

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: P957234

Luminaire Tested: **GALN-SB9C-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42292 lumens
Efficiency: N/A
Efficacy: 94.0 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

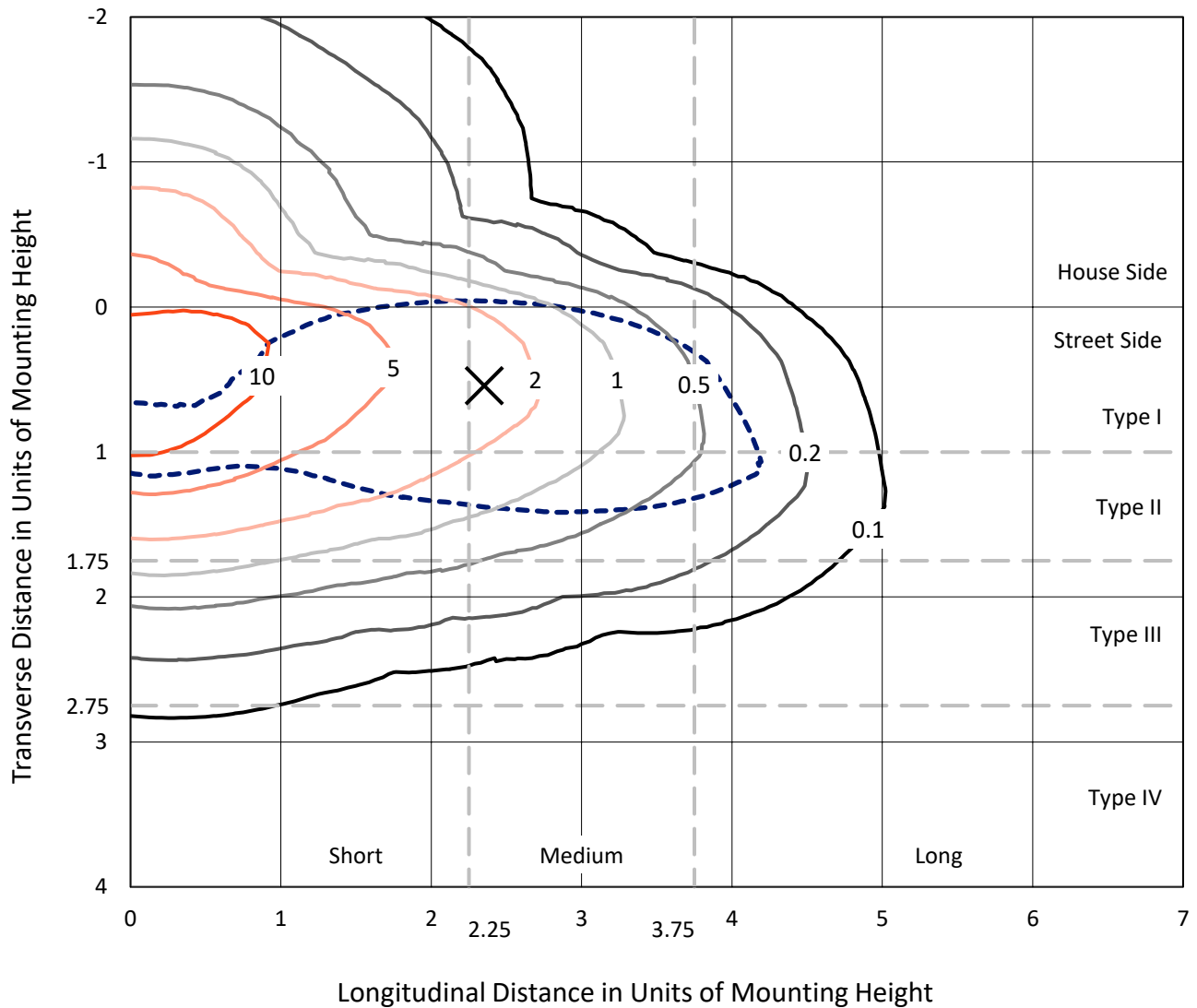
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957234
 CATALOG NUMBER: GALN-SB9C-927-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

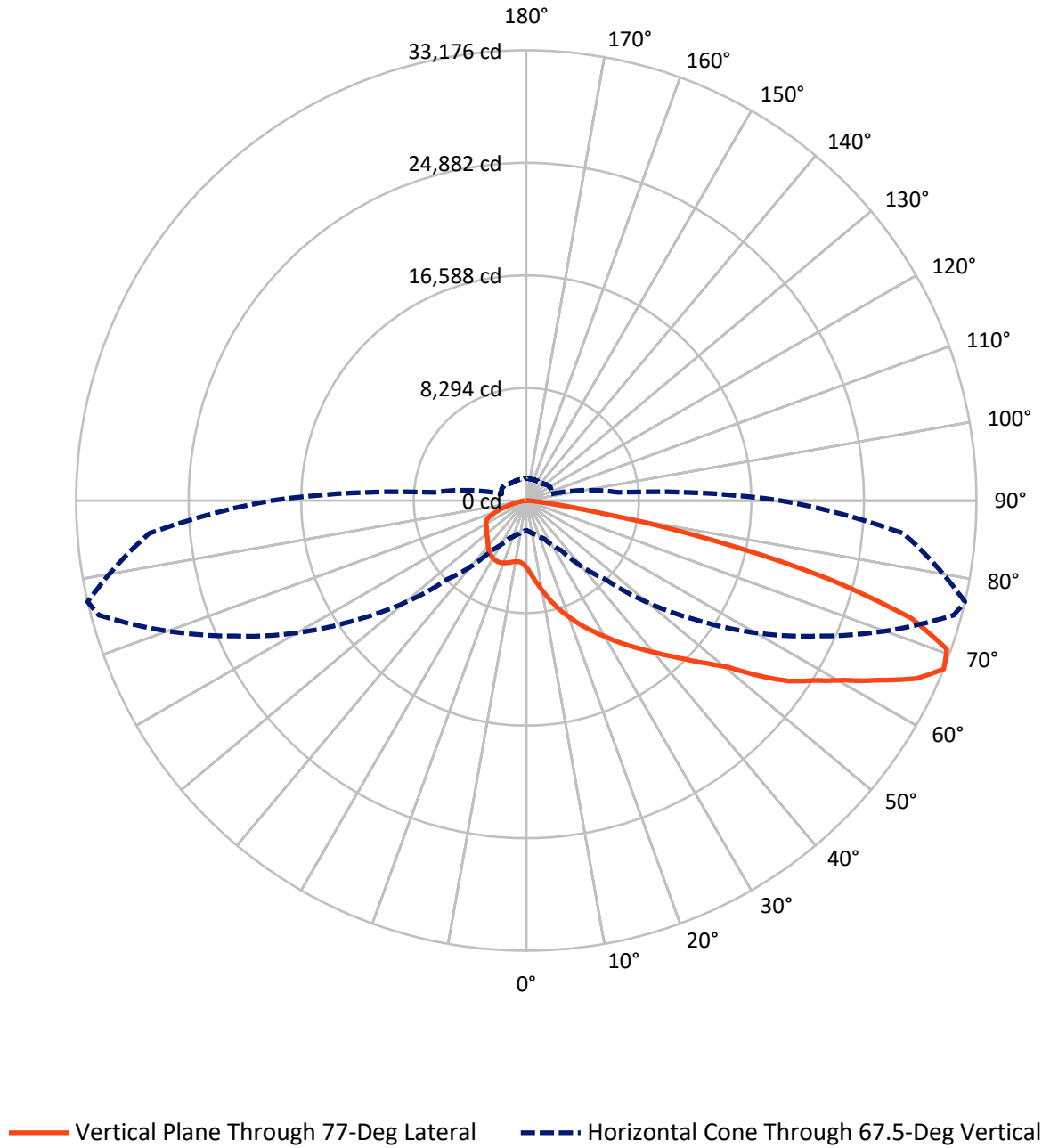
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P957234
CATALOG NUMBER: GALN-SB9C-927-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8000.0	0.0	8000.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	34292.0	0.0	34292.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	42292.0	0.0	42292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.9	1.3
10°-20°	1910.8	4.5
20°-30°	3607.8	8.5
30°-40°	5812.1	13.7
40°-50°	7949.9	18.8
50°-60°	8967.6	21.2
60°-70°	8370.1	19.8
70°-80°	4588.2	10.8
80°-90°	553.4	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°	42292.0	100.0
0°-180°	42292.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957234

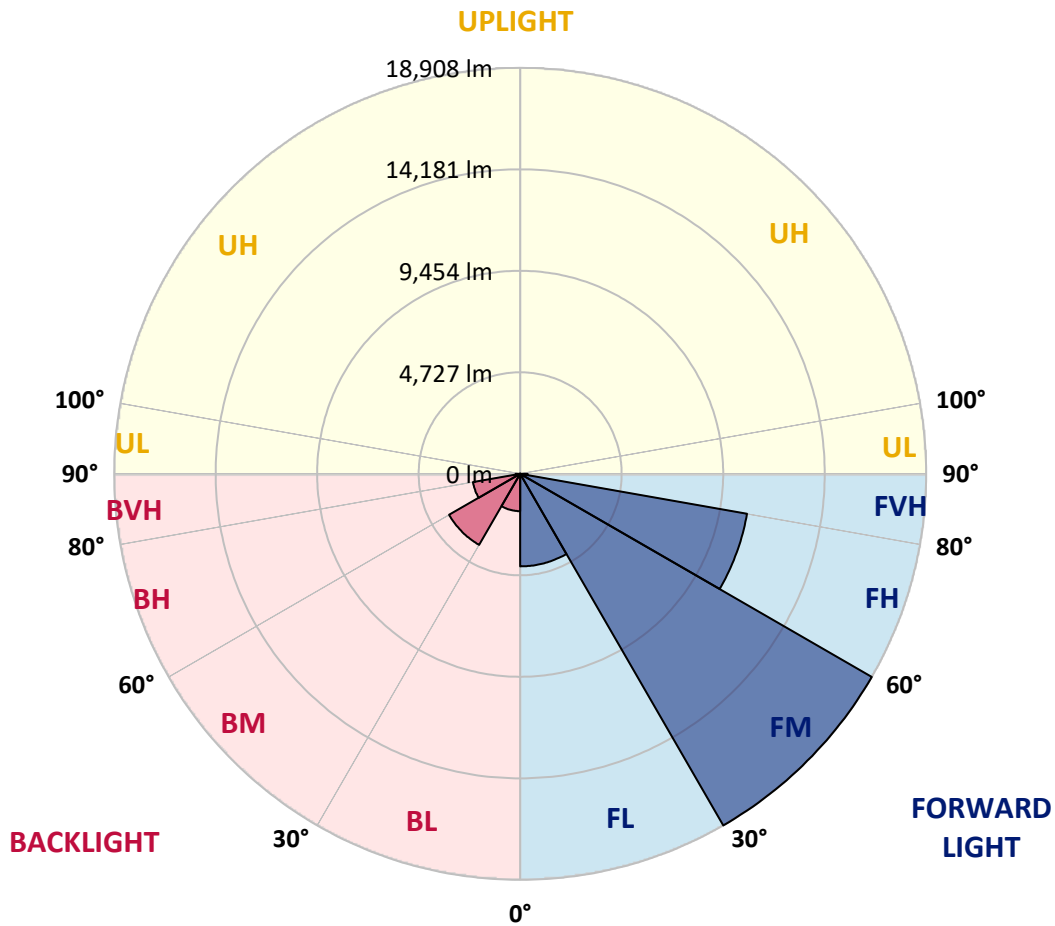
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4311.1	10.2			
FM (30°-60°)	18908.3	44.7			
FH (60°-80°)	10726.5	25.4			G4/12000
FVH (80°-90°)	346.1	0.8			G3/500
BL (0°-30°)	1739.4	4.1	B3/2500		
BM (30°-60°)	3821.4	9.0	B3/5000		
BH (60°-80°)	2231.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	207.3	0.5			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



REPORT NUMBER: P957234

CATALOG NUMBER: GALN-SB9C-927-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2
2.5°	6213.1	6256.7	6202.2	6202.2	6018.8	5922.7	5739.3	5599.6	5348.6	5304.9
5°	7343.9	7398.5	7322.1	7289.3	7073.2	6874.6	6566.7	6263.3	5815.8	5769.9
7.5°	8219.3	8289.2	8221.5	8186.6	7994.5	7771.8	7411.6	6988.1	6357.2	6267.7
10°	8933.2	8944.1	8922.3	8935.4	8784.8	8601.4	8232.4	7739.1	6951.0	6828.7
12.5°	9337.1	9387.3	9431.0	9509.5	9483.3	9369.8	9038.0	8448.6	7579.7	7422.5
15°	9527.0	9614.3	9712.6	9893.8	10040.0	10068.4	9815.2	9210.5	8219.3	8029.4
17.5°	9594.7	9677.6	9832.6	10094.6	10409.0	10620.7	10507.2	9950.5	8852.4	8634.1
20°	9937.4	9961.4	10055.3	10304.2	10644.8	10996.2	11081.4	10662.2	9479.0	9232.3
22.5°	10670.9	10622.9	10649.1	10762.6	11007.1	11347.7	11542.0	11290.9	10123.0	9839.2
25°	11882.6	11742.8	11603.1	11472.1	11596.6	11788.7	12009.2	11919.7	10797.6	10437.4
27.5°	13412.9	13242.6	12934.8	12504.7	12354.1	12421.8	12520.0	12502.6	11421.9	11057.4
30°	14919.2	14720.6	14353.8	13731.6	13334.3	13155.3	13081.1	13030.9	12100.9	11712.3
32.5°	16122.1	15964.9	15604.7	14908.3	14332.0	14026.4	13779.7	13600.7	12810.4	12421.8
35°	17174.4	17028.1	16615.5	15855.8	15229.2	14904.0	14580.9	14198.8	13548.3	13155.3
37.5°	18134.9	17988.7	17423.2	16633.0	16002.1	15777.2	15489.0	14840.7	14288.3	13917.2
40°	18741.8	18709.1	18180.8	17285.7	16630.8	16519.4	16423.4	15585.1	15109.2	14764.2
42.5°	18896.8	18968.9	18549.7	17814.0	17189.7	17100.2	17325.0	16427.8	16030.4	15700.8
45°	18523.5	18730.9	18455.9	17955.9	17587.0	17539.0	18124.0	17349.0	17049.9	16748.7
47.5°	17578.2	17929.7	17816.2	17746.3	17694.0	17901.3	18827.0	18327.0	18204.8	17942.8
50°	15670.2	16336.1	16534.7	16975.7	17482.2	18183.0	19466.6	19394.6	19553.9	19289.8
52.5°	12371.6	13288.5	14441.1	15545.8	16831.6	18089.1	20169.6	20927.1	21599.5	21455.4
55°	10212.5	10625.1	11511.4	13537.3	15569.8	17694.0	20486.1	22164.9	23629.8	23501.0
57.5°	8553.3	8922.3	9468.1	11160.0	13661.8	16796.7	20682.6	22920.3	25020.4	25007.3
60°	6774.1	7164.9	7723.8	8922.3	11432.8	15246.7	20638.9	23780.4	26795.3	26904.4
62.5°	4765.7	5195.8	5815.8	6933.5	9155.9	13238.3	19748.2	24402.6	28884.5	29181.4
65°	3132.7	3416.5	3883.7	4848.6	6822.2	10655.7	18047.6	24483.4	31120.0	31622.1
67.5°	2196.2	2305.3	2580.4	3104.4	4497.2	8171.3	15338.4	23647.2	32611.0	33176.4
70°	1713.7	1768.3	1908.0	2117.6	2824.9	5494.8	11753.8	21472.9	32292.3	32881.7
72.5°	1480.1	1532.5	1584.9	1611.1	1894.9	3392.5	7961.7	17953.7	29290.5	29690.0
75°	1342.6	1355.7	1399.4	1390.6	1445.2	2200.6	4595.4	13081.1	23110.2	22972.7
77.5°	1128.7	1146.1	1218.2	1207.2	1283.7	1504.1	2386.1	8442.0	14982.6	14048.2
80°	956.2	964.9	1043.5	1030.4	1115.6	1089.4	1218.2	4302.9	6355.0	5383.5
82.5°	331.8	410.4	796.8	820.8	851.4	659.3	703.0	1755.2	1940.8	1486.7
85°	161.5	172.5	406.1	576.3	574.2	331.8	342.7	626.5	611.3	480.3
87.5°	26.2	32.7	48.0	224.9	179.0	87.3	117.9	122.3	126.6	109.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957234
 CATALOG NUMBER: GALN-SB9C-927-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4962.2	0°	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2	4962.2
5139.0	2.5°	5016.7	4907.6	4678.4	4466.6	4300.7	4141.3	4051.8	3975.4	3931.7	3923.0
5379.1	5°	5152.1	4927.2	4510.3	4158.8	3929.6	3759.3	3669.8	3613.0	3584.6	3567.2
5702.2	7.5°	5346.4	5016.7	4422.9	4023.4	3783.3	3661.0	3615.2	3606.5	3604.3	3606.5
6093.0	10°	5614.9	5163.0	4414.2	3990.7	3789.8	3722.2	3720.0	3722.2	3730.9	3733.1
6518.7	12.5°	5905.3	5313.6	4449.1	4019.1	3872.8	3835.7	3829.1	3827.0	3833.5	3837.9
6948.8	15°	6221.8	5512.3	4508.1	4080.2	3964.5	3925.2	3918.6	3905.5	3903.4	3901.2
7400.7	17.5°	6547.1	5708.8	4573.6	4145.7	4023.4	3968.9	3944.8	3914.3	3890.3	3883.7
7867.9	20°	6876.7	5903.1	4619.4	4178.4	4027.8	3951.4	3903.4	3851.0	3809.5	3785.5
8339.4	22.5°	7228.2	6106.1	4647.8	4169.7	3988.5	3883.7	3796.4	3735.3	3672.0	3630.5
8815.3	25°	7571.0	6282.9	4645.6	4123.9	3912.1	3778.9	3667.6	3589.0	3501.7	3458.0
9306.5	27.5°	7900.6	6442.3	4591.0	4043.1	3802.9	3654.5	3521.3	3427.5	3342.3	3300.8
9802.1	30°	8241.2	6575.5	4505.9	3925.2	3674.1	3510.4	3364.1	3283.4	3207.0	3167.7
10326.0	32.5°	8579.5	6697.7	4385.8	3778.9	3525.7	3368.5	3224.4	3150.2	3104.4	3104.4
10889.3	35°	8937.6	6782.9	4226.5	3608.6	3368.5	3217.9	3104.4	3060.7	3056.3	3030.1
11485.2	37.5°	9315.2	6837.4	4032.2	3434.0	3213.5	3071.6	3036.7	2984.3	2940.6	2883.9
12140.2	40°	9712.6	6892.0	3798.6	3252.8	3049.8	2971.2	2955.9	2886.0	2761.6	2621.9
12882.4	42.5°	10195.0	6929.1	3556.3	3071.6	2877.3	2851.1	2872.9	2752.9	2554.2	2449.4
13777.5	45°	10753.9	6990.3	3333.6	2892.6	2700.5	2700.5	2792.2	2635.0	2471.3	2405.8
14799.2	47.5°	11478.7	7132.2	3126.2	2696.1	2536.8	2580.4	2613.2	2493.1	2401.4	2320.6
16043.5	50°	12526.6	7472.7	2912.2	2497.5	2412.3	2499.6	2453.8	2383.9	2277.0	2211.5
18021.4	52.5°	13827.7	7673.6	2722.3	2318.4	2305.3	2392.7	2327.2	2261.7	2180.9	2093.6
19521.2	55°	14714.0	7710.7	2562.9	2187.5	2233.3	2224.6	2200.6	2141.6	2098.0	1982.2
21001.3	57.5°	15705.2	7784.9	2432.0	2108.9	2187.5	2091.4	2082.7	2032.5	1975.7	1897.1
22806.8	60°	16890.6	7900.6	2318.4	2078.3	2148.2	2004.1	1960.4	1940.8	1884.0	1844.7
24978.9	62.5°	18183.0	8005.4	2202.7	2082.7	2102.3	1918.9	1853.4	1846.9	1812.0	1798.9
27017.9	65°	19064.9	7719.4	2058.7	2078.3	2030.3	1831.6	1748.7	1746.5	1718.1	1713.7
27902.1	67.5°	18757.1	6813.4	1864.4	2017.2	1956.0	1744.3	1652.6	1643.9	1606.8	1608.9
26978.6	70°	17215.9	5521.0	1595.8	1866.5	1864.4	1665.7	1552.2	1523.8	1473.6	1482.3
23457.3	72.5°	14325.4	4091.1	1235.6	1615.5	1718.1	1593.7	1436.5	1390.6	1327.3	1336.1
17316.3	75°	10345.7	2781.3	899.4	1229.1	1495.4	1508.5	1323.0	1244.4	1168.0	1181.1
9638.3	77.5°	5294.0	1576.2	661.5	847.0	1174.5	1371.0	1220.3	1115.6	1098.1	1220.3
2779.1	80°	1726.8	790.3	458.4	593.8	770.6	1122.1	1069.7	949.6	945.3	973.7
582.9	82.5°	515.2	334.0	294.7	390.8	425.7	860.1	923.4	718.2	617.8	650.6
194.3	85°	176.8	161.5	168.1	194.3	203.0	504.3	646.2	475.9	449.7	495.6
43.7	87.5°	41.5	56.8	48.0	43.7	43.7	122.3	251.1	198.7	275.1	183.4
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°
4962.2
3923.0
3565.0
3613.0
3735.3
3840.1
3899.0
3890.3
3794.2
3632.7
3458.0
3298.7
3165.5
3106.5
3023.6
2875.1
2602.2
2451.6
2416.7
2318.4
2204.9
2076.1
1984.4
1870.9
1855.6
1798.9
1711.5
1608.9
1491.1
1333.9
1185.4
1202.9
836.1
672.4
489.0
176.8
0.0

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