

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: P944477

Luminaire Tested: **GALN-SB9B-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37192 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

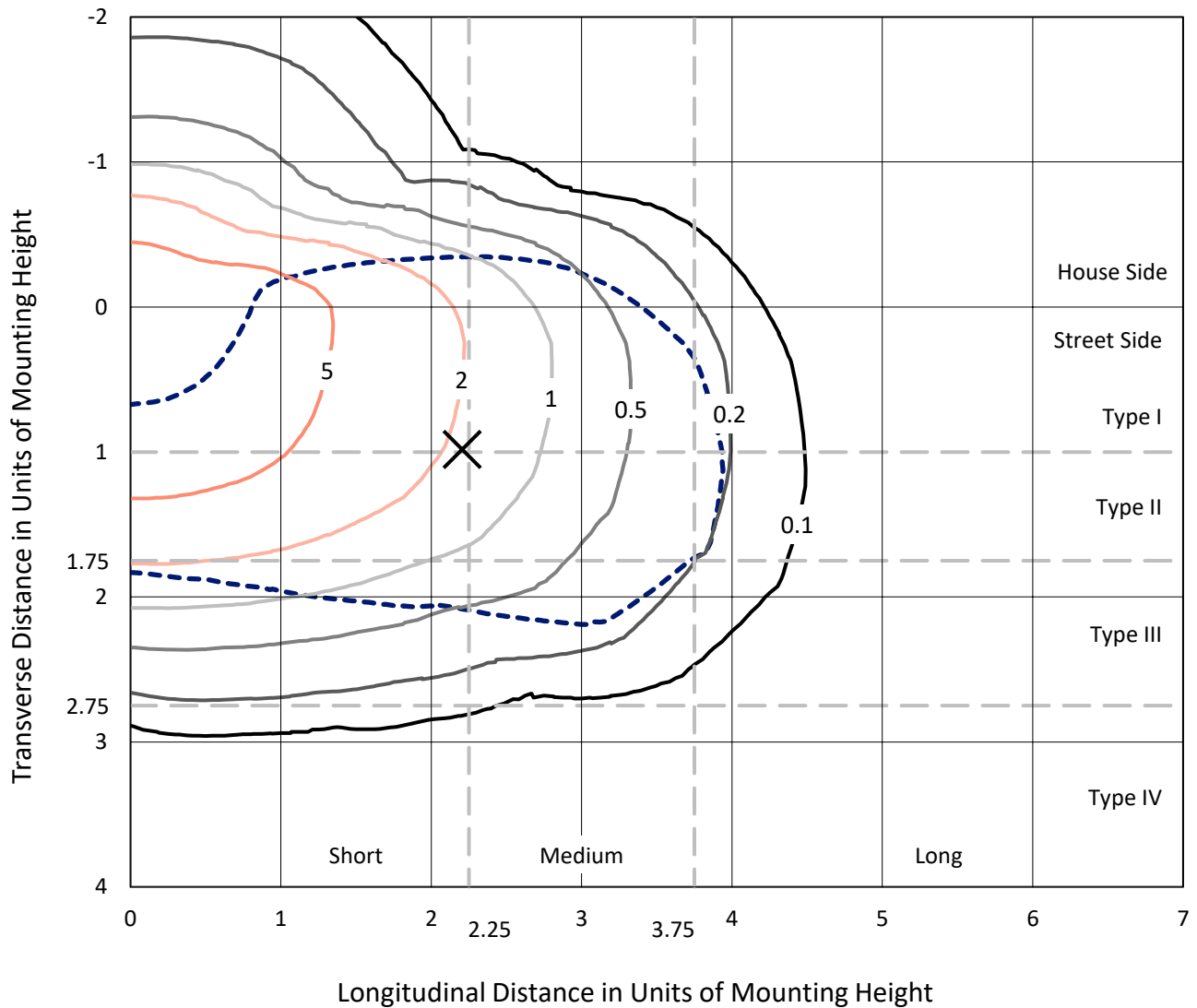
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

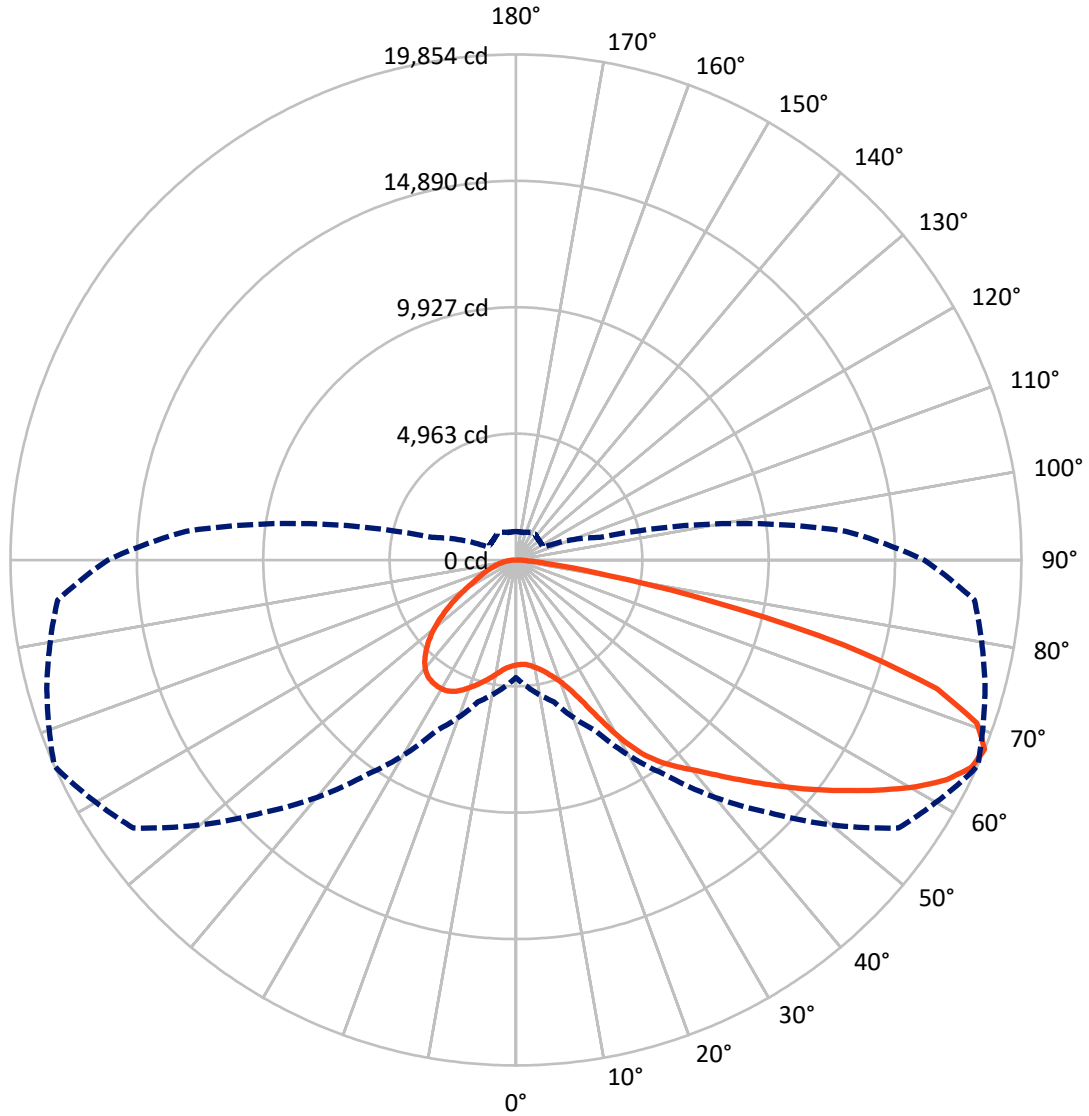
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9247.7	0.0	9247.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27944.3	0.0	27944.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	37192.0	0.0	37192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.0	1.1
10°-20°	1351.2	3.6
20°-30°	2604.4	7.0
30°-40°	4566.5	12.3
40°-50°	6788.9	18.3
50°-60°	8605.6	23.1
60°-70°	8420.4	22.6
70°-80°	4016.6	10.8
80°-90°	429.3	1.2
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°	37192.0	100.0
0°-180°	37192.0	100.0

Coefficient of Utilization



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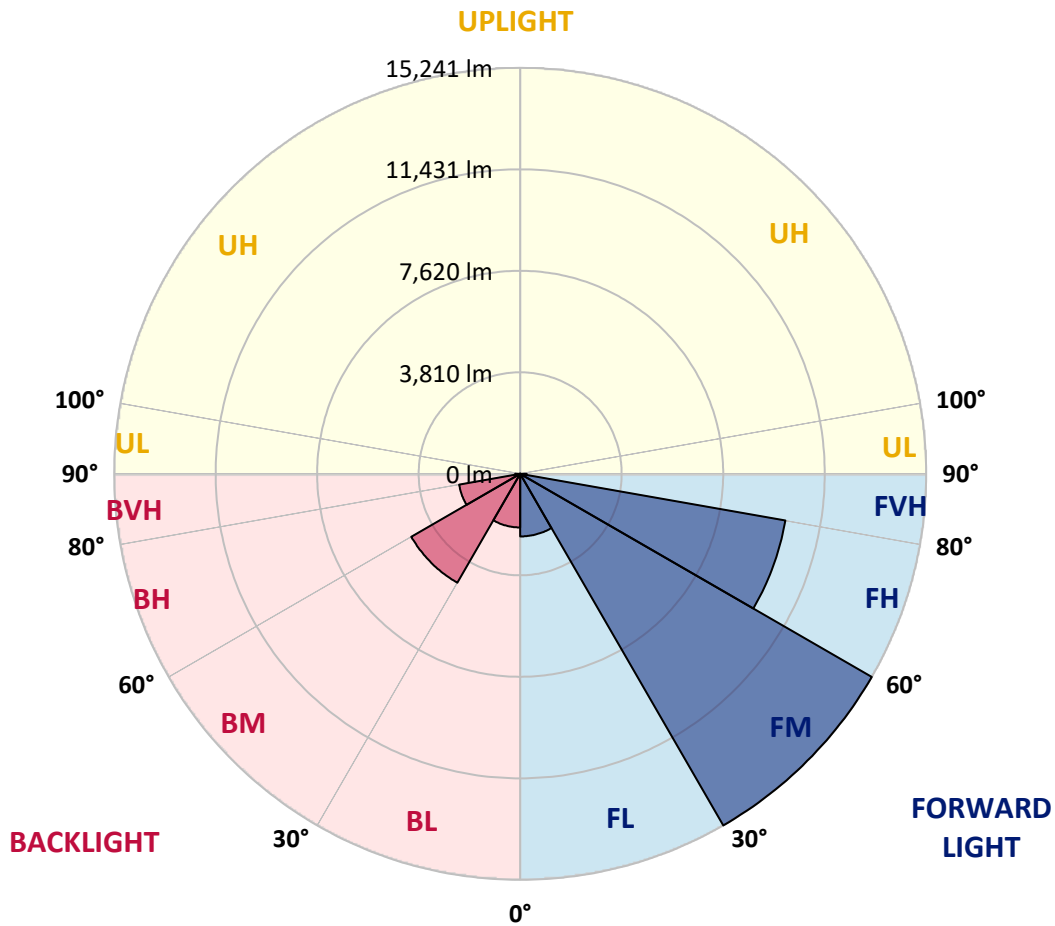
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2350.2	6.3			
FM (30°-60°)	15241.0	41.0			
FH (60°-80°)	10109.8	27.2			G4/12000
FVH (80°-90°)	243.4	0.7			G3/500
BL (0°-30°)	2014.5	5.4	B3/2500		
BM (30°-60°)	4720.1	12.7	B3/5000		
BH (60°-80°)	2327.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	185.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1
2.5°	4082.1	4105.5	4099.7	4089.9	4088.0	4091.9	4097.7	4103.6	4101.6	4111.4
5°	4070.4	4093.8	4091.9	4091.9	4099.7	4115.3	4125.1	4134.9	4125.1	4136.8
7.5°	4078.2	4095.8	4103.6	4111.4	4130.9	4160.3	4183.7	4205.2	4193.5	4207.2
10°	4177.8	4191.5	4199.3	4199.3	4213.0	4246.2	4269.7	4308.8	4299.0	4320.5
12.5°	4359.6	4373.3	4373.3	4365.4	4375.2	4396.7	4404.5	4447.5	4429.9	4465.1
15°	4582.3	4609.7	4588.2	4574.5	4578.4	4599.9	4598.0	4631.2	4613.6	4642.9
17.5°	4828.6	4863.7	4828.6	4826.6	4818.8	4842.2	4844.2	4873.5	4842.2	4863.7
20°	5119.7	5168.6	5139.3	5149.0	5131.4	5141.2	5151.0	5194.0	5145.1	5160.8
22.5°	5530.1	5588.7	5557.4	5594.6	5582.8	5575.0	5573.1	5649.3	5573.1	5578.9
25°	6128.0	6198.4	6143.7	6194.5	6194.5	6219.9	6249.2	6346.9	6219.9	6182.7
27.5°	7011.3	7081.6	6974.1	7005.4	6995.6	7058.2	7026.9	7269.2	7132.4	7071.9
30°	8074.3	8199.4	7996.1	7988.3	7978.6	8078.2	8123.2	8283.4	8144.6	8084.1
32.5°	9223.3	9354.2	9111.9	9041.6	9004.4	9065.0	9027.9	9156.9	9061.1	8967.3
35°	10438.7	10567.7	10337.1	10200.4	10051.8	9924.8	9791.9	9825.2	9735.3	9592.6
37.5°	11587.8	11824.2	11579.9	11433.4	11159.8	10911.6	10540.4	10386.0	10302.0	10171.0
40°	12758.3	12893.1	12707.4	12582.4	12285.4	11896.5	11302.5	10976.1	10862.8	10735.8
42.5°	13620.0	13749.0	13649.3	13563.3	13330.8	12879.4	12111.5	11703.0	11538.9	11396.3
45°	14303.9	14399.7	14337.2	14368.4	14268.8	13831.1	12949.8	12482.7	12312.7	12138.8
47.5°	14579.5	14681.1	14780.7	14966.4	15136.4	14814.0	13850.6	13326.9	13147.1	12969.3
50°	14548.2	14651.8	14941.0	15335.7	15863.3	15755.8	14800.3	14225.8	14059.7	13856.5
52.5°	14298.1	14415.3	14786.6	15443.2	16283.4	16461.3	15767.6	15154.0	14997.6	14755.3
55°	13641.5	13711.9	14268.8	15198.9	16383.1	16953.7	16715.3	16142.7	15986.4	15648.4
57.5°	12424.1	12525.7	13336.7	14540.4	16133.0	17287.8	17547.7	17182.3	17031.8	16545.3
60°	10835.4	10997.6	11925.8	13434.4	15495.9	17285.9	18304.0	18204.3	18079.2	17428.5
62.5°	9037.7	9225.3	10118.3	11871.1	14382.1	16795.4	18776.9	19060.2	18995.7	18243.4
65°	6940.9	7069.9	7959.0	9848.6	12648.8	15742.2	18831.6	19644.5	19656.2	18862.8
67.5°	4621.4	4992.7	5764.6	7390.4	10327.4	14020.6	18350.9	19740.2	19853.6	19075.8
70°	2255.0	2743.5	3499.8	4803.2	7390.4	11380.6	17094.4	18954.7	19206.8	18454.4
72.5°	936.0	1094.3	1506.6	2370.3	4242.3	7679.6	14569.7	16824.7	17291.7	16351.8
75°	631.2	683.9	861.8	1215.4	1932.6	3787.0	10507.1	12545.3	13297.6	12349.8
77.5°	486.6	519.8	627.3	850.0	1149.0	1432.3	5623.9	7560.4	7949.2	7359.1
80°	383.0	408.4	469.0	619.4	814.9	766.0	1917.0	3425.5	3650.2	3062.1
82.5°	332.2	342.0	336.1	420.1	541.3	447.5	629.2	1264.3	1395.2	1012.2
85°	240.4	267.7	279.4	259.9	287.3	226.7	257.9	447.5	492.4	439.7
87.5°	97.7	144.6	177.8	168.1	105.5	64.5	80.1	130.9	150.5	164.1
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°
4125.1	0°	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1	4125.1
4127.0	2.5°	4129.0	4142.7	4152.4	4164.2	4172.0	4183.7	4207.2	4220.8	4222.8	4232.6
4158.3	5°	4166.1	4185.7	4207.2	4238.4	4273.6	4302.9	4347.9	4379.1	4390.8	4400.6
4234.5	7.5°	4246.2	4273.6	4312.7	4367.4	4418.2	4457.3	4512.0	4549.1	4586.2	4599.9
4355.7	10°	4365.4	4404.5	4461.2	4535.4	4590.2	4641.0	4697.6	4728.9	4766.0	4781.7
4500.3	12.5°	4513.9	4555.0	4629.2	4732.8	4783.6	4818.8	4838.3	4830.5	4838.3	4852.0
4674.2	15°	4684.0	4728.9	4812.9	4924.3	4959.5	4928.2	4885.2	4846.1	4840.3	4844.2
4885.2	17.5°	4885.2	4918.4	5016.1	5109.9	5084.5	4955.6	4861.8	4799.2	4768.0	4758.2
5154.9	20°	5166.6	5166.6	5246.7	5305.4	5135.3	4916.5	4769.9	4668.3	4603.8	4576.5
5522.3	22.5°	5508.6	5477.3	5528.1	5487.1	5125.6	4807.1	4603.8	4428.0	4330.3	4291.2
6036.2	25°	5942.4	5905.3	5891.6	5637.6	5055.2	4633.1	4302.9	4089.9	4003.9	3982.4
6776.8	27.5°	6597.0	6503.2	6325.4	5719.6	4926.3	4359.6	3951.2	3753.8	3705.0	3706.9
7728.4	30°	7468.5	7280.9	6845.2	5733.3	4715.2	3972.7	3591.6	3450.9	3427.5	3437.2
8527.6	32.5°	8275.6	8097.7	7376.7	5670.8	4390.8	3593.6	3269.2	3175.4	3140.2	3151.9
9137.3	35°	8908.7	8859.8	7869.1	5582.8	3992.2	3237.9	2980.0	2899.9	2831.5	2815.8
9711.8	37.5°	9506.6	9487.1	8238.4	5459.7	3597.5	2985.8	2747.5	2641.9	2542.3	2487.6
10346.9	40°	10163.2	10143.7	8480.8	5270.2	3247.7	2767.0	2538.4	2399.6	2276.5	2176.9
11066.0	42.5°	10901.9	10786.6	8596.0	4998.6	2950.7	2581.4	2368.4	2180.8	2018.6	1926.7
11878.9	45°	11708.9	11449.0	8594.1	4652.7	2700.6	2411.3	2186.6	1920.9	1770.4	1684.4
12713.3	47.5°	12564.8	12082.1	8488.6	4269.7	2458.2	2223.8	1905.2	1702.0	1602.4	1549.6
13620.0	50°	13448.0	12674.2	8308.8	3830.0	2210.1	2010.8	1729.4	1590.6	1514.4	1465.6
14518.9	52.5°	14278.5	13211.6	8091.9	3331.7	1958.0	1803.6	1651.2	1543.7	1463.6	1408.9
15390.4	55°	15050.4	13674.7	7785.1	2821.7	1752.8	1664.9	1614.1	1524.2	1432.3	1367.9
16275.6	57.5°	15736.3	13975.7	7255.5	2343.0	1606.3	1569.1	1575.0	1491.0	1385.4	1330.7
17147.1	60°	16306.9	14196.5	6471.9	1899.4	1487.1	1475.3	1514.4	1428.4	1305.3	1242.8
17883.8	62.5°	16648.8	14192.6	5510.5	1555.5	1385.4	1389.4	1434.3	1350.3	1225.2	1166.6
18268.8	65°	16619.5	13844.7	4455.3	1330.7	1287.7	1291.7	1350.3	1264.3	1158.8	1123.6
18075.3	67.5°	16031.4	12996.7	3417.7	1184.2	1180.3	1197.9	1266.3	1205.7	1117.7	1113.8
16922.4	70°	14438.8	11236.0	2462.2	1066.9	1068.9	1094.3	1184.2	1168.5	1096.2	1104.1
14227.7	72.5°	11578.0	8566.7	1653.2	943.8	945.8	986.8	1106.0	1139.2	1074.7	1178.3
10094.8	75°	7710.8	5342.5	1063.0	812.9	814.9	867.6	1037.6	1082.6	1016.1	1174.4
5252.6	77.5°	3705.0	2401.6	769.9	683.9	683.9	732.8	896.9	969.2	865.7	912.6
1688.3	80°	1279.9	902.8	605.8	551.1	539.3	572.5	756.2	840.3	746.5	687.8
551.1	82.5°	504.2	469.0	486.6	427.9	388.9	410.4	588.2	693.7	549.1	496.3
310.7	85°	289.2	304.8	343.9	283.3	224.7	252.1	431.9	498.3	414.3	365.4
101.6	87.5°	78.2	107.5	158.3	146.6	101.6	107.5	205.2	275.5	238.4	183.7
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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180°
4125.1
4230.6
4398.7
4601.9
4789.5
4855.9
4857.9
4771.9
4570.6
4285.3
3986.3
3712.8
3470.5
3167.6
2827.6
2489.5
2186.6
1932.6
1680.5
1537.9
1448.0
1385.4
1342.5
1295.6
1215.4
1149.0
1121.6
1119.7
1102.1
1193.9
1184.2
836.4
644.8
494.4
373.2
189.5
0.0

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