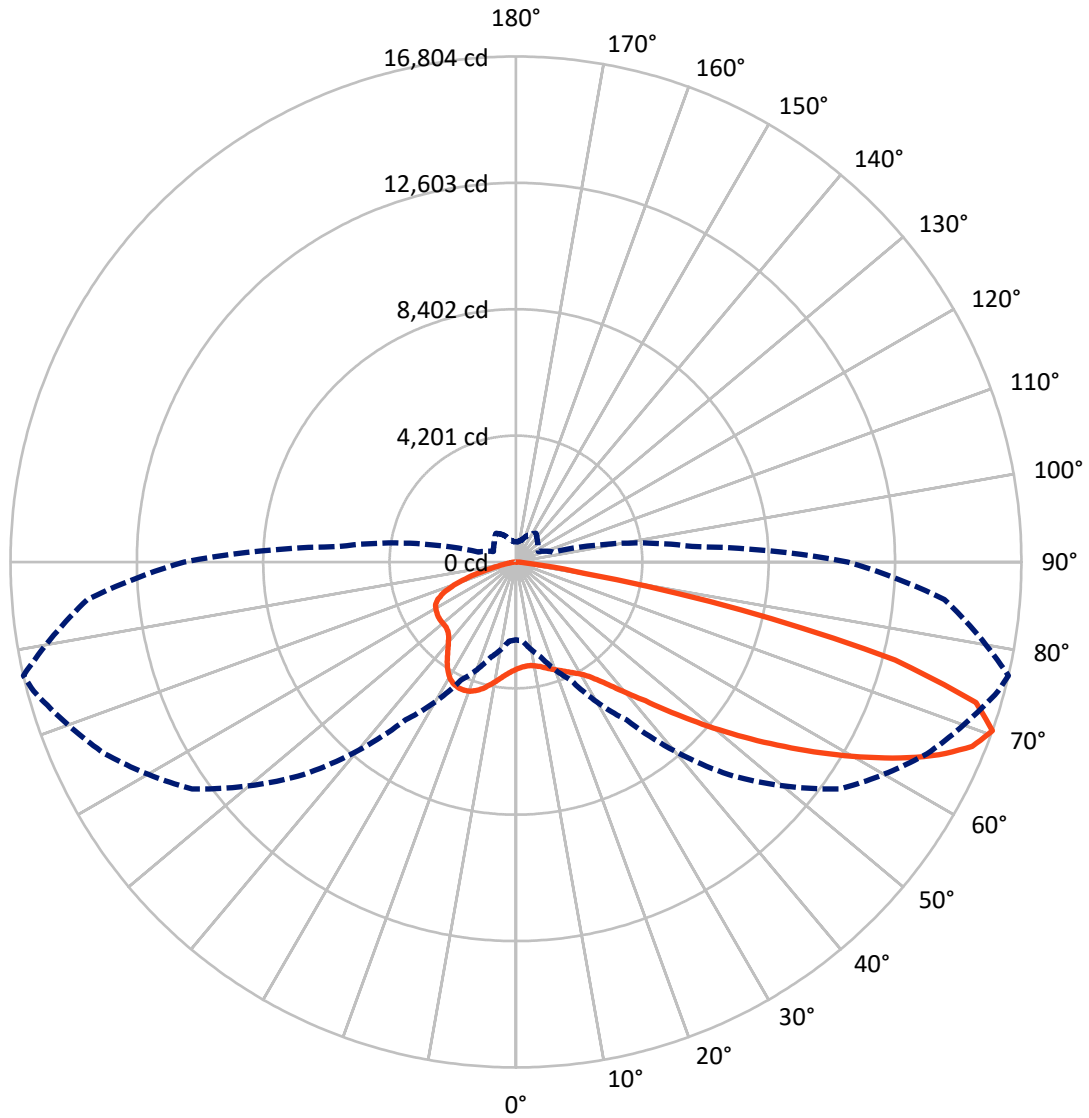
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	5591.1	0.0	5591.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	19940.9	0.0	19940.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	25532.0	0.0	25532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	1.3
10°-20°	980.4	3.8
20°-30°	1676.7	6.6
30°-40°	2696.3	10.6
40°-50°	4209.6	16.5
50°-60°	5623.1	22.0
60°-70°	5993.3	23.5
70°-80°	3689.5	14.5
80°-90°	323.3	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°	25532.0	100.0
0°-180°	25532.0	100.0



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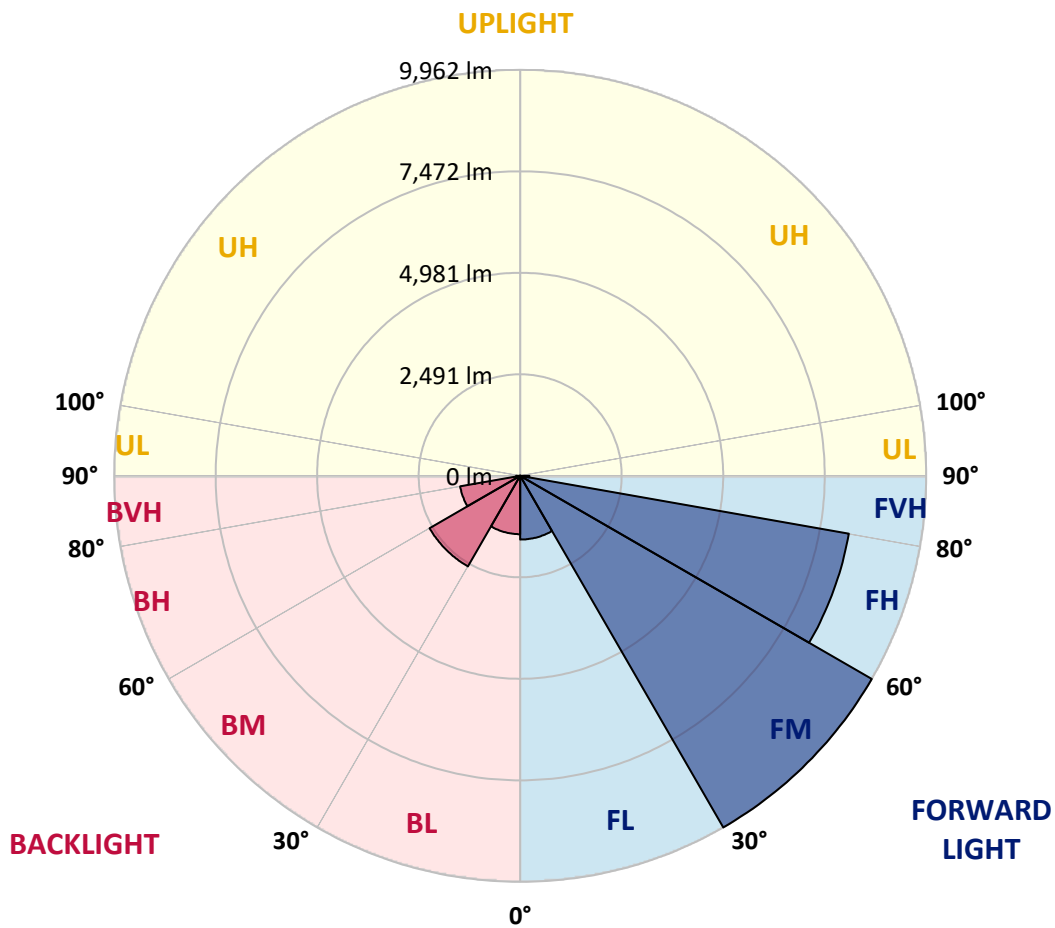
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.2	6.1			
FM (30°-60°)	9962.0	39.0			
FH (60°-80°)	8188.5	32.1			G4/12000
FVH (80°-90°)	226.1	0.9			G3/500
BL (0°-30°)	1432.6	5.6	B3/2500		
BM (30°-60°)	2567.0	10.1	B3/5000		
BH (60°-80°)	1494.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	97.2	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°	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9
2.5°	3283.4	3282.1	3299.1	3304.3	3335.7	3358.0	3399.8	3444.3	3501.8	3508.3
5°	3093.8	3093.8	3113.4	3134.4	3174.9	3219.4	3283.4	3360.6	3460.0	3475.6
7.5°	2933.0	2943.4	2960.4	3001.0	3048.1	3112.1	3210.2	3320.0	3450.8	3475.6
10°	2803.5	2815.3	2836.2	2868.9	2939.5	3028.4	3156.6	3297.8	3473.0	3512.3
12.5°	2763.0	2774.8	2786.5	2811.4	2876.8	2981.4	3134.4	3308.3	3526.6	3565.9
15°	2857.1	2871.5	2862.4	2855.8	2889.8	2985.3	3144.8	3346.2	3593.3	3649.6
17.5°	3074.2	3079.4	3058.5	2997.1	2991.8	3042.8	3194.5	3398.5	3677.0	3738.5
20°	3424.6	3415.5	3372.3	3250.7	3181.4	3171.0	3279.5	3477.0	3763.3	3828.7
22.5°	3900.6	3890.2	3803.9	3611.6	3457.3	3355.3	3402.4	3578.9	3860.1	3933.3
25°	4494.3	4479.9	4353.1	4091.5	3852.2	3599.9	3569.8	3713.6	3979.1	4047.1
27.5°	5187.3	5175.5	5038.2	4693.0	4347.8	3934.6	3777.7	3871.9	4103.3	4180.4
30°	5932.7	5966.7	5723.4	5352.1	4915.3	4371.4	4057.5	4066.7	4264.1	4333.4
32.5°	6808.8	6867.6	6574.7	6104.0	5507.7	4846.0	4410.6	4338.7	4498.2	4555.7
35°	7677.0	7743.7	7500.5	6980.1	6293.6	5405.7	4779.3	4651.2	4809.4	4872.2
37.5°	8427.6	8516.5	8391.0	7938.5	7134.4	6080.4	5260.5	5018.6	5192.5	5271.0
40°	9019.9	9155.9	9146.8	8864.3	8125.5	6899.0	5871.2	5472.4	5668.5	5753.5
42.5°	9501.1	9618.8	9720.8	9706.4	9159.9	7828.7	6589.1	6062.1	6211.2	6309.2
45°	9833.3	9958.8	10178.5	10415.2	10154.9	8823.8	7411.6	6761.7	6897.7	7045.4
47.5°	10130.1	10272.6	10557.7	10933.0	10999.7	9822.8	8312.5	7576.3	7700.6	7853.5
50°	10156.3	10279.2	10721.1	11253.3	11599.9	10782.6	9280.2	8490.4	8606.7	8770.2
52.5°	9524.7	9718.2	10489.7	11244.2	11875.8	11585.5	10241.3	9441.0	9571.8	9767.9
55°	7393.3	7677.0	9811.0	10893.8	11777.7	12104.6	11155.3	10451.8	10619.2	10824.4
57.5°	6368.1	6492.3	7788.2	10255.6	11330.5	12239.3	11926.8	11473.0	11742.4	11967.3
60°	5723.4	5826.7	6593.0	9263.2	10742.1	12026.1	12523.0	12425.0	12890.5	13158.5
62.5°	5033.0	5131.1	5828.0	7734.6	9988.9	11671.8	12899.6	13303.7	14067.3	14360.2
65°	4347.8	4431.5	5099.7	6498.9	9031.7	11317.4	13094.5	14063.4	15156.6	15459.9
67.5°	3584.2	3653.5	4285.1	5482.8	7867.9	10832.3	13191.2	14661.0	16104.6	16364.8
70°	2586.5	2640.1	3292.6	4336.1	6407.3	9998.0	13152.0	15084.7	16596.3	16804.2
72.5°	1222.6	1271.0	2037.3	2815.3	4525.7	8374.0	12358.3	14748.6	16096.8	15993.5
75°	652.5	694.3	1170.3	1544.3	2390.3	5740.4	10113.1	12704.8	13516.8	13014.7
77.5°	442.0	474.7	724.4	927.1	1091.9	2725.1	6500.2	8796.3	8462.9	7633.9
80°	350.4	384.4	593.7	627.7	528.3	984.6	2685.8	4071.9	2925.1	2339.3
82.5°	269.4	307.3	499.5	455.1	287.7	404.1	782.0	1288.0	749.3	570.1
85°	164.8	205.3	392.3	290.3	162.1	184.4	265.4	358.3	228.8	190.9
87.5°	83.7	117.7	198.8	105.9	73.2	43.2	70.6	70.6	60.2	52.3
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°
3561.9	0°	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9	3561.9
3543.6	2.5°	3575.0	3601.2	3645.6	3687.5	3720.2	3751.6	3782.9	3799.9	3805.2	3826.1
3563.3	5°	3616.9	3665.2	3751.6	3832.6	3883.6	3915.0	3937.2	3950.3	3952.9	3959.5
3616.9	7.5°	3694.0	3771.2	3891.5	3972.5	4010.5	4007.8	3998.7	3966.0	3952.9	3941.2
3695.3	10°	3802.5	3904.5	4052.3	4108.5	4085.0	4022.2	3941.2	3845.7	3801.2	3758.1
3802.5	12.5°	3937.2	4066.7	4211.8	4209.2	4092.8	3932.0	3743.7	3597.3	3504.4	3437.7
3934.6	15°	4100.7	4249.8	4360.9	4272.0	4017.0	3728.0	3452.1	3261.2	3177.5	3104.3
4068.0	17.5°	4269.4	4428.9	4479.9	4252.4	3826.1	3426.0	3113.4	2963.1	2880.7	2841.5
4211.8	20°	4434.1	4592.3	4550.5	4139.9	3535.8	3083.4	2804.8	2722.5	2705.5	2714.6
4351.7	22.5°	4608.0	4749.3	4564.9	3922.8	3165.7	2732.9	2579.9	2582.5	2620.5	2647.9
4498.2	25°	4785.9	4881.3	4527.0	3609.0	2768.2	2475.3	2437.4	2479.2	2553.8	2607.4
4663.0	27.5°	4957.2	4999.0	4444.6	3220.7	2426.9	2290.9	2297.5	2383.8	2496.2	2570.8
4863.0	30°	5150.7	5103.6	4286.4	2783.9	2190.3	2132.7	2187.6	2288.3	2400.8	2467.5
5115.4	32.5°	5369.1	5193.9	4035.3	2379.9	2022.9	2005.9	2096.1	2161.5	2211.2	2230.8
5450.1	35°	5641.1	5320.7	3713.6	2096.1	1872.5	1913.0	1999.3	1966.7	1947.0	1936.6
5900.0	37.5°	5994.1	5492.0	3337.0	1911.7	1750.9	1846.4	1881.7	1779.7	1702.5	1664.6
6445.2	40°	6419.1	5743.1	2974.8	1769.2	1673.7	1788.8	1727.4	1604.4	1506.4	1452.8
7058.5	42.5°	6891.1	6005.9	2670.2	1662.0	1630.6	1741.7	1613.6	1467.1	1308.9	1291.9
7789.5	45°	7386.7	6276.6	2462.2	1579.6	1609.7	1701.2	1548.2	1311.5	1199.1	1268.4
8523.0	47.5°	7882.3	6525.0	2336.7	1518.1	1599.2	1655.4	1490.7	1225.2	1145.5	1246.2
9308.9	50°	8434.1	6747.3	2280.5	1473.7	1587.4	1637.1	1404.4	1203.0	1089.2	1155.9
10122.3	52.5°	8982.0	6919.9	2238.6	1429.2	1570.4	1622.8	1362.5	1176.9	1021.2	1025.2
10940.8	55°	9528.6	7032.4	2192.9	1370.4	1532.5	1591.4	1358.6	1148.1	970.3	951.9
11806.5	57.5°	10111.8	7096.4	2136.6	1305.0	1467.1	1511.6	1354.7	1125.9	954.6	924.5
12691.7	60°	10705.5	7190.6	2063.4	1225.2	1379.5	1416.1	1345.5	1118.0	945.4	894.4
13526.0	62.5°	11237.7	7223.3	1975.8	1149.4	1267.1	1322.0	1325.9	1111.5	920.6	833.0
14219.0	65°	11586.8	7082.1	1822.8	1063.1	1145.5	1225.2	1288.0	1089.2	876.1	788.5
14561.6	67.5°	11572.4	6679.3	1583.5	951.9	1027.8	1118.0	1233.1	1051.3	822.5	733.6
14302.7	70°	11033.7	5884.3	1280.2	822.5	898.3	1002.9	1162.5	995.1	758.4	673.4
12717.9	72.5°	9463.2	4605.4	929.7	670.8	748.0	883.9	1070.9	927.1	693.0	619.8
9399.1	75°	6760.4	2914.7	630.3	515.2	581.9	749.3	957.2	847.3	632.9	622.4
4707.4	77.5°	3453.4	1392.6	417.1	376.6	405.4	591.0	804.2	757.1	642.0	513.9
1339.0	80°	1123.2	513.9	262.8	256.3	269.4	393.6	622.4	621.1	486.4	349.1
324.3	82.5°	358.3	221.0	171.3	164.8	158.2	247.1	434.1	491.7	328.2	221.0
116.4	85°	142.5	132.1	100.7	92.8	66.7	116.4	227.5	326.9	244.5	159.5
30.1	87.5°	52.3	52.3	27.5	19.6	14.4	39.2	61.5	98.1	139.9	82.4
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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<u>180°</u>
3561.9
3837.9
3969.9
3943.8
3745.0
3422.0
3096.4
2853.2
2710.7
2654.5
2621.8
2589.1
2483.2
2241.3
1947.0
1673.7
1456.7
1308.9
1305.0
1293.2
1205.6
1052.6
965.0
928.4
898.3
833.0
788.5
737.5
681.3
615.9
587.1
457.7
308.6
219.7
163.5
81.1
0.0

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