

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: P954993

Luminaire Tested: **GALN-SB8A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31480 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

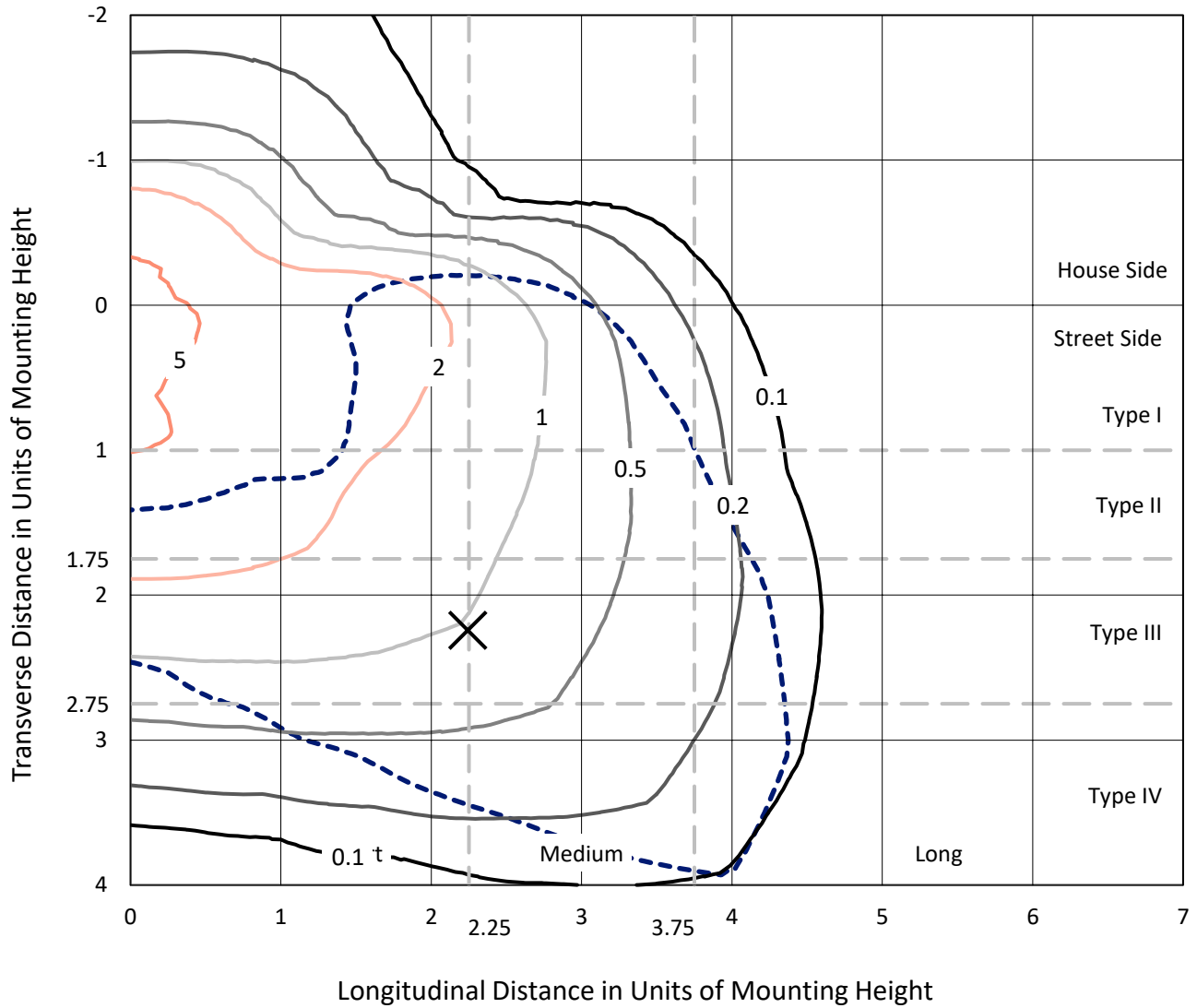
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

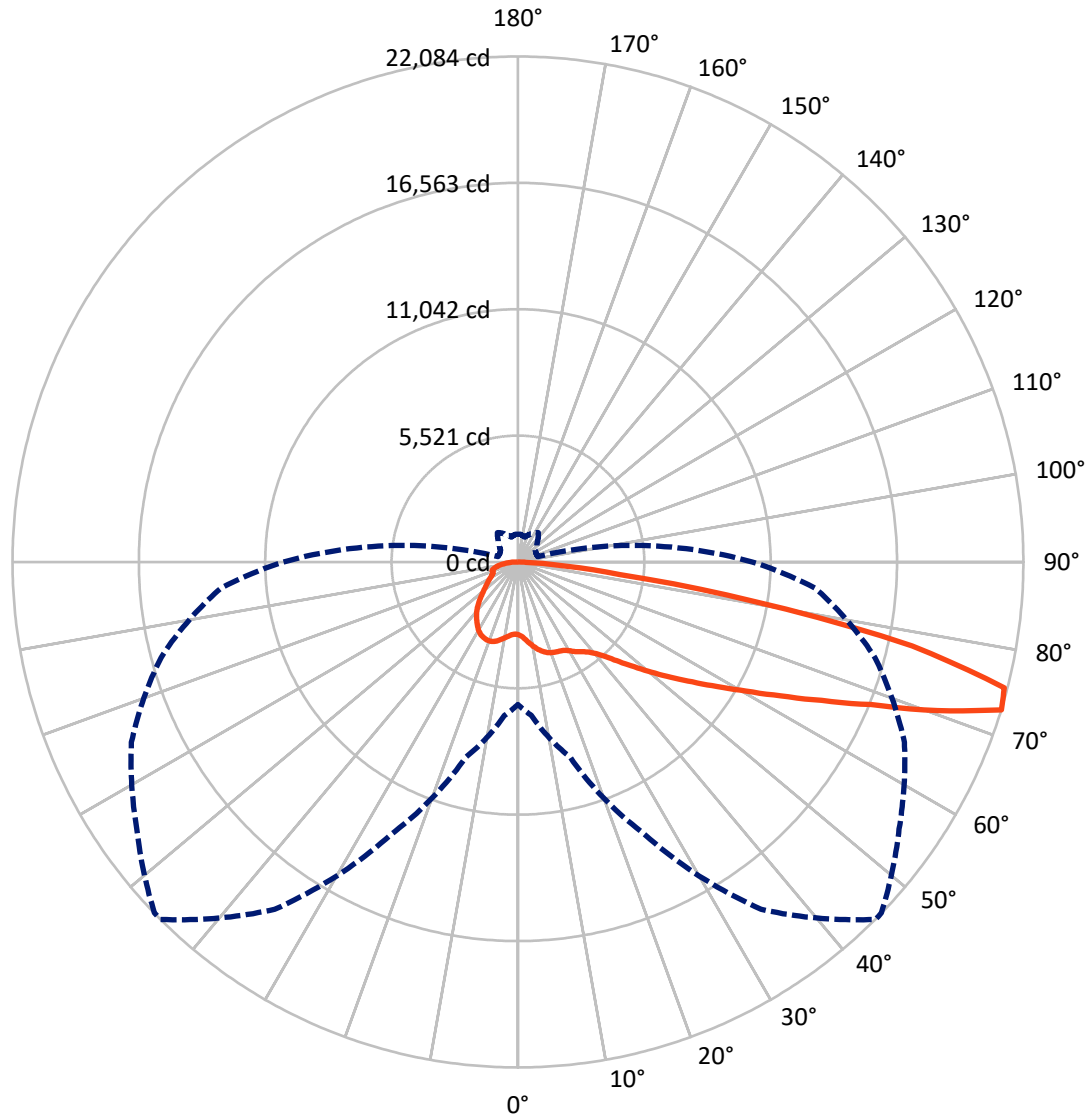
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7116.5	0.0	7116.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24363.4	0.0	24363.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	31480.0	0.0	31480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	1.0
10°-20°	1077.7	3.4
20°-30°	1874.7	6.0
30°-40°	2687.5	8.5
40°-50°	3784.1	12.0
50°-60°	5796.1	18.4
60°-70°	8396.5	26.7
70°-80°	6705.1	21.3
80°-90°	835.1	2.7
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°	31480.0	100.0
0°-180°	31480.0	100.0

Coefficient of Utilization



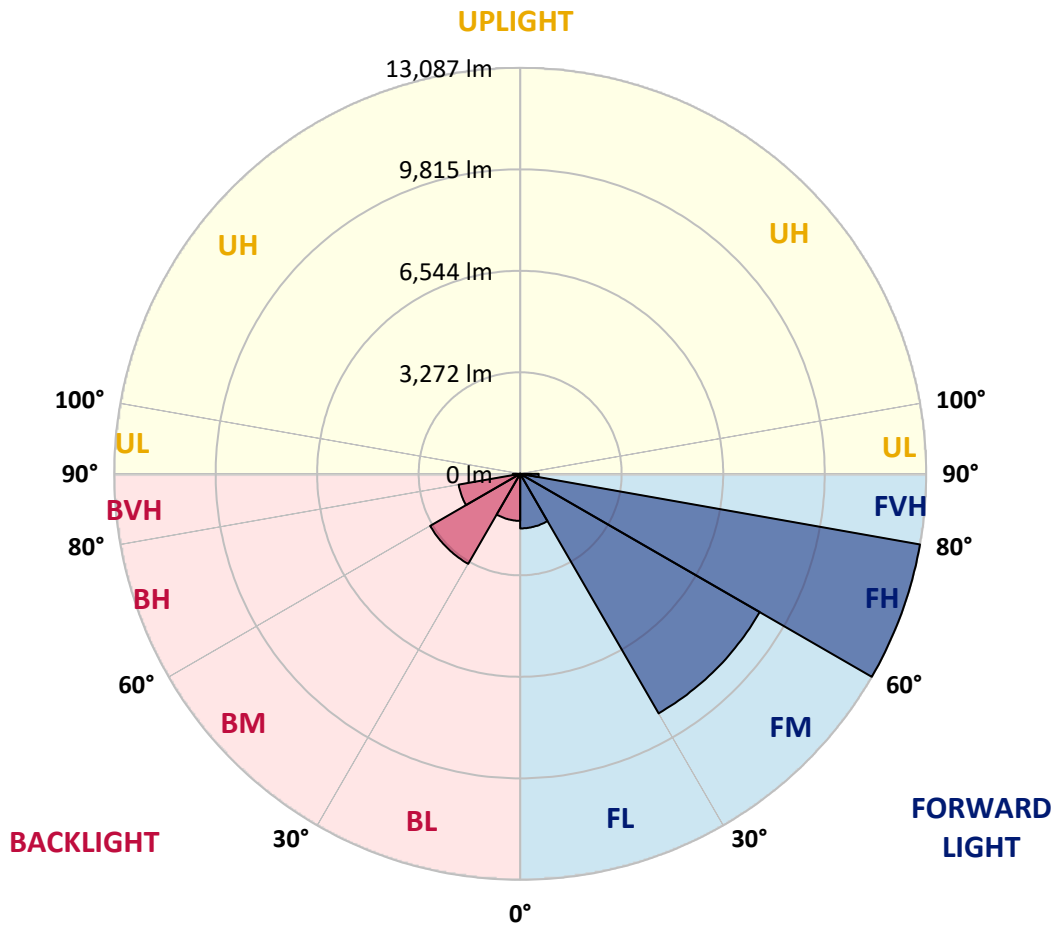
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.4	5.6			
FM (30°-60°)	8916.8	28.3			
FH (60°-80°)	13087.2	41.6			G5
FVH (80°-90°)	599.1	1.9			G4/750
BL (0°-30°)	1515.2	4.8	B3/2500		
BM (30°-60°)	3350.9	10.6	B3/5000		
BH (60°-80°)	2014.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	236.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7
2.5°	3300.1	3321.7	3301.8	3283.5	3275.2	3253.7	3252.0	3238.7	3230.4	3207.2
5°	3530.6	3558.8	3525.6	3489.1	3456.0	3402.9	3396.3	3358.1	3315.0	3265.3
7.5°	3791.0	3815.8	3777.7	3723.0	3664.9	3577.0	3575.4	3505.7	3437.7	3353.2
10°	4018.2	4051.3	3999.9	3925.3	3852.3	3752.8	3741.2	3661.6	3575.4	3465.9
12.5°	4218.8	4242.0	4192.3	4101.1	4016.5	3917.0	3902.1	3814.2	3718.0	3593.6
15°	4378.0	4407.9	4341.5	4243.7	4154.1	4056.3	4043.0	3963.4	3867.2	3736.2
17.5°	4482.5	4507.4	4439.4	4329.9	4243.7	4162.4	4152.5	4086.1	4001.6	3868.9
20°	4522.3	4548.8	4477.5	4366.4	4286.8	4223.8	4218.8	4170.7	4112.7	3991.6
22.5°	4562.1	4587.0	4494.1	4378.0	4308.4	4268.6	4266.9	4235.4	4212.2	4112.7
25°	4722.9	4729.6	4605.2	4437.7	4338.2	4303.4	4301.7	4300.1	4310.0	4232.1
27.5°	4862.3	4860.6	4754.5	4596.9	4442.7	4369.7	4368.1	4384.6	4416.2	4351.5
30°	5066.2	5048.0	4922.0	4757.8	4616.8	4504.0	4494.1	4479.2	4504.0	4452.6
32.5°	5499.1	5441.0	5237.0	4945.2	4761.1	4674.9	4661.6	4568.7	4578.7	4547.2
35°	6119.3	6043.0	5771.0	5300.1	4940.2	4817.5	4810.8	4693.1	4673.2	4645.0
37.5°	6857.2	6762.7	6446.0	5814.1	5248.6	4983.3	4973.4	4867.2	4786.0	4756.1
40°	7598.5	7479.1	7217.1	6441.0	5703.0	5260.3	5228.7	5067.9	4975.0	4925.3
42.5°	8318.2	8218.7	7994.9	7144.1	6263.5	5664.9	5595.2	5320.0	5250.3	5203.9
45°	8955.0	8865.5	8701.3	7895.4	6920.2	6215.5	6147.5	5698.1	5676.5	5676.5
47.5°	9472.4	9452.5	9278.4	8661.5	7694.7	6842.3	6724.6	6223.7	6281.8	6371.3
50°	10046.2	9991.5	9805.8	9416.0	8605.1	7560.4	7464.2	6868.8	7086.1	7331.5
52.5°	10573.6	10603.4	10396.1	10202.1	9633.3	8361.3	8192.2	7630.0	8099.3	8505.6
55°	11115.8	11117.5	11059.5	11032.9	10711.2	9246.9	9061.2	8545.4	9291.7	9795.8
57.5°	11625.0	11628.3	11714.5	11948.3	11961.6	10268.4	10057.8	9669.8	10616.7	11130.8
60°	12079.3	12102.6	12338.0	12885.3	13061.1	11439.2	11240.2	10998.1	11986.5	12503.9
62.5°	12231.9	12316.5	12840.5	13618.3	14147.3	12875.3	12679.7	12535.4	13425.9	13906.8
65°	11973.2	12167.2	13180.5	14223.6	15265.0	14581.8	14387.7	14230.2	14921.7	15374.5
67.5°	11338.1	11588.5	13160.6	14858.7	16621.5	16634.8	16454.0	16084.2	16525.3	16699.5
70°	9664.8	10039.6	12001.4	15095.9	18178.7	19442.4	19268.2	18316.4	18125.6	17283.2
72.5°	6227.1	6731.2	8837.3	13144.0	18525.3	22084.1	22074.2	20331.2	18631.4	16148.9
75°	2271.9	2580.4	4106.0	8250.2	15550.2	21949.8	22014.5	19986.3	17007.9	12474.0
77.5°	827.5	905.5	1339.9	3170.7	9563.6	17611.6	17745.9	15978.1	12105.9	6260.2
80°	434.5	477.6	686.6	1230.5	4097.8	10459.1	10669.8	9495.6	5689.8	1885.5
82.5°	240.5	260.4	384.7	668.3	1845.7	4472.5	4598.6	3751.2	2001.6	799.3
85°	129.4	137.6	180.8	364.8	902.1	1550.5	1585.4	1121.0	797.7	469.3
87.5°	38.1	46.4	59.7	116.1	353.2	348.3	356.5	222.2	315.1	237.1
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°
3175.7	0°	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7	3175.7
3200.6	2.5°	3190.6	3185.7	3167.4	3159.1	3149.2	3147.5	3155.8	3157.5	3159.1	3160.8
3237.1	5°	3220.5	3203.9	3187.3	3177.4	3180.7	3182.4	3198.9	3210.5	3218.8	3225.5
3305.1	7.5°	3278.5	3265.3	3237.1	3235.4	3240.4	3255.3	3276.9	3303.4	3318.3	3329.9
3393.0	10°	3364.8	3339.9	3306.7	3311.7	3321.7	3343.2	3388.0	3409.5	3434.4	3456.0
3500.8	12.5°	3452.7	3431.1	3393.0	3396.3	3412.9	3451.0	3494.1	3520.7	3537.2	3553.8
3616.8	15°	3567.1	3528.9	3487.5	3487.5	3517.3	3558.8	3578.7	3600.3	3610.2	3628.4
3741.2	17.5°	3684.8	3635.1	3580.4	3577.0	3613.5	3633.4	3645.0	3648.3	3651.7	3671.6
3862.3	20°	3802.6	3747.8	3669.9	3663.3	3671.6	3668.2	3666.6	3663.3	3668.2	3693.1
3986.6	22.5°	3918.7	3855.6	3747.8	3718.0	3694.8	3663.3	3661.6	3660.0	3663.3	3688.1
4121.0	25°	4054.6	3978.4	3834.1	3744.5	3666.6	3623.5	3628.4	3630.1	3633.4	3653.3
4260.3	27.5°	4202.2	4117.7	3913.7	3736.2	3595.3	3565.4	3557.1	3562.1	3573.7	3605.2
4399.6	30°	4349.8	4250.3	3986.6	3703.1	3505.7	3464.3	3437.7	3449.3	3485.8	3517.3
4520.6	32.5°	4484.1	4384.6	4044.7	3630.1	3391.3	3326.6	3291.8	3306.7	3343.2	3354.8
4655.0	35°	4641.7	4528.9	4069.6	3514.0	3266.9	3167.4	3121.0	3099.4	3117.7	3106.1
4812.5	37.5°	4817.5	4699.7	4066.2	3361.5	3121.0	3006.6	2941.9	2860.6	2822.5	2782.7
5044.7	40°	5077.8	4908.7	4026.4	3177.4	2940.2	2835.8	2719.7	2582.0	2495.8	2417.9
5419.5	42.5°	5432.7	5198.9	3953.5	2975.1	2736.3	2638.4	2480.9	2320.0	2184.0	2054.7
5988.3	45°	5961.7	5578.7	3862.3	2759.5	2515.7	2419.5	2248.7	2067.9	1913.7	1747.9
6795.9	47.5°	6724.6	6089.4	3776.0	2514.0	2283.5	2195.6	2041.4	1873.9	1691.5	1530.6
7963.3	50°	7772.6	6822.4	3696.4	2275.2	2054.7	1988.3	1865.6	1694.8	1510.7	1381.4
9331.5	52.5°	9105.9	7819.1	3663.3	2044.7	1840.8	1815.9	1718.0	1558.8	1384.7	1275.3
10926.8	55°	10636.6	9011.4	3663.3	1824.2	1653.4	1661.7	1593.7	1446.1	1295.2	1197.3
12571.9	57.5°	12198.7	10218.7	3596.9	1620.2	1494.2	1529.0	1485.9	1356.5	1220.5	1119.4
14301.5	60°	13638.2	11230.3	3328.3	1434.5	1353.2	1407.9	1379.7	1268.6	1102.8	1018.2
15747.6	62.5°	14744.3	11800.7	2810.9	1286.9	1237.1	1300.1	1285.2	1152.5	1081.2	1046.4
16935.0	65°	15298.2	11707.9	2149.2	1155.9	1139.3	1237.1	1205.6	1200.6	1144.3	1104.5
17321.4	67.5°	14958.2	10908.6	1558.8	1059.7	1082.9	1179.1	1300.1	1320.0	1215.6	1137.6
16233.5	70°	13467.4	9462.5	1160.8	968.5	1011.6	1180.7	1482.6	1381.4	1192.3	1101.1
13019.6	72.5°	10245.2	7056.2	900.5	872.3	918.7	1189.0	1563.8	1353.2	1126.0	1217.2
8110.9	75°	5858.9	3873.9	723.0	754.5	802.6	1111.1	1522.4	1280.2	1074.6	1117.7
3213.9	77.5°	2233.8	1489.2	597.0	638.5	645.1	970.1	1456.0	1275.3	1023.2	998.3
963.5	80°	774.4	582.1	494.2	507.5	499.2	862.3	1396.3	1109.4	837.5	749.6
398.0	82.5°	316.7	290.2	391.4	374.8	354.9	670.0	1127.7	907.1	684.9	605.3
192.4	85°	137.6	184.1	258.7	227.2	205.6	464.3	903.8	767.8	578.8	499.2
63.0	87.5°	28.2	69.7	109.5	102.8	106.1	310.1	641.8	545.6	409.6	306.8
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°
3175.7
3167.4
3228.8
3333.3
3451.0
3560.5
3635.1
3678.2
3703.1
3704.7
3679.9
3636.7
3552.2
3396.3
3142.6
2807.6
2422.8
2043.1
1728.0
1512.4
1373.1
1267.0
1187.4
1102.8
1005.0
1034.8
1091.2
1124.4
1086.2
1207.3
1117.7
910.4
724.7
598.7
497.5
240.5
0.0

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