

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: P956220

Luminaire Tested: **GALN-SB8D-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58275 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

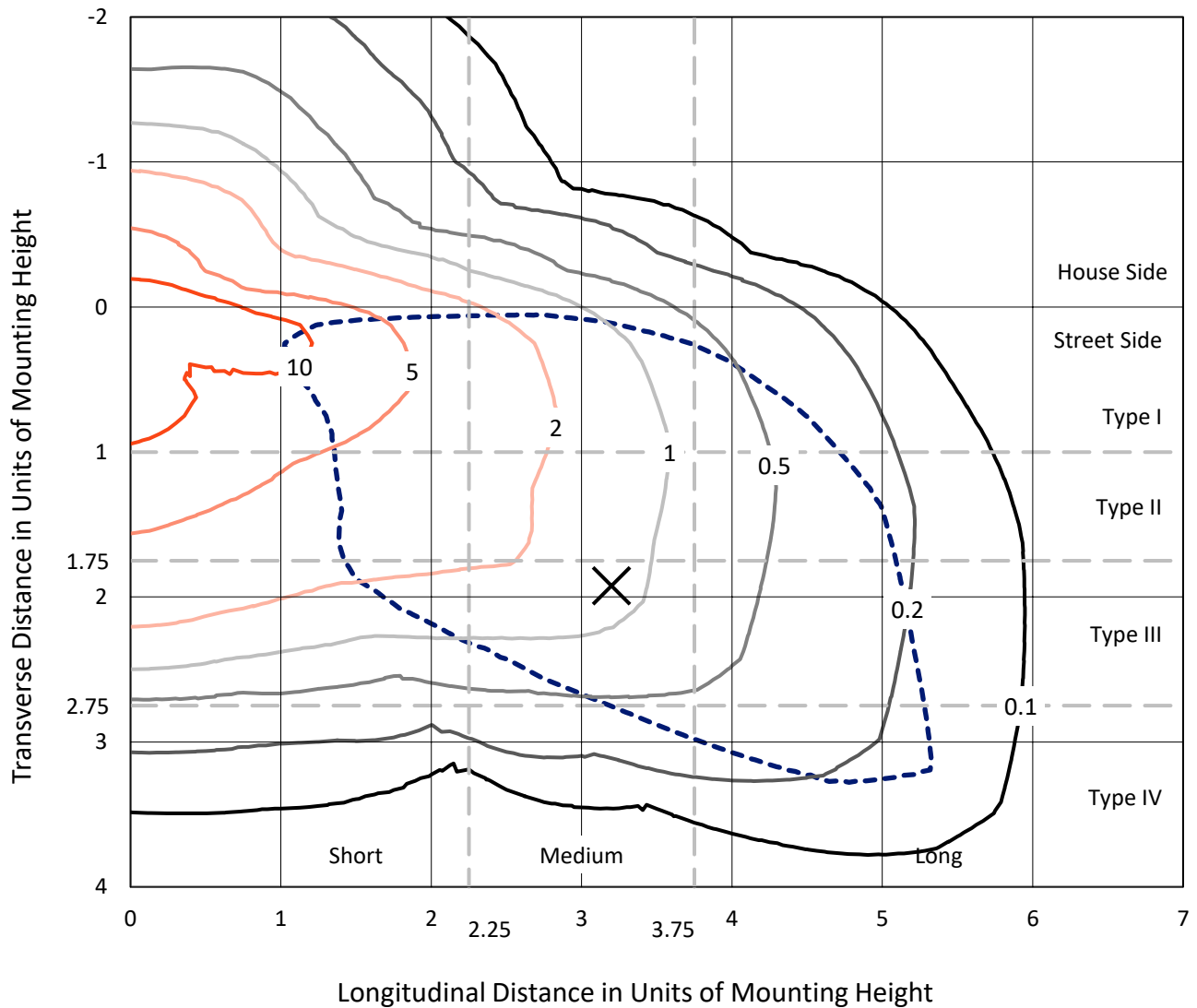
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

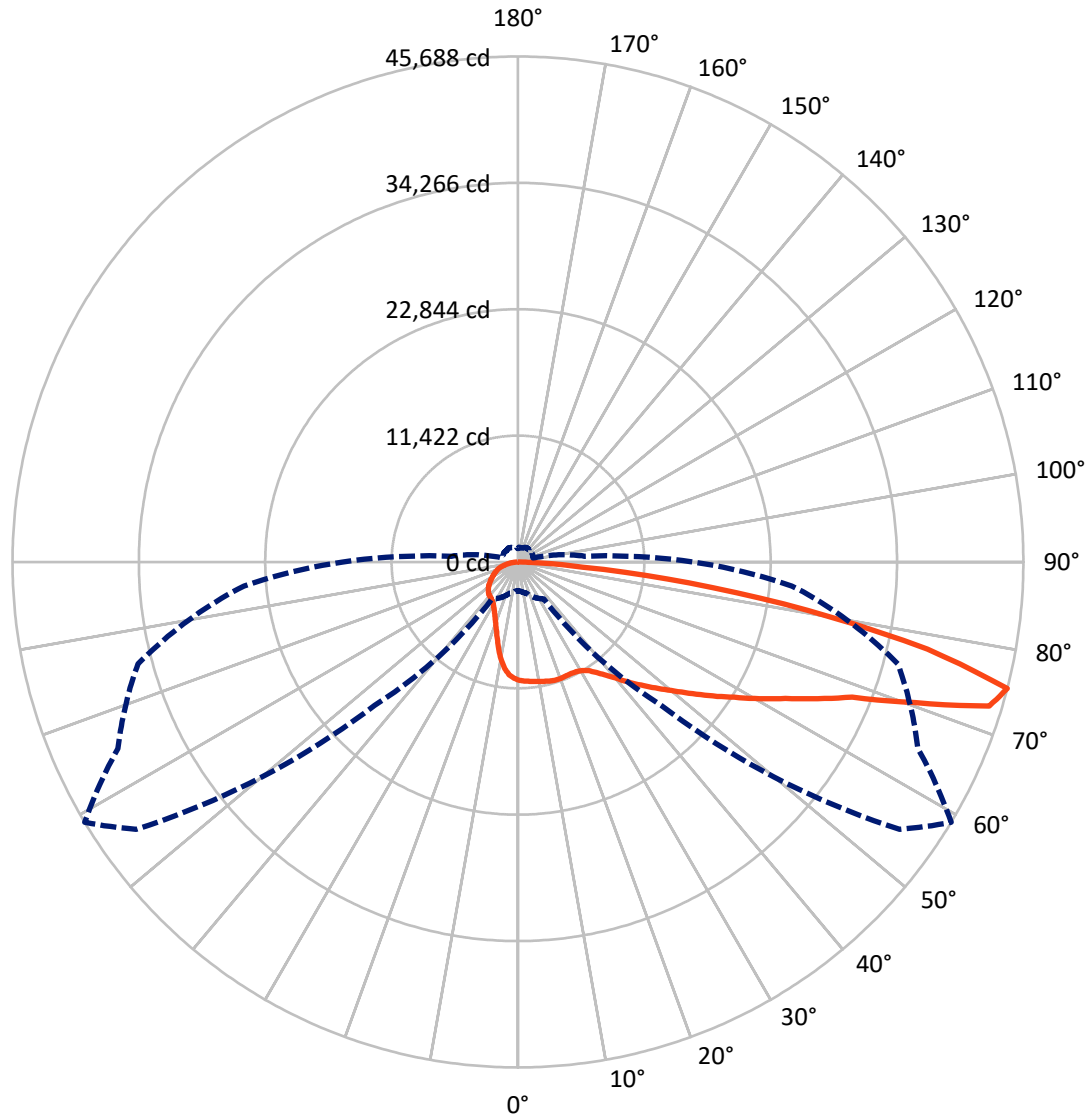
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10929.9	0.0	10929.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47345.1	0.0	47345.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	58275.0	0.0	58275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.1	1.6
10°-20°	2451.5	4.2
20°-30°	3723.6	6.4
30°-40°	5535.1	9.5
40°-50°	8231.6	14.1
50°-60°	11173.5	19.2
60°-70°	13641.0	23.4
70°-80°	10705.2	18.4
80°-90°	1854.4	3.2
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°	58275.0	100.0
0°-180°	58275.0	100.0

Coefficient of Utilization



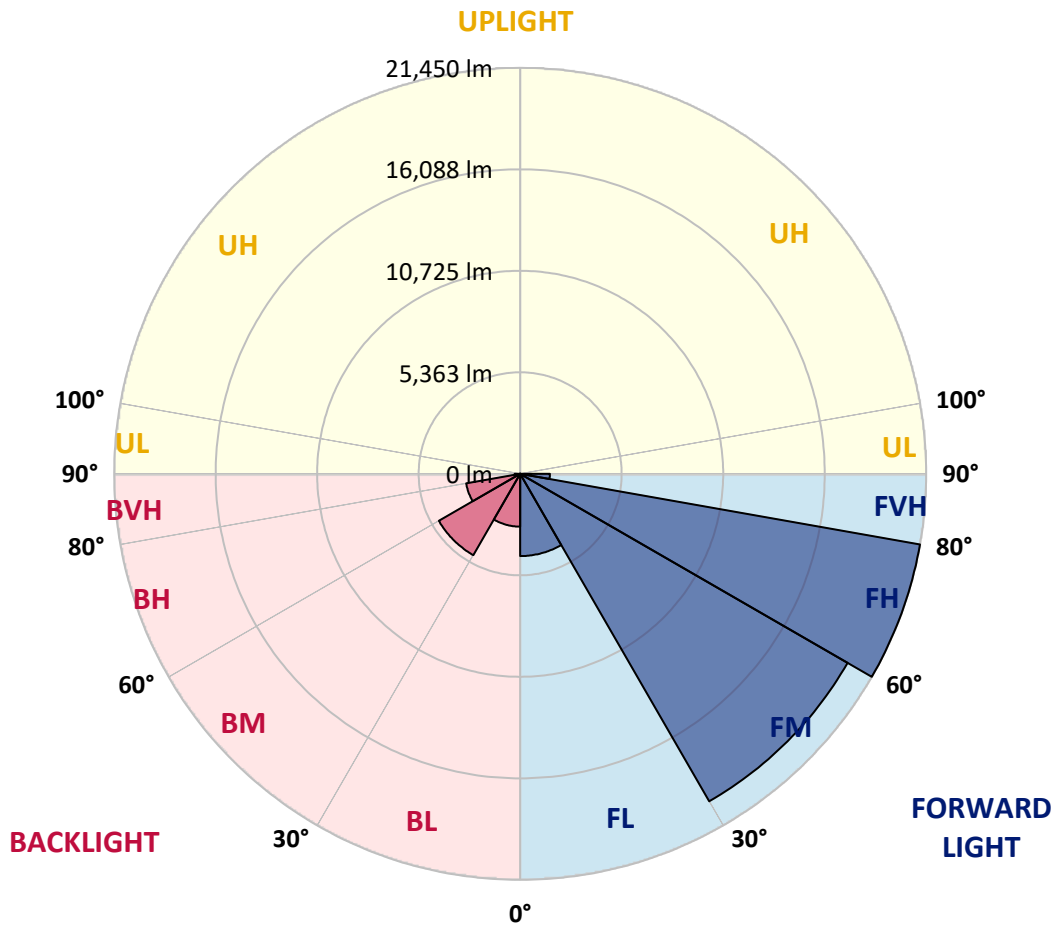
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4345.0	7.5			
FM (30°-60°)	19979.1	34.3			
FH (60°-80°)	21450.5	36.8			G5
FVH (80°-90°)	1570.5	2.7			G5
BL (0°-30°)	2789.2	4.8	B4/5000		
BM (30°-60°)	4961.1	8.5	B3/5000		
BH (60°-80°)	2895.7	5.0	B4/5000		G4/5000
BVH (80°-90°)	283.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2
2.5°	10787.2	10749.5	10787.2	10771.5	10765.2	10752.7	10755.8	10777.8	10765.2	10780.9
5°	10715.1	10693.1	10730.7	10721.3	10762.1	10768.3	10809.1	10834.2	10849.9	10853.0
7.5°	10595.9	10574.0	10627.3	10671.2	10758.9	10784.0	10868.7	10909.4	10931.4	10969.0
10°	10160.2	10150.8	10282.4	10448.6	10655.5	10784.0	10912.6	10981.5	11016.0	11116.3
12.5°	9389.0	9401.5	9574.0	9893.7	10307.5	10721.3	10962.7	11063.0	11116.3	11241.7
15°	8652.3	8649.2	8837.3	9179.0	9758.9	10445.5	10987.8	11160.2	11251.1	11436.1
17.5°	8226.0	8213.4	8345.1	8605.3	9144.5	10022.2	10925.1	11213.5	11407.9	11639.8
20°	8147.6	8122.5	8191.5	8320.0	8702.5	9558.3	10762.1	11213.5	11533.3	11834.2
22.5°	8432.9	8392.1	8363.9	8348.2	8517.5	9175.8	10577.1	11175.9	11718.2	12113.2
25°	9006.5	8943.8	8799.6	8658.6	8608.4	9003.4	10414.1	11166.5	11994.1	12489.4
27.5°	9934.5	9856.1	9564.6	9226.0	8921.9	9091.2	10342.0	11222.9	12298.2	12887.5
30°	11085.0	11000.3	10633.5	10113.2	9567.7	9417.2	10432.9	11389.1	12686.9	13417.3
32.5°	12116.4	12022.3	11708.8	11179.0	10442.3	9981.5	10721.3	11705.7	13298.2	14154.0
35°	13031.7	12922.0	12639.9	12150.8	11514.5	10774.6	11241.7	12266.8	14166.6	15351.6
37.5°	13928.3	13799.8	13492.6	12975.3	12530.2	11831.1	11959.6	12987.9	15320.2	16806.1
40°	14931.5	14746.5	14373.5	13862.5	13429.9	13069.4	12903.2	13871.9	16492.7	18430.0
42.5°	15903.3	15727.7	15282.6	14846.8	14304.5	14201.1	13997.3	14906.4	17774.8	20213.8
45°	16950.4	16740.3	16201.1	15649.4	15307.7	14953.4	15056.9	15940.9	19031.9	22032.0
47.5°	17931.6	17696.5	17060.1	16445.6	16257.5	15586.7	16028.7	17078.9	20339.2	23875.3
50°	18461.4	18229.4	17699.6	17144.7	16997.4	16367.3	17082.0	18329.7	21709.1	25712.4
52.5°	18903.4	18652.6	17959.8	17652.6	17608.7	17216.8	18379.9	19759.2	23079.1	27336.2
55°	19373.6	19094.6	18210.6	17934.7	18135.3	18169.8	19919.1	21380.0	24527.4	28919.4
57.5°	19916.0	19561.7	18452.0	18173.0	18649.5	19285.8	21687.2	23060.3	25950.6	30386.5
60°	20426.9	20069.6	18915.9	18552.3	19204.3	20580.6	23715.4	25094.8	27562.0	31693.7
62.5°	20527.3	20232.6	19285.8	19282.7	19956.7	22091.6	26116.8	27148.2	28969.5	32985.3
65°	18790.5	18605.6	18044.4	19254.5	21035.1	24267.2	28790.8	29775.2	30759.5	34113.9
67.5°	14301.4	14326.4	14285.7	16621.2	20163.6	27392.7	32662.4	32587.2	32969.6	35380.4
70°	6539.4	6686.7	7646.0	11473.7	16154.1	27753.2	39063.9	38088.9	35744.0	37019.9
72.5°	3533.0	3645.9	4037.7	5558.2	9711.9	24674.7	43847.7	44540.5	39433.8	38123.4
75°	2592.6	2655.3	2928.0	3533.0	4078.5	18339.1	42132.9	45687.9	39894.6	35549.7
77.5°	1940.5	1968.7	2191.3	2799.5	2087.8	9668.0	33665.6	37838.1	34151.5	29207.8
80°	1407.6	1438.9	1605.1	2100.4	1464.0	3536.2	23116.7	26558.8	23389.4	18618.1
82.5°	971.8	984.4	1056.5	1429.5	1022.0	1373.1	13116.4	15574.1	13056.8	6533.1
85°	586.2	601.9	633.2	833.9	580.0	652.1	5661.6	5856.0	3902.9	1561.2
87.5°	241.4	257.1	282.1	351.1	228.8	181.8	934.2	1172.4	730.4	457.7
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°
10696.2	0°	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2	10696.2
10727.6	2.5°	10711.9	10690.0	10630.4	10548.9	10473.7	10379.6	10338.9	10304.4	10273.0	10213.5
10812.2	5°	10777.8	10718.2	10558.3	10351.4	10116.3	9859.2	9608.4	9436.0	9288.7	9179.0
10909.4	7.5°	10878.1	10765.2	10473.7	10050.5	9511.3	8959.5	8461.1	8106.8	7840.4	7743.2
11047.4	10°	10981.5	10846.7	10338.9	9592.8	8661.7	7812.1	7150.7	6787.0	6573.9	6504.9
11210.4	12.5°	11103.8	10906.3	10128.8	8956.4	7711.8	6780.8	6203.9	5990.8	5881.1	5843.4
11411.0	15°	11282.5	10956.4	9812.2	8160.1	6805.8	6028.4	5655.3	5508.0	5451.6	5448.4
11617.9	17.5°	11417.3	10965.8	9320.0	7307.4	6109.9	5573.8	5266.6	5210.2	5247.8	5304.2
11821.7	20°	11567.7	10881.2	8674.2	6530.0	5620.9	5175.7	5047.2	5084.8	5175.7	5257.2
12091.3	22.5°	11674.3	10727.6	7893.7	5924.9	5197.6	4946.9	4940.6	5019.0	5069.1	5109.9
12407.9	25°	11768.4	10467.4	7066.0	5417.1	4849.7	4808.9	4877.9	4852.8	4818.3	4852.8
12724.5	27.5°	11837.3	10056.7	6326.2	4971.9	4605.2	4714.9	4674.1	4617.7	4614.6	4633.4
13097.6	30°	11815.4	9508.1	5718.0	4548.7	4432.7	4539.3	4442.1	4432.7	4423.3	4432.7
13658.7	32.5°	11815.4	8884.3	5250.9	4257.2	4323.0	4282.3	4272.9	4250.9	4213.3	4210.2
14420.5	35°	11881.2	8260.4	4849.7	4100.4	4232.1	4134.9	4141.2	4087.9	4009.5	3971.9
15429.9	37.5°	12016.0	7758.9	4451.5	4025.2	4072.2	4069.1	4044.0	3953.1	3815.2	3696.0
16690.2	40°	12342.1	7611.5	4178.8	3990.7	3997.0	4034.6	3968.8	3793.2	3479.7	3285.4
17969.2	42.5°	12853.1	7859.2	4119.2	3906.1	3946.8	3984.4	3855.9	3448.4	3225.8	3109.8
19310.9	45°	13502.0	8291.8	4247.8	3783.8	3827.7	3893.5	3511.1	3316.7	3216.4	3219.5
20640.1	47.5°	14323.3	8746.3	4486.0	3677.2	3655.3	3692.9	3282.2	3163.1	3025.2	3059.7
21916.0	50°	15273.2	9207.2	4711.7	3533.0	3464.1	3341.8	3134.9	3022.0	2846.5	2765.0
23148.0	52.5°	16301.4	9652.3	4802.7	3357.5	3257.2	3116.1	3034.6	2896.6	2683.5	2548.7
24311.1	55°	17276.4	10056.7	4702.3	3147.4	3050.2	2940.5	2928.0	2843.3	2614.5	2426.4
25345.6	57.5°	18198.0	10395.3	4451.5	2934.3	2840.2	2774.4	2859.0	2818.3	2529.9	2288.5
26323.7	60°	18978.6	10627.3	4087.9	2718.0	2652.1	2617.6	2746.2	2733.6	2410.7	2141.1
27201.4	62.5°	19599.3	10718.2	3686.6	2511.0	2495.4	2432.7	2589.4	2589.4	2260.3	1996.9
27972.6	65°	20085.2	10630.4	3279.1	2307.3	2338.6	2244.6	2398.2	2379.4	2100.4	1868.4
28859.8	67.5°	20514.7	10342.0	2827.7	2106.6	2178.7	2059.6	2197.6	2153.7	1924.8	1739.9
29627.9	70°	20706.0	9671.1	2313.5	1906.0	1993.8	1877.8	1996.9	1915.4	1727.3	1601.9
28784.6	72.5°	19169.9	8037.9	1821.4	1696.0	1771.2	1677.2	1780.6	1686.6	1514.2	1457.7
24856.5	75°	15859.4	6031.5	1401.3	1467.1	1523.6	1451.5	1520.4	1451.5	1294.7	1335.5
18361.1	77.5°	11517.6	4072.2	1072.1	1225.7	1250.8	1213.2	1272.8	1194.4	1053.3	1043.9
9150.7	80°	5727.4	2385.7	840.2	968.7	959.3	934.2	1003.2	965.5	846.4	896.6
2470.3	82.5°	1658.4	1022.0	611.3	680.3	661.5	667.7	717.9	736.7	1103.5	1094.1
768.0	85°	520.4	401.3	366.8	379.3	360.5	369.9	423.2	840.2	777.5	454.6
238.3	87.5°	134.8	137.9	90.9	97.2	100.3	119.1	134.8	511.0	244.5	159.9
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>
10696.2
10185.3
9088.0
7573.9
6398.3
5852.8
5461.0
5326.2
5285.4
5131.8
4874.8
4664.7
4467.2
4250.9
4009.5
3736.8
3310.4
3109.8
3235.2
3147.4
2786.9
2545.5
2426.4
2275.9
2131.7
1987.5
1855.9
1727.3
1576.8
1410.7
1219.5
996.9
887.2
1119.2
492.2
169.3
0.0

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