

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: P942489

Luminaire Tested: **GALN-SB6C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44886 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

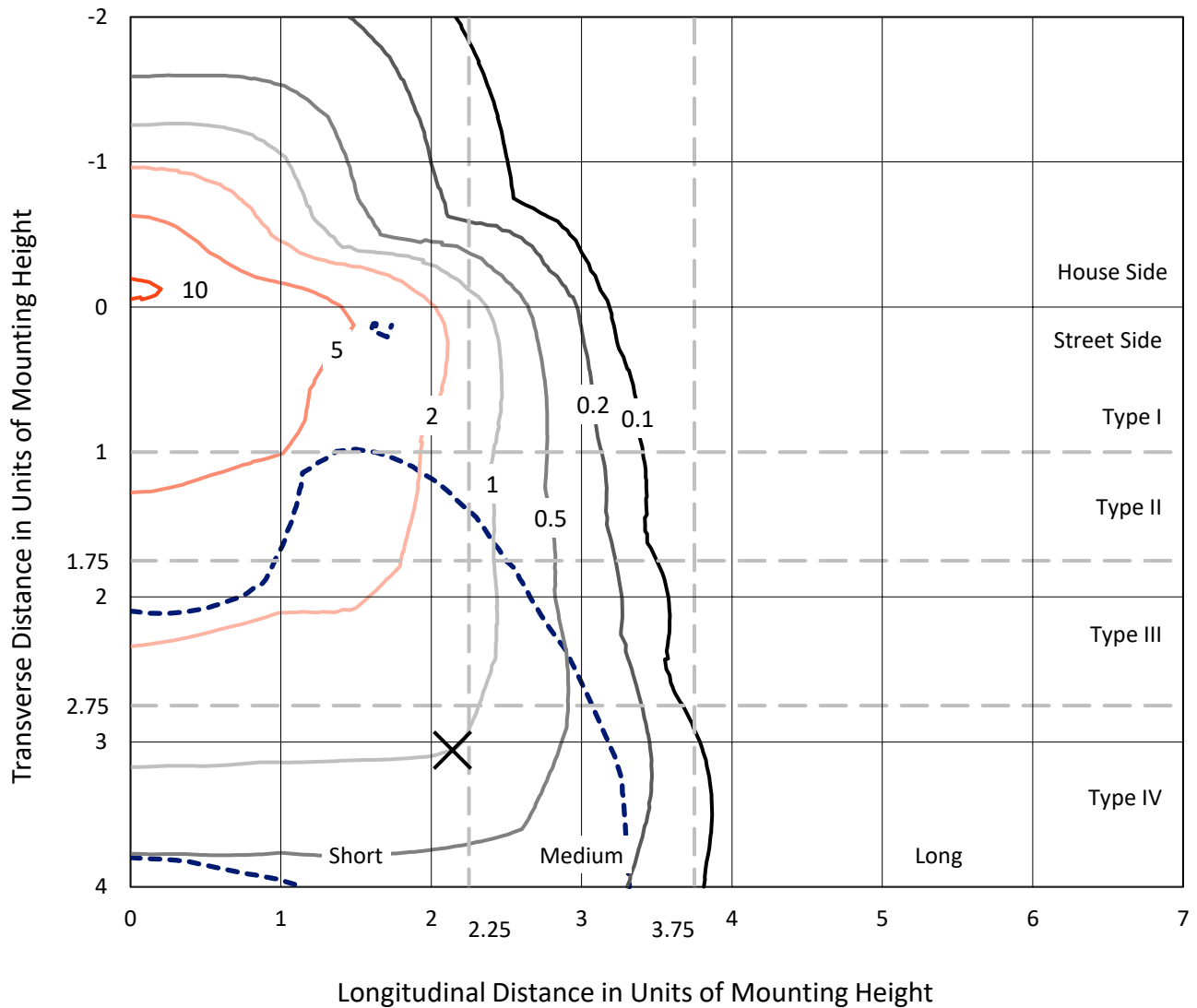
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

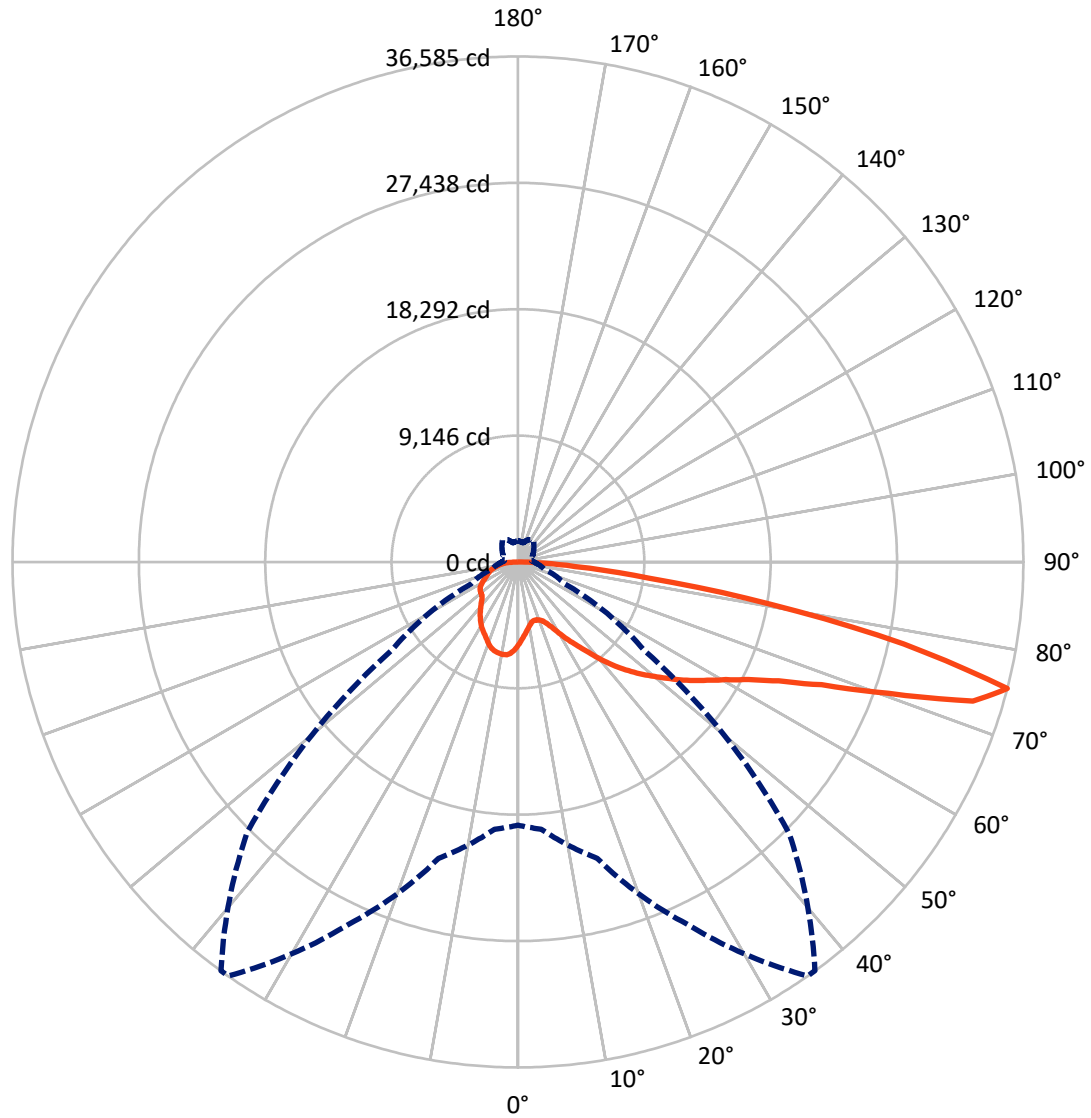
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10681.7	0.0	10681.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	34204.3	0.0	34204.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	44886.0	0.0	44886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.3	1.3
10°-20°	1633.5	3.6
20°-30°	2743.1	6.1
30°-40°	4263.1	9.5
40°-50°	6327.6	14.1
50°-60°	8735.6	19.5
60°-70°	10598.3	23.6
70°-80°	8758.7	19.5
80°-90°	1259.8	2.8
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°	44886.0	100.0
0°-180°	44886.0	100.0

Coefficient of Utilization



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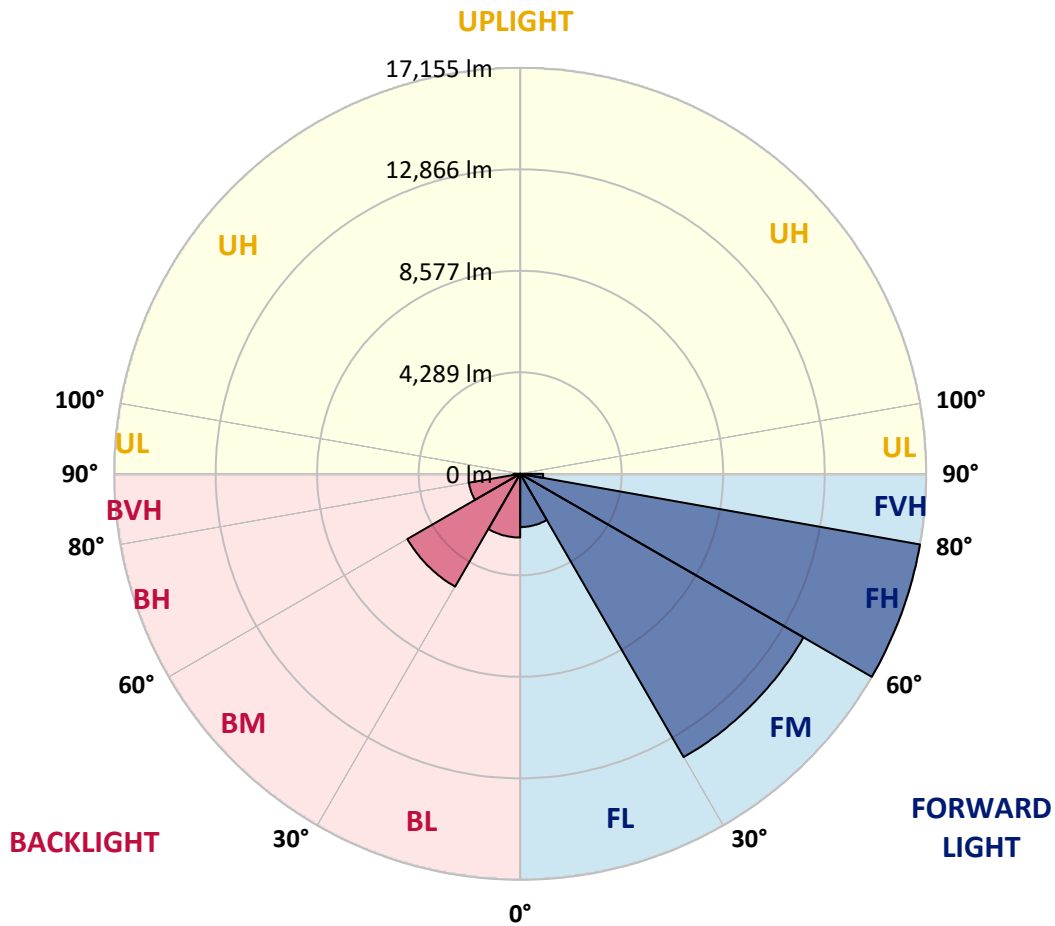
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.9	5.0			
FM (30°-60°)	13822.5	30.8			
FH (60°-80°)	17154.8	38.2			G5
FVH (80°-90°)	976.1	2.2			G5
BL (0°-30°)	2691.9	6.0	B4/5000		
BM (30°-60°)	5503.9	12.3	B4/8500		
BH (60°-80°)	2202.2	4.9	B3/2500		G3/2500
BVH (80°-90°)	283.7	0.6			G3/500
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°	36°	45°	55°	65°	75°
0°	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4
2.5°	5515.5	5549.4	5564.0	5556.7	5593.1	5588.3	5639.2	5702.3	5789.7	5874.6
5°	5090.8	5127.2	5158.8	5187.9	5258.3	5280.1	5360.2	5481.5	5641.7	5804.2
7.5°	4695.3	4726.9	4775.4	4828.8	4947.7	4969.5	5103.0	5292.2	5515.5	5753.3
10°	4372.6	4404.1	4455.1	4515.7	4663.8	4690.5	4860.3	5112.7	5403.9	5704.7
12.5°	4234.3	4244.0	4273.1	4333.8	4462.4	4479.3	4666.2	4954.9	5294.7	5668.3
15°	4227.0	4246.4	4248.8	4280.4	4387.1	4394.4	4566.7	4853.0	5226.7	5661.1
17.5°	4299.8	4314.3	4292.5	4311.9	4401.7	4413.8	4549.7	4804.5	5204.9	5692.6
20°	4493.9	4506.0	4440.5	4413.8	4479.3	4489.1	4622.5	4836.0	5226.7	5758.1
22.5°	4906.4	4913.7	4753.5	4644.4	4649.2	4654.1	4770.5	4964.7	5311.6	5877.0
25°	5549.4	5544.6	5289.8	5078.7	4957.4	4930.7	5008.3	5173.3	5454.8	6034.7
27.5°	6301.7	6265.3	6010.5	5695.0	5430.5	5391.7	5374.7	5445.1	5658.6	6243.4
30°	7150.9	7117.0	6842.8	6430.3	6063.9	6000.8	5840.6	5804.2	5962.0	6527.3
32.5°	8082.7	8060.9	7733.3	7233.4	6743.3	6670.5	6401.2	6304.1	6427.8	6956.8
35°	8864.1	8844.7	8572.9	8058.5	7459.1	7369.3	7095.1	6985.9	7049.0	7507.6
37.5°	9570.2	9560.5	9327.5	8922.3	8303.5	8194.3	7886.2	7849.8	7837.6	8233.2
40°	10225.3	10201.1	9958.4	9744.9	9286.3	9186.8	8915.0	8883.5	8791.3	9126.1
42.5°	10950.9	10887.8	10535.9	10436.4	10312.7	10230.2	10067.6	10072.5	9868.6	10133.1
45°	11542.9	11506.5	11145.0	11086.8	11220.2	11186.2	11327.0	11363.4	10967.9	11188.7
47.5°	12178.7	12144.7	11839.0	11797.7	12159.3	12169.0	12666.4	12678.5	12040.4	12285.5
50°	12962.5	12913.9	12610.6	12661.6	13066.8	13103.2	14013.1	13930.6	13028.0	13399.2
52.5°	13479.3	13508.4	13442.9	13525.4	14078.6	14112.6	15338.0	15126.9	14005.9	14498.4
55°	13860.3	13918.5	14122.3	14311.6	15146.3	15180.3	16587.7	16264.9	14816.3	15517.6
57.5°	14350.4	14267.9	14648.9	15017.7	16160.6	16250.4	17803.4	17361.7	15534.6	16396.0
60°	15054.1	14995.9	15291.9	15837.9	17296.2	17439.4	19089.4	18349.3	16061.1	17092.4
62.5°	16480.9	16335.3	16381.4	16864.3	18727.9	18917.1	20540.5	19210.7	16323.2	17364.2
65°	18613.8	18363.9	18130.9	18465.8	20744.3	20931.1	22178.4	19887.7	16226.1	16837.6
67.5°	21300.0	21052.5	20766.1	21081.6	23714.3	23862.4	24199.6	20268.7	15461.8	14809.0
70°	23515.4	23423.2	23765.3	25063.5	28458.2	28463.0	26791.2	19953.2	13367.7	10499.5
72.5°	23221.8	23166.0	24968.9	28982.3	34437.1	34308.5	29244.4	17565.6	9004.8	4736.6
75°	19050.6	19412.1	22205.1	28911.9	36584.6	36567.6	27742.4	11166.8	3724.7	1963.1
77.5°	10215.6	10788.3	14415.9	21346.1	28560.1	28989.6	19504.3	3906.7	1599.1	1256.9
80°	3331.6	3831.5	5746.0	10868.4	18558.0	18477.9	8359.3	1533.6	1094.4	890.5
82.5°	1414.7	1472.9	2567.3	5132.1	9524.1	9376.1	2661.9	880.8	769.2	609.1
85°	553.2	618.8	1133.2	2373.1	4125.1	4035.3	960.9	436.8	492.6	397.9
87.5°	182.0	220.8	405.2	812.9	1283.6	1237.5	235.4	150.4	213.5	182.0
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°
5981.4	0°	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4	5981.4
5998.3	2.5°	6032.3	6071.1	6117.2	6185.2	6243.4	6292.0	6342.9	6374.5	6386.6	6423.0
6008.1	5°	6076.0	6160.9	6275.0	6386.6	6495.8	6561.3	6619.5	6648.7	6675.3	6694.8
6034.7	7.5°	6148.8	6258.0	6437.5	6583.1	6675.3	6728.7	6767.6	6757.8	6767.6	6772.4
6063.9	10°	6211.9	6364.8	6578.3	6716.6	6787.0	6789.4	6779.7	6745.7	6728.7	6731.2
6107.5	12.5°	6287.1	6457.0	6687.5	6804.0	6823.4	6770.0	6728.7	6670.5	6648.7	6638.9
6173.1	15°	6389.0	6583.1	6806.4	6850.1	6801.5	6733.6	6663.2	6568.6	6520.0	6481.2
6284.7	17.5°	6512.8	6726.3	6898.6	6867.0	6762.7	6651.1	6537.0	6393.9	6294.4	6253.1
6437.5	20°	6685.1	6876.7	6969.0	6830.6	6672.9	6503.1	6308.9	6134.2	6042.0	6000.8
6631.7	22.5°	6893.7	7078.1	7036.9	6767.6	6544.3	6272.5	6029.9	5901.3	5855.2	5826.1
6881.6	25°	7143.7	7301.4	7085.4	6675.3	6333.2	5966.8	5780.0	5738.7	5716.9	5695.0
7187.3	27.5°	7468.8	7553.7	7121.8	6539.5	6003.2	5641.7	5573.7	5581.0	5573.7	5537.3
7612.0	30°	7898.3	7881.3	7155.8	6318.6	5624.7	5348.0	5352.9	5384.4	5389.3	5365.0
8204.1	32.5°	8463.7	8291.4	7172.8	6032.3	5263.1	5090.8	5095.7	5129.7	5153.9	5112.7
8978.1	35°	9148.0	8769.4	7146.1	5673.2	4984.1	4845.8	4809.4	4819.1	4826.3	4787.5
9917.2	37.5°	9946.3	9305.7	7027.2	5275.2	4753.5	4605.5	4527.9	4462.4	4423.5	4387.1
10980.0	40°	10822.3	9890.5	6808.8	4887.0	4496.3	4350.7	4234.3	4110.5	3979.5	3931.0
12105.9	42.5°	11739.5	10492.3	6544.3	4515.7	4200.3	4081.4	3957.6	3778.1	3581.5	3482.1
13275.5	45°	12690.7	11108.6	6284.7	4149.3	3897.0	3846.0	3702.9	3486.9	3273.4	3147.2
14447.5	47.5°	13622.5	11691.0	5903.7	3780.5	3613.1	3668.9	3557.3	3358.3	3120.5	2921.5
15609.8	50°	14513.0	12236.9	5280.1	3406.8	3382.6	3615.5	3508.7	3222.4	2950.6	2695.9
16750.2	52.5°	15396.2	12678.5	4481.8	3067.1	3258.8	3601.0	3445.7	3130.2	2797.8	2530.9
17822.8	55°	16146.0	12906.6	3712.6	2775.9	3079.2	3477.2	3370.4	3021.0	2581.8	2297.9
18558.0	57.5°	16573.1	12722.2	3072.0	2489.6	2831.7	3273.4	3241.8	2788.1	2324.6	2106.2
18701.2	60°	16388.7	11974.9	2547.8	2239.7	2596.4	3052.6	3018.6	2557.5	2128.1	1921.8
17934.4	62.5°	15372.0	10550.5	2132.9	2021.3	2382.8	2826.9	2795.3	2380.4	1977.6	1778.6
15898.5	65°	13324.0	8582.6	1810.2	1839.3	2166.9	2555.1	2601.2	2232.4	1858.7	1664.6
12300.0	67.5°	10162.3	6216.7	1557.8	1681.6	1955.8	2288.2	2421.7	2125.6	1759.2	1574.8
7117.0	70°	5792.1	3530.6	1344.3	1528.7	1768.9	2040.7	2283.4	2040.7	1652.5	1499.6
2666.7	72.5°	2196.0	1620.9	1162.3	1375.8	1589.4	1832.0	2130.5	1907.2	1528.7	1414.7
1378.3	75°	1172.0	987.6	977.9	1196.3	1383.1	1628.2	1938.8	1776.2	1436.5	1494.7
953.6	77.5°	798.3	698.8	817.7	1024.0	1157.4	1402.5	1735.0	1577.2	1244.8	1239.9
660.0	80°	553.2	495.0	664.9	825.0	895.4	1179.3	1514.1	1354.0	1014.3	946.3
407.7	82.5°	332.4	322.7	497.4	616.3	633.3	909.9	1254.5	1135.6	829.9	723.1
242.7	85°	182.0	191.7	317.9	361.6	368.8	635.7	982.7	878.4	638.2	536.3
87.4	87.5°	51.0	65.5	116.5	143.2	177.1	330.0	584.8	521.7	320.3	223.2
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

<u>180°</u>
5981.4
6420.6
6699.6
6779.7
6736.0
6634.1
6493.4
6255.6
5995.9
5830.9
5695.0
5544.6
5377.2
5132.1
4814.2
4411.4
3952.8
3494.2
3137.5
2899.7
2674.0
2501.7
2273.6
2077.1
1892.7
1747.1
1633.0
1545.7
1480.2
1395.2
1543.3
1142.9
905.1
728.0
541.1
223.2
0.0

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