

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: P944305

Luminaire Tested: **GALN-SB9A-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29336 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

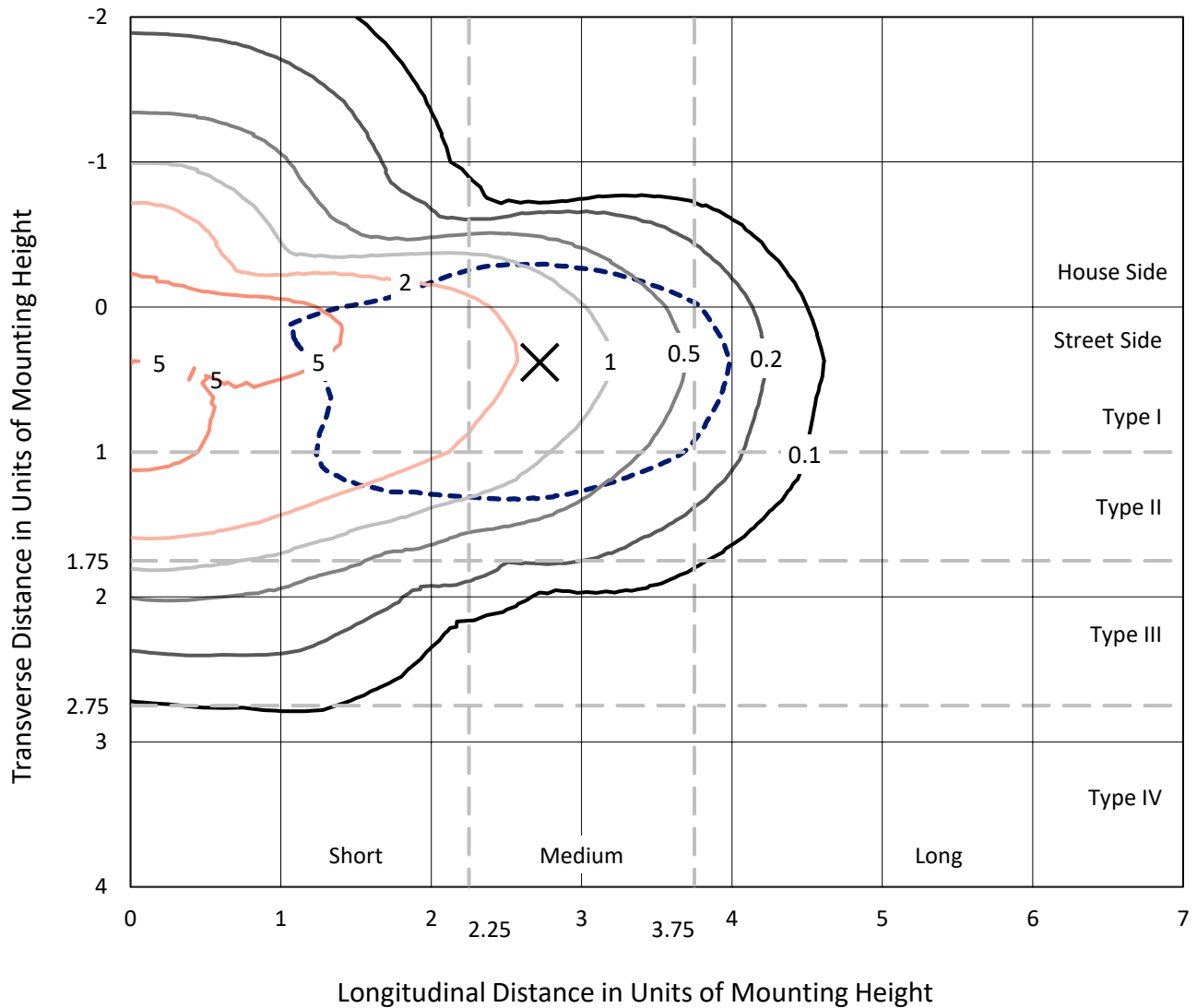
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

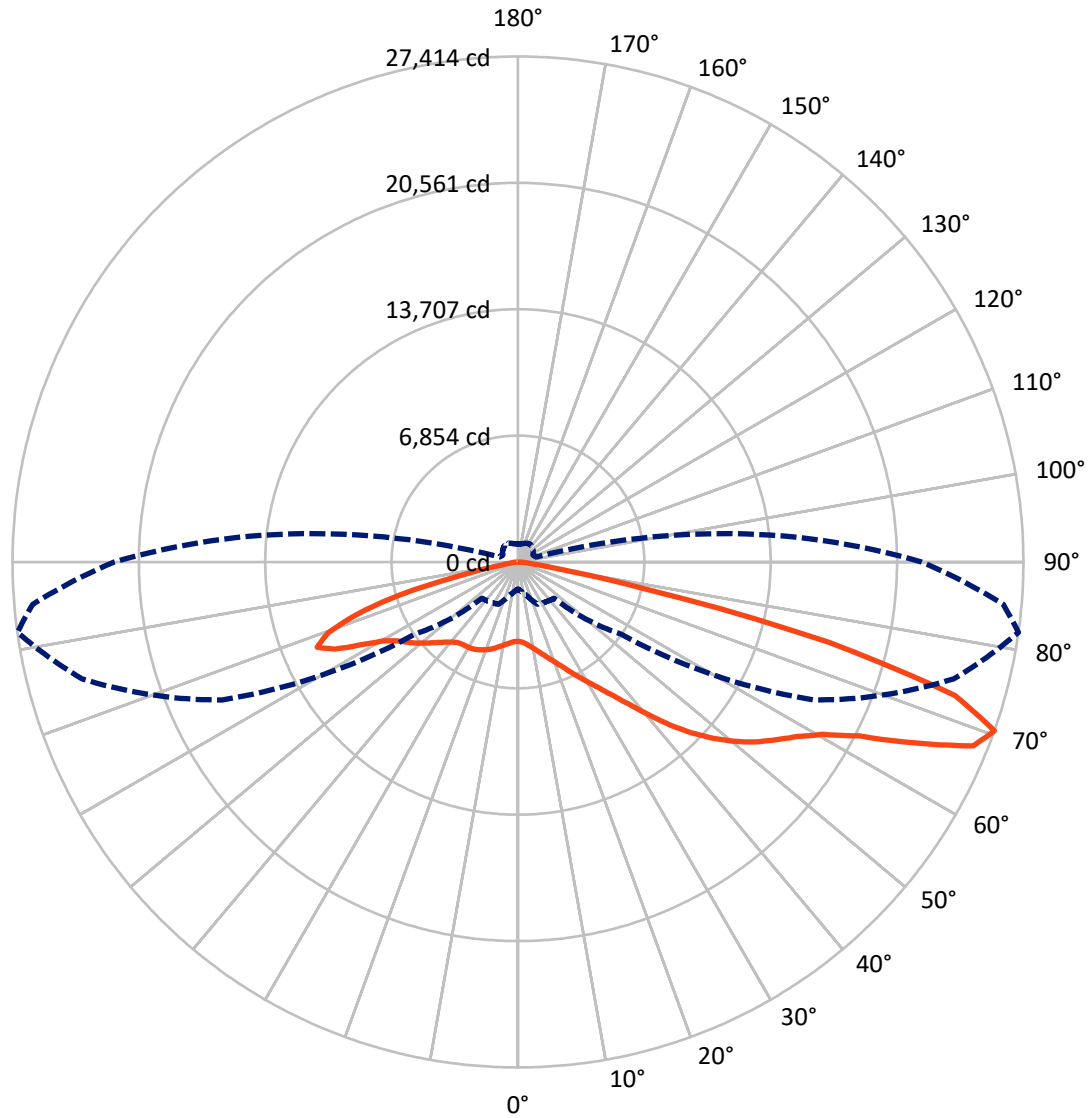
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7232.0	0.0	7232.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22104.0	0.0	22104.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	29336.0	0.0	29336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.1	1.4
10°-20°	1166.7	4.0
20°-30°	1951.8	6.7
30°-40°	3049.2	10.4
40°-50°	4856.3	16.6
50°-60°	6758.1	23.0
60°-70°	7069.3	24.1
70°-80°	3694.8	12.6
80°-90°	383.7	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°	29336.0	100.0
0°-180°	29336.0	100.0

Coefficient of Utilization



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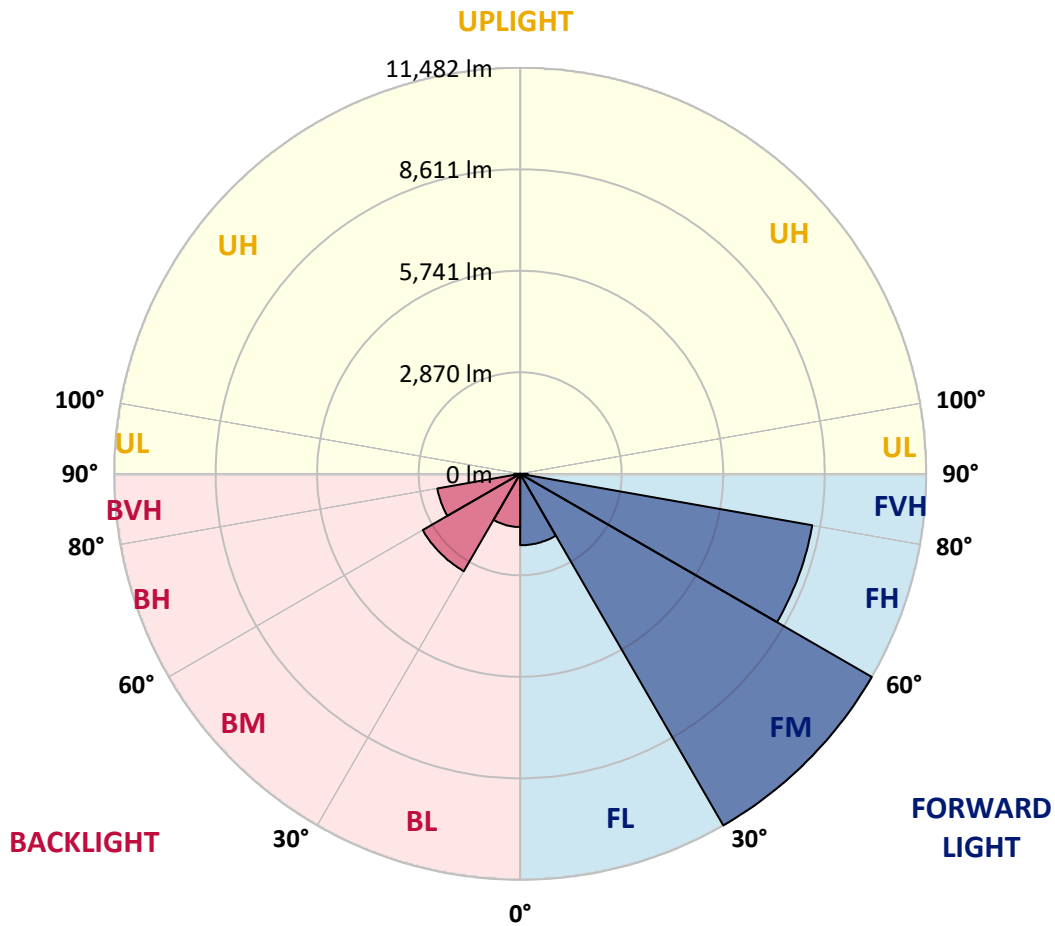
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.1	6.9			
FM (30°-60°)	11481.8	39.1			
FH (60°-80°)	8387.3	28.6			G4/12000
FVH (80°-90°)	214.8	0.7			G2/225
BL (0°-30°)	1504.5	5.1	B3/2500		
BM (30°-60°)	3181.8	10.8	B3/5000		
BH (60°-80°)	2376.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	168.9	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0
2.5°	4403.8	4428.7	4420.9	4413.1	4413.1	4402.2	4400.7	4385.1	4372.6	4352.4
5°	4459.8	4486.3	4483.2	4489.4	4509.6	4514.3	4519.0	4509.6	4484.7	4459.8
7.5°	4410.0	4439.6	4448.9	4486.3	4548.5	4604.6	4646.6	4663.7	4640.4	4604.6
10°	4241.9	4274.6	4307.3	4396.0	4506.5	4638.8	4750.9	4817.8	4813.2	4778.9
12.5°	3901.0	3935.2	4005.3	4178.0	4380.4	4613.9	4822.5	4962.6	5010.9	4986.0
15°	3628.6	3658.1	3711.1	3888.5	4151.6	4506.5	4849.0	5121.4	5244.4	5230.3
17.5°	3620.8	3633.2	3665.9	3750.0	3952.3	4338.4	4820.9	5277.0	5512.1	5510.5
20°	3757.8	3762.4	3781.1	3798.2	3913.4	4210.7	4749.3	5406.2	5812.5	5812.5
22.5°	3947.7	3944.6	3963.2	3947.7	4003.7	4199.8	4704.2	5519.9	6147.2	6172.1
25°	4232.5	4217.0	4212.3	4176.5	4187.4	4301.0	4754.0	5649.1	6544.2	6595.5
27.5°	4612.4	4587.4	4570.3	4487.8	4459.8	4509.6	4906.6	5804.7	6986.2	7075.0
30°	5107.4	5062.2	5037.3	4894.1	4792.9	4800.7	5136.9	6011.8	7448.6	7591.8
32.5°	5783.0	5712.9	5646.0	5410.9	5225.7	5165.0	5434.3	6298.2	7949.8	8178.6
35°	6539.5	6483.4	6411.8	6049.1	5764.3	5624.2	5835.9	6698.3	8536.7	8899.4
37.5°	7268.0	7219.7	7254.0	6765.2	6397.8	6193.9	6362.0	7235.3	9260.5	9796.0
40°	8021.4	7984.1	7988.7	7521.7	7093.7	6864.8	7000.3	7909.3	10090.2	10862.3
42.5°	8840.2	8812.2	8718.8	8304.7	7823.7	7610.5	7735.0	8687.7	10980.6	12076.5
45°	9757.1	9740.0	9652.8	9178.0	8627.0	8387.2	8555.3	9546.9	11875.7	13219.1
47.5°	10549.4	10563.4	10552.5	10152.5	9581.2	9229.4	9430.2	10443.6	12708.5	14293.2
50°	10930.8	11004.0	11111.4	10986.8	10631.9	10273.9	10312.8	11309.1	13502.4	15300.3
52.5°	10731.5	10870.1	11162.7	11362.0	11499.0	11424.3	11320.0	12168.3	14249.6	16209.4
55°	9989.0	10183.6	10669.3	11150.3	11849.2	12392.5	12529.5	13121.0	14978.1	17009.5
57.5°	8636.3	8952.3	9388.2	10361.1	11537.9	12861.0	13939.8	14442.6	15750.2	17864.1
60°	6316.9	6740.3	7282.0	8729.7	10448.2	12610.4	15140.0	16472.5	16847.6	18970.9
62.5°	4042.6	4304.1	4802.3	6165.9	8141.3	11326.2	15507.3	19009.8	18707.8	20785.9
65°	2767.7	2935.8	3391.9	4157.8	5263.0	8430.8	14523.5	20912.0	21662.3	23662.6
67.5°	2011.2	2138.8	2528.0	3198.9	3429.3	4989.1	11270.1	20824.9	24534.4	26626.5
70°	1466.4	1556.7	1883.5	2528.0	2638.5	2775.5	6827.5	17702.2	24472.1	27414.2
72.5°	1086.5	1148.8	1368.3	1961.4	2135.7	1874.2	3379.5	12865.7	21028.8	24795.9
75°	786.1	832.8	994.7	1500.6	1709.2	1427.4	1685.9	7518.6	14668.3	17442.3
77.5°	600.9	636.7	742.5	1099.0	1368.3	1071.0	1046.1	3458.9	6955.1	6989.4
80°	482.6	505.9	563.5	773.7	1049.2	801.7	681.8	1396.3	2198.0	1860.2
82.5°	354.9	393.8	476.3	543.3	750.3	552.6	415.6	705.2	835.9	719.2
85°	202.4	228.8	288.0	389.2	479.4	337.8	238.2	312.9	389.2	319.1
87.5°	71.6	93.4	101.2	152.6	208.6	140.1	91.8	90.3	127.6	95.0
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°
4301.0	0°	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0	4301.0
4347.7	2.5°	4332.2	4324.4	4293.2	4251.2	4207.6	4165.6	4151.6	4122.0	4101.8	4090.9
4448.9	5°	4419.3	4394.4	4321.3	4227.9	4129.8	4023.9	3949.2	3880.7	3830.9	3784.2
4587.4	7.5°	4543.9	4500.3	4374.2	4210.7	4036.4	3860.5	3729.7	3630.1	3563.2	3519.6
4749.3	10°	4688.6	4621.7	4428.7	4184.3	3915.0	3662.8	3508.7	3423.1	3381.0	3357.7
4934.6	12.5°	4855.2	4760.2	4484.7	4123.6	3729.7	3441.8	3335.9	3311.0	3312.6	3314.1
5168.1	15°	5060.7	4928.4	4529.9	3991.3	3488.5	3272.1	3253.4	3293.9	3335.9	3356.1
5432.7	17.5°	5292.6	5105.8	4537.6	3773.3	3251.8	3163.1	3222.3	3309.4	3373.3	3401.3
5728.5	20°	5541.7	5286.4	4481.6	3465.1	3057.3	3074.4	3180.2	3292.3	3362.4	3398.2
6066.3	22.5°	5826.5	5479.4	4347.7	3141.3	2898.5	2977.9	3102.4	3211.4	3284.5	3320.3
6463.2	25°	6151.9	5695.8	4137.6	2868.9	2761.5	2868.9	2993.4	3083.7	3142.9	3175.6
6906.9	27.5°	6513.0	5921.5	3857.4	2652.5	2641.6	2756.8	2859.6	2929.6	2960.7	2985.7
7378.5	30°	6875.7	6127.0	3518.0	2489.1	2537.3	2646.3	2719.5	2750.6	2759.9	2764.6
7904.7	32.5°	7268.0	6304.4	3161.6	2353.7	2437.7	2538.9	2582.5	2596.5	2552.9	2523.3
8542.9	35°	7742.8	6494.3	2812.9	2246.2	2339.6	2426.8	2440.8	2428.4	2377.0	2316.3
9343.0	37.5°	8329.6	6731.0	2534.2	2170.0	2247.8	2305.4	2288.3	2285.2	2289.8	2218.2
10305.0	40°	9048.8	7039.2	2330.3	2110.8	2173.1	2185.5	2137.3	2163.7	2187.1	2078.1
11360.4	42.5°	9847.4	7411.2	2201.1	2070.3	2110.8	2081.2	2006.5	2036.1	2033.0	1889.8
12420.5	45°	10661.5	7815.9	2156.0	2040.8	2053.2	1994.1	1911.6	1919.3	1854.0	1724.8
13437.0	47.5°	11471.0	8250.2	2184.0	2015.9	1981.6	1914.7	1850.9	1816.6	1720.1	1623.6
14411.5	50°	12264.8	8706.3	2286.7	1966.0	1883.5	1844.6	1797.9	1737.2	1634.5	1552.0
15333.0	52.5°	13001.1	9165.6	2401.9	1883.5	1760.6	1783.9	1754.3	1684.3	1583.1	1499.1
16204.7	55°	13698.5	9624.8	2447.1	1769.9	1645.4	1731.0	1713.9	1584.7	1463.3	1394.8
17116.9	57.5°	14458.2	10177.4	2397.2	1625.1	1552.0	1670.3	1604.9	1461.7	1391.6	1340.3
18304.6	60°	15510.5	11044.4	2289.8	1446.1	1463.3	1580.0	1467.9	1408.8	1332.5	1274.9
20085.5	62.5°	17258.6	12661.8	2117.0	1268.7	1359.0	1446.1	1402.5	1343.4	1265.6	1209.5
23130.3	65°	19842.6	14909.6	1791.7	1130.1	1242.2	1315.4	1332.5	1273.3	1192.4	1133.2
25798.4	67.5°	22021.9	16319.9	1355.8	1014.9	1122.3	1209.5	1257.8	1200.2	1114.6	1057.0
26422.6	70°	21902.1	15295.6	1035.2	901.3	1016.5	1105.2	1167.5	1122.3	1030.5	976.0
24000.4	72.5°	19453.5	12795.7	837.5	786.1	909.1	996.3	1071.0	1036.7	943.3	890.4
17582.4	75°	14291.6	9083.1	669.4	669.4	775.2	882.6	965.1	943.3	857.7	820.4
7381.6	77.5°	6024.2	3810.7	524.6	555.7	644.5	758.1	860.8	868.6	793.9	840.6
1952.0	80°	1601.8	1050.7	400.1	437.4	505.9	625.8	748.7	745.6	664.7	621.1
725.4	82.5°	610.2	414.1	284.9	308.2	365.8	479.4	593.1	611.8	530.8	459.2
284.9	85°	235.1	177.5	175.9	185.2	213.3	317.6	448.3	463.9	400.1	339.3
79.4	87.5°	60.7	52.9	65.4	62.3	98.1	169.7	256.8	266.2	244.4	141.7
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>
4301.0
4103.3
3802.9
3528.9
3363.9
3317.2
3354.6
3407.5
3407.5
3329.7
3184.9
2995.0
2775.5
2532.7
2319.4
2222.9
2081.2
1888.2
1729.4
1623.6
1545.8
1500.6
1388.5
1335.6
1271.8
1209.5
1136.4
1058.5
980.7
890.4
809.5
762.8
577.5
459.2
350.2
202.4
0.0

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