

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: P942019

Luminaire Tested: **GALN-SB5D-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942019
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-SB5D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44179 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

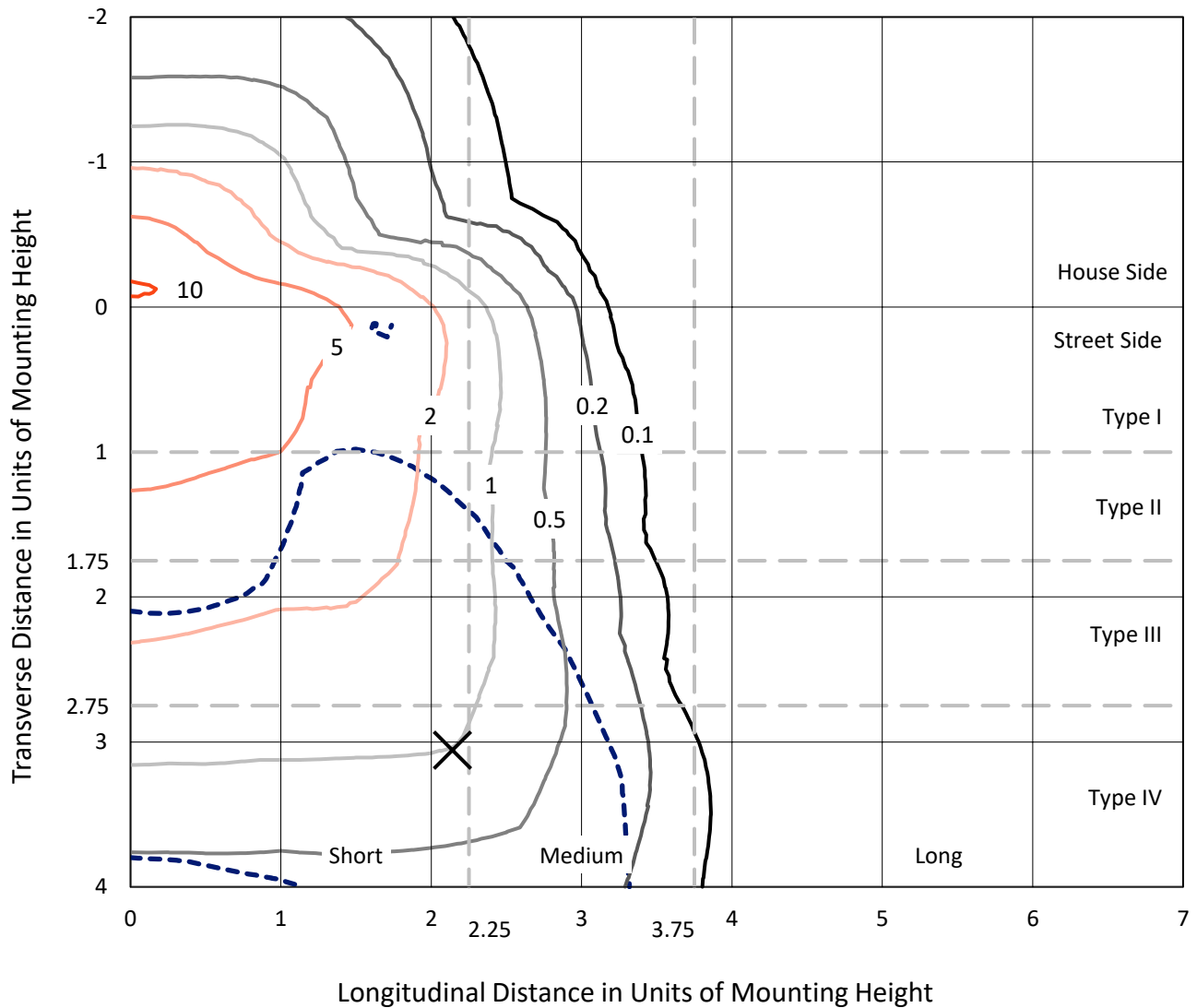
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

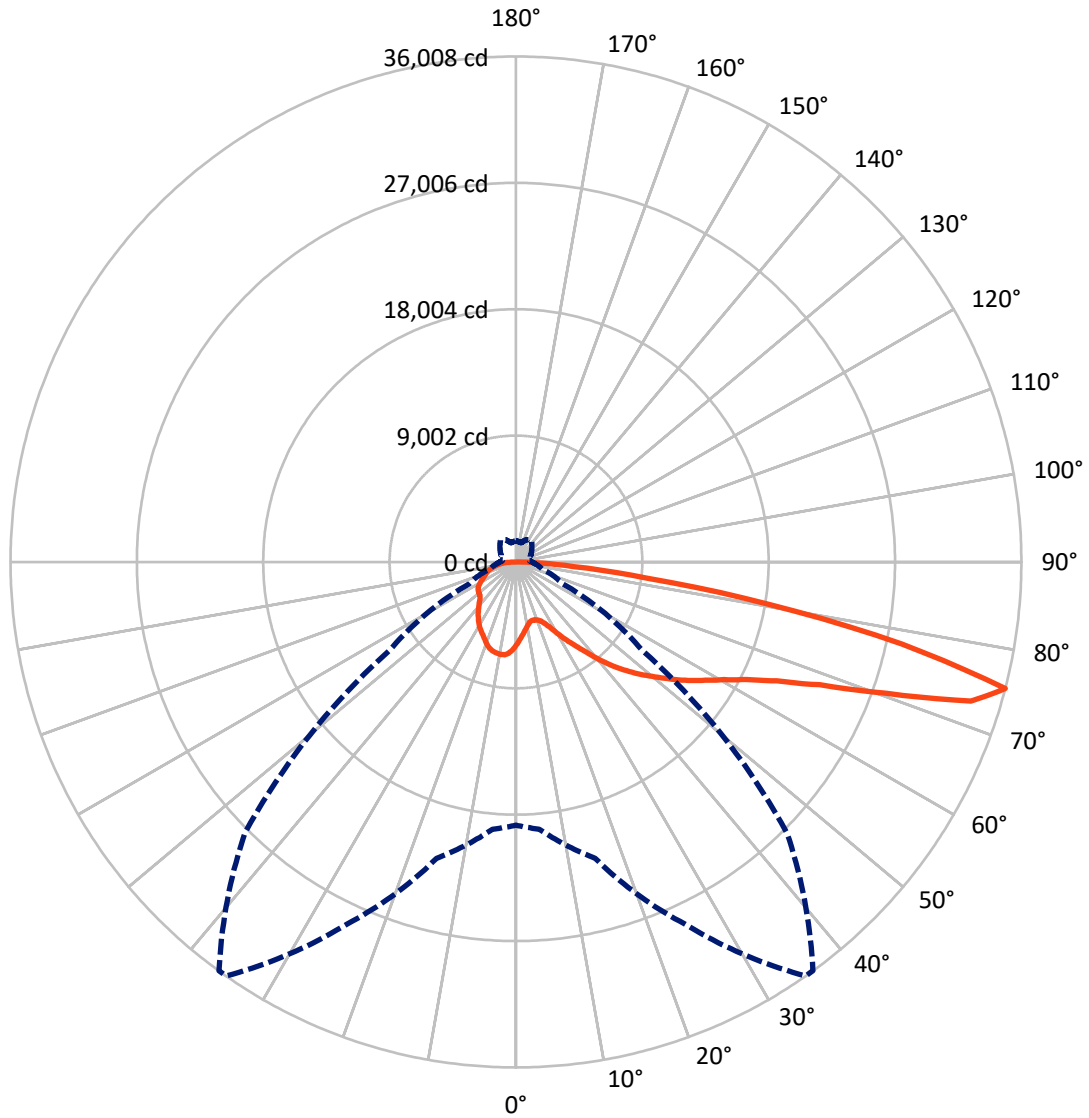
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	10513.5	0.0	10513.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	33665.5	0.0	33665.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	44179.0	0.0	44179.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.4	1.3
10°-20°	1607.8	3.6
20°-30°	2699.9	6.1
30°-40°	4196.0	9.5
40°-50°	6227.9	14.1
50°-60°	8598.0	19.5
60°-70°	10431.4	23.6
70°-80°	8620.7	19.5
80°-90°	1239.9	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°	44179.0	100.0
0°-180°	44179.0	100.0



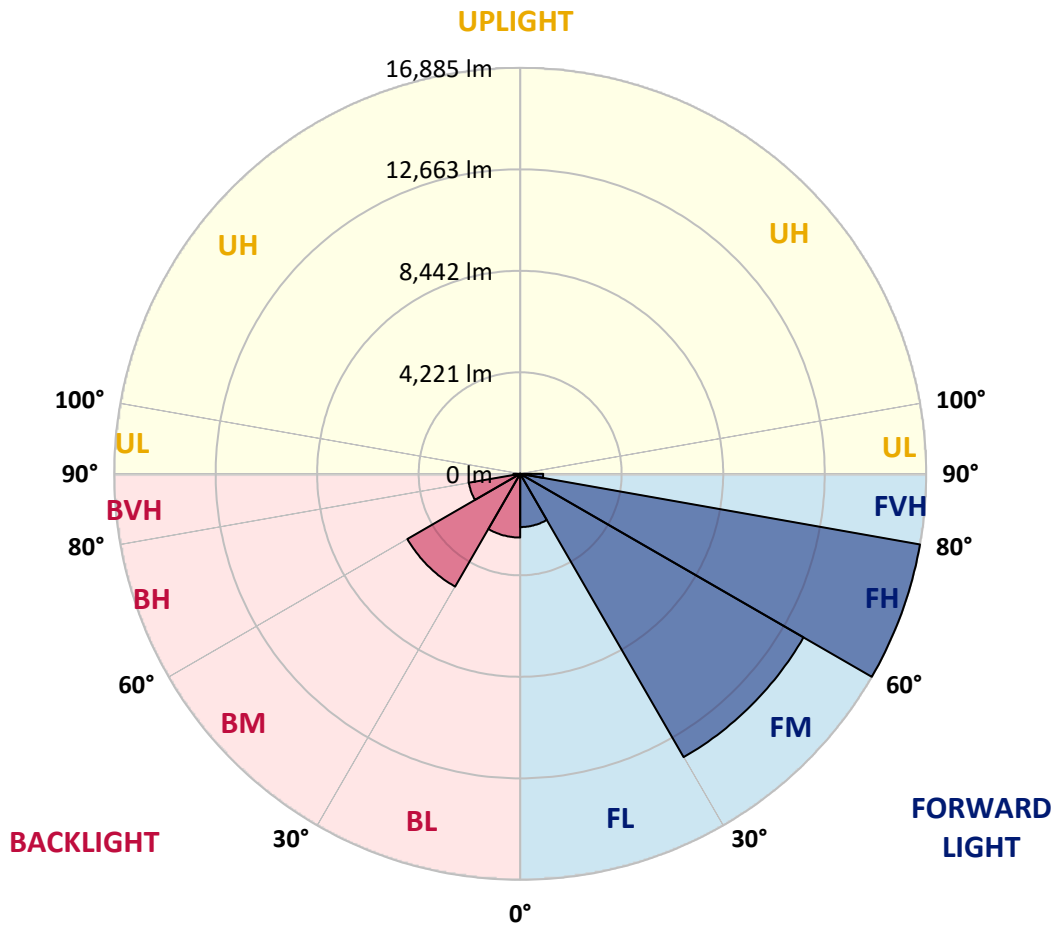
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.5	5.0			
FM (30°-60°)	13604.7	30.8			
FH (60°-80°)	16884.6	38.2			G5
FVH (80°-90°)	960.7	2.2			G5
BL (0°-30°)	2649.5	6.0	B4/5000		
BM (30°-60°)	5417.2	12.3	B4/8500		
BH (60°-80°)	2167.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	279.2	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°	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2
2.5°	5428.6	5462.0	5476.4	5469.2	5505.0	5500.2	5550.4	5612.5	5698.5	5782.1
5°	5010.6	5046.5	5077.5	5106.2	5175.4	5196.9	5275.7	5395.2	5552.8	5712.8
7.5°	4621.4	4652.4	4700.2	4752.7	4869.7	4891.2	5022.6	5208.9	5428.6	5662.7
10°	4303.7	4334.8	4384.9	4444.6	4590.3	4616.6	4783.8	5032.1	5318.7	5614.9
12.5°	4167.6	4177.1	4205.8	4265.5	4392.1	4408.8	4592.7	4876.9	5211.3	5579.1
15°	4160.4	4179.5	4181.9	4213.0	4318.0	4325.2	4494.8	4776.6	5144.4	5571.9
17.5°	4232.1	4246.4	4224.9	4244.0	4332.4	4344.3	4478.1	4728.8	5122.9	5602.9
20°	4423.1	4435.1	4370.6	4344.3	4408.8	4418.3	4549.7	4759.9	5144.4	5667.4
22.5°	4829.1	4836.3	4678.7	4571.2	4576.0	4580.8	4695.4	4886.5	5228.0	5784.5
25°	5462.0	5457.3	5206.5	4998.7	4879.3	4853.0	4929.4	5091.8	5368.9	5939.7
27.5°	6202.4	6166.6	5915.8	5605.3	5345.0	5306.8	5290.1	5359.3	5569.5	6145.1
30°	7038.3	7004.9	6735.0	6329.0	5968.4	5906.3	5748.6	5712.8	5868.0	6424.5
32.5°	7955.4	7933.9	7611.5	7119.5	6637.1	6565.4	6300.3	6204.8	6326.6	6847.2
35°	8724.4	8705.3	8437.9	7931.5	7341.6	7253.3	6983.4	6875.9	6938.0	7389.4
37.5°	9419.4	9409.9	9180.6	8781.8	8172.8	8065.3	7762.0	7726.1	7714.2	8103.5
40°	10064.3	10040.4	9801.6	9591.4	9140.0	9042.1	8774.6	8743.6	8652.8	8982.4
42.5°	10778.4	10716.3	10370.0	10272.1	10150.3	10069.1	9909.0	9913.8	9713.2	9973.5
45°	11361.1	11325.3	10969.4	10912.1	11043.5	11010.0	11148.6	11184.4	10795.1	11012.4
47.5°	11986.9	11953.4	11652.5	11611.9	11967.8	11977.3	12466.9	12478.8	11850.7	12091.9
50°	12758.3	12710.5	12412.0	12462.1	12861.0	12896.8	13792.4	13711.2	12822.8	13188.2
52.5°	13267.0	13295.6	13231.2	13312.4	13856.9	13890.3	15096.4	14888.6	13785.2	14270.1
55°	13641.9	13699.3	13899.9	14086.2	14907.7	14941.2	16326.4	16008.8	14582.9	15273.2
57.5°	14124.4	14043.2	14418.1	14781.2	15906.1	15994.4	17522.9	17088.3	15289.9	16137.7
60°	14817.0	14759.7	15051.0	15588.4	17023.8	17164.7	18788.7	18060.3	15808.1	16823.2
62.5°	16221.3	16078.0	16123.4	16598.7	18432.9	18619.2	20216.9	18908.1	16066.1	17090.6
65°	18320.6	18074.6	17845.4	18174.9	20417.5	20601.4	21829.0	19574.5	15970.5	16572.4
67.5°	20964.5	20720.9	20439.0	20749.5	23340.8	23486.5	23818.5	19949.4	15218.2	14575.8
70°	23145.0	23054.2	23391.0	24668.7	28009.9	28014.7	26369.2	19639.0	13157.1	10334.2
72.5°	22856.0	22801.1	24575.6	28525.8	33894.7	33768.1	28783.7	17288.9	8863.0	4662.0
75°	18750.5	19106.4	21855.3	28456.6	36008.3	35991.6	27305.4	10990.9	3666.0	1932.1
77.5°	10054.7	10618.4	14188.9	21009.8	28110.2	28533.0	19197.1	3845.2	1573.9	1237.1
80°	3279.1	3771.1	5655.5	10697.2	18265.7	18186.9	8227.7	1509.4	1077.1	876.5
82.5°	1392.4	1449.7	2526.8	5051.2	9374.1	9228.4	2620.0	867.0	757.1	599.5
85°	544.5	609.0	1115.3	2335.8	4060.1	3971.7	945.8	429.9	484.8	391.7
87.5°	179.1	217.3	398.8	800.1	1263.4	1218.0	231.7	148.1	210.2	179.1
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°
5887.2	0°	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2	5887.2
5903.9	2.5°	5937.3	5975.5	6020.9	6087.8	6145.1	6192.9	6243.0	6274.1	6286.0	6321.8
5913.4	5°	5980.3	6063.9	6176.1	6286.0	6393.5	6458.0	6515.3	6543.9	6570.2	6589.3
5939.7	7.5°	6051.9	6159.4	6336.2	6479.4	6570.2	6622.7	6661.0	6651.4	6661.0	6665.7
5968.4	10°	6114.0	6264.5	6474.7	6610.8	6680.1	6682.5	6672.9	6639.5	6622.7	6625.1
6011.3	12.5°	6188.1	6355.3	6582.1	6696.8	6715.9	6663.3	6622.7	6565.4	6543.9	6534.4
6075.8	15°	6288.4	6479.4	6699.2	6742.2	6694.4	6627.5	6558.3	6465.1	6417.4	6379.1
6185.7	17.5°	6410.2	6620.4	6789.9	6758.9	6656.2	6546.3	6434.1	6293.2	6195.2	6154.6
6336.2	20°	6579.8	6768.4	6859.2	6723.1	6567.8	6400.6	6209.6	6037.6	5946.9	5906.3
6527.2	22.5°	6785.2	6966.7	6926.1	6661.0	6441.2	6173.7	5934.9	5808.3	5763.0	5734.3
6773.2	25°	7031.1	7186.4	6973.8	6570.2	6233.5	5872.8	5688.9	5648.3	5626.8	5605.3
7074.1	27.5°	7351.2	7434.8	7009.6	6436.5	5908.6	5552.8	5485.9	5493.1	5485.9	5450.1
7492.1	30°	7773.9	7757.2	7043.1	6219.1	5536.1	5263.8	5268.6	5299.6	5304.4	5280.5
8074.8	32.5°	8330.4	8160.8	7059.8	5937.3	5180.2	5010.6	5015.4	5048.9	5072.7	5032.1
8836.7	35°	9003.9	8631.3	7033.5	5583.8	4905.6	4769.4	4733.6	4743.2	4750.3	4712.1
9761.0	37.5°	9789.6	9159.1	6916.5	5192.2	4678.7	4533.0	4456.6	4392.1	4353.9	4318.0
10807.0	40°	10651.8	9734.7	6701.6	4810.0	4425.5	4282.2	4167.6	4045.8	3916.8	3869.0
11915.2	42.5°	11554.6	10327.0	6441.2	4444.6	4134.1	4017.1	3895.3	3718.6	3525.1	3427.2
13066.4	45°	12490.8	10933.6	6185.7	4084.0	3835.6	3785.4	3644.5	3432.0	3221.8	3097.6
14219.9	47.5°	13407.9	11506.8	5810.7	3721.0	3556.2	3611.1	3501.2	3305.4	3071.3	2875.5
15363.9	50°	14284.4	12044.2	5196.9	3353.2	3329.3	3558.6	3453.5	3171.7	2904.2	2653.4
16486.4	52.5°	15153.7	12478.8	4411.2	3018.8	3207.5	3544.2	3391.4	3080.9	2753.7	2491.0
17542.0	55°	15891.7	12703.3	3654.1	2732.2	3030.7	3422.4	3317.3	2973.4	2541.1	2261.7
18265.7	57.5°	16312.1	12521.8	3023.6	2450.4	2787.1	3221.8	3190.8	2744.2	2288.0	2073.0
18406.6	60°	16130.6	11786.2	2507.7	2204.4	2555.5	3004.5	2971.0	2517.3	2094.5	1891.5
17651.9	62.5°	15129.9	10384.3	2099.3	1989.5	2345.3	2782.4	2751.3	2342.9	1946.5	1750.6
15648.1	65°	13114.1	8447.4	1781.7	1810.3	2132.7	2514.9	2560.3	2197.2	1829.4	1638.4
12106.3	67.5°	10002.2	6118.8	1533.3	1655.1	1925.0	2252.2	2383.5	2092.1	1731.5	1550.0
7004.9	70°	5700.9	3475.0	1323.1	1504.6	1741.1	2008.6	2247.4	2008.6	1626.4	1476.0
2624.7	72.5°	2161.4	1595.4	1144.0	1354.2	1564.3	1803.2	2096.9	1877.2	1504.6	1392.4
1356.6	75°	1153.5	972.0	962.5	1177.4	1361.3	1602.5	1908.2	1748.2	1413.9	1471.2
938.6	77.5°	785.7	687.8	804.9	1007.9	1139.2	1380.4	1707.6	1552.4	1225.2	1220.4
649.6	80°	544.5	487.2	654.4	812.0	881.3	1160.7	1490.3	1332.7	998.3	931.4
401.2	82.5°	327.2	317.6	489.6	606.6	623.3	895.6	1234.7	1117.7	816.8	711.7
238.8	85°	179.1	188.7	312.9	355.9	363.0	625.7	967.3	864.6	628.1	527.8
86.0	87.5°	50.2	64.5	114.6	140.9	174.3	324.8	575.6	513.5	315.3	219.7
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>
5887.2
6319.4
6594.1
6672.9
6629.9
6529.6
6391.1
6157.0
5901.5
5739.1
5605.3
5457.3
5292.5
5051.2
4738.4
4341.9
3890.5
3439.1
3088.1
2854.0
2631.9
2462.3
2237.8
2044.4
1862.9
1719.6
1607.3
1521.3
1456.9
1373.3
<i>1519.0</i>
1124.9
890.8
716.5
532.6
219.7
0.0

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