

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: P956085

Luminaire Tested: **GALN-SB8D-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956085  
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-SB8D-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

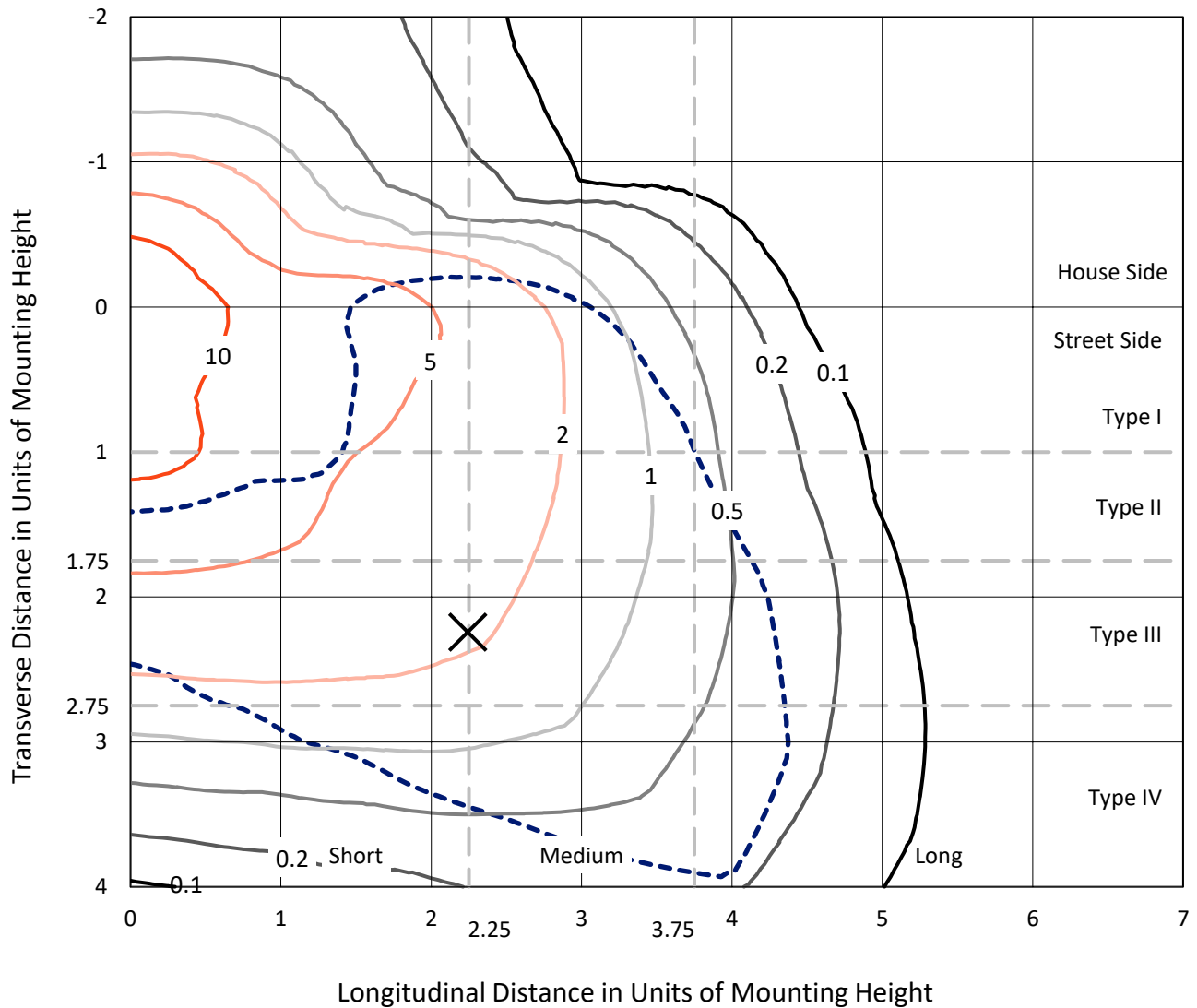
Lumens per Lamp: N/A  
Luminaire Lumens: 73793 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

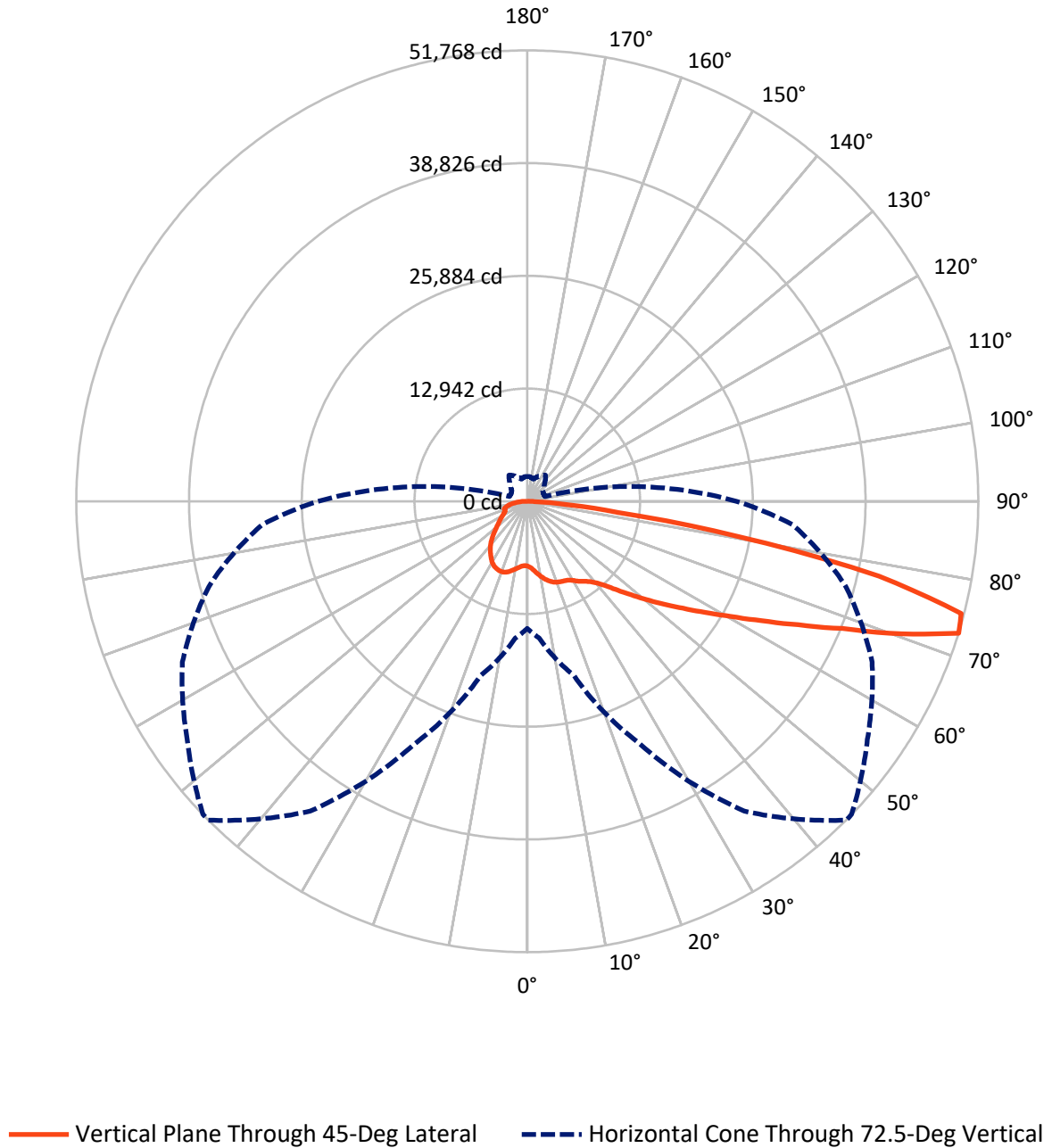
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16682.1	0.0	16682.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	57110.9	0.0	57110.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	73793.0	0.0	73793.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	757.7	1.0
10°-20°	2526.2	3.4
20°-30°	4394.5	6.0
30°-40°	6299.7	8.5
40°-50°	8870.4	12.0
50°-60°	13586.8	18.4
60°-70°	19682.5	26.7
70°-80°	15717.7	21.3
80°-90°	1957.6	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°	73793.0	100.0
0°-180°	73793.0	100.0

**Coefficient of Utilization**



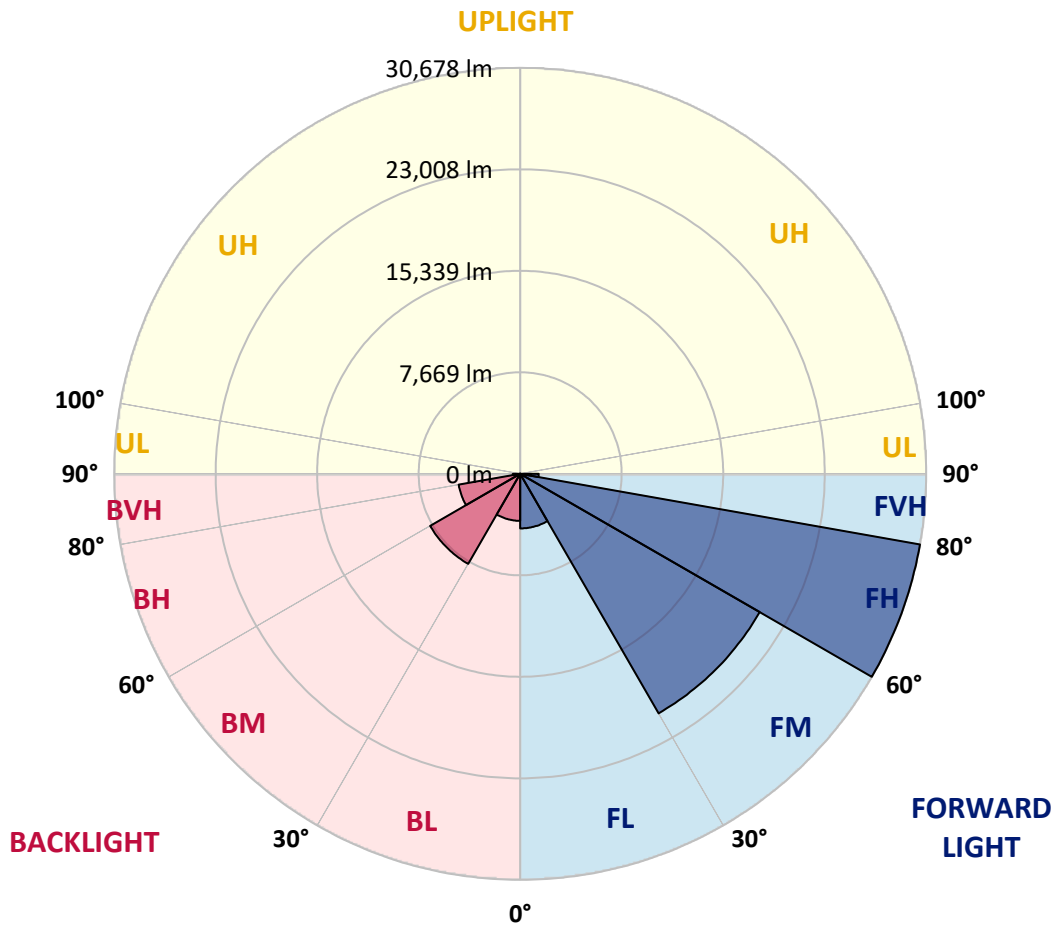
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4126.6	5.6			
FM (30°-60°)	20902.0	28.3			
FH (60°-80°)	30677.9	41.6			G5
FVH (80°-90°)	1404.4	1.9			G5
BL (0°-30°)	3551.7	4.8	B4/5000		
BM (30°-60°)	7854.9	10.6	B4/8500		
BH (60°-80°)	4722.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	553.2	0.7			G4/750
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3
2.5°	7735.8	7786.4	7739.7	7697.0	7677.5	7627.0	7623.1	7592.0	7572.6	7518.1
5°	8276.2	8342.3	8264.5	8179.0	8101.2	7976.8	7961.3	7871.9	7770.8	7654.2
7.5°	8886.5	8944.8	8855.4	8727.1	8591.0	8385.0	8381.1	8217.9	8058.5	7860.2
10°	9419.1	9496.8	9376.3	9201.4	9030.3	8797.1	8769.9	8583.3	8381.1	8124.6
12.5°	9889.4	9943.8	9827.2	9613.4	9415.2	9181.9	9146.9	8940.9	8715.4	8423.9
15°	10262.6	10332.6	10177.1	9947.7	9737.8	9508.5	9477.4	9290.8	9065.3	8758.2
17.5°	10507.5	10565.8	10406.4	10149.9	9947.7	9757.3	9733.9	9578.4	9380.2	9069.2
20°	10600.8	10663.0	10495.8	10235.4	10048.8	9901.1	9889.4	9776.7	9640.6	9356.9
22.5°	10694.1	10752.4	10534.7	10262.6	10099.3	10006.0	10002.2	9928.3	9873.9	9640.6
25°	11071.2	11086.7	10795.2	10402.6	10169.3	10087.7	10083.8	10079.9	10103.2	9920.5
27.5°	11397.7	11393.8	11145.0	10775.7	10414.2	10243.2	10239.3	10278.2	10352.0	10200.4
30°	11875.9	11833.1	11537.7	11152.8	10822.4	10558.0	10534.7	10499.7	10558.0	10437.5
32.5°	12890.5	12754.4	12276.3	11592.1	11160.6	10958.4	10927.3	10709.7	10733.0	10659.1
35°	14344.3	14165.5	13528.0	12424.0	11580.4	11292.8	11277.2	11001.2	10954.6	10888.5
37.5°	16074.2	15852.6	15110.1	13629.1	12303.5	11681.5	11658.2	11409.4	11218.9	11148.9
40°	17811.8	17532.0	16917.8	15098.5	13368.6	12330.7	12256.8	11879.7	11662.1	11545.4
42.5°	19499.0	19265.7	18740.9	16746.7	14682.5	13279.2	13115.9	12470.6	12307.4	12198.5
45°	20991.7	20781.8	20396.9	18507.7	16221.9	14569.8	14410.4	13356.9	13306.4	13306.4
47.5°	22204.5	22157.9	21749.7	20303.6	18037.3	16039.2	15763.2	14589.2	14725.3	14935.2
50°	23549.6	23421.3	22985.9	22072.4	20171.5	17722.4	17497.0	16101.4	16610.7	17186.0
52.5°	24785.8	24855.7	24369.8	23915.0	22581.6	19600.0	19203.5	17885.7	18985.8	19938.2
55°	26056.9	26060.8	25924.7	25862.5	25108.4	21675.9	21240.5	20031.5	21780.8	22962.6
57.5°	27250.3	27258.1	27460.2	28008.4	28039.5	24070.5	23576.8	22667.1	24886.8	26091.9
60°	28315.5	28369.9	28921.9	30204.7	30616.8	26814.9	26348.5	25780.9	28097.8	29310.6
62.5°	28673.1	28871.4	30099.8	31922.9	33163.0	30181.4	29722.7	29384.5	31472.0	32599.3
65°	28066.7	28521.5	30896.7	33341.8	35783.1	34181.5	33726.7	33357.4	34978.4	36039.6
67.5°	26577.8	27164.8	30850.0	34830.7	38962.9	38994.0	38570.3	37703.4	38737.5	39145.6
70°	22655.5	23534.0	28132.8	35386.6	42613.1	45575.3	45167.1	42935.8	42488.7	40514.0
72.5°	14597.0	15778.8	20715.7	30811.1	43425.6	51767.9	51744.5	47658.9	43674.4	37855.0
75°	5325.7	6048.7	9625.1	19339.6	36451.7	51453.0	51604.6	46850.4	39868.7	29240.7
77.5°	1939.8	2122.5	3141.0	7432.6	22418.4	41283.7	41598.5	37454.6	28377.7	14674.8
80°	1018.5	1119.6	1609.4	2884.4	9605.6	24517.5	25011.2	22259.0	13337.5	4419.9
82.5°	563.7	610.3	901.9	1566.6	4326.6	10484.2	10779.6	8793.2	4692.0	1873.7
85°	303.2	322.7	423.7	855.2	2114.7	3634.7	3716.3	2627.8	1869.8	1100.1
87.5°	89.4	108.8	139.9	272.1	828.0	816.3	835.8	520.9	738.6	555.9
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°
7444.3	0°	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3	7444.3
7502.6	2.5°	7479.3	7467.6	7424.8	7405.4	7382.1	7378.2	7397.6	7401.5	7405.4	7409.3
7588.1	5°	7549.2	7510.4	7471.5	7448.2	7455.9	7459.8	7498.7	7525.9	7545.3	7560.9
7747.5	7.5°	7685.3	7654.2	7588.1	7584.2	7595.9	7630.9	7681.4	7743.6	7778.6	7805.8
7953.5	10°	7887.4	7829.1	7751.4	7763.0	7786.4	7836.9	7941.9	7992.4	8050.7	8101.2
8206.2	12.5°	8093.5	8042.9	7953.5	7961.3	8000.2	8089.6	8190.6	8252.8	8291.7	8330.6
8478.3	15°	8361.7	8272.3	8175.1	8175.1	8245.1	8342.3	8388.9	8439.4	8462.8	8505.5
8769.9	17.5°	8637.7	8521.1	8392.8	8385.0	8470.5	8517.2	8544.4	8552.2	8559.9	8606.6
9053.6	20°	8913.7	8785.4	8602.7	8587.2	8606.6	8598.8	8594.9	8587.2	8598.8	8657.1
9345.2	22.5°	9185.8	9038.1	8785.4	8715.4	8661.0	8587.2	8583.3	8579.4	8587.2	8645.5
9660.1	25°	9504.6	9325.8	8987.6	8777.6	8594.9	8493.9	8505.5	8509.4	8517.2	8563.8
9986.6	27.5°	9850.5	9652.3	9174.1	8758.2	8427.8	8357.8	8338.4	8350.0	8377.2	8451.1
10313.1	30°	10196.5	9963.3	9345.2	8680.5	8217.9	8120.7	8058.5	8085.7	8171.2	8245.1
10596.9	32.5°	10511.4	10278.2	9481.2	8509.4	7949.6	7798.0	7716.4	7751.4	7836.9	7864.1
10911.8	35°	10880.7	10616.4	9539.6	8237.3	7658.1	7424.8	7316.0	7265.5	7308.2	7281.0
11281.1	37.5°	11292.8	11016.8	9531.8	7879.7	7316.0	7047.8	6896.2	6705.7	6616.3	6523.0
11825.3	40°	11903.1	11506.6	9438.5	7448.2	6892.3	6647.4	6375.3	6052.6	5850.5	5667.8
12703.9	42.5°	12735.0	12186.8	9267.4	6973.9	6414.1	6184.8	5815.5	5438.4	5119.6	4816.4
14037.2	45°	13975.0	13077.0	9053.6	6468.6	5897.1	5671.6	5271.2	4847.5	4486.0	4097.3
15930.4	47.5°	15763.2	14274.4	8851.5	5893.2	5352.9	5146.9	4785.3	4392.7	3965.1	3588.0
18667.1	50°	18220.0	15992.6	8664.9	5333.4	4816.4	4660.9	4373.3	3972.9	3541.4	3238.2
21874.1	52.5°	21345.4	18328.9	8587.2	4793.1	4315.0	4256.6	4027.3	3654.1	3245.9	2989.4
25613.8	55°	24933.5	21123.9	8587.2	4276.1	3875.7	3895.1	3735.7	3389.8	3036.0	2806.7
29470.0	57.5°	28595.4	23953.9	8431.7	3797.9	3502.5	3584.1	3483.1	3179.9	2861.1	2624.0
33524.5	60°	31969.6	26325.1	7801.9	3362.6	3172.1	3300.4	3234.3	2973.8	2585.1	2386.8
36914.3	62.5°	34562.4	27662.4	6589.1	3016.6	2900.0	3047.7	3012.7	2701.7	2534.6	2452.9
39697.6	65°	35860.8	27444.7	5038.0	2709.5	2670.6	2900.0	2826.1	2814.4	2682.3	2589.0
40603.4	67.5°	35063.9	25571.0	3654.1	2484.0	2538.4	2763.9	3047.7	3094.3	2849.4	2666.7
38053.3	70°	31569.2	22181.2	2721.1	2270.2	2371.3	2767.8	3475.3	3238.2	2795.0	2581.2
30519.6	72.5°	24016.1	16540.7	2110.8	2044.7	2153.6	2787.2	3665.8	3172.1	2639.5	2853.3
19013.0	75°	13734.0	9080.9	1694.9	1768.7	1881.5	2604.5	3568.6	3001.0	2519.0	2620.1
7533.7	77.5°	5236.3	3490.8	1399.4	1496.6	1512.2	2274.1	3413.1	2989.4	2398.5	2340.2
2258.6	80°	1815.4	1364.5	1158.4	1189.5	1170.1	2021.4	3273.1	2600.6	1963.1	1757.1
933.0	82.5°	742.5	680.3	917.4	878.5	831.9	1570.5	2643.4	2126.4	1605.5	1418.9
450.9	85°	322.7	431.5	606.4	532.6	482.0	1088.5	2118.6	1799.8	1356.7	1170.1
147.7	87.5°	66.1	163.3	256.6	241.0	248.8	726.9	1504.4	1278.9	960.2	719.2
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

180°  
7444.3  
7424.8  
7568.7  
7813.6  
8089.6  
8346.1  
8521.1  
8622.1  
8680.5  
8684.3  
8626.0  
8525.0  
8326.7  
7961.3  
7366.5  
6581.3  
5679.4  
4789.2  
4050.6  
3545.3  
3218.7  
2969.9  
2783.3  
2585.1  
2355.7  
2425.7  
2557.9  
2635.6  
2546.2  
2830.0  
2620.1  
2134.2  
1698.8  
1403.3  
1166.2  
563.7  
0.0

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