

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: P941332

Luminaire Tested: **GALN-SB4D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35154 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

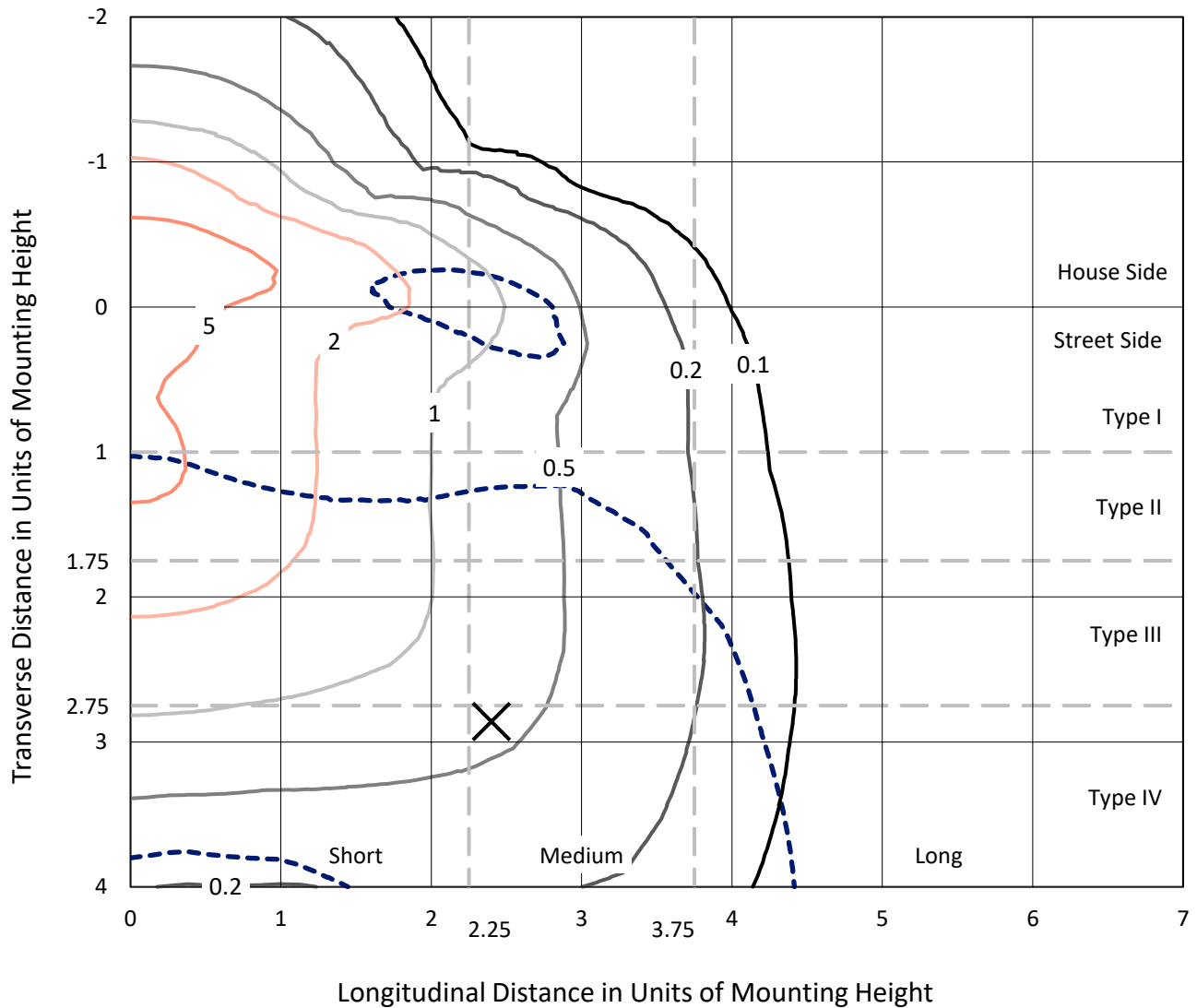
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

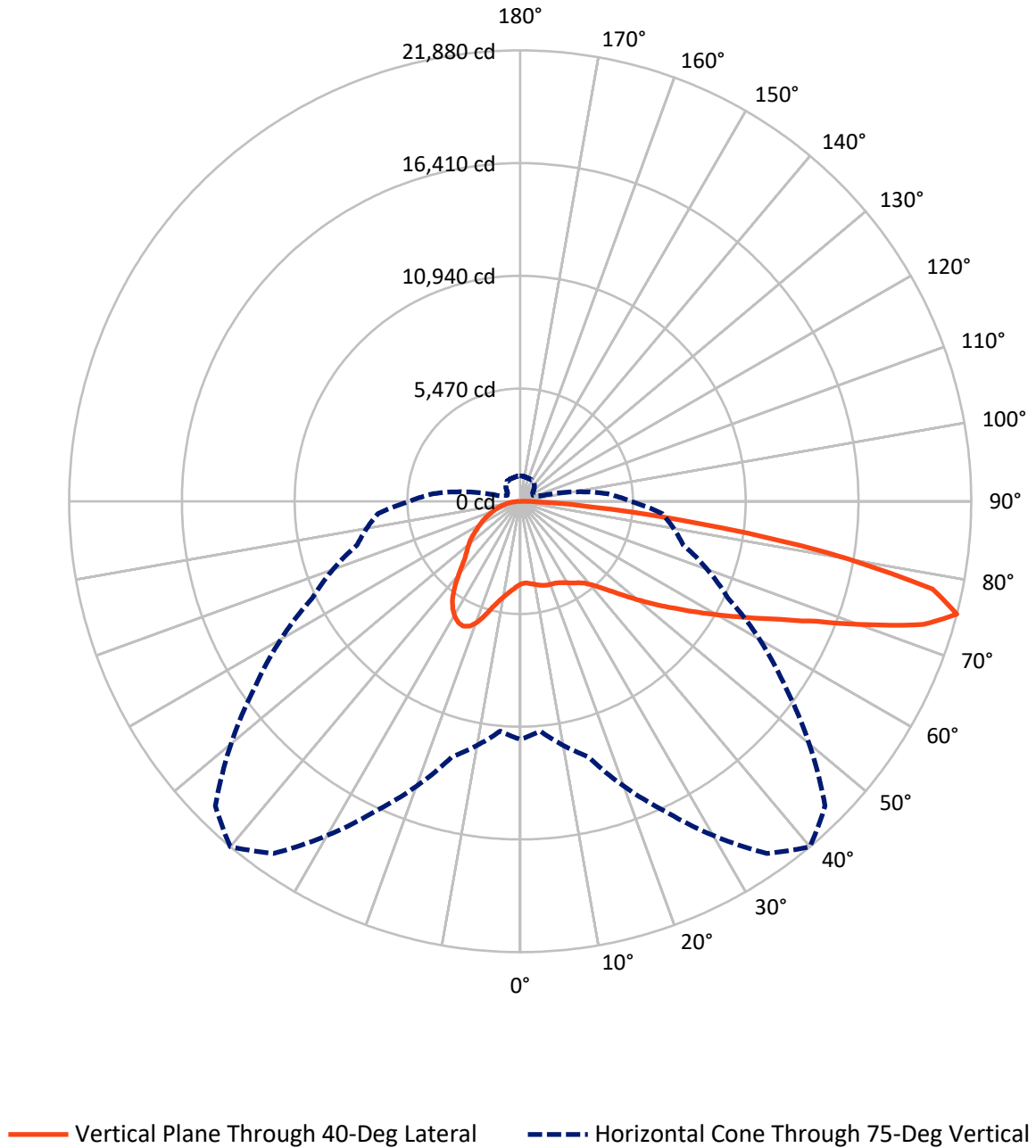
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10891.9	0.0	10891.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24262.1	0.0	24262.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	35154.0	0.0	35154.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	1.1
10°-20°	1347.2	3.8
20°-30°	2459.9	7.0
30°-40°	3488.8	9.9
40°-50°	4711.0	13.4
50°-60°	6337.5	18.0
60°-70°	8043.8	22.9
70°-80°	7300.3	20.8
80°-90°	1064.1	3.0
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°	35154.0	100.0
0°-180°	35154.0	100.0



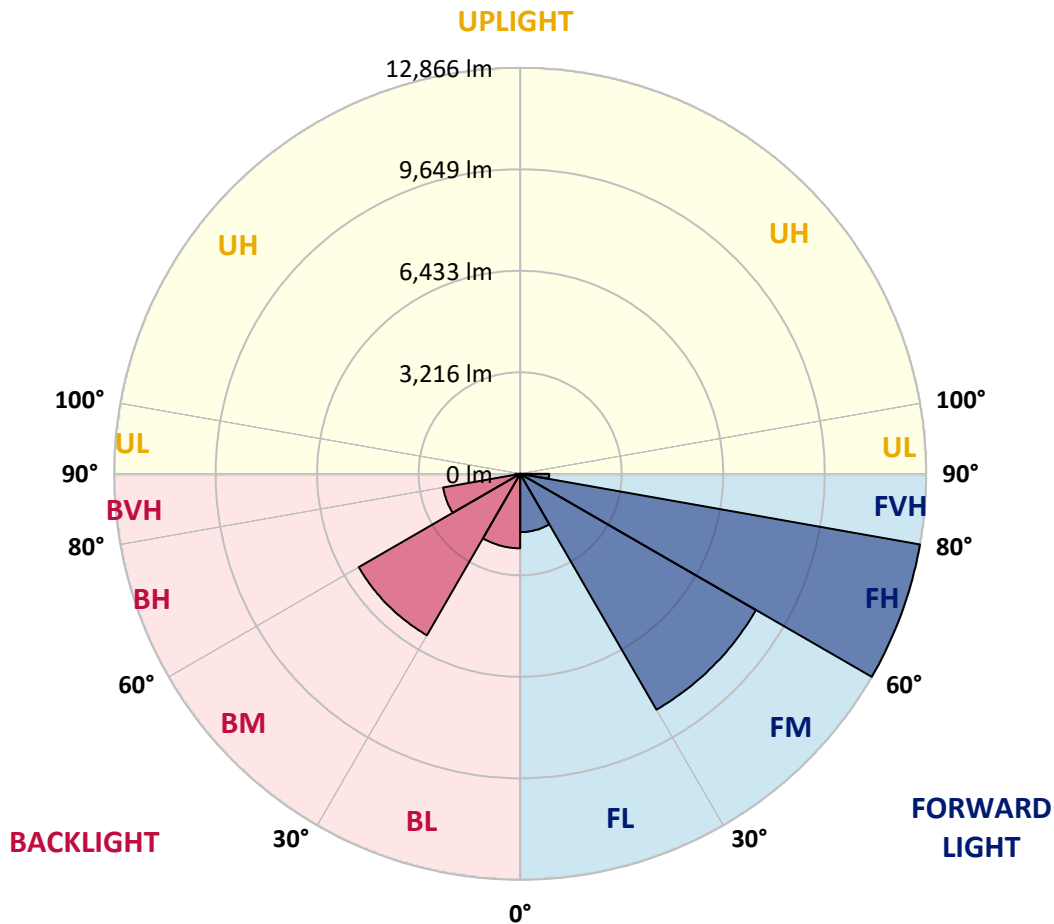
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.1	5.3			
FM (30°-60°)	8629.5	24.5			
FH (60°-80°)	12865.8	36.6			G5
FVH (80°-90°)	917.6	2.6			G5
BL (0°-30°)	2359.3	6.7	B3/2500		
BM (30°-60°)	5907.9	16.8	B4/8500		
BH (60°-80°)	2478.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	146.5	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9
2.5°	3958.4	3980.8	3975.2	3967.7	3967.7	3969.6	3967.7	3980.8	3993.8	4006.9
5°	3999.4	4021.8	4010.6	4001.3	3993.8	3991.9	3986.3	3984.5	3991.9	4008.7
7.5°	4079.6	4101.9	4085.2	4068.4	4053.5	4046.0	4038.6	4027.4	4021.8	4031.1
10°	4169.1	4191.4	4170.9	4141.1	4116.9	4107.5	4100.1	4088.9	4081.4	4087.0
12.5°	4258.6	4280.9	4253.0	4212.0	4180.3	4174.7	4165.3	4161.6	4159.7	4157.9
15°	4342.5	4361.1	4325.7	4277.2	4243.6	4234.3	4225.0	4230.6	4239.9	4251.1
17.5°	4407.7	4426.4	4374.2	4310.8	4279.1	4275.3	4269.8	4288.4	4314.5	4342.5
20°	4467.4	4486.0	4418.9	4333.1	4295.9	4295.9	4297.7	4336.9	4374.2	4415.2
22.5°	4551.3	4566.2	4484.2	4366.7	4312.6	4316.4	4331.3	4370.4	4417.0	4473.0
25°	4676.2	4687.4	4586.7	4430.1	4368.6	4379.8	4392.8	4411.5	4456.2	4521.5
27.5°	4877.6	4886.9	4754.5	4542.0	4448.7	4467.4	4486.0	4473.0	4493.5	4549.4
30°	5161.0	5166.6	4998.8	4717.2	4584.9	4594.2	4597.9	4543.8	4504.7	4549.4
32.5°	5496.6	5494.7	5295.2	4929.8	4739.6	4730.3	4698.6	4592.3	4501.0	4540.1
35°	6016.8	5996.3	5739.0	5228.1	4914.9	4857.1	4782.5	4646.4	4519.6	4530.8
37.5°	6878.2	6814.8	6458.7	5716.6	5175.9	5028.6	4918.6	4734.0	4560.6	4527.1
40°	7849.6	7769.5	7377.9	6386.0	5567.5	5330.7	5153.5	4858.9	4627.7	4543.8
42.5°	9001.9	8888.2	8466.8	7174.7	6063.4	5720.3	5453.7	5017.4	4726.6	4597.9
45°	10417.1	10266.1	9669.4	8064.1	6688.0	6231.2	5875.1	5257.9	4877.6	4702.3
47.5°	11847.2	11884.5	11036.1	9082.1	7437.6	6861.4	6402.8	5619.7	5097.6	4870.1
50°	13366.7	13392.9	12395.3	10210.1	8287.8	7573.7	6995.7	6024.3	5403.4	5108.8
52.5°	14552.6	14556.3	13629.6	11390.4	9173.4	8356.8	7635.2	6486.7	5757.6	5425.8
55°	15294.7	15285.3	14494.8	12507.2	10191.5	9179.0	8343.7	7012.5	6190.2	5798.7
57.5°	15833.5	15805.5	15091.4	13467.4	11276.6	10150.5	9145.5	7609.1	6701.1	6242.4
60°	16038.6	16021.8	15496.0	14297.1	12417.7	11224.4	10070.3	8276.6	7281.0	6766.3
62.5°	16116.9	16148.6	15893.2	15100.8	13639.0	12414.0	11086.4	9074.6	7933.5	7359.3
65°	16392.9	16450.7	16398.5	16152.3	15018.7	13806.8	12434.5	10023.7	8645.8	7995.1
67.5°	16939.2	16997.0	17019.3	17410.9	16704.2	15542.6	14116.3	11205.8	9479.2	8655.1
70°	16926.1	16909.3	17304.6	18412.1	18814.9	17946.0	16383.5	12660.1	10473.0	9203.3
72.5°	15406.5	15272.3	16206.4	18401.0	20571.3	20455.7	19152.4	14535.8	11330.7	9270.4
75°	11558.2	11200.2	12850.3	16583.0	20864.0	21880.2	20912.5	15699.3	11127.5	8190.8
77.5°	4942.8	4583.0	6527.7	12276.0	18673.2	20453.8	19297.8	13696.8	8882.6	5416.4
80°	1294.0	1292.1	1972.7	5565.6	12699.3	15104.5	13251.1	8845.3	5075.2	1935.4
82.5°	535.1	522.1	725.3	2164.7	6205.1	8476.1	6917.4	3945.3	1832.8	523.9
85°	199.5	197.6	352.4	747.7	2188.9	3496.0	2530.2	1008.7	456.8	255.4
87.5°	55.9	54.1	76.4	259.2	533.3	809.2	432.6	165.9	128.7	100.7
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°
4019.9	0°	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9	4019.9
4027.4	2.5°	4033.0	4042.3	4059.1	4072.1	4088.9	4107.5	4133.6	4150.4	4167.2	4178.4
4036.7	5°	4049.7	4070.2	4113.1	4156.0	4206.4	4253.0	4307.0	4346.2	4377.9	4387.2
4070.2	7.5°	4087.0	4120.6	4193.3	4266.0	4346.2	4422.6	4501.0	4568.1	4622.1	4642.7
4129.9	10°	4152.3	4197.0	4299.6	4402.1	4508.4	4625.9	4726.6	4823.5	4900.0	4931.7
4200.8	12.5°	4234.3	4290.3	4424.5	4566.2	4713.5	4875.7	5006.2	5125.6	5220.7	5263.5
4299.6	15°	4340.6	4413.3	4584.9	4775.0	4991.3	5216.9	5382.9	5515.3	5621.5	5673.7
4402.1	17.5°	4456.2	4553.2	4769.4	5056.6	5366.1	5662.5	5856.5	5953.4	6063.4	6113.8
4497.2	20°	4568.1	4687.4	4996.9	5414.6	5826.6	6141.7	6298.4	6324.5	6331.9	6337.5
4586.7	22.5°	4683.7	4844.0	5282.2	5865.8	6307.7	6525.8	6548.2	6436.3	6279.7	6207.0
4674.4	25°	4810.5	5023.0	5655.1	6363.6	6721.6	6747.7	6576.2	6303.9	6007.5	5871.4
4745.2	27.5°	4933.5	5230.0	6102.6	6839.1	7019.9	6790.6	6421.4	6035.5	5677.5	5533.9
4795.5	30°	5056.6	5466.8	6596.7	7254.9	7156.0	6684.3	6177.2	5746.5	5386.6	5235.6
4840.3	32.5°	5181.5	5742.7	7165.4	7555.0	7131.8	6458.7	5873.2	5422.0	5105.1	4946.6
4879.5	35°	5323.2	6082.1	7704.2	7719.1	6969.6	6126.8	5472.4	5034.2	4758.3	4631.5
4926.1	37.5°	5507.8	6512.8	8179.7	7760.1	6686.2	5640.2	4974.5	4575.5	4348.1	4290.3
4995.1	40°	5737.1	7031.1	8543.2	7694.9	6266.7	5049.1	4430.1	4111.3	3982.6	3995.7
5088.3	42.5°	6035.5	7611.0	8798.7	7527.1	5683.1	4439.4	3952.8	3811.1	3872.6	3924.8
5228.1	45°	6423.3	8213.2	8957.2	7241.8	5023.0	3923.0	3671.2	3704.8	3751.4	3757.0
5453.7	47.5°	6919.2	8822.9	9061.6	6811.1	4349.9	3559.4	3492.2	3499.7	3490.4	3451.2
5791.2	50°	7538.3	9415.8	9154.8	6240.6	3777.5	3331.9	3242.4	3216.3	3087.6	2960.9
6240.6	52.5°	8243.0	9960.3	9194.0	5532.0	3331.9	3141.7	2996.3	2832.2	2591.7	2552.5
6805.5	55°	9026.1	10463.7	9093.3	4661.3	2957.1	2897.5	2677.5	2479.8	2453.7	2420.1
7549.4	57.5°	9962.1	11006.3	8888.2	3689.9	2573.0	2612.2	2397.8	2420.1	2373.5	2321.3
8505.9	60°	10985.8	11567.5	8528.3	2804.2	2175.9	2256.1	2325.1	2323.2	2310.1	2267.3
9514.6	62.5°	11906.8	11936.7	7819.8	2147.9	1827.2	1980.1	2168.4	2166.6	2155.4	2131.1
10568.1	65°	12455.0	11880.7	6637.7	1691.1	1540.1	1752.6	1955.9	1970.8	1972.7	1970.8
11360.5	67.5°	12358.0	11226.3	5015.6	1346.2	1303.3	1521.4	1745.2	1765.7	1780.6	1784.3
11461.2	70°	11261.7	9788.7	3270.4	1074.0	1092.6	1318.2	1545.7	1566.2	1579.2	1594.2
9945.4	72.5°	8778.2	7197.1	1872.0	868.9	908.0	1143.0	1348.0	1372.3	1379.7	1407.7
6921.1	75°	5349.3	4232.5	1010.6	684.3	745.8	977.0	1152.3	1180.2	1193.3	1226.9
3399.0	77.5°	2543.2	1832.8	576.1	533.3	600.4	798.0	973.3	1005.0	969.6	988.2
937.9	80°	859.5	680.6	363.6	406.5	458.7	622.7	779.4	811.1	736.5	732.8
311.4	82.5°	300.2	275.9	231.2	270.4	296.5	445.6	589.2	630.2	548.2	546.3
139.8	85°	117.5	111.9	128.7	147.3	177.1	274.1	387.8	408.3	337.5	272.2
41.0	87.5°	24.2	26.1	31.7	33.6	54.1	95.1	139.8	171.5	136.1	115.6
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>
4019.9
4170.9
4390.9
4644.5
4933.5
5263.5
5670.0
6111.9
6352.4
6227.5
5891.9
5550.7
5252.4
4967.1
4659.4
4331.3
4040.4
3973.3
3794.3
3481.1
2977.6
2565.6
2425.7
2312.0
2252.3
2121.8
1970.8
1788.1
1601.6
1418.9
1230.6
973.3
725.3
520.2
268.5
106.3
0.0

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