

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: P953943

Luminaire Tested: **GALN-SB7B-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953943  
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-SB7B-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

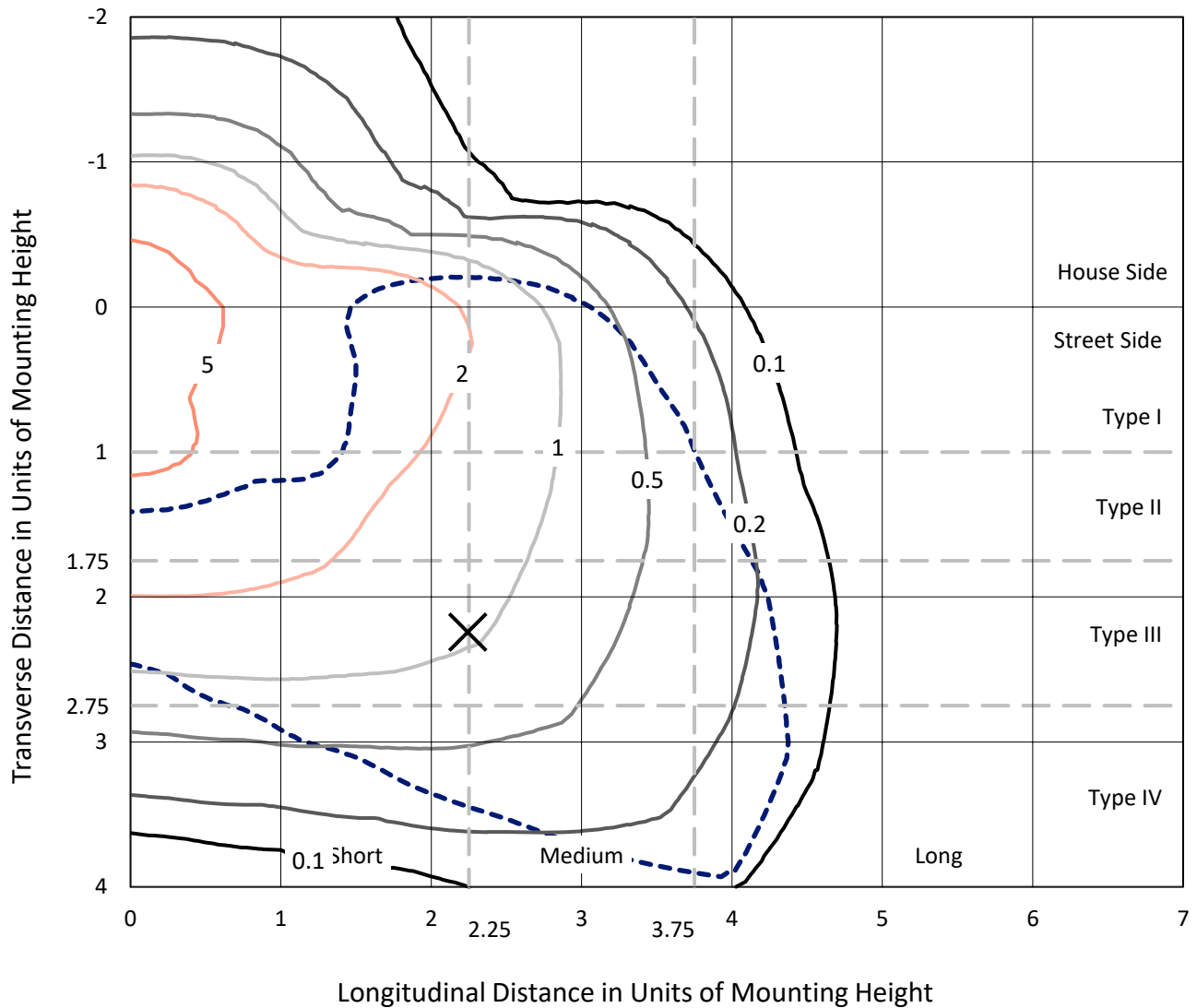
Lumens per Lamp: N/A  
Luminaire Lumens: 35913 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

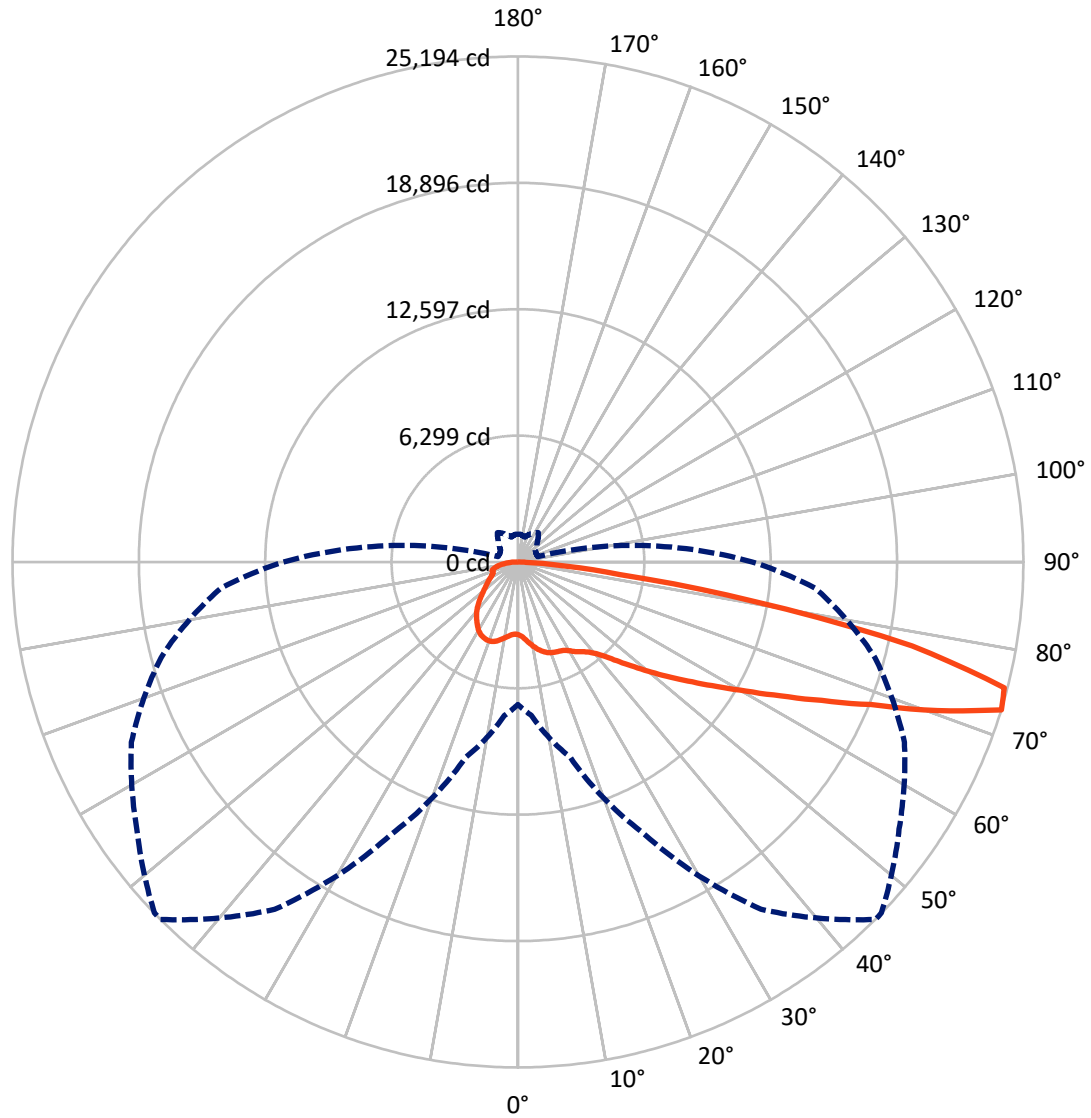
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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
<b>House Side</b>	Lumens	8118.7	0.0	8118.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	27794.3	0.0	27794.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	35913.0	0.0	35913.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.7	1.0
10°-20°	1229.4	3.4
20°-30°	2138.7	6.0
30°-40°	3065.9	8.5
40°-50°	4317.0	12.0
50°-60°	6612.3	18.4
60°-70°	9578.9	26.7
70°-80°	7649.3	21.3
80°-90°	952.7	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°	35913.0	100.0
0°-180°	35913.0	100.0



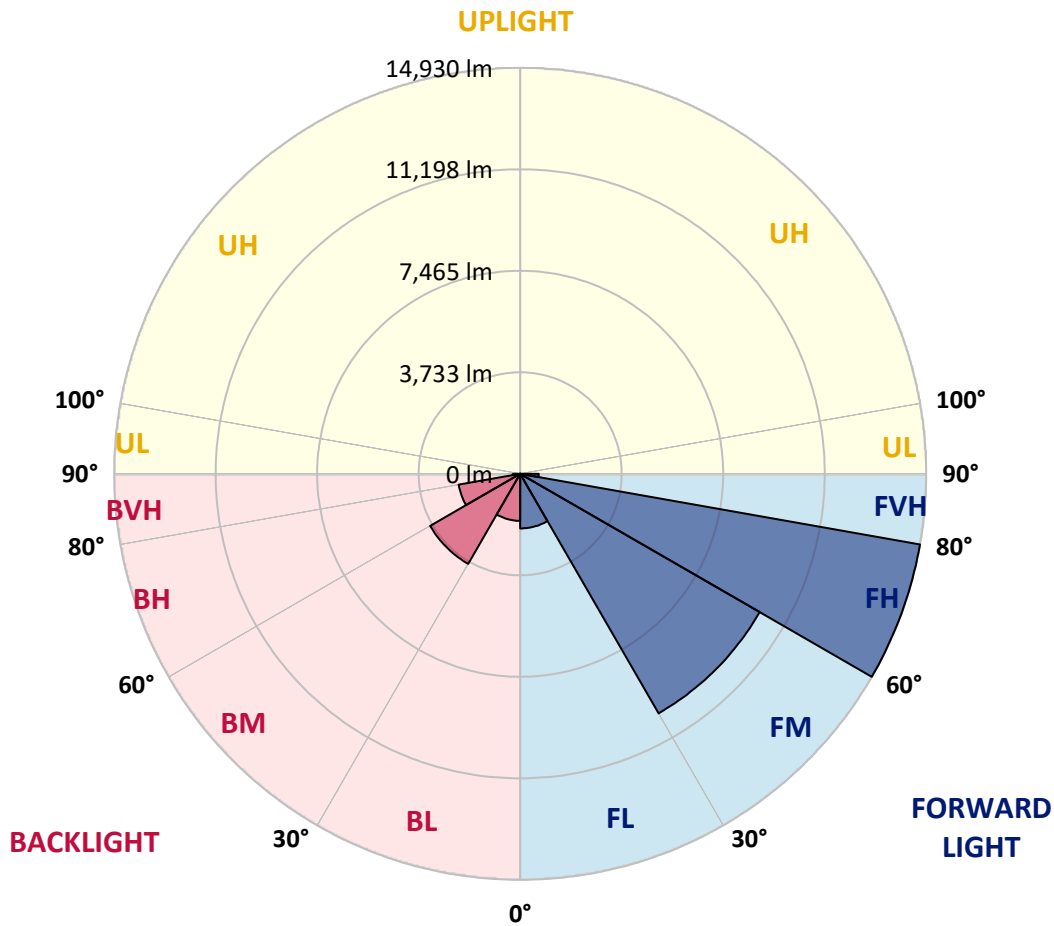
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.3	5.6			
FM (30°-60°)	10172.4	28.3			
FH (60°-80°)	14930.1	41.6			G5
FVH (80°-90°)	683.5	1.9			G4/750
BL (0°-30°)	1728.5	4.8	B3/2500		
BM (30°-60°)	3822.8	10.6	B3/5000		
BH (60°-80°)	2298.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	269.2	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°	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9
2.5°	3764.8	3789.4	3766.7	3745.9	3736.4	3711.8	3709.9	3694.8	3685.4	3658.9
5°	4027.8	4059.9	4022.1	3980.5	3942.6	3882.1	3874.5	3831.0	3781.8	3725.1
7.5°	4324.8	4353.2	4309.7	4247.2	4181.0	4080.8	4078.9	3999.4	3921.8	3825.4
10°	4584.0	4621.8	4563.2	4478.0	4394.8	4281.3	4268.0	4177.2	4078.9	3954.0
12.5°	4812.9	4839.4	4782.6	4678.6	4582.1	4468.6	4451.6	4351.3	4241.6	4099.7
15°	4994.5	5028.6	4952.9	4841.3	4739.1	4627.5	4612.4	4521.6	4411.8	4262.4
17.5°	5113.7	5142.1	5064.5	4939.7	4841.3	4748.6	4737.2	4661.6	4565.1	4413.7
20°	5159.1	5189.4	5108.0	4981.3	4890.5	4818.6	4812.9	4758.0	4691.8	4553.7
22.5°	5204.5	5232.9	5127.0	4994.5	4915.1	4869.7	4867.8	4831.8	4805.3	4691.8
25°	5388.0	5395.6	5253.7	5062.6	4949.1	4909.4	4907.5	4905.6	4917.0	4828.0
27.5°	5547.0	5545.1	5424.0	5244.3	5068.3	4985.1	4983.2	5002.1	5038.0	4964.3
30°	5779.6	5758.8	5615.1	5427.8	5267.0	5138.3	5127.0	5109.9	5138.3	5079.7
32.5°	6273.4	6207.2	5974.5	5641.5	5431.5	5333.2	5318.0	5212.1	5223.4	5187.5
35°	6981.0	6894.0	6583.7	6046.4	5635.9	5495.9	5488.3	5354.0	5331.3	5299.1
37.5°	7822.9	7715.0	7353.7	6632.9	5987.8	5685.1	5673.7	5552.6	5459.9	5425.9
40°	8668.5	8532.3	8233.4	7348.0	6506.1	6001.0	5965.1	5781.5	5675.6	5618.8
42.5°	9489.6	9376.1	9120.7	8150.2	7145.6	6462.6	6383.2	6069.1	5989.6	5936.7
45°	10216.1	10113.9	9926.6	9007.2	7894.8	7090.7	7013.1	6500.5	6475.9	6475.9
47.5°	10806.3	10783.6	10585.0	9881.2	8778.3	7805.8	7671.5	7100.2	7166.4	7268.5
50°	11460.9	11398.5	11186.6	10742.0	9816.9	8625.0	8515.3	7836.1	8083.9	8363.9
52.5°	12062.5	12096.6	11860.1	11638.8	10989.8	9538.8	9345.8	8704.5	9239.9	9703.4
55°	12681.2	12683.1	12616.9	12586.6	12219.6	10549.0	10337.2	9748.8	10600.1	11175.3
57.5°	13262.0	13265.8	13364.1	13630.9	13646.0	11714.4	11474.2	11031.5	12111.7	12698.2
60°	13780.3	13806.8	14075.5	14699.8	14900.3	13050.1	12823.1	12546.9	13674.4	14264.7
62.5°	13954.4	14050.9	14648.7	15536.0	16139.5	14688.4	14465.2	14300.6	15316.5	15865.2
65°	13659.3	13880.6	15036.5	16226.5	17414.6	16635.2	16413.8	16234.1	17023.0	17539.5
67.5°	12934.7	13220.4	15013.8	16951.1	18962.2	18977.3	18771.1	18349.2	18852.4	19051.1
70°	11025.8	11453.4	13691.4	17221.7	20738.6	22180.2	21981.6	20895.7	20678.1	19717.0
72.5°	7104.0	7679.1	10081.8	14994.9	21134.0	25194.0	25182.6	23194.3	21255.1	18423.0
75°	2591.9	2943.7	4684.3	9412.0	17740.0	25040.7	25114.5	22800.8	19403.0	14230.6
77.5°	944.0	1033.0	1528.6	3617.2	10910.4	20091.6	20244.9	18228.1	13810.6	7141.8
80°	495.7	544.9	783.2	1403.8	4674.8	11932.0	12172.3	10832.8	6491.0	2151.1
82.5°	274.3	297.0	438.9	762.4	2105.6	5102.4	5246.1	4279.4	2283.5	911.9
85°	147.6	157.0	206.2	416.2	1029.2	1768.9	1808.6	1278.9	910.0	535.4
87.5°	43.5	53.0	68.1	132.4	403.0	397.3	406.8	253.5	359.5	270.5
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°
3622.9	0°	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9
3651.3	2.5°	3639.9	3634.3	3613.5	3604.0	3592.7	3590.8	3600.2	3602.1	3604.0	3605.9
3692.9	5°	3674.0	3655.1	3636.2	3624.8	3628.6	3630.5	3649.4	3662.7	3672.1	3679.7
3770.5	7.5°	3740.2	3725.1	3692.9	3691.0	3696.7	3713.7	3738.3	3768.6	3785.6	3798.9
3870.8	10°	3838.6	3810.2	3772.4	3778.1	3789.4	3814.0	3865.1	3889.7	3918.1	3942.6
3993.7	12.5°	3938.9	3914.3	3870.8	3874.5	3893.5	3937.0	3986.2	4016.4	4035.3	4054.3
4126.2	15°	4069.4	4025.9	3978.6	3978.6	4012.6	4059.9	4082.6	4107.2	4118.6	4139.4
4268.0	17.5°	4203.7	4147.0	4084.5	4080.8	4122.4	4145.1	4158.3	4162.1	4165.9	4188.6
4406.2	20°	4338.0	4275.6	4186.7	4179.1	4188.6	4184.8	4182.9	4179.1	4184.8	4213.2
4548.0	22.5°	4470.5	4398.6	4275.6	4241.6	4215.1	4179.1	4177.2	4175.3	4179.1	4207.5
4701.3	25°	4625.6	4538.6	4374.0	4271.8	4182.9	4133.7	4139.4	4141.3	4145.1	4167.8
4860.2	27.5°	4794.0	4697.5	4464.8	4262.4	4101.6	4067.5	4058.1	4063.7	4077.0	4112.9
5019.1	30°	4962.4	4848.9	4548.0	4224.5	3999.4	3952.1	3921.8	3935.1	3976.7	4012.6
5157.2	32.5°	5115.6	5002.1	4614.3	4141.3	3868.9	3795.1	3755.4	3772.4	3814.0	3827.2
5310.5	35°	5295.3	5166.7	4642.6	4008.9	3727.0	3613.5	3560.5	3535.9	3556.7	3543.5
5490.2	37.5°	5495.9	5361.5	4638.9	3834.8	3560.5	3430.0	3356.2	3263.5	3220.0	3174.6
5755.1	40°	5792.9	5599.9	4593.4	3624.8	3354.3	3235.1	3102.7	2945.6	2847.3	2758.3
6182.6	42.5°	6197.8	5931.0	4510.2	3394.0	3121.6	3010.0	2830.2	2646.7	2491.6	2344.0
6831.5	45°	6801.3	6364.2	4406.2	3148.1	2870.0	2760.2	2565.4	2359.2	2183.2	1994.0
7752.9	47.5°	7671.5	6946.9	4307.8	2868.1	2605.1	2504.8	2328.9	2137.8	1929.7	1746.2
9084.7	50°	8867.2	7783.1	4217.0	2595.6	2344.0	2268.3	2128.3	1933.5	1723.5	1575.9
10645.5	52.5°	10388.2	8920.1	4179.1	2332.7	2100.0	2071.6	1960.0	1778.4	1579.7	1454.8
12465.5	55°	12134.4	10280.4	4179.1	2081.1	1886.2	1895.6	1818.1	1649.7	1477.5	1365.9
14342.2	57.5°	13916.6	11657.7	4103.5	1848.4	1704.6	1744.3	1695.1	1547.5	1392.4	1277.0
16315.4	60°	15558.7	12811.7	3797.0	1636.5	1543.8	1606.2	1574.0	1447.3	1258.1	1161.6
17965.2	62.5°	16820.6	13462.5	3206.7	1468.1	1411.3	1483.2	1466.2	1314.8	1233.5	1193.8
19319.7	65°	17452.5	13356.6	2451.9	1318.6	1299.7	1411.3	1375.4	1369.7	1305.4	1260.0
19760.5	67.5°	17064.6	12444.7	1778.4	1208.9	1235.4	1345.1	1483.2	1505.9	1386.7	1297.8
18519.5	70°	15363.8	10795.0	1324.3	1104.8	1154.0	1347.0	1691.3	1575.9	1360.3	1256.2
14853.0	72.5°	11687.9	8049.9	1027.3	995.1	1048.1	1356.5	1784.0	1543.8	1284.6	1388.6
9253.1	75°	6684.0	4419.4	824.9	860.8	915.7	1267.5	1736.7	1460.5	1225.9	1275.1
3666.4	77.5°	2548.3	1698.9	681.1	728.4	735.9	1106.7	1661.1	1454.8	1167.3	1138.9
1099.2	80°	883.5	664.0	563.8	578.9	569.5	983.8	1593.0	1265.7	955.4	855.1
454.0	82.5°	361.3	331.1	446.5	427.6	404.9	764.3	1286.5	1034.9	781.3	690.5
219.5	85°	157.0	210.0	295.1	259.2	234.6	529.7	1031.1	875.9	660.3	569.5
71.9	87.5°	32.2	79.5	124.9	117.3	121.1	353.8	732.2	622.4	467.3	350.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3622.9
3613.5
3683.5
3802.6
3937.0
4061.8
4147.0
4196.2
4224.5
4226.4
4198.0
4148.9
4052.4
3874.5
3585.1
3202.9
2764.0
2330.8
1971.3
1725.4
1566.5
1445.4
1354.6
1258.1
1146.5
1180.5
1244.8
1282.7
1239.2
1377.3
1275.1
1038.6
826.7
683.0
567.6
274.3
0.0

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