

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: P943942

Luminaire Tested: **GALN-SB8C-930-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-930-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

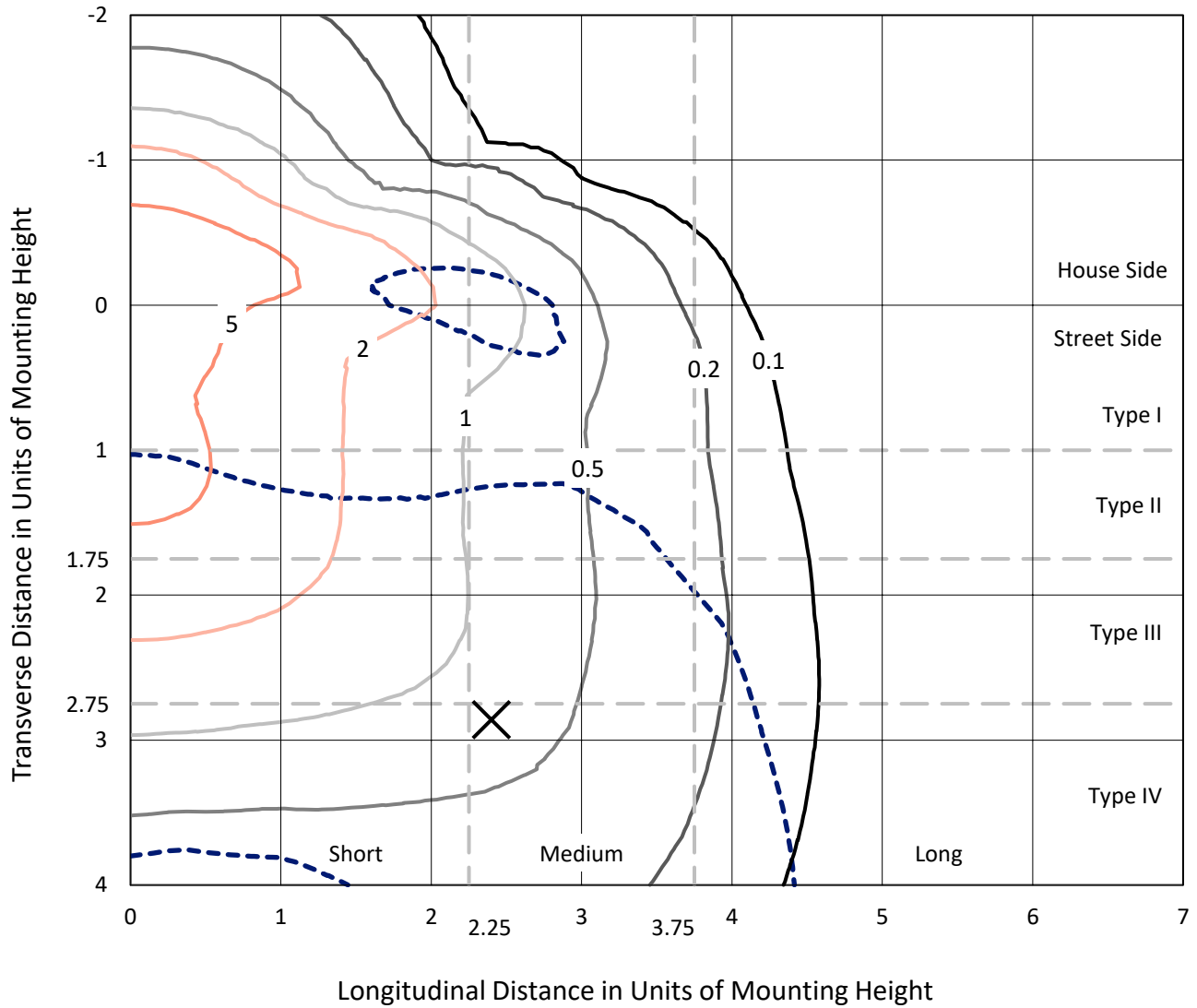
Lumens per Lamp: N/A  
Luminaire Lumens: 41759 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

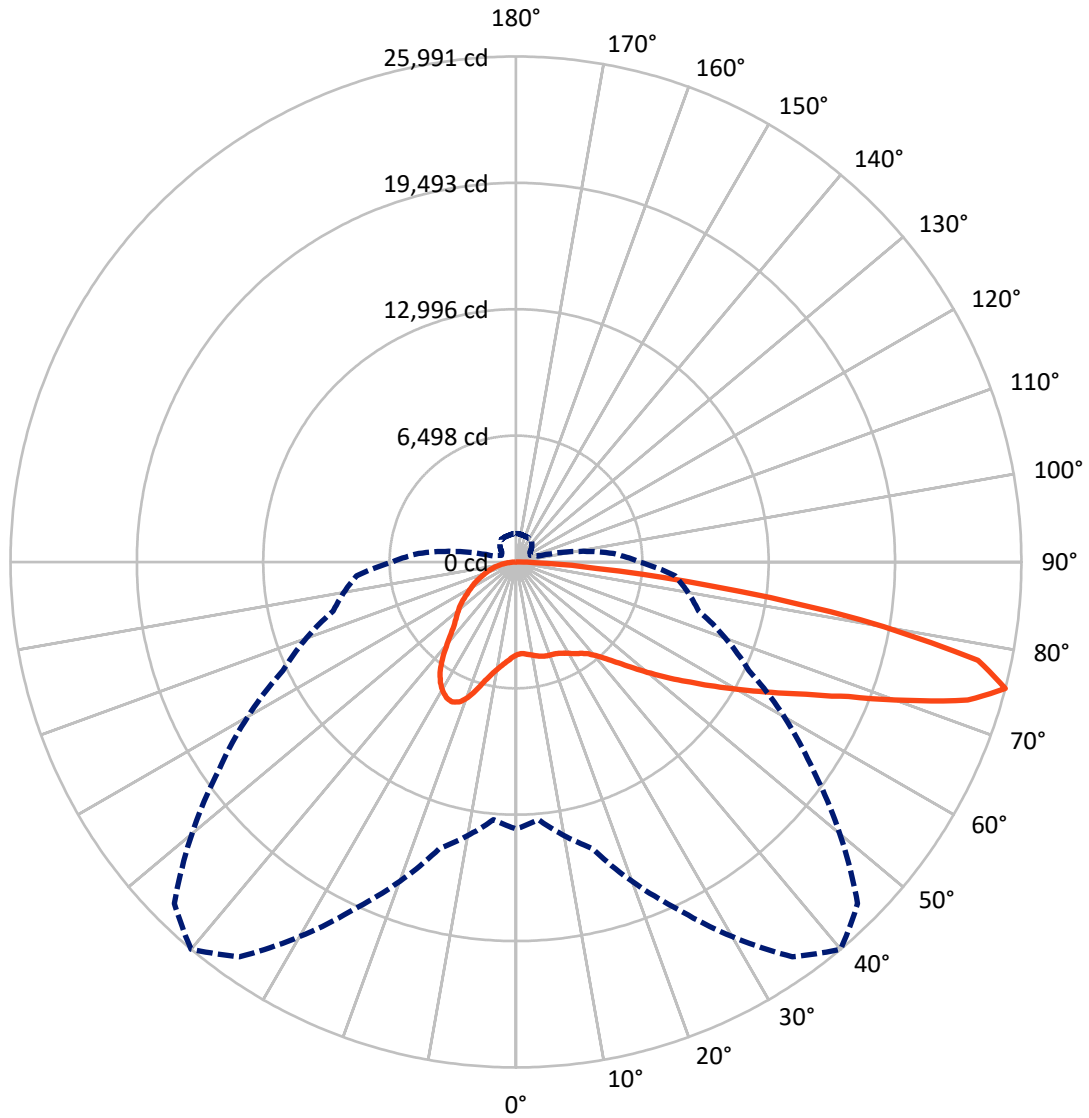
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P943942  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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CATALOG NUMBER: GALN-SB8C-930-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12938.3	0.0	12938.3
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	28820.7	0.0	28820.7
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	41759.0	0.0	41759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.7	1.1
10°-20°	1600.4	3.8
20°-30°	2922.1	7.0
30°-40°	4144.4	9.9
40°-50°	5596.1	13.4
50°-60°	7528.3	18.0
60°-70°	9555.1	22.9
70°-80°	8671.9	20.8
80°-90°	1264.1	3.0
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°	41759.0	100.0
0°-180°	41759.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943942

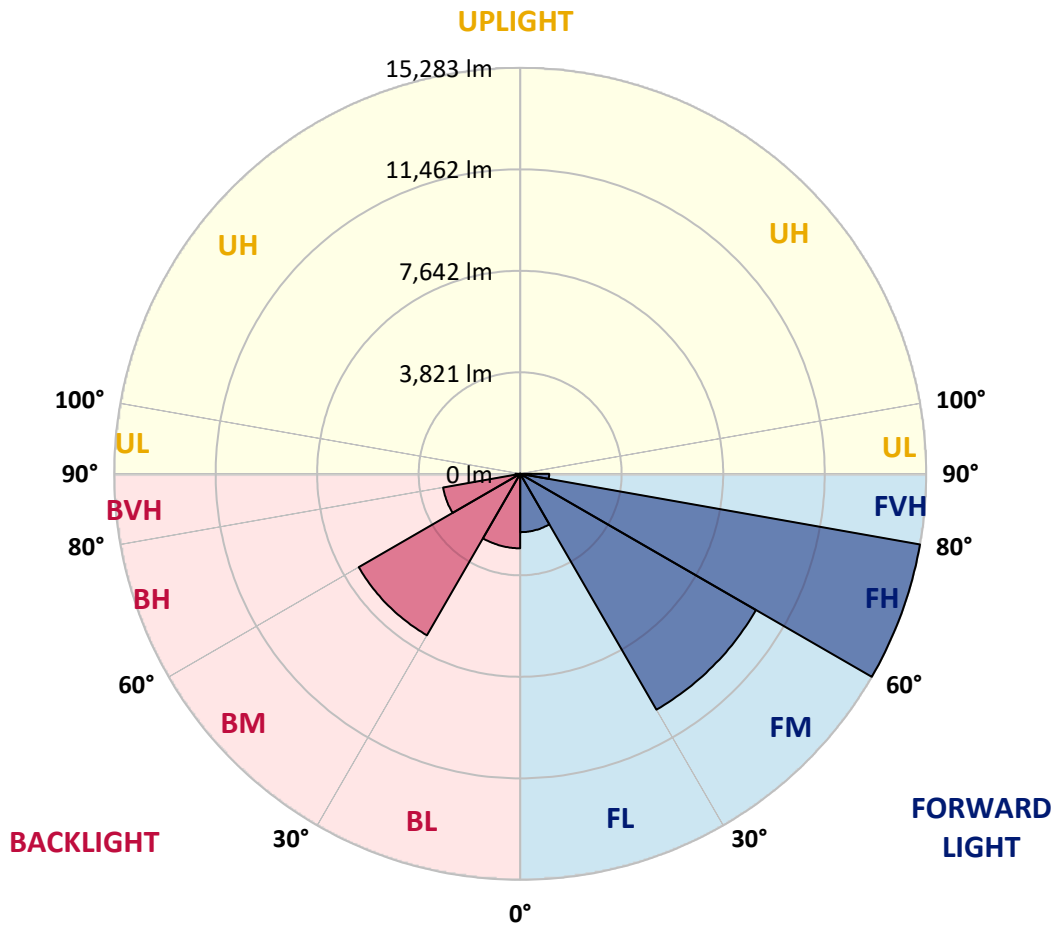
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.6	5.3			
FM (30°-60°)	10250.9	24.5			
FH (60°-80°)	15283.2	36.6			G5
FVH (80°-90°)	1090.0	2.6			G5
BL (0°-30°)	2802.6	6.7	B4/5000		
BM (30°-60°)	7017.9	16.8	B4/8500		
BH (60°-80°)	2943.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	174.0	0.4			G2/225
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



REPORT NUMBER: P943942  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2
2.5°	4702.1	4728.7	4722.0	4713.2	4713.2	4715.4	4713.2	4728.7	4744.2	4759.7
5°	4750.8	4777.4	4764.1	4753.0	4744.2	4742.0	4735.3	4733.1	4742.0	4761.9
7.5°	4846.1	4872.7	4852.7	4832.8	4815.1	4806.2	4797.3	4784.1	4777.4	4788.5
10°	4952.4	4979.0	4954.6	4919.2	4890.4	4879.3	4870.4	4857.1	4848.3	4854.9
12.5°	5058.7	5085.3	5052.1	5003.3	4965.7	4959.0	4948.0	4943.5	4941.3	4939.1
15°	5158.4	5180.5	5138.4	5080.8	5041.0	5029.9	5018.8	5025.5	5036.5	5049.8
17.5°	5235.9	5258.0	5196.0	5120.7	5083.1	5078.6	5072.0	5094.1	5125.1	5158.4
20°	5306.8	5328.9	5249.2	5147.3	5103.0	5103.0	5105.2	5151.7	5196.0	5244.7
22.5°	5406.4	5424.1	5326.7	5187.2	5122.9	5127.4	5145.1	5191.6	5247.0	5313.4
25°	5554.8	5568.1	5448.5	5262.5	5189.4	5202.7	5218.2	5240.3	5293.5	5371.0
27.5°	5794.0	5805.1	5647.8	5395.4	5284.6	5306.8	5328.9	5313.4	5337.8	5404.2
30°	6130.7	6137.3	5938.0	5603.5	5446.3	5457.4	5461.8	5397.6	5351.1	5404.2
32.5°	6529.4	6527.1	6290.1	5856.0	5630.1	5619.1	5581.4	5455.2	5346.6	5393.1
35°	7147.3	7122.9	6817.3	6210.4	5838.3	5769.7	5681.1	5519.4	5368.8	5382.1
37.5°	8170.5	8095.2	7672.2	6790.7	6148.4	5973.4	5842.8	5623.5	5417.5	5377.6
40°	9324.5	9229.2	8764.1	7585.8	6613.5	6332.2	6121.8	5771.9	5497.2	5397.6
42.5°	10693.3	10558.1	10057.6	8522.7	7202.7	6795.1	6478.4	5960.1	5614.6	5461.8
45°	12374.3	12194.9	11486.2	9579.2	7944.6	7402.0	6979.0	6245.9	5794.0	5585.8
47.5°	14073.1	14117.4	13109.6	10788.5	8835.0	8150.6	7605.8	6675.5	6055.4	5785.2
50°	15878.2	15909.2	14724.3	12128.5	9845.0	8996.7	8310.1	7156.2	6418.6	6068.7
52.5°	17286.8	17291.3	16190.5	13530.5	10897.0	9926.9	9069.8	7705.4	6839.4	6445.2
55°	18168.3	18157.3	17218.2	14857.2	12106.3	10903.7	9911.4	8330.0	7353.3	6888.2
57.5°	18808.4	18775.2	17926.9	15997.8	13395.4	12057.6	10863.8	9038.8	7960.1	7415.3
60°	19052.1	19032.1	18407.5	16983.4	14750.8	13333.3	11962.4	9831.7	8649.0	8037.7
62.5°	19145.1	19182.7	18879.3	17938.0	16201.6	14746.4	13169.4	10779.6	9424.1	8742.0
65°	19472.9	19541.5	19479.5	19187.2	17840.5	16400.9	14770.8	11907.0	10270.2	9497.2
67.5°	20121.8	20190.5	20217.1	20682.2	19842.8	18462.9	16768.6	13311.2	11260.3	10281.3
70°	20106.3	20086.4	20555.9	21871.6	22350.0	21317.8	19461.8	15038.8	12440.8	10932.5
72.5°	18301.2	18141.8	19251.4	21858.3	24436.3	24299.0	22750.8	17266.9	13459.6	11012.2
75°	13729.8	13304.6	15264.7	19698.8	24784.1	25991.2	24841.7	18649.0	13218.2	9729.8
77.5°	5871.5	5444.1	7754.2	14582.5	22181.6	24296.8	22923.6	16270.2	10551.5	6434.1
80°	1537.1	1534.9	2343.3	6611.3	15085.3	17942.4	15740.9	10507.2	6028.8	2299.0
82.5°	635.7	620.2	861.6	2571.4	7371.0	10068.7	8217.1	4686.6	2177.2	622.4
85°	237.0	234.8	418.6	888.2	2600.2	4152.8	3005.5	1198.2	542.6	303.4
87.5°	66.4	64.2	90.8	307.9	633.4	961.2	513.8	197.1	152.8	119.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943942  
 CATALOG NUMBER: GALN-SB8C-930-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4775.2	0°	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2	4775.2
4784.1	2.5°	4790.7	4801.8	4821.7	4837.2	4857.1	4879.3	4910.3	4930.2	4950.2	4963.5
4795.1	5°	4810.6	4835.0	4885.9	4936.9	4996.7	5052.1	5116.3	5162.8	5200.4	5211.5
4835.0	7.5°	4854.9	4894.8	4981.2	5067.6	5162.8	5253.6	5346.6	5426.4	5490.6	5515.0
4905.9	10°	4932.5	4985.6	5107.4	5229.2	5355.5	5495.0	5614.6	5729.8	5820.6	5858.3
4990.0	12.5°	5029.9	5096.3	5255.8	5424.1	5599.1	5791.8	5946.8	6088.6	6201.6	6252.5
5107.4	15°	5156.1	5242.5	5446.3	5672.2	5929.1	6197.1	6394.2	6551.5	6677.7	6739.8
5229.2	17.5°	5293.5	5408.6	5665.6	6006.6	6374.3	6726.5	6956.8	7072.0	7202.7	7262.5
5342.2	20°	5426.4	5568.1	5935.8	6431.9	6921.4	7295.7	7481.7	7512.7	7521.6	7528.2
5448.5	22.5°	5563.7	5754.2	6274.6	6967.9	7492.8	7751.9	7778.5	7645.6	7459.6	7373.2
5552.6	25°	5714.3	5966.8	6717.6	7559.3	7984.5	8015.5	7811.7	7488.4	7136.2	6974.5
5636.8	27.5°	5860.5	6212.6	7249.2	8124.0	8338.9	8066.5	7627.9	7169.4	6744.2	6573.6
5696.6	30°	6006.6	6493.9	7836.1	8617.9	8500.6	7940.2	7337.8	6826.1	6398.7	6219.3
5749.7	32.5°	6155.0	6821.7	8511.6	8974.5	8471.8	7672.2	6976.7	6440.8	6064.2	5876.0
5796.2	35°	6323.4	7224.8	9151.7	9169.4	8279.1	7278.0	6500.6	5980.1	5652.3	5501.7
5851.6	37.5°	6542.6	7736.4	9716.5	9218.2	7942.4	6699.9	5909.2	5435.2	5165.0	5096.3
5933.6	40°	6815.1	8352.2	10148.4	9140.6	7444.1	5997.8	5262.5	4883.7	4730.9	4746.4
6044.3	42.5°	7169.4	9041.0	10451.8	8941.3	6750.8	5273.5	4695.5	4527.1	4600.2	4662.2
6210.4	45°	7630.1	9756.4	10640.1	8602.4	5966.8	4660.0	4361.0	4400.9	4456.3	4462.9
6478.4	47.5°	8219.3	10480.6	10764.1	8090.8	5167.2	4228.1	4148.4	4157.3	4146.2	4099.7
6879.3	50°	8954.6	11184.9	10874.9	7413.1	4487.3	3957.9	3851.6	3820.6	3667.8	3517.2
7413.1	52.5°	9791.8	11831.7	10921.4	6571.4	3957.9	3732.0	3559.2	3364.3	3078.6	3032.1
8084.2	55°	10722.0	12429.7	10801.8	5537.1	3512.7	3441.9	3180.5	2945.7	2914.7	2874.9
8967.9	57.5°	11833.9	13074.2	10558.1	4383.2	3056.5	3103.0	2848.3	2874.9	2819.5	2757.5
10104.1	60°	13049.8	13740.9	10130.7	3331.1	2584.7	2680.0	2761.9	2759.7	2744.2	2693.2
11302.3	62.5°	14144.0	14179.4	9289.0	2551.5	2170.5	2352.2	2575.9	2573.6	2560.4	2531.6
12553.7	65°	14795.1	14113.0	7884.8	2008.9	1829.5	2082.0	2323.4	2341.1	2343.3	2341.1
13495.0	67.5°	14680.0	13335.6	5957.9	1599.1	1548.2	1807.3	2073.1	2097.5	2115.2	2119.6
13614.6	70°	13377.6	11627.9	3884.8	1275.7	1297.9	1565.9	1836.1	1860.5	1876.0	1893.7
11814.0	72.5°	10427.5	8549.3	2223.7	1032.1	1078.6	1357.7	1601.3	1630.1	1639.0	1672.2
8221.5	75°	6354.4	5027.7	1200.4	812.8	885.9	1160.6	1368.8	1402.0	1417.5	1457.4
4037.7	77.5°	3021.0	2177.2	684.4	633.4	713.2	948.0	1156.1	1193.8	1151.7	1173.9
1114.1	80°	1021.0	808.4	431.9	482.8	544.9	739.8	925.8	963.5	874.9	870.4
369.9	82.5°	356.6	327.8	274.6	321.2	352.2	529.3	699.9	748.6	651.2	648.9
166.1	85°	139.5	132.9	152.8	175.0	210.4	325.6	460.7	485.1	400.9	323.4
48.7	87.5°	28.8	31.0	37.7	39.9	64.2	113.0	166.1	203.8	161.7	137.3
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>
4775.2
4954.6
5216.0
5517.2
5860.5
6252.5
6735.3
7260.2
7546.0
7397.6
6998.9
6593.6
6239.2
5900.3
5534.9
5145.1
4799.6
4719.8
4507.2
4135.1
3537.1
3047.6
2881.5
2746.4
2675.5
2520.5
2341.1
2124.0
1902.5
1685.5
<i>1461.8</i>
1156.1
861.6
617.9
318.9
126.2
0.0

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