

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: P955869

Luminaire Tested: **GALN-SB8C-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955869  
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-SB8C-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

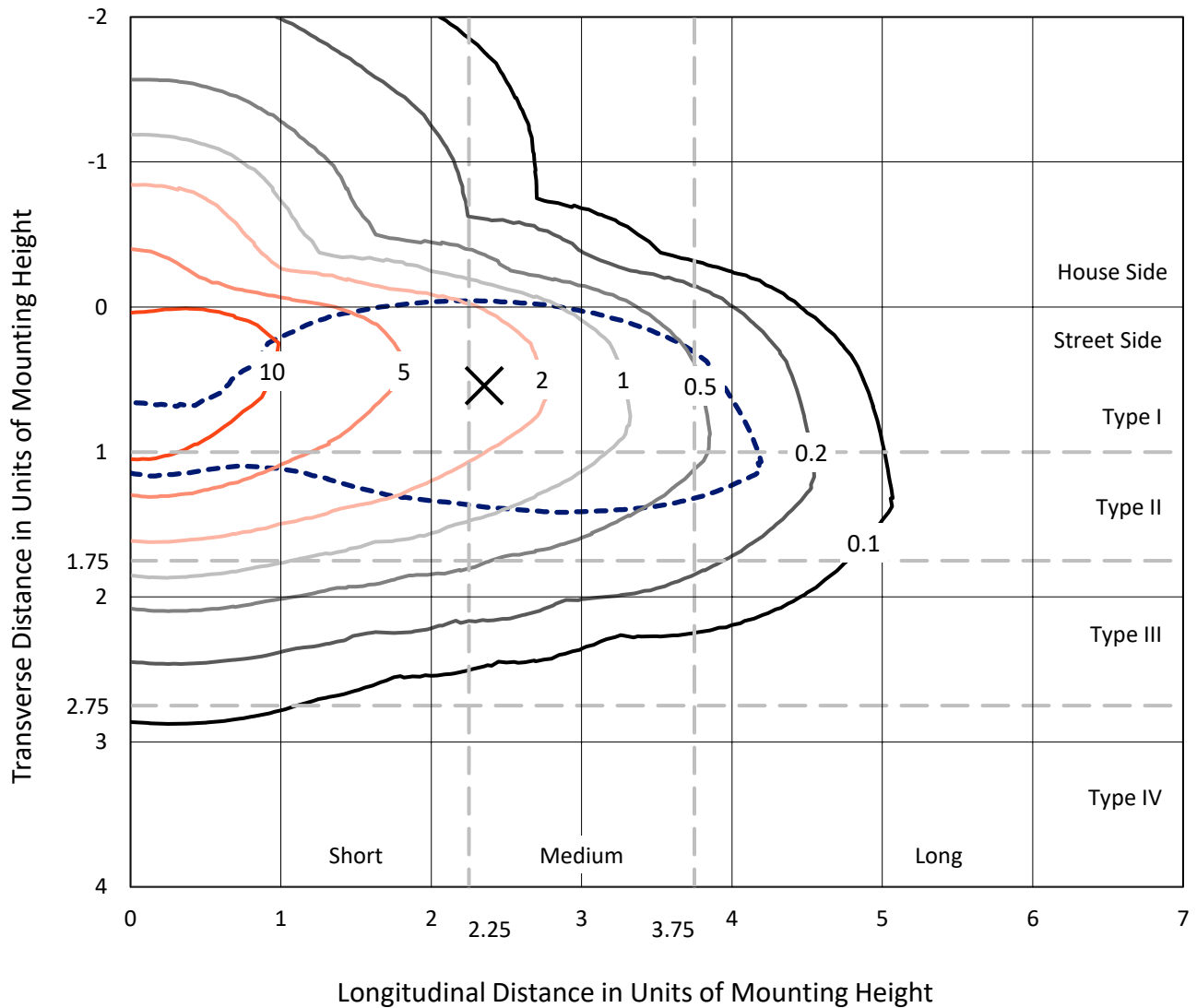
Lumens per Lamp: N/A  
Luminaire Lumens: 44697 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

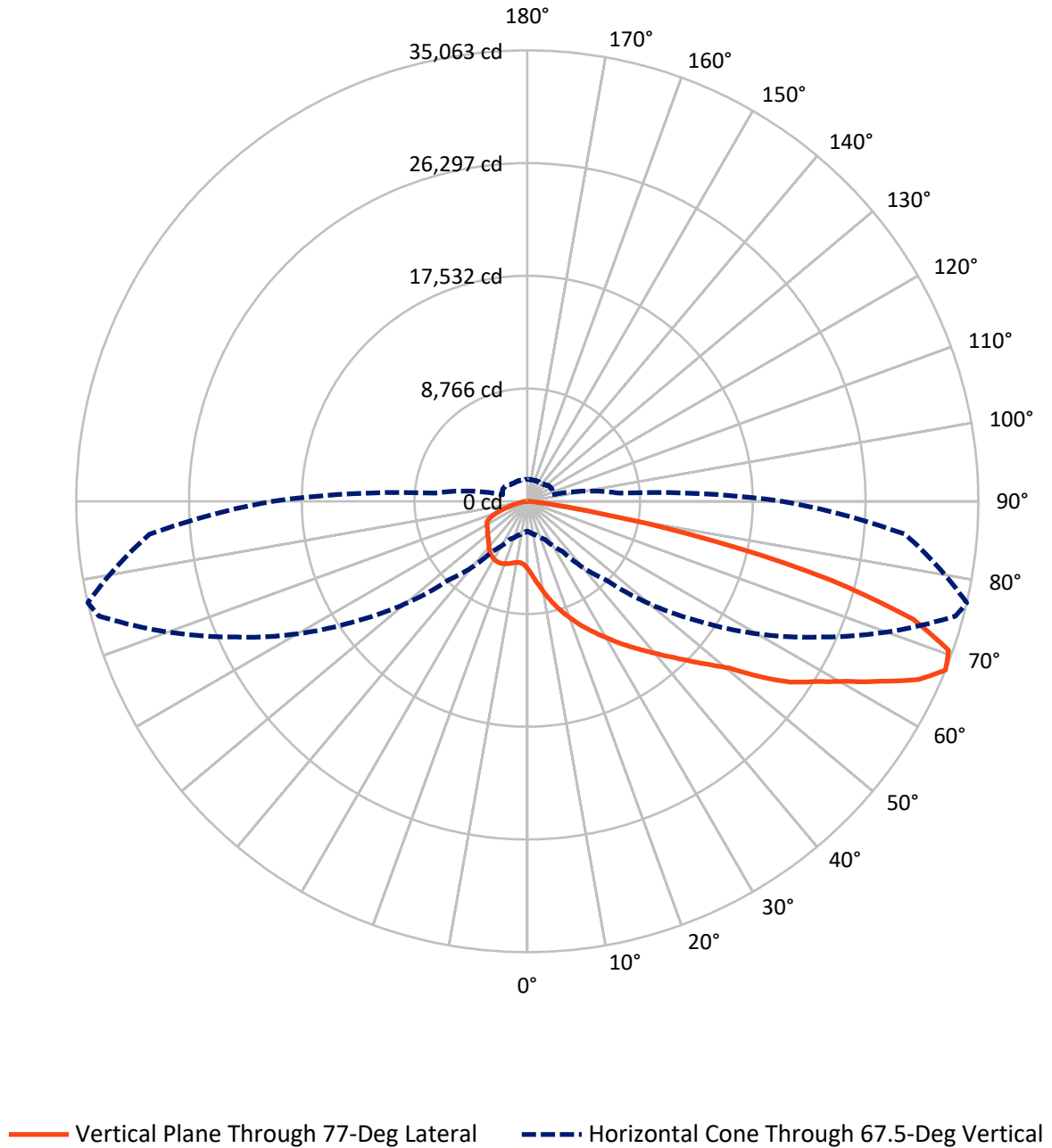
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8454.9	0.0	8454.9
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	36242.1	0.0	36242.1
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	44697.0	0.0	44697.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.1	1.3
10°-20°	2019.5	4.5
20°-30°	3813.0	8.5
30°-40°	6142.7	13.7
40°-50°	8402.0	18.8
50°-60°	9477.6	21.2
60°-70°	8846.1	19.8
70°-80°	4849.2	10.8
80°-90°	584.9	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°	44697.0	100.0
0°-180°	44697.0	100.0

**Coefficient of Utilization**



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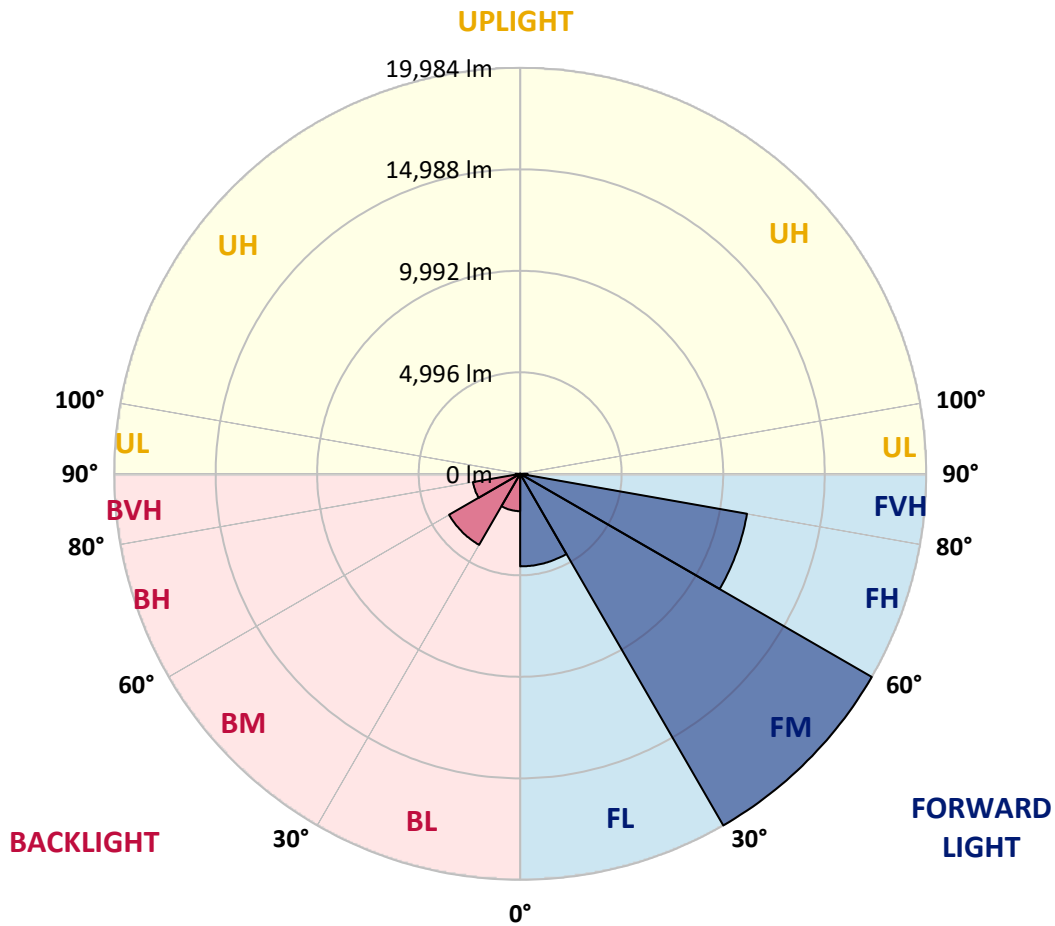
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4556.3	10.2			
FM (30°-60°)	19983.5	44.7			
FH (60°-80°)	11336.5	25.4			G4/12000
FVH (80°-90°)	365.8	0.8			G3/500
BL (0°-30°)	1838.3	4.1	B3/2500		
BM (30°-60°)	4038.7	9.0	B3/5000		
BH (60°-80°)	2358.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	219.1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
2.5°	6566.4	6612.5	6554.9	6554.9	6361.0	6259.5	6065.7	5918.1	5652.7	5606.6
5°	7761.5	7819.2	7738.5	7703.9	7475.4	7265.5	6940.2	6619.5	6146.5	6098.0
7.5°	8686.7	8760.6	8689.0	8652.1	8449.1	8213.8	7833.1	7385.5	6718.7	6624.1
10°	9441.2	9452.7	9429.7	9443.5	9284.3	9090.5	8700.6	8179.2	7346.2	7217.0
12.5°	9868.0	9921.1	9967.3	10050.3	10022.6	9902.7	9552.0	8929.0	8010.7	7844.6
15°	10068.8	10161.1	10264.9	10456.4	10611.0	10641.0	10373.3	9734.2	8686.7	8486.0
17.5°	10140.3	10228.0	10391.8	10668.7	11000.9	11224.7	11104.7	10516.4	9355.8	9125.1
20°	10502.5	10527.9	10627.1	10890.2	11250.1	11621.5	11711.5	11268.5	10018.0	9757.3
22.5°	11277.8	11227.0	11254.7	11374.7	11633.1	11993.0	12198.4	11933.0	10698.7	10398.7
25°	12558.3	12410.6	12263.0	12124.5	12256.0	12459.1	12692.1	12597.5	11411.6	11030.9
27.5°	14175.7	13995.7	13670.4	13215.8	13056.6	13128.2	13232.0	13213.5	12071.5	11686.1
30°	15767.6	15557.7	15170.1	14512.5	14092.6	13903.4	13825.0	13771.9	12789.0	12378.3
32.5°	17038.9	16872.8	16492.1	15756.1	15147.0	14824.0	14563.3	14374.1	13538.9	13128.2
35°	18151.0	17996.4	17560.4	16757.5	16095.3	15751.5	15410.0	15006.3	14318.7	13903.4
37.5°	19166.2	19011.6	18414.0	17578.8	16912.0	16674.4	16369.8	15684.6	15100.9	14708.6
40°	19807.6	19773.0	19214.7	18268.7	17576.5	17458.9	17357.3	16471.4	15968.4	15603.8
42.5°	19971.4	20047.6	19604.6	18827.0	18167.2	18072.6	18310.2	17361.9	16942.0	16593.6
45°	19576.9	19796.1	19505.4	18977.0	18587.1	18536.3	19154.7	18335.6	18019.5	17701.1
47.5°	18577.9	18949.3	18829.4	18755.5	18700.1	18919.3	19897.6	19369.2	19240.0	18963.2
50°	16561.3	17265.0	17475.0	17941.1	18476.3	19217.0	20573.6	20497.5	20665.9	20386.7
52.5°	13075.1	14044.1	15262.4	16429.8	17788.8	19117.8	21316.6	22117.2	22827.8	22675.5
55°	10793.2	11229.3	12166.1	14307.2	16455.2	18700.1	21651.1	23425.4	24973.5	24837.4
57.5°	9039.7	9429.7	10006.5	11794.6	14438.7	17751.9	21858.8	24223.7	26443.2	26429.4
60°	7159.4	7572.3	8163.0	9429.7	12083.0	16113.7	21812.6	25132.7	28319.0	28434.4
62.5°	5036.7	5491.2	6146.5	7327.8	9676.5	13991.1	20871.3	25790.3	30527.0	30840.8
65°	3310.9	3610.8	4104.6	5124.4	7210.1	11261.6	19073.9	25875.6	32889.6	33420.3
67.5°	2321.1	2436.4	2727.2	3280.9	4752.9	8636.0	16210.6	24992.0	34465.5	35063.1
70°	1811.2	1868.9	2016.5	2238.0	2985.6	5807.3	12422.2	22694.0	34128.6	34751.6
72.5°	1564.3	1619.7	1675.1	1702.7	2002.7	3585.4	8414.5	18974.7	30956.2	31378.4
75°	1418.9	1432.8	1478.9	1469.7	1527.4	2325.7	4856.7	13825.0	24424.4	24279.0
77.5°	1192.8	1211.3	1287.4	1275.9	1356.7	1589.7	2521.8	8922.1	15834.6	14847.1
80°	1010.6	1019.8	1102.9	1089.0	1179.0	1151.3	1287.4	4547.6	6716.4	5689.6
82.5°	350.7	433.8	842.1	867.5	899.8	696.8	742.9	1855.0	2051.1	1571.2
85°	170.7	182.3	429.1	609.1	606.8	350.7	362.2	662.2	646.0	507.6
87.5°	27.7	34.6	50.8	237.6	189.2	92.3	124.6	129.2	133.8	115.4
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°
5244.3	0°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
5431.2	2.5°	5302.0	5186.7	4944.4	4720.6	4545.3	4376.8	4282.2	4201.5	4155.3	4146.1
5685.0	5°	5445.1	5207.4	4766.7	4395.3	4153.0	3973.1	3878.5	3818.5	3788.5	3770.0
6026.5	7.5°	5650.4	5302.0	4674.5	4252.2	3998.4	3869.2	3820.8	3811.6	3809.2	3811.6
6439.5	10°	5934.2	5456.6	4665.2	4217.6	4005.4	3933.8	3931.5	3933.8	3943.1	3945.4
6889.4	12.5°	6241.1	5615.8	4702.1	4247.6	4093.0	4053.8	4046.9	4044.6	4051.5	4056.1
7343.9	15°	6575.6	5825.8	4764.4	4312.2	4189.9	4148.4	4141.5	4127.6	4125.3	4123.0
7821.5	17.5°	6919.4	6033.4	4833.7	4381.4	4252.2	4194.6	4169.2	4136.9	4111.5	4104.6
8315.3	20°	7267.8	6238.8	4882.1	4416.0	4256.8	4176.1	4125.3	4070.0	4026.1	4000.7
8813.6	22.5°	7639.3	6453.3	4912.1	4406.8	4215.3	4104.6	4012.3	3947.7	3880.8	3836.9
9316.6	25°	8001.5	6640.2	4909.8	4358.4	4134.6	3993.8	3876.2	3793.1	3700.8	3654.7
9835.7	27.5°	8349.9	6808.7	4852.1	4273.0	4019.2	3862.3	3721.6	3622.4	3532.4	3488.5
10359.5	30°	8709.8	6949.4	4762.1	4148.4	3883.1	3710.0	3555.5	3470.1	3389.3	3347.8
10913.2	32.5°	9067.4	7078.6	4635.2	3993.8	3726.2	3560.1	3407.8	3329.3	3280.9	3280.9
11508.5	35°	9445.8	7168.6	4466.8	3813.9	3560.1	3400.9	3280.9	3234.7	3230.1	3202.4
12138.4	37.5°	9845.0	7226.3	4261.5	3629.3	3396.3	3246.3	3209.4	3154.0	3107.8	3047.9
12830.5	40°	10264.9	7283.9	4014.6	3437.8	3223.2	3140.1	3124.0	3050.2	2918.7	2771.0
13615.0	42.5°	10774.8	7323.2	3758.5	3246.3	3040.9	3013.2	3036.3	2909.4	2699.5	2588.7
14561.0	45°	11365.4	7387.8	3523.1	3057.1	2854.1	2854.1	2951.0	2784.8	2611.8	2542.6
15640.8	47.5°	12131.4	7537.7	3304.0	2849.4	2681.0	2727.2	2761.8	2634.9	2538.0	2452.6
16955.9	50°	13238.9	7897.7	3077.9	2639.5	2549.5	2641.8	2593.3	2519.5	2406.4	2337.2
19046.2	52.5°	14614.0	8109.9	2877.1	2450.3	2436.4	2528.7	2459.5	2390.3	2304.9	2212.6
20631.3	55°	15550.8	8149.2	2708.7	2311.9	2360.3	2351.1	2325.7	2263.4	2217.3	2095.0
22195.6	57.5°	16598.3	8227.6	2570.3	2228.8	2311.9	2210.3	2201.1	2148.0	2088.0	2005.0
24103.7	60°	17851.1	8349.9	2450.3	2196.5	2270.3	2118.0	2071.9	2051.1	1991.1	1949.6
26399.4	62.5°	19217.0	8460.6	2328.0	2201.1	2221.9	2028.1	1958.8	1951.9	1915.0	1901.2
28554.3	65°	20149.1	8158.4	2175.7	2196.5	2145.7	1935.8	1848.1	1845.8	1815.8	1811.2
29488.8	67.5°	19823.8	7200.9	1970.4	2131.9	2067.3	1843.5	1746.6	1737.3	1698.1	1700.4
28512.8	70°	18194.9	5835.0	1686.6	1972.7	1970.4	1760.4	1640.4	1610.5	1557.4	1566.6
24791.2	72.5°	15140.1	4323.8	1305.9	1707.4	1815.8	1684.3	1518.2	1469.7	1402.8	1412.0
18301.0	75°	10934.0	2939.4	950.6	1299.0	1580.5	1594.3	1398.2	1315.1	1234.4	1248.2
10186.4	77.5°	5595.0	1665.8	699.1	895.2	1241.3	1448.9	1289.7	1179.0	1160.5	1289.7
2937.1	80°	1825.0	835.2	484.5	627.6	814.5	1185.9	1130.5	1003.6	999.0	1029.0
616.0	82.5°	544.5	353.0	311.5	413.0	449.9	909.1	976.0	759.1	652.9	687.6
205.3	85°	186.9	170.7	177.7	205.3	214.6	533.0	682.9	503.0	475.3	523.7
46.1	87.5°	43.8	60.0	50.8	46.1	46.1	129.2	265.3	210.0	290.7	193.8
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°  
5244.3  
4146.1  
3767.7  
3818.5  
3947.7  
4058.4  
4120.7  
4111.5  
4010.0  
3839.2  
3654.7  
3486.2  
3345.5  
3283.2  
3195.5  
3038.6  
2750.2  
2591.0  
2554.1  
2450.3  
2330.3  
2194.2  
2097.3  
1977.3  
1961.2  
1901.2  
1808.9  
*1700.4*  
1575.8  
1409.7  
1252.8  
1271.3  
883.7  
710.6  
516.8  
186.9  
0.0

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