

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: P952933

Luminaire Tested: **GALN-SB6C-850-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-850-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

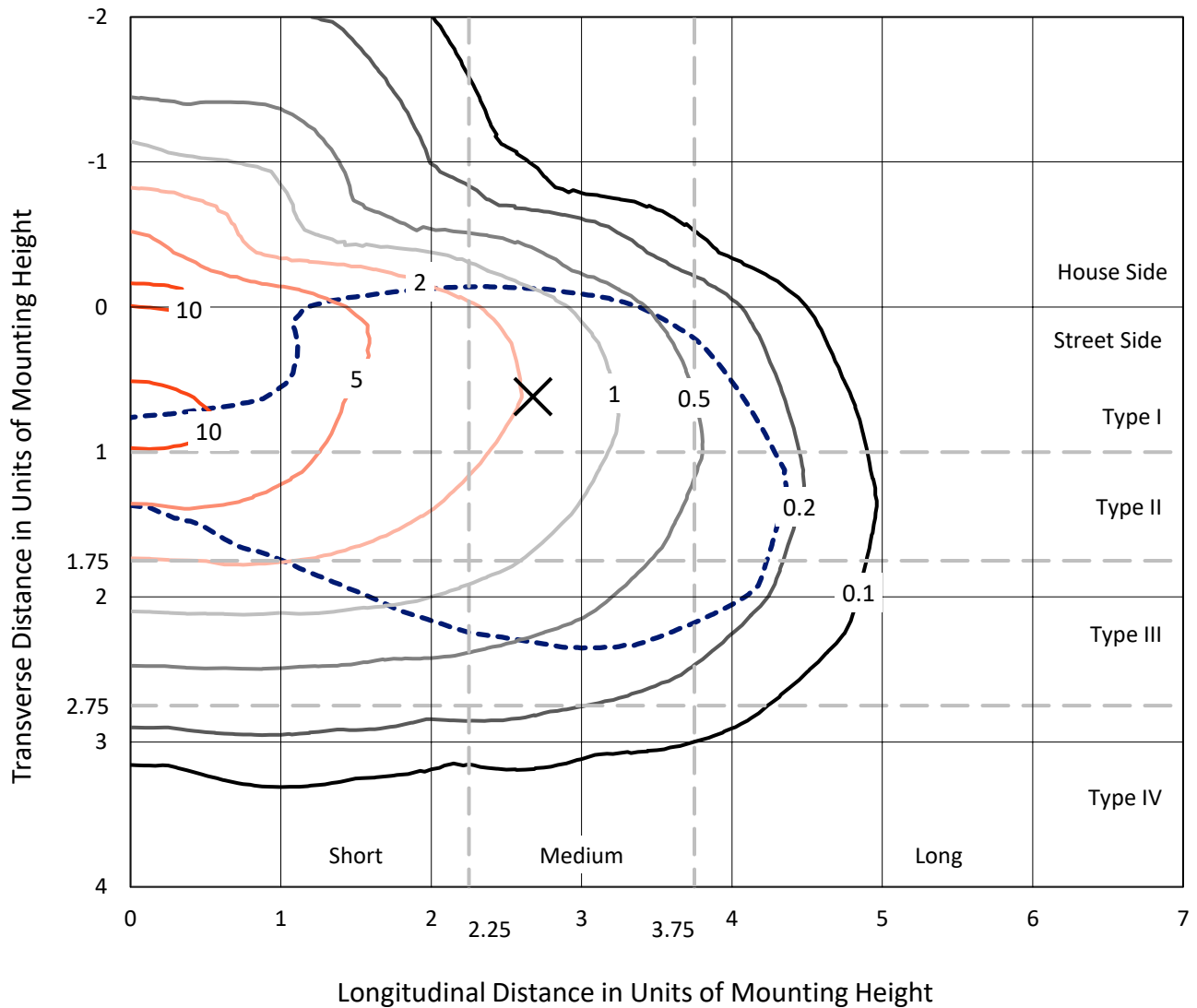
Lumens per Lamp: N/A  
Luminaire Lumens: 44595 lumens  
Efficiency: N/A  
Efficacy: 148.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): 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

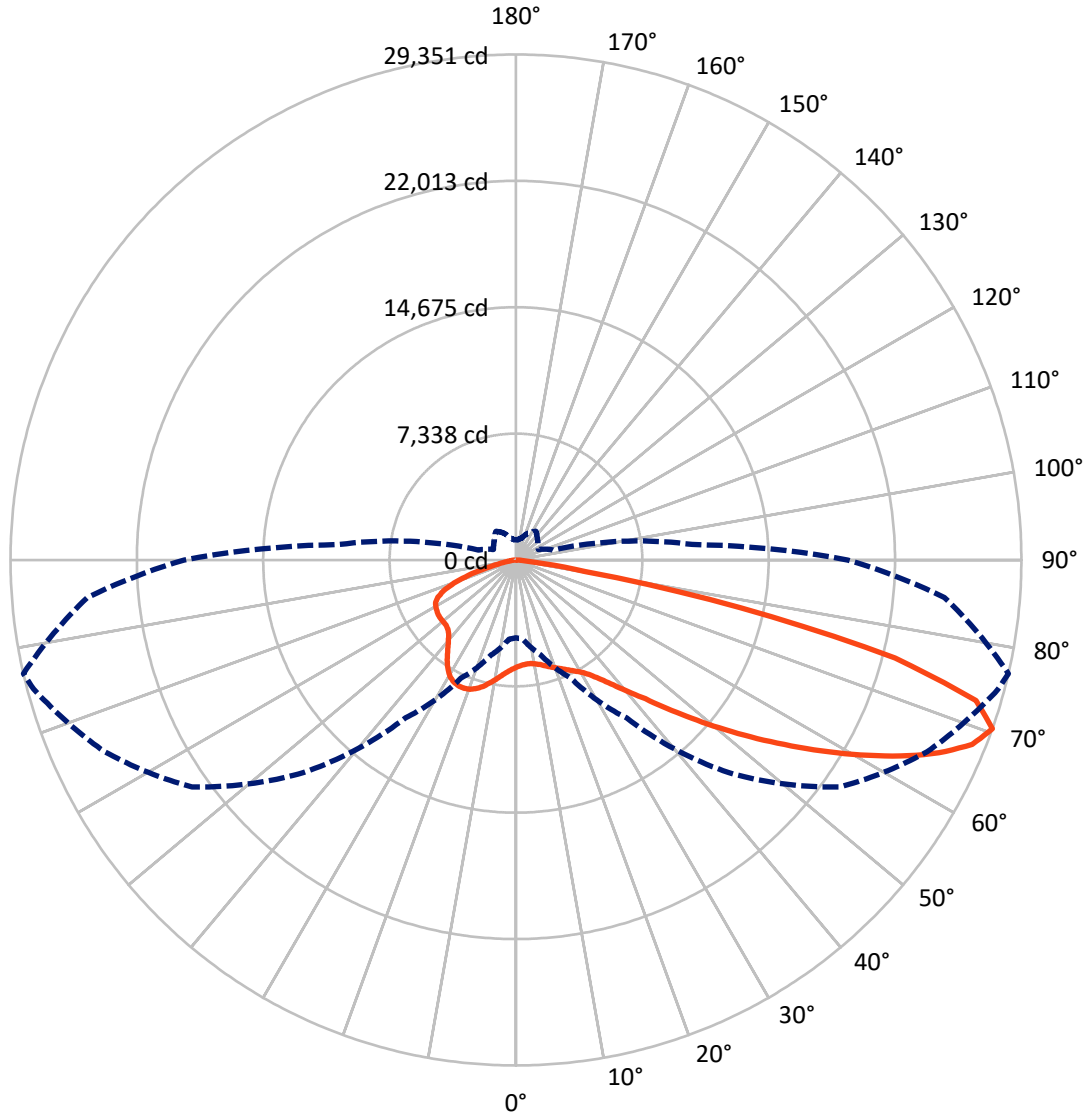
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9765.6	0.0	9765.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	34829.4	0.0	34829.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	44595.0	0.0	44595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.4	1.3
10°-20°	1712.5	3.8
20°-30°	2928.6	6.6
30°-40°	4709.5	10.6
40°-50°	7352.7	16.5
50°-60°	9821.5	22.0
60°-70°	10468.2	23.5
70°-80°	6444.1	14.5
80°-90°	564.7	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°	44595.0	100.0
0°-180°	44595.0	100.0

**Coefficient of Utilization**

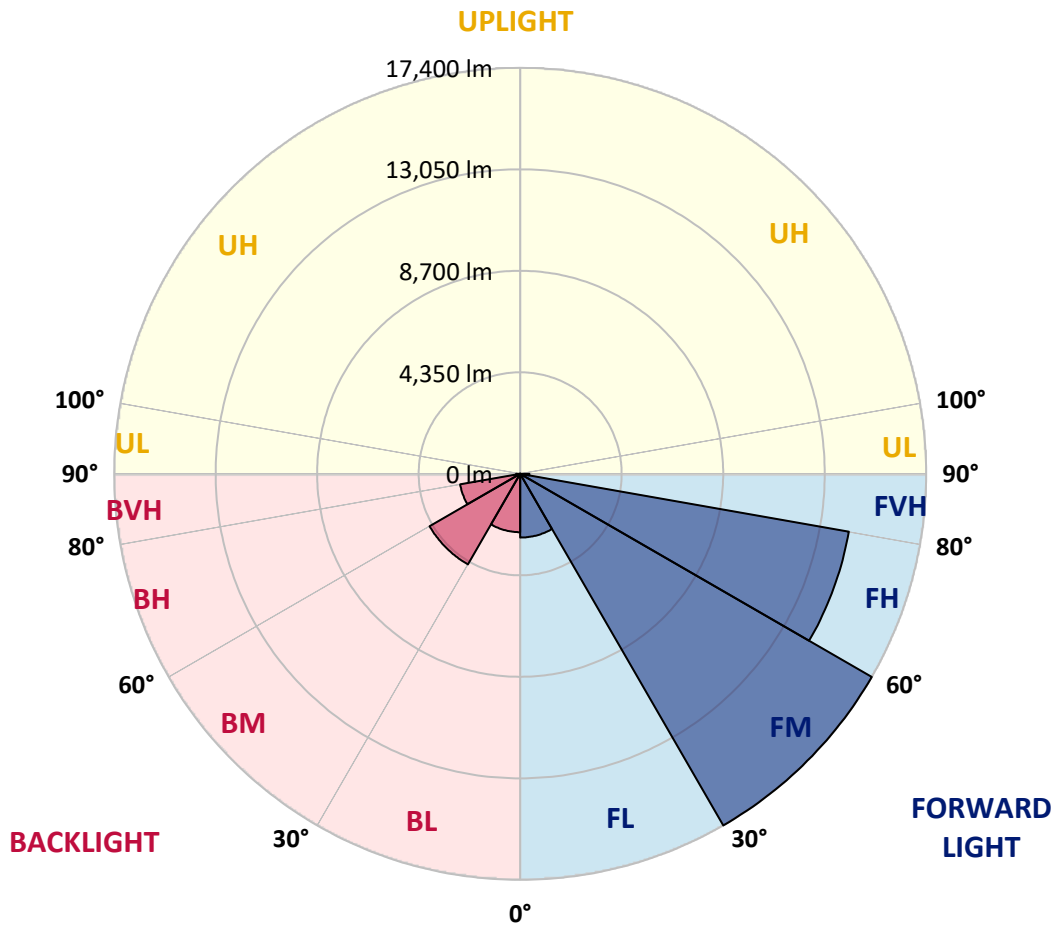


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.2	6.1			
FM (30°-60°)	17400.0	39.0			
FH (60°-80°)	14302.4	32.1			G5
FVH (80°-90°)	394.9	0.9			G3/500
BL (0°-30°)	2502.3	5.6	B4/5000		
BM (30°-60°)	4483.6	10.1	B3/5000		
BH (60°-80°)	2609.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	169.8	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4
2.5°	5734.9	5732.6	5762.3	5771.5	5826.3	5865.1	5938.2	6015.9	6116.3	6127.8
5°	5403.8	5403.8	5438.0	5474.6	5545.4	5623.0	5734.9	5869.7	6043.3	6070.7
7.5°	5122.8	5141.1	5170.8	5241.6	5323.8	5435.7	5607.0	5798.9	6027.3	6070.7
10°	4896.7	4917.3	4953.8	5010.9	5134.3	5289.6	5513.4	5760.1	6066.1	6134.6
12.5°	4825.9	4846.5	4867.0	4910.4	5024.6	5207.3	5474.6	5778.3	6159.7	6228.3
15°	4990.4	5015.5	4999.5	4988.1	5047.5	5214.2	5492.8	5844.6	6276.2	6374.4
17.5°	5369.5	5378.6	5342.1	5234.8	5225.6	5314.7	5579.6	5935.9	6422.4	6529.7
20°	5981.6	5965.6	5890.2	5677.8	5556.8	5538.5	5728.1	6073.0	6573.1	6687.3
22.5°	6812.9	6794.7	6643.9	6308.2	6038.7	5860.5	5942.8	6251.1	6742.1	6870.0
25°	7849.8	7824.7	7603.2	7146.4	6728.4	6287.6	6235.1	6486.3	6950.0	7068.7
27.5°	9060.3	9039.8	8800.0	8197.0	7594.0	6872.3	6598.3	6762.7	7167.0	7301.7
30°	10362.2	10421.5	9996.7	9348.1	8585.3	7635.2	7087.0	7103.0	7447.9	7568.9
32.5°	11892.4	11995.2	11483.6	10661.4	9619.9	8464.2	7703.7	7578.1	7856.7	7957.2
35°	13408.9	13525.4	13100.6	12191.6	10992.5	9441.7	8347.7	8123.9	8400.3	8509.9
37.5°	14719.9	14875.2	14655.9	13865.7	12461.1	10620.2	9188.2	8765.7	9069.5	9206.5
40°	15754.5	15992.0	15976.0	15482.7	14192.3	12050.0	10254.8	9558.2	9900.8	10049.3
42.5°	16595.0	16800.5	16978.7	16953.6	15998.9	13673.9	11508.7	10588.3	10848.6	11019.9
45°	17175.1	17394.4	17778.1	18191.5	17737.0	15411.9	12945.3	11810.2	12047.7	12305.8
47.5°	17693.6	17942.5	18440.4	19095.9	19212.4	17156.8	14518.9	13233.1	13450.0	13717.2
50°	17739.2	17953.9	18725.9	19655.5	20260.7	18833.2	16209.0	14829.5	15032.8	15318.3
52.5°	16636.1	16974.1	18321.6	19639.5	20742.6	20235.6	17887.7	16489.9	16718.3	17060.9
55°	12913.3	13408.9	17136.3	19027.4	20571.3	21142.3	19484.2	18255.4	18547.7	18906.3
57.5°	11122.7	11339.7	13603.1	17912.8	19790.2	21377.5	20831.7	20039.2	20509.6	20902.5
60°	9996.7	10177.2	11515.5	16179.3	18762.4	21005.3	21873.1	21701.8	22514.9	22983.1
62.5°	8790.8	8962.1	10179.4	13509.4	17446.9	20386.3	22530.9	23236.6	24570.5	25082.1
65°	7594.0	7740.2	8907.3	11351.1	15775.1	19767.4	22871.2	24563.6	26473.0	27002.8
67.5°	6260.2	6381.3	7484.4	9576.5	13742.4	18920.0	23040.2	25607.4	28128.8	28583.3
70°	4517.6	4611.2	5750.9	7573.5	11191.2	17462.9	22971.7	26347.3	28987.6	29350.7
72.5°	2135.5	2220.0	3558.4	4917.3	7904.7	14626.3	21585.4	25760.4	28115.1	27934.7
75°	1139.7	1212.8	2044.1	2697.3	4175.0	10026.4	17663.9	22190.6	23608.9	22731.9
77.5°	772.0	829.1	1265.3	1619.3	1907.1	4759.7	11353.4	15364.0	14781.6	13333.5
80°	612.1	671.5	1036.9	1096.3	922.7	1719.8	4691.2	7112.1	5109.1	4085.9
82.5°	470.5	536.7	872.5	794.8	502.5	705.7	1365.8	2249.7	1308.7	995.8
85°	287.8	358.6	685.2	507.0	283.2	322.0	463.6	625.8	399.7	333.5
87.5°	146.2	205.6	347.2	185.0	127.9	75.4	123.3	123.3	105.1	91.4
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°
6221.4	0°	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4	6221.4
6189.4	2.5°	6244.2	6289.9	6367.6	6440.7	6497.8	6552.6	6607.4	6637.1	6646.2	6682.8
6223.7	5°	6317.3	6401.8	6552.6	6694.2	6783.3	6838.1	6876.9	6899.7	6904.3	6915.7
6317.3	7.5°	6452.1	6586.8	6797.0	6938.6	7004.8	7000.2	6984.2	6927.1	6904.3	6883.7
6454.4	10°	6641.7	6819.8	7077.9	7176.1	7135.0	7025.4	6883.7	6717.0	6639.4	6564.0
6641.7	12.5°	6876.9	7103.0	7356.5	7352.0	7148.7	6867.8	6538.9	6283.1	6120.9	6004.4
6872.3	15°	7162.4	7422.8	7616.9	7461.6	7016.2	6511.5	6029.6	5696.1	5549.9	5422.0
7105.3	17.5°	7457.0	7735.7	7824.7	7427.3	6682.8	5983.9	5438.0	5175.4	5031.5	4963.0
7356.5	20°	7744.8	8021.1	7948.1	7230.9	6175.7	5385.5	4899.0	4755.1	4725.4	4741.4
7600.9	22.5°	8048.5	8295.2	7973.2	6851.8	5529.4	4773.4	4506.2	4510.8	4577.0	4624.9
7856.7	25°	8359.2	8525.9	7906.9	6303.6	4835.1	4323.5	4257.2	4330.3	4460.5	4554.1
8144.5	27.5°	8658.4	8731.4	7763.1	5625.3	4239.0	4001.4	4012.9	4163.6	4360.0	4490.2
8493.9	30°	8996.4	8914.2	7486.7	4862.5	3825.6	3725.1	3821.0	3996.9	4193.3	4309.8
8934.7	32.5°	9377.8	9071.7	7048.2	4156.7	3533.2	3503.5	3661.1	3775.3	3862.1	3896.4
9519.4	35°	9852.8	9293.3	6486.3	3661.1	3270.6	3341.4	3492.1	3435.0	3400.8	3382.5
10305.1	37.5°	10469.5	9592.5	5828.6	3339.1	3058.2	3224.9	3286.6	3108.4	2973.7	2907.4
11257.5	40°	11211.8	10031.0	5195.9	3090.1	2923.4	3124.4	3017.1	2802.4	2631.1	2537.4
12328.6	42.5°	12036.3	10490.1	4663.8	2902.9	2848.1	3042.2	2818.4	2562.6	2286.2	2256.5
13605.3	45°	12901.9	10962.8	4300.6	2759.0	2811.5	2971.4	2704.2	2290.8	2094.4	2215.4
14886.6	47.5°	13767.5	11396.8	4081.4	2651.6	2793.2	2891.4	2603.7	2140.0	2000.7	2176.6
16259.3	50°	14731.3	11785.0	3983.2	2574.0	2772.7	2859.5	2452.9	2101.2	1902.5	2019.0
17679.9	52.5°	15688.3	12086.5	3910.1	2496.3	2743.0	2834.3	2379.8	2055.5	1783.7	1790.6
19109.6	55°	16643.0	12282.9	3830.1	2393.6	2676.8	2779.5	2373.0	2005.3	1694.7	1662.7
20621.6	57.5°	17661.6	12394.9	3731.9	2279.4	2562.6	2640.2	2366.1	1966.5	1667.3	1614.7
22167.8	60°	18698.5	12559.3	3604.0	2140.0	2409.5	2473.5	2350.2	1952.8	1651.3	1562.2
23624.9	62.5°	19628.0	12616.4	3451.0	2007.6	2213.1	2309.0	2315.9	1941.3	1607.9	1454.9
24835.4	65°	20237.9	12369.7	3183.8	1856.8	2000.7	2140.0	2249.7	1902.5	1530.2	1377.2
25433.8	67.5°	20212.7	11666.3	2765.8	1662.7	1795.2	1952.8	2153.7	1836.3	1436.6	1281.3
24981.6	70°	19271.8	10277.7	2236.0	1436.6	1569.1	1751.8	2030.4	1738.1	1324.7	1176.2
22213.4	72.5°	16528.8	8044.0	1623.9	1171.7	1306.4	1543.9	1870.5	1619.3	1210.5	1082.6
16416.8	75°	11807.9	5090.9	1100.9	899.9	1016.3	1308.7	1671.8	1480.0	1105.4	1087.1
8222.1	77.5°	6031.8	2432.4	728.6	657.8	708.0	1032.3	1404.6	1322.4	1121.4	897.6
2338.7	80°	1961.9	897.6	459.1	447.6	470.5	687.5	1087.1	1084.9	849.6	609.8
566.4	82.5°	625.8	386.0	299.2	287.8	276.4	431.7	758.3	858.8	573.3	386.0
203.3	85°	248.9	230.7	175.9	162.2	116.5	203.3	397.4	571.0	427.1	278.6
52.5	87.5°	91.4	91.4	48.0	34.3	25.1	68.5	107.3	171.3	244.4	143.9
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>
6221.4
6703.3
6934.0
6888.3
6541.2
5977.0
5408.3
4983.5
4734.6
4636.4
4579.3
4522.2
4337.2
3914.6
3400.8
2923.4
2544.3
2286.2
2279.4
2258.8
2105.8
1838.6
1685.5
1621.6
1569.1
1454.9
1377.2
1288.1
1189.9
1075.7
1025.5
799.4
539.0
383.7
285.5
141.6
0.0

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