

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: P943047

Luminaire Tested: **GALN-SB7B-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943047
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-SB7B-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36008 lumens
Efficiency: N/A
Efficacy: 140.3 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

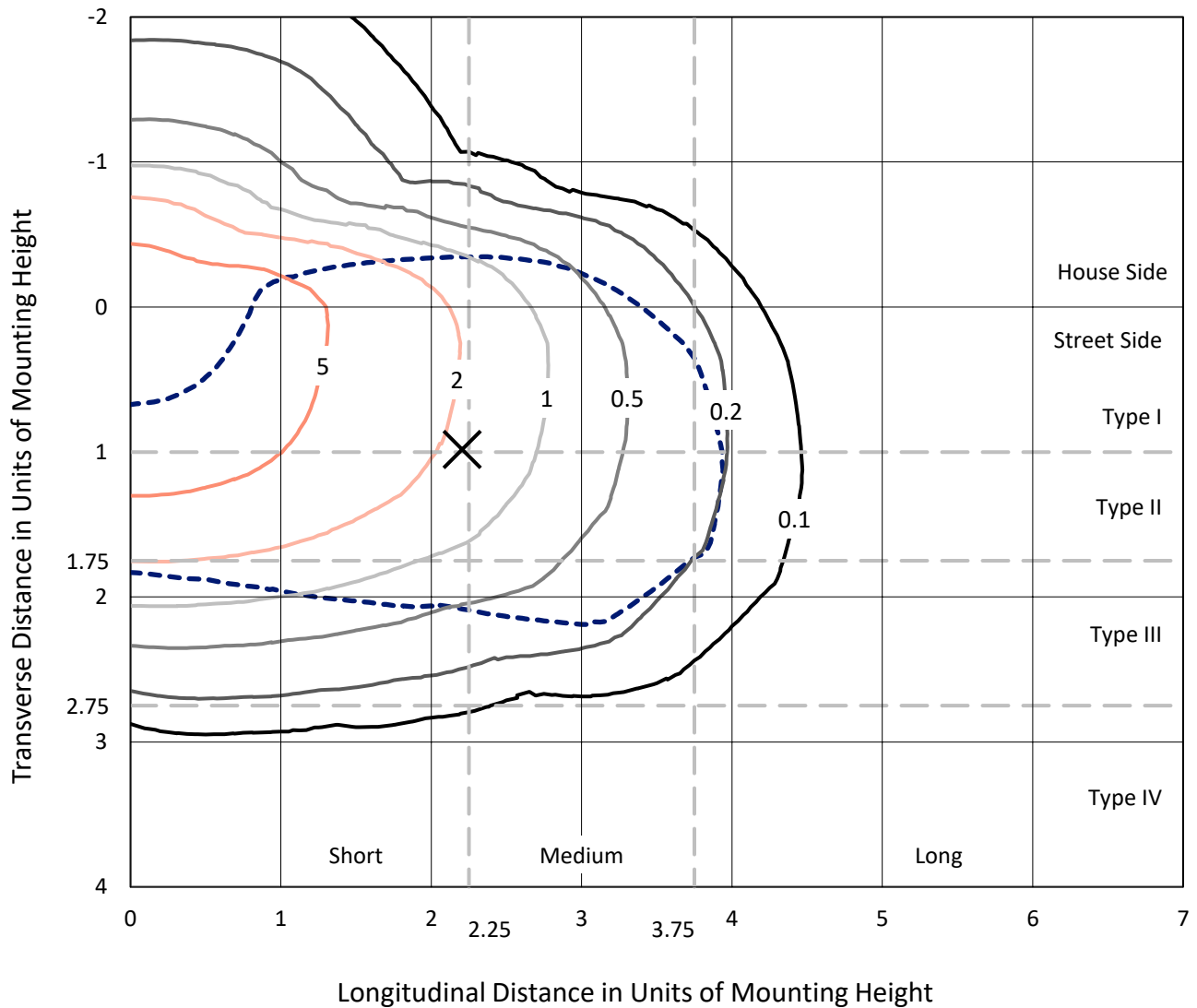
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

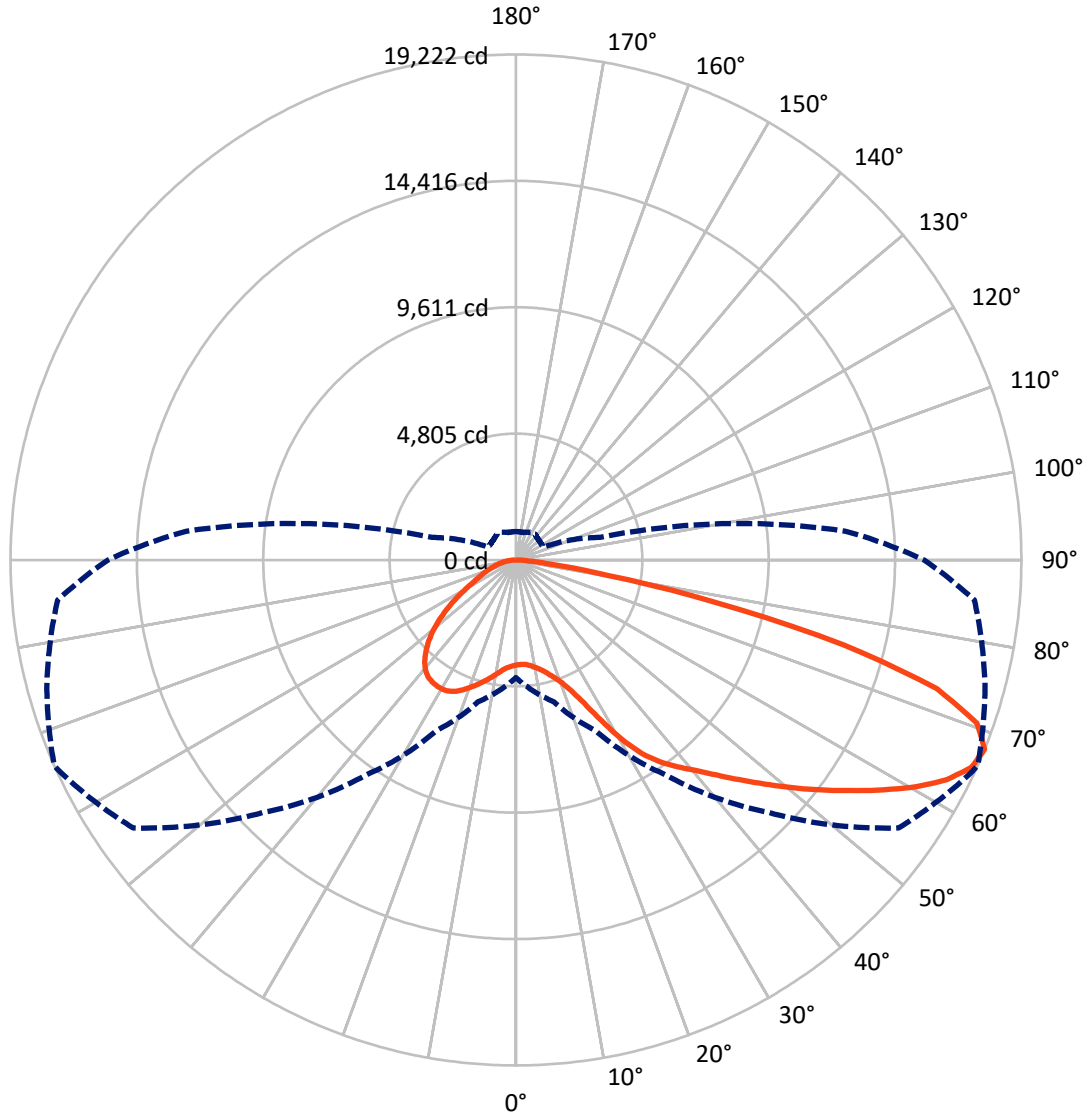
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	8953.3	0.0	8953.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27054.7	0.0	27054.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	36008.0	0.0	36008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	1.1
10°-20°	1308.2	3.6
20°-30°	2521.5	7.0
30°-40°	4421.2	12.3
40°-50°	6572.8	18.3
50°-60°	8331.7	23.1
60°-70°	8152.3	22.6
70°-80°	3888.7	10.8
80°-90°	415.6	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°	36008.0	100.0
0°-180°	36008.0	100.0

Coefficient of Utilization



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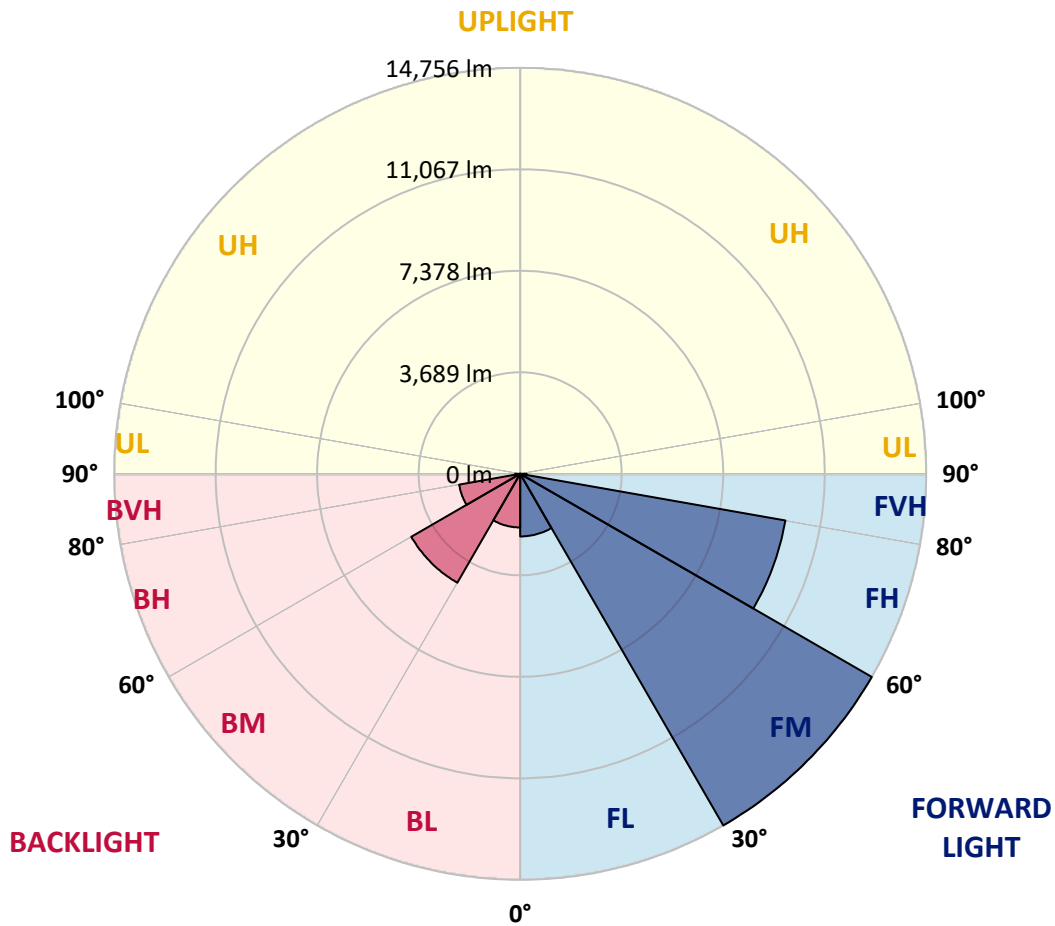
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2275.3	6.3			
FM (30°-60°)	14755.8	41.0			
FH (60°-80°)	9788.0	27.2			G4/12000
FVH (80°-90°)	235.6	0.7			G3/500
BL (0°-30°)	1950.4	5.4	B3/2500		
BM (30°-60°)	4569.9	12.7	B3/5000		
BH (60°-80°)	2253.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	180.0	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°	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8
2.5°	3952.1	3974.8	3969.2	3959.7	3957.8	3961.6	3967.3	3973.0	3971.1	3980.5
5°	3940.8	3963.5	3961.6	3961.6	3969.2	3984.3	3993.8	4003.2	3993.8	4005.1
7.5°	3948.4	3965.4	3973.0	3980.5	3999.4	4027.8	4050.5	4071.3	4060.0	4073.2
10°	4044.8	4058.1	4065.7	4065.7	4078.9	4111.1	4133.8	4171.6	4162.1	4183.0
12.5°	4220.8	4234.0	4234.0	4226.5	4235.9	4256.7	4264.3	4305.9	4288.9	4323.0
15°	4436.5	4462.9	4442.1	4428.9	4432.7	4453.5	4451.6	4483.8	4466.7	4495.1
17.5°	4674.8	4708.9	4674.8	4672.9	4665.4	4688.1	4690.0	4718.4	4688.1	4708.9
20°	4956.7	5004.0	4975.6	4985.1	4968.1	4977.5	4987.0	5028.6	4981.3	4996.5
22.5°	5354.0	5410.8	5380.5	5416.5	5405.1	5397.5	5395.6	5469.4	5395.6	5401.3
25°	5932.9	6001.0	5948.1	5997.3	5997.3	6021.9	6050.2	6144.8	6021.9	5985.9
27.5°	6788.1	6856.2	6752.1	6782.4	6772.9	6833.5	6803.2	7037.8	6905.4	6846.7
30°	7817.3	7938.3	7741.6	7734.0	7724.6	7821.0	7864.6	8019.7	7885.4	7826.7
32.5°	8929.7	9056.4	8821.8	8753.7	8717.8	8776.4	8740.5	8865.4	8772.7	8681.8
35°	10106.4	10231.3	10008.1	9875.6	9731.8	9608.9	9480.2	9512.4	9425.4	9287.2
37.5°	11218.9	11447.8	11211.3	11069.4	10804.5	10564.3	10204.8	10055.4	9974.0	9847.2
40°	12352.1	12482.6	12302.9	12181.8	11894.3	11517.8	10942.6	10626.7	10517.0	10394.0
42.5°	13186.4	13311.3	13214.8	13131.6	12906.4	12469.4	11725.9	11330.5	11171.6	11033.5
45°	13848.6	13941.3	13880.7	13911.0	13814.5	13390.7	12537.5	12085.3	11920.7	11752.4
47.5°	14115.3	14213.7	14310.2	14489.9	14654.5	14342.4	13409.7	12902.6	12728.6	12556.4
50°	14085.1	14185.3	14465.3	14847.5	15358.3	15254.2	14329.1	13772.9	13612.1	13415.3
52.5°	13842.9	13956.4	14315.9	14951.5	15765.1	15937.2	15265.6	14671.5	14520.2	14285.6
55°	13207.2	13275.3	13814.5	14715.1	15861.5	16414.0	16183.2	15628.8	15477.5	15150.2
57.5°	12028.6	12127.0	12912.1	14077.5	15619.4	16737.5	16989.1	16635.3	16489.6	16018.6
60°	10490.5	10647.5	11546.2	13006.7	15002.6	16735.6	17721.3	17624.8	17503.7	16873.7
62.5°	8750.0	8931.6	9796.2	11493.2	13924.3	16260.7	18179.1	18453.4	18391.0	17662.6
65°	6720.0	6844.8	7705.6	9535.1	12246.2	15241.0	18232.1	19019.1	19030.4	18262.3
67.5°	4474.3	4833.8	5581.1	7155.1	9998.6	13574.3	17766.7	19111.8	19221.5	18468.6
70°	2183.2	2656.2	3388.4	4650.2	7155.1	11018.3	16550.2	18351.3	18595.3	17866.9
72.5°	906.2	1059.5	1458.6	2294.9	4107.3	7435.1	14105.9	16289.1	16741.3	15831.3
75°	611.1	662.2	834.3	1176.8	1871.1	3666.5	10172.6	12145.9	12874.3	11956.7
77.5°	471.1	503.2	607.3	823.0	1112.4	1386.7	5444.8	7319.7	7696.2	7124.8
80°	370.8	395.4	454.1	599.7	788.9	741.6	1855.9	3316.5	3534.0	2964.6
82.5°	321.6	331.1	325.4	406.8	524.1	433.2	609.2	1224.0	1350.8	980.0
85°	232.7	259.2	270.5	251.6	278.1	219.5	249.7	433.2	476.8	425.7
87.5°	94.6	140.0	172.2	162.7	102.2	62.4	77.6	126.8	145.7	158.9
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°
3993.8	0°	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8	3993.8
3995.7	2.5°	3997.5	4010.8	4020.2	4031.6	4039.2	4050.5	4073.2	4086.5	4088.4	4097.8
4025.9	5°	4033.5	4052.4	4073.2	4103.5	4137.5	4165.9	4209.4	4239.7	4251.1	4260.5
4099.7	7.5°	4111.1	4137.5	4175.4	4228.4	4277.5	4315.4	4368.4	4404.3	4440.2	4453.5
4217.0	10°	4226.5	4264.3	4319.2	4391.1	4444.0	4493.2	4548.1	4578.4	4614.3	4629.4
4357.0	12.5°	4370.2	4410.0	4481.9	4582.1	4631.3	4665.4	4684.3	4676.7	4684.3	4697.5
4525.4	15°	4534.8	4578.4	4659.7	4767.5	4801.6	4771.3	4729.7	4691.9	4686.2	4690.0
4729.7	17.5°	4729.7	4761.9	4856.5	4947.3	4922.7	4797.8	4707.0	4646.5	4616.2	4606.7
4990.8	20°	5002.1	5002.1	5079.7	5136.5	4971.9	4760.0	4618.1	4519.7	4457.3	4430.8
5346.5	22.5°	5333.2	5302.9	5352.1	5312.4	4962.4	4654.0	4457.3	4287.0	4192.4	4154.6
5844.0	25°	5753.2	5717.3	5704.0	5458.1	4894.3	4485.7	4165.9	3959.7	3876.5	3855.7
6561.0	27.5°	6387.0	6296.2	6124.0	5537.5	4769.4	4220.8	3825.4	3634.3	3587.0	3588.9
7482.4	30°	7230.8	7049.2	6627.3	5550.8	4565.1	3846.2	3477.3	3341.1	3318.4	3327.8
8256.2	32.5°	8012.1	7840.0	7141.9	5490.2	4251.1	3479.2	3165.1	3074.3	3040.3	3051.6
8846.4	35°	8625.1	8577.8	7618.6	5405.1	3865.1	3134.8	2885.1	2807.6	2741.3	2726.2
9402.7	37.5°	9204.0	9185.1	7976.2	5285.9	3483.0	2890.8	2660.0	2557.8	2461.3	2408.4
10017.5	40°	9839.7	9820.8	8210.8	5102.4	3144.3	2678.9	2457.6	2323.2	2204.0	2107.6
10713.7	42.5°	10554.8	10443.2	8322.4	4839.4	2856.7	2499.2	2293.0	2111.3	1954.3	1865.4
11500.8	45°	11336.2	11084.5	8320.5	4504.6	2614.6	2334.6	2117.0	1859.7	1714.0	1630.8
12308.6	47.5°	12164.8	11697.5	8218.3	4133.8	2380.0	2153.0	1844.6	1647.8	1551.3	1500.3
13186.4	50°	13019.9	12270.7	8044.3	3708.1	2139.7	1946.7	1674.3	1540.0	1466.2	1418.9
14056.7	52.5°	13824.0	12791.0	7834.3	3225.7	1895.7	1746.2	1598.6	1494.6	1417.0	1364.0
14900.5	55°	14571.3	13239.4	7537.3	2731.9	1697.0	1611.9	1562.7	1475.7	1386.7	1324.3
15757.5	57.5°	15235.3	13530.7	7024.6	2268.4	1555.1	1519.2	1524.9	1443.5	1341.3	1288.4
16601.3	60°	15787.8	13744.5	6265.9	1838.9	1439.7	1428.4	1466.2	1383.0	1263.8	1203.2
17314.5	62.5°	16118.8	13740.7	5335.1	1505.9	1341.3	1345.1	1388.6	1307.3	1186.2	1129.5
17687.2	65°	16090.5	13404.0	4313.5	1288.4	1246.8	1250.5	1307.3	1224.0	1121.9	1087.8
17499.9	67.5°	15521.0	12582.9	3308.9	1146.5	1142.7	1159.7	1225.9	1167.3	1082.2	1078.4
16383.7	70°	13979.1	10878.3	2383.8	1033.0	1034.9	1059.5	1146.5	1131.3	1061.3	1068.9
13774.8	72.5°	11209.4	8294.0	1600.5	913.8	915.7	955.4	1070.8	1103.0	1040.5	1140.8
9773.5	75°	7465.4	5172.4	1029.2	787.0	788.9	840.0	1004.6	1048.1	983.8	1137.0
5085.4	77.5°	3587.0	2325.1	745.4	662.2	662.2	709.5	868.4	938.4	838.1	883.5
1634.6	80°	1239.2	874.0	586.5	533.5	522.2	554.3	732.2	813.5	722.7	665.9
533.5	82.5°	488.1	454.1	471.1	414.3	376.5	397.3	569.5	671.6	531.6	480.5
300.8	85°	280.0	295.1	333.0	274.3	217.6	244.1	418.1	482.4	401.1	353.8
98.4	87.5°	75.7	104.1	153.2	141.9	98.4	104.1	198.6	266.8	230.8	177.8
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°
3993.8
4095.9
4258.6
4455.4
4637.0
4701.3
4703.2
4620.0
4425.1
4148.9
3859.4
3594.6
3360.0
3066.7
2737.6
2410.3
2117.0
1871.1
1627.0
1488.9
1401.9
1341.3
1299.7
1254.3
1176.8
1112.4
1085.9
1084.0
1067.0
1155.9
1146.5
809.7
624.3
478.6
361.3
183.5
0.0

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