

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: P953227

Luminaire Tested: **GALN-SB6D-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953227  
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-SB6D-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

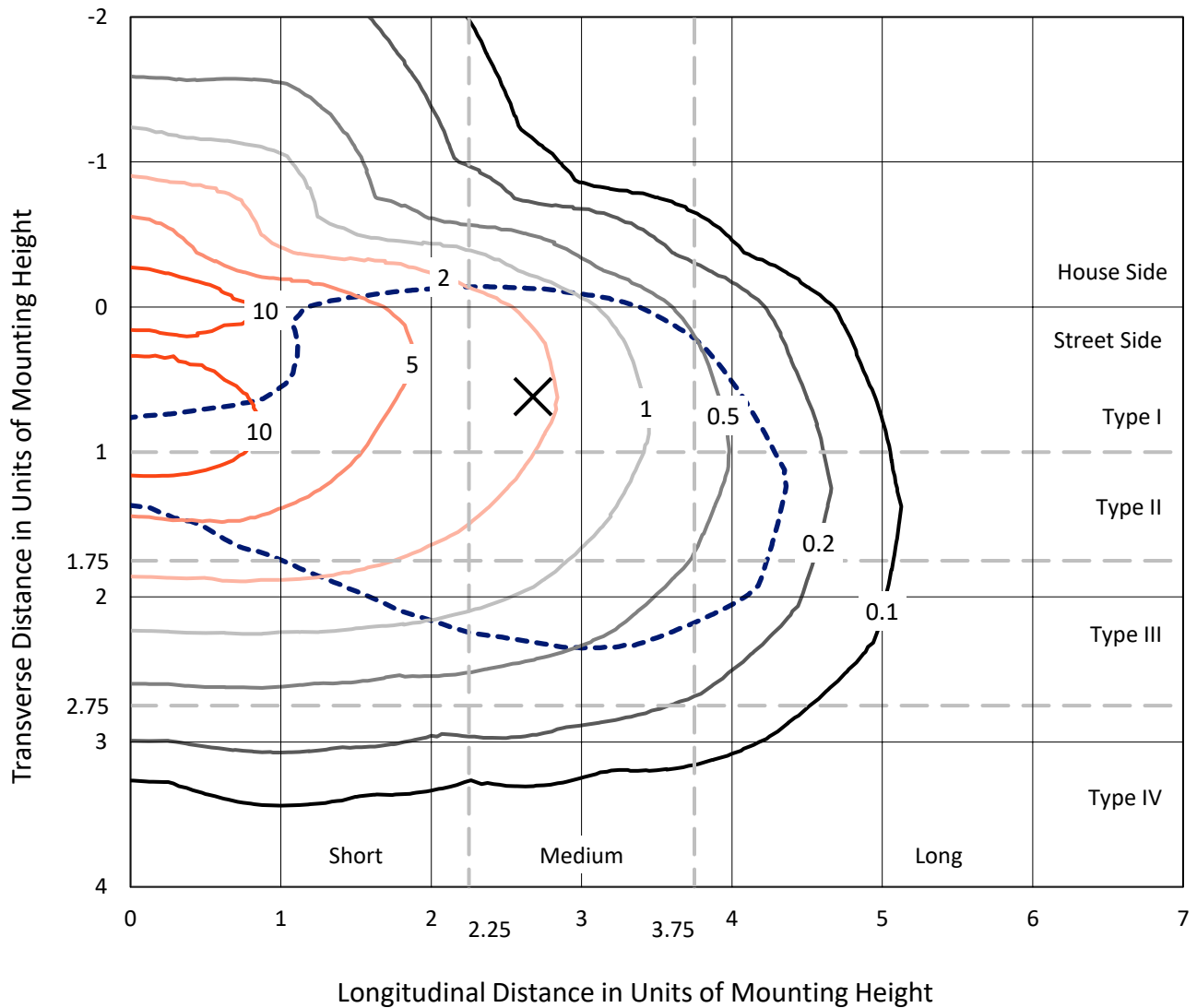
Lumens per Lamp: N/A  
Luminaire Lumens: 56922 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

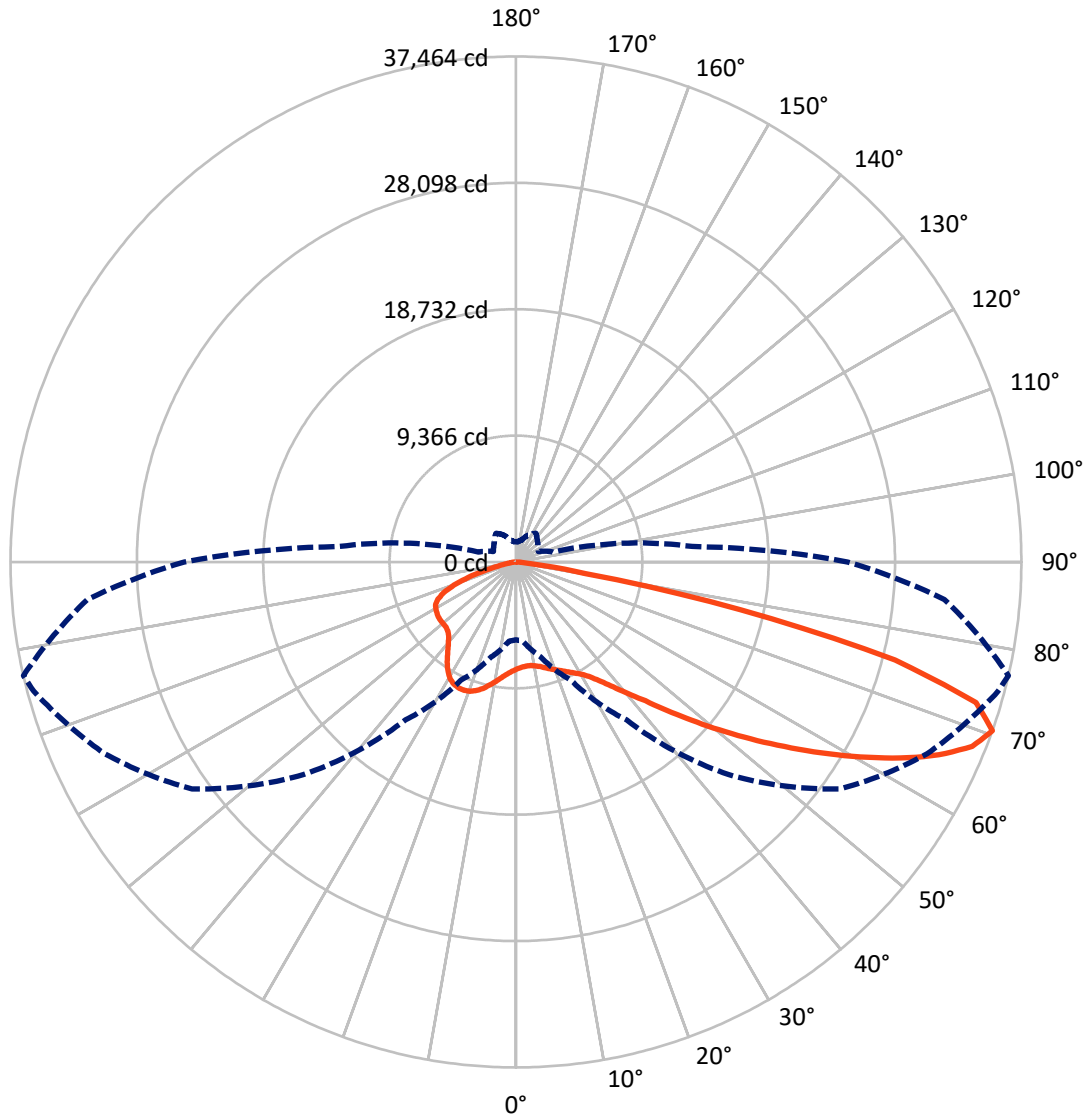
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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	12465.0	0.0	12465.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	44457.0	0.0	44457.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	56922.0	0.0	56922.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	757.4	1.3
10°-20°	2185.9	3.8
20°-30°	3738.1	6.6
30°-40°	6011.2	10.6
40°-50°	9385.1	16.5
50°-60°	12536.3	22.0
60°-70°	13361.8	23.5
70°-80°	8225.4	14.5
80°-90°	720.8	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°	56922.0	100.0
0°-180°	56922.0	100.0

**Coefficient of Utilization**



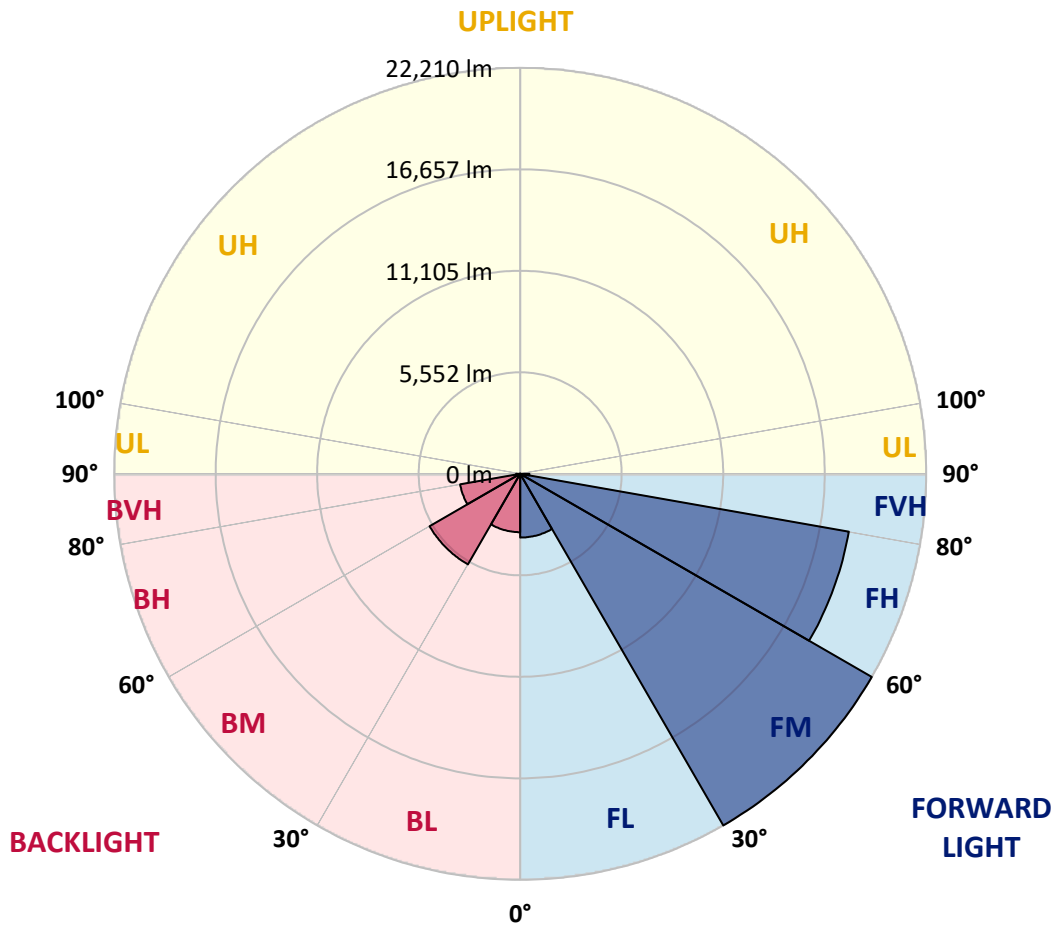
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3487.4	6.1			
FM (30°-60°)	22209.7	39.0			
FH (60°-80°)	18255.8	32.1			G5
FVH (80°-90°)	504.0	0.9			G4/750
BL (0°-30°)	3193.9	5.6	B4/5000		
BM (30°-60°)	5723.0	10.1	B4/8500		
BH (60°-80°)	3331.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	216.8	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°	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1
2.5°	7320.2	7317.3	7355.2	7366.8	7436.8	7486.4	7579.6	7678.8	7807.0	7821.6
5°	6897.5	6897.5	6941.2	6987.9	7078.2	7177.3	7320.2	7492.2	7713.7	7748.7
7.5°	6538.9	6562.2	6600.1	6690.5	6795.4	6938.3	7156.9	7401.8	7693.3	7748.7
10°	6250.3	6276.5	6323.2	6396.1	6553.5	6751.7	7037.4	7352.3	7742.9	7830.4
12.5°	6159.9	6186.2	6212.4	6267.8	6413.5	6646.8	6987.9	7375.6	7862.4	7949.9
15°	6369.8	6401.9	6381.5	6366.9	6442.7	6655.5	7011.2	7460.1	8011.1	8136.5
17.5°	6853.8	6865.4	6818.8	6681.8	6670.1	6783.8	7122.0	7576.7	8197.7	8334.7
20°	7635.0	7614.6	7518.4	7247.3	7092.8	7069.5	7311.4	7751.6	8390.1	8535.8
22.5°	8696.2	8672.9	8480.5	8051.9	7707.9	7480.5	7585.5	7979.0	8605.8	8769.1
25°	10019.7	9987.6	9704.9	9121.8	8588.3	8025.7	7958.6	8279.3	8871.1	9022.7
27.5°	11564.8	11538.6	11232.5	10462.8	9693.2	8772.0	8422.2	8632.1	9148.1	9320.1
30°	13226.5	13302.3	12760.0	11932.1	10958.4	9745.7	9046.0	9066.4	9506.6	9661.1
32.5°	15179.7	15310.9	14657.9	13608.4	12279.0	10803.9	9833.1	9672.8	10028.5	10156.7
35°	17115.4	17264.1	16721.9	15561.6	14031.1	12051.6	10655.2	10369.5	10722.3	10862.2
37.5°	18788.8	18987.0	18707.2	17698.5	15905.6	13555.9	11728.0	11188.7	11576.5	11751.4
40°	20109.4	20412.6	20392.2	19762.5	18115.4	15380.9	13089.5	12200.3	12637.6	12827.1
42.5°	21182.2	21444.6	21672.0	21639.9	20421.3	17453.6	14689.9	13515.1	13847.4	14066.1
45°	21922.7	22202.5	22692.3	23220.0	22639.8	19672.1	16523.6	15074.8	15377.9	15707.4
47.5°	22584.4	22902.2	23537.7	24374.4	24523.1	21899.4	18532.2	16891.0	17167.9	17509.0
50°	22642.7	22916.8	23902.1	25088.6	25861.2	24039.1	20689.5	18928.7	19188.2	19552.6
52.5°	21234.7	21666.1	23386.1	25068.2	26476.3	25829.1	22832.2	21048.1	21339.6	21776.9
55°	16482.8	17115.4	21873.1	24286.9	26257.6	26986.5	24870.0	23301.6	23674.7	24132.4
57.5°	14197.3	14474.2	17363.2	22864.3	25260.6	27286.7	26590.0	25578.4	26178.9	26680.4
60°	12760.0	12990.3	14698.7	20651.6	23948.8	26811.5	27919.3	27700.7	28738.5	29336.2
62.5°	11220.8	11439.4	12993.3	17243.7	22269.6	26021.5	28758.9	29659.7	31362.2	32015.3
65°	9693.2	9879.8	11369.5	14488.8	20135.6	25231.5	29193.3	31353.5	33790.7	34467.0
67.5°	7990.7	8145.2	9553.3	12223.6	17541.1	24149.9	29409.0	32685.8	35904.2	36484.3
70°	5766.4	5885.9	7340.6	9667.0	14284.7	22290.0	29321.6	33630.3	37000.3	37463.9
72.5°	2725.8	2833.6	4542.0	6276.5	10089.7	18669.3	27552.0	32881.1	35886.7	35656.4
75°	1454.7	1548.0	2609.1	3442.9	5329.1	12797.9	22546.5	28324.6	30134.9	29015.5
77.5°	985.4	1058.2	1615.0	2066.9	2434.2	6075.4	14491.7	19610.9	18867.5	17019.2
80°	781.3	857.1	1323.5	1399.3	1177.8	2195.2	5987.9	9078.1	6521.4	5215.4
82.5°	600.5	685.1	1113.6	1014.5	641.4	900.8	1743.3	2871.5	1670.4	1271.0
85°	367.3	457.7	874.6	647.2	361.5	411.1	591.8	798.8	510.2	425.6
87.5°	186.6	262.4	443.1	236.1	163.3	96.2	157.4	157.4	134.1	116.6
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°
7941.1	0°	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1
7900.3	2.5°	7970.3	8028.6	8127.7	8221.0	8293.9	8363.8	8433.8	8471.7	8483.4	8530.0
7944.1	5°	8063.6	8171.4	8363.8	8544.6	8658.3	8728.3	8777.8	8807.0	8812.8	8827.4
8063.6	7.5°	8235.6	8407.6	8675.8	8856.5	8941.1	8935.2	8914.8	8842.0	8812.8	8786.6
8238.5	10°	8477.5	8704.9	9034.4	9159.7	9107.2	8967.3	8786.6	8573.7	8474.6	8378.4
8477.5	12.5°	8777.8	9066.4	9390.0	9384.2	9124.7	8766.2	8346.4	8019.8	7812.9	7664.2
8772.0	15°	9142.2	9474.6	9722.4	9524.1	8955.6	8311.4	7696.3	7270.6	7084.1	6920.8
9069.3	17.5°	9518.3	9873.9	9987.6	9480.4	8530.0	7638.0	6941.2	6606.0	6422.3	6334.8
9390.0	20°	9885.6	10238.4	10145.1	9229.7	7882.8	6874.2	6253.2	6069.5	6031.7	6052.1
9701.9	22.5°	10273.3	10588.2	10177.1	8745.7	7057.8	6092.9	5751.8	5757.6	5842.2	5903.4
10028.5	25°	10669.8	10882.6	10092.6	8046.1	6171.6	5518.6	5434.0	5527.3	5693.5	5813.0
10395.8	27.5°	11051.7	11145.0	9908.9	7180.3	5410.7	5107.5	5122.1	5314.5	5565.2	5731.4
10841.8	30°	11483.2	11378.2	9556.2	6206.6	4883.0	4754.8	4877.2	5101.7	5352.4	5501.1
11404.5	32.5°	11970.0	11579.4	8996.5	5305.8	4509.9	4472.0	4673.1	4818.9	4929.7	4973.4
12150.8	35°	12576.4	11862.1	8279.3	4673.1	4174.6	4265.0	4457.4	4384.5	4340.8	4317.5
13153.6	37.5°	13363.5	12244.0	7439.7	4262.1	3903.5	4116.3	4195.0	3967.7	3795.7	3711.1
14369.3	40°	14311.0	12803.8	6632.2	3944.3	3731.5	3988.1	3851.0	3577.0	3358.4	3238.8
15736.5	42.5°	15363.4	13389.7	5952.9	3705.3	3635.3	3883.1	3597.4	3270.9	2918.2	2880.3
17366.1	45°	16468.2	13993.2	5489.4	3521.6	3588.7	3792.7	3451.7	2924.0	2673.3	2827.8
19001.6	47.5°	17573.1	14547.1	5209.5	3384.6	3565.3	3690.7	3323.4	2731.6	2553.8	2778.2
20753.7	50°	18803.4	15042.7	5084.2	3285.5	3539.1	3649.9	3131.0	2682.0	2428.4	2577.1
22566.9	52.5°	20024.8	15427.5	4990.9	3186.4	3501.2	3617.8	3037.7	2623.7	2276.8	2285.6
24391.9	55°	21243.4	15678.2	4888.9	3055.2	3416.7	3547.9	3028.9	2559.6	2163.1	2122.3
26321.8	57.5°	22543.6	15821.1	4763.5	2909.4	3270.9	3370.0	3020.2	2510.0	2128.1	2061.1
28295.4	60°	23867.1	16031.0	4600.3	2731.6	3075.6	3157.2	2999.8	2492.5	2107.7	1994.0
30155.3	62.5°	25053.6	16103.8	4404.9	2562.5	2824.9	2947.3	2956.1	2478.0	2052.3	1857.0
31700.4	65°	25832.0	15789.0	4063.9	2370.1	2553.8	2731.6	2871.5	2428.4	1953.2	1757.9
32464.2	67.5°	25800.0	14891.1	3530.4	2122.3	2291.4	2492.5	2749.1	2343.9	1833.7	1635.5
31887.0	70°	24598.9	13118.6	2854.0	1833.7	2002.8	2236.0	2591.7	2218.5	1690.8	1501.4
28353.7	72.5°	21097.7	10267.5	2072.7	1495.5	1667.5	1970.7	2387.6	2066.9	1545.1	1381.8
20954.8	75°	15071.8	6498.1	1405.2	1148.6	1297.3	1670.4	2134.0	1889.1	1411.0	1387.7
10494.9	77.5°	7699.2	3104.7	930.0	839.6	903.7	1317.7	1792.9	1687.9	1431.4	1145.7
2985.2	80°	2504.2	1145.7	586.0	571.4	600.5	877.5	1387.7	1384.7	1084.5	778.4
723.0	82.5°	798.8	492.7	381.9	367.3	352.7	551.0	967.9	1096.1	731.7	492.7
259.5	85°	317.8	294.4	224.5	207.0	148.7	259.5	507.3	728.8	545.2	355.7
67.1	87.5°	116.6	116.6	61.2	43.7	32.1	87.5	137.0	218.6	311.9	183.7
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>
7941.1
8556.3
8850.7
8792.4
8349.3
7629.2
6903.3
6361.1
6043.3
5918.0
5845.1
5772.2
5536.1
4996.7
4340.8
3731.5
3247.6
2918.2
2909.4
2883.2
2687.9
2346.8
2151.5
2069.8
2002.8
1857.0
1757.9
1644.2
<i>1518.8</i>
1373.1
1308.9
1020.3
688.0
489.8
364.4
180.7
0.0

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