

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: P955514

Luminaire Tested: **GALN-SB8B-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-940-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

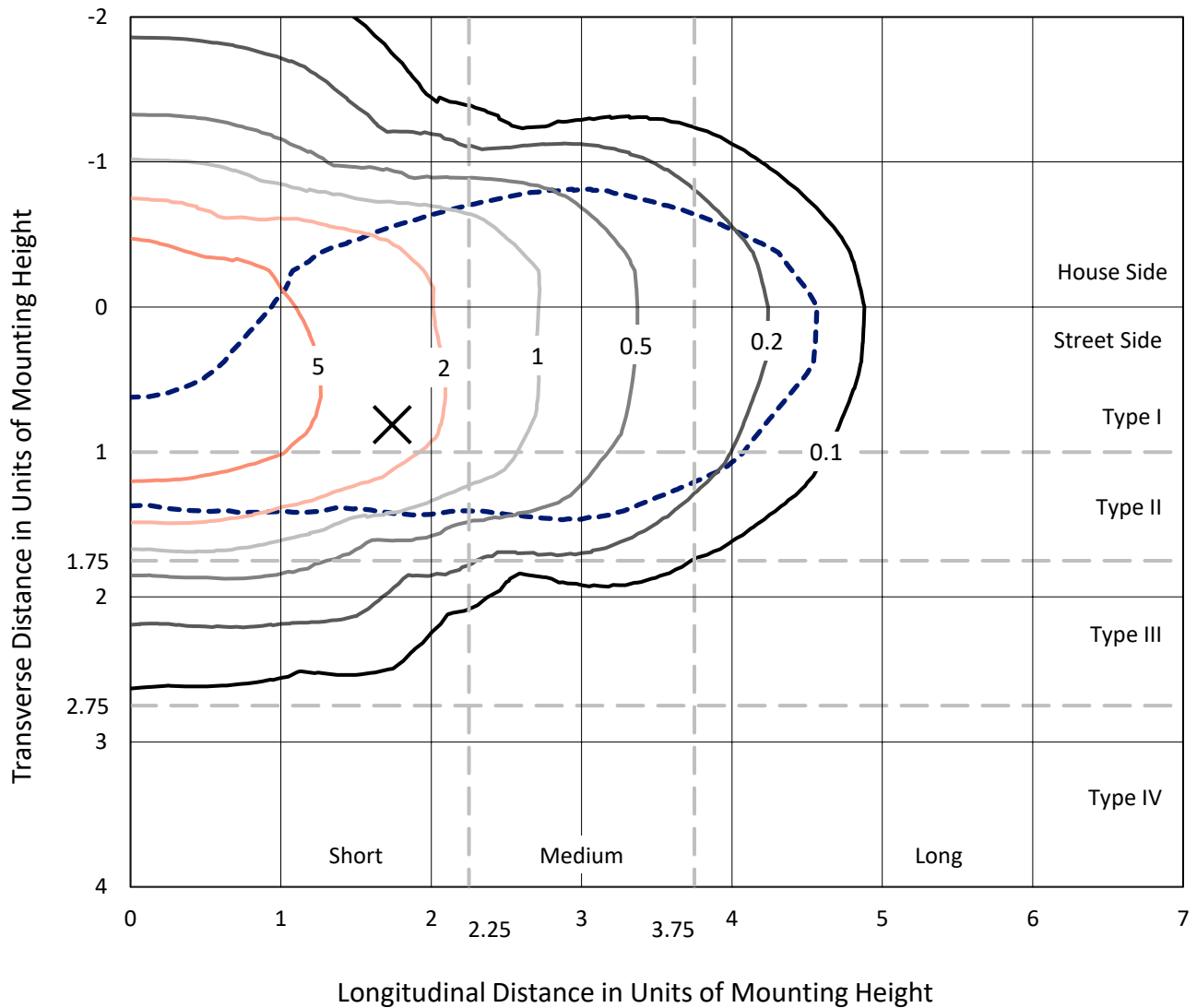
Lumens per Lamp: N/A  
Luminaire Lumens: 33437 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

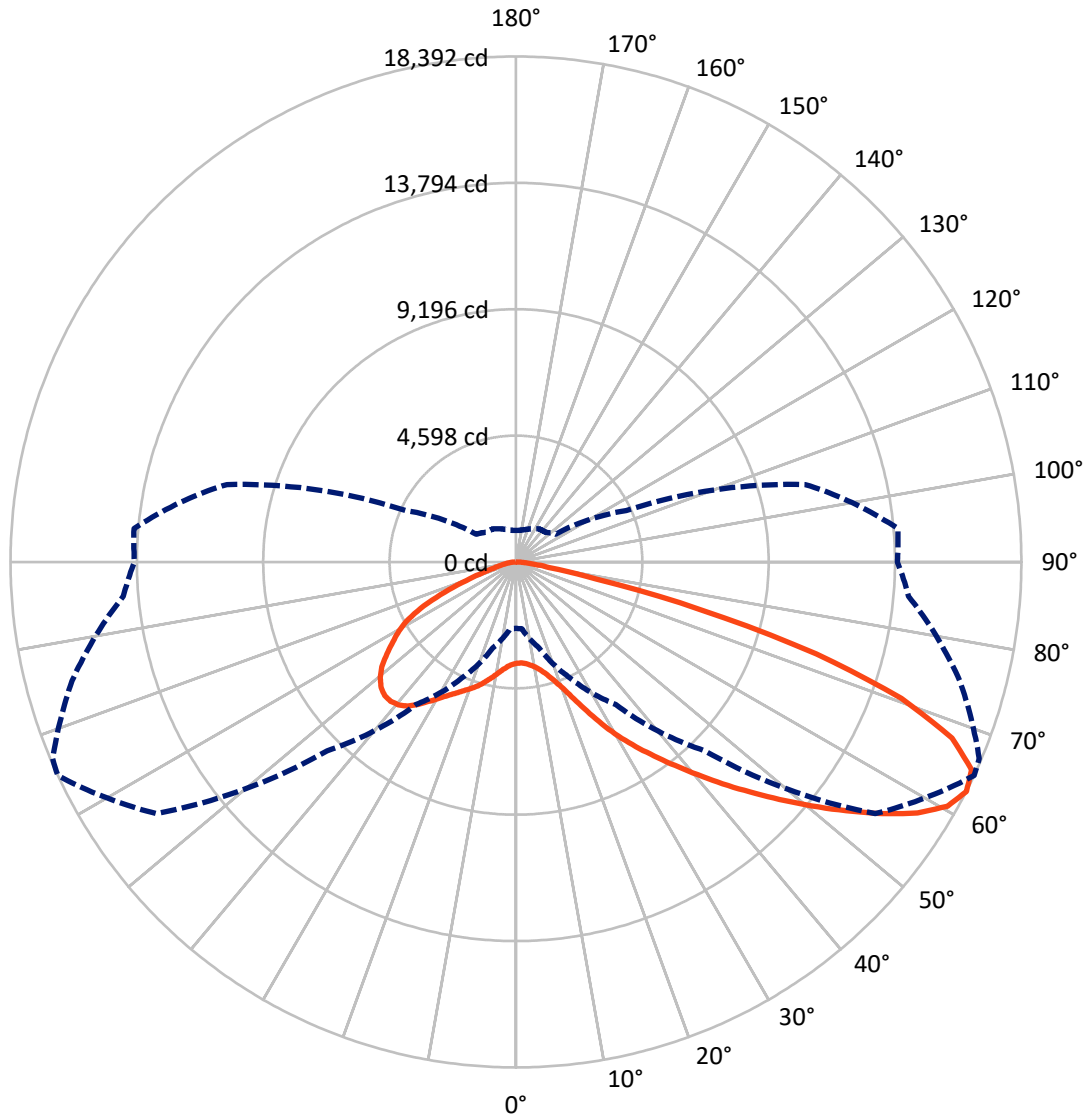
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10551.3	0.0	10551.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	22885.7	0.0	22885.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	33437.0	0.0	33437.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.4	1.1
10°-20°	1245.7	3.7
20°-30°	2525.8	7.6
30°-40°	4370.9	13.1
40°-50°	6614.6	19.8
50°-60°	7755.1	23.2
60°-70°	6501.7	19.4
70°-80°	3589.5	10.7
80°-90°	466.3	1.4
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°	33437.0	100.0
0°-180°	33437.0	100.0

**Coefficient of Utilization**



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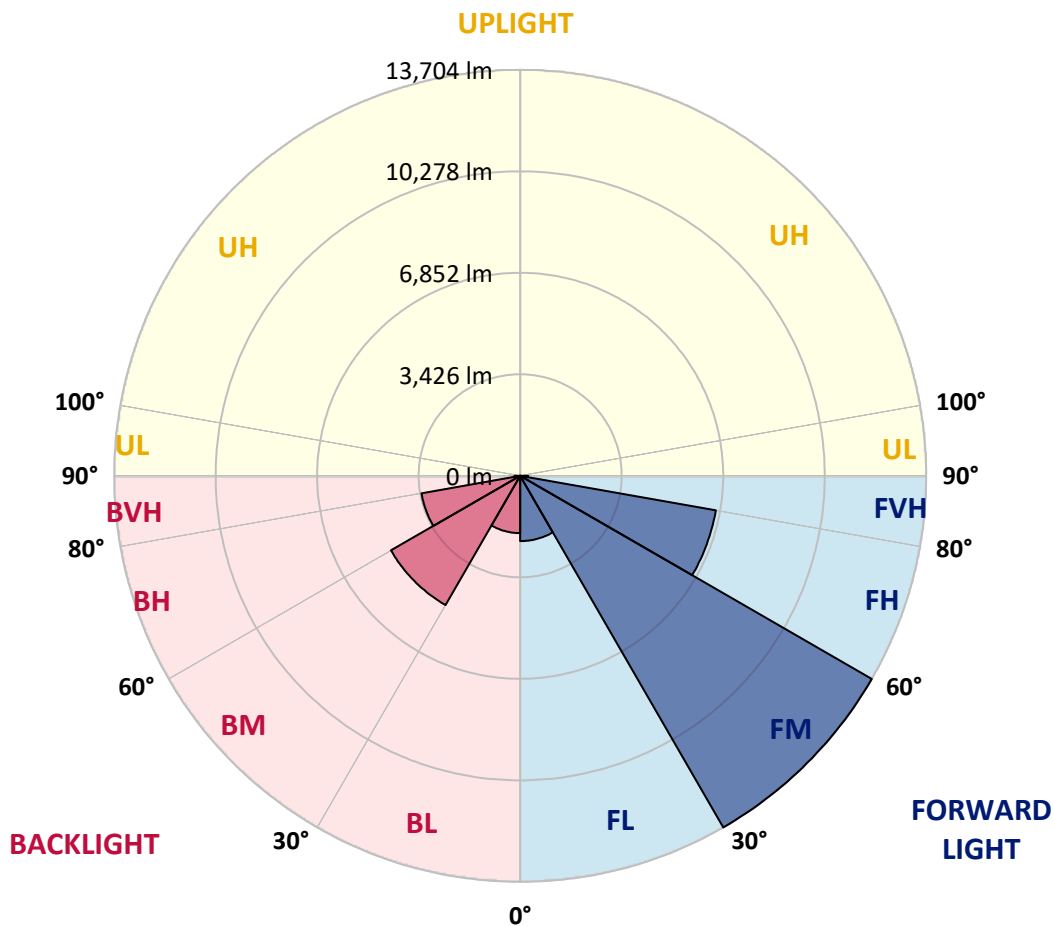
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2203.9	6.6			
FM (30°-60°)	13703.6	41.0			
FH (60°-80°)	6706.5	20.1			G3/7500
FVH (80°-90°)	271.7	0.8			G3/500
BL (0°-30°)	1935.0	5.8	B3/2500		
BM (30°-60°)	5037.0	15.1	B4/8500		
BH (60°-80°)	3384.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	194.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6
2.5°	3660.3	3649.9	3658.6	3658.6	3662.1	3660.3	3672.5	3675.9	3681.1	3691.6
5°	3623.9	3622.2	3637.8	3651.7	3665.5	3677.7	3693.3	3715.8	3719.3	3731.5
7.5°	3611.8	3601.3	3625.6	3643.0	3675.9	3705.4	3747.1	3785.2	3800.8	3806.0
10°	3705.4	3688.1	3710.6	3721.0	3748.8	3778.3	3826.9	3887.6	3904.9	3925.7
12.5°	3865.0	3845.9	3878.9	3894.5	3920.5	3946.6	3979.5	4038.5	4047.2	4085.3
15°	4083.6	4061.1	4081.9	4101.0	4144.3	4168.6	4201.6	4258.8	4258.8	4288.3
17.5°	4380.2	4350.8	4366.4	4373.3	4401.1	4437.5	4493.0	4543.3	4569.3	4558.9
20°	4822.6	4786.2	4786.2	4751.5	4741.1	4770.6	4843.4	4912.8	4940.6	4886.8
22.5°	5487.0	5435.0	5405.5	5287.5	5240.7	5244.2	5317.0	5402.0	5424.6	5329.2
25°	6331.8	6250.3	6210.4	6036.9	5931.1	5839.2	5896.4	6005.7	6036.9	5919.0
27.5°	7176.7	7181.9	7143.7	6935.5	6760.3	6592.1	6562.6	6677.1	6710.0	6576.4
30°	8361.5	8238.3	8165.5	7915.7	7665.9	7429.9	7308.5	7355.3	7364.0	7204.4
32.5°	9383.3	9352.0	9195.9	8977.3	8656.4	8286.9	8083.9	8009.3	7995.5	7768.2
35°	10547.3	10529.9	10365.1	10104.9	9758.0	9244.5	8878.5	8665.1	8647.7	8328.5
37.5°	11730.4	11730.4	11569.1	11284.6	10925.5	10283.6	9726.8	9388.5	9333.0	8916.6
40°	12674.1	12616.8	12646.3	12526.6	12115.5	11433.7	10668.7	10177.8	10103.2	9603.6
42.5°	13210.1	13191.1	13368.0	13501.6	13333.3	12788.6	11706.1	11033.0	10928.9	10359.9
45°	13329.8	13309.0	13624.7	14113.9	14349.9	14126.1	12833.7	11933.4	11806.7	11151.0
47.5°	13054.0	13012.4	13475.6	14247.5	15003.9	15397.7	14055.0	12910.0	12726.1	11921.2
50°	12224.8	12184.9	12885.7	13911.0	15224.2	16261.6	15380.3	13945.7	13664.6	12747.0
52.5°	10422.4	10441.5	11539.6	12948.2	14934.5	16799.3	16521.8	15036.8	14698.6	13591.8
55°	8118.6	8160.3	9509.9	11060.8	13775.7	16717.8	17300.7	16160.9	15824.4	14386.3
57.5°	5813.2	5997.0	7261.7	8796.9	11550.0	15425.4	17470.7	17229.6	16903.4	15253.7
60°	3767.9	3800.8	5101.9	6649.3	8795.2	13128.6	17125.5	18039.7	17784.7	16138.4
62.5°	2414.8	2437.3	3230.1	4650.9	6330.1	9712.9	15963.2	18391.8	18313.8	16723.0
65°	1774.7	1757.3	2170.2	3074.0	4264.0	5990.1	13706.3	18221.8	18376.2	17089.0
67.5°	1481.5	1457.2	1660.2	2128.5	3141.6	3401.8	10141.4	17116.8	17682.3	17047.4
70°	1349.6	1328.8	1452.0	1580.4	2451.2	2277.7	5112.3	14880.7	15751.5	16573.8
72.5°	1143.2	1106.8	1275.0	1403.4	1906.5	1746.9	2112.9	11430.3	12491.9	15055.9
75°	886.5	862.2	1006.2	1235.1	1432.9	1363.5	1335.8	6940.7	8099.6	11643.7
77.5°	702.6	669.6	801.5	962.8	1288.9	1028.7	973.2	2989.0	4137.4	7433.4
80°	529.1	499.6	608.9	761.6	990.5	775.4	629.7	1219.5	1559.5	3766.1
82.5°	376.4	350.4	425.0	558.6	666.1	695.6	386.8	683.5	768.5	1452.0
85°	241.1	225.5	284.5	350.4	423.3	447.6	235.9	357.4	392.1	598.5
87.5°	131.8	107.6	152.7	163.1	196.0	178.7	112.8	130.1	140.5	216.8
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°
3684.6	0°	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6	3684.6
3691.6	2.5°	3698.5	3703.7	3721.0	3726.2	3738.4	3754.0	3764.4	3774.8	3774.8	3785.2
3747.1	5°	3748.8	3760.9	3797.4	3816.5	3847.7	3878.9	3898.0	3920.5	3934.4	3941.4
3835.5	7.5°	3845.9	3865.0	3917.1	3950.0	4003.8	4047.2	4076.7	4107.9	4114.8	4133.9
3958.7	10°	3977.8	4000.3	4059.3	4121.8	4186.0	4239.7	4267.5	4290.0	4298.7	4302.2
4116.6	12.5°	4128.7	4161.7	4238.0	4314.3	4382.0	4428.8	4435.8	4430.6	4406.3	4385.5
4310.9	15°	4314.3	4343.8	4428.8	4512.1	4578.0	4586.7	4543.3	4515.6	4486.1	4480.9
4527.7	17.5°	4536.4	4552.0	4630.1	4711.6	4716.8	4687.3	4623.1	4597.1	4569.3	4550.3
4810.5	20°	4794.9	4789.6	4845.2	4879.9	4843.4	4753.2	4656.1	4612.7	4584.9	4562.4
5157.4	22.5°	5103.6	5063.7	5056.8	5048.1	4951.0	4761.9	4630.1	4574.5	4531.2	4499.9
5641.4	25°	5552.9	5400.3	5294.5	5235.5	5016.9	4715.1	4546.8	4423.6	4342.1	4288.3
6233.0	27.5°	6115.0	5858.3	5591.1	5447.1	5016.9	4619.6	4345.6	4146.1	4012.5	3957.0
6805.4	30°	6651.0	6382.2	5988.4	5702.1	5004.8	4463.5	4021.2	3743.6	3587.5	3532.0
7294.6	32.5°	7109.0	6815.8	6409.9	5981.4	4975.3	4210.2	3618.7	3311.6	3160.7	3094.8
7778.6	35°	7534.0	7221.8	6833.2	6288.5	4897.2	3839.0	3176.3	2942.1	2773.9	2668.0
8271.3	37.5°	7969.4	7598.2	7233.9	6566.0	4756.7	3405.3	2836.3	2636.8	2439.1	2296.8
8795.2	40°	8443.0	7998.9	7662.4	6730.8	4526.0	2992.4	2572.6	2390.5	2180.6	2029.7
9398.9	42.5°	8996.4	8479.5	8139.5	6815.8	4210.2	2699.3	2400.9	2222.2	2024.5	1901.3
10045.9	45°	9574.1	9008.6	8574.9	6814.1	3858.1	2562.2	2345.4	2168.4	1949.9	1821.5
10710.4	47.5°	10179.5	9562.0	8951.3	6703.1	3552.8	2581.3	2314.2	2052.2	1811.1	1686.2
11381.7	50°	10786.7	10167.4	9315.6	6494.9	3422.7	2539.7	2197.9	1889.1	1604.6	1491.9
12011.4	52.5°	11388.6	10811.0	9629.6	6198.3	3290.8	2385.3	2048.7	1677.5	1519.6	1441.6
12662.0	55°	11994.1	11447.6	9971.4	5766.3	2961.2	2204.9	1798.9	1597.7	1452.0	1380.9
13298.6	57.5°	12601.2	12183.2	10295.8	5334.4	2546.6	1982.8	1661.9	1500.6	1384.3	1323.6
13831.2	60°	13232.7	13024.5	10630.6	4937.1	2137.2	1698.3	1561.3	1422.5	1304.5	1236.9
14342.9	62.5°	13883.2	13950.9	10892.5	4425.4	1760.8	1524.8	1471.1	1328.8	1214.3	1150.1
14766.2	65°	14539.0	14844.3	11064.2	3715.8	1427.7	1360.0	1373.9	1226.5	1110.2	1054.7
15076.7	67.5°	15033.4	15487.9	11015.7	2812.0	1171.0	1203.9	1252.5	1118.9	1009.6	966.3
15026.4	70°	15088.9	15411.5	10536.9	1925.6	980.1	1051.3	1117.2	1013.1	900.3	869.1
14318.6	72.5°	14349.9	14370.7	9202.9	1257.7	829.2	922.9	974.9	905.5	796.3	765.0
12526.6	75°	12412.1	11884.8	6756.9	829.2	693.9	792.8	841.4	792.8	687.0	693.9
9372.9	77.5°	9404.1	8417.0	4102.7	589.8	579.4	666.1	732.1	697.4	607.2	681.8
4713.3	80°	4845.2	4553.7	1830.2	440.6	458.0	532.6	602.0	556.9	480.5	458.0
1053.0	82.5°	1110.2	1290.7	721.7	315.7	331.3	383.4	459.7	418.1	345.2	291.4
438.9	85°	388.6	425.0	319.2	197.8	194.3	239.4	312.3	279.3	234.2	187.4
185.6	87.5°	123.2	161.3	119.7	79.8	83.3	107.6	144.0	131.8	109.3	71.1
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>
3684.6
3785.2
3944.8
4127.0
4293.5
4385.5
4480.9
4552.0
4564.1
4510.4
4309.1
3984.7
3564.9
3127.8
2702.7
2335.0
2059.2
1925.6
1842.3
1703.5
1498.8
1441.6
1373.9
1313.2
1231.7
1148.4
1053.0
968.0
870.8
763.3
669.6
600.2
418.1
288.0
197.8
74.6
0.0

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