

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: P941802

Luminaire Tested: **GALN-SB5C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941802
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-SB5C-735-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37500 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

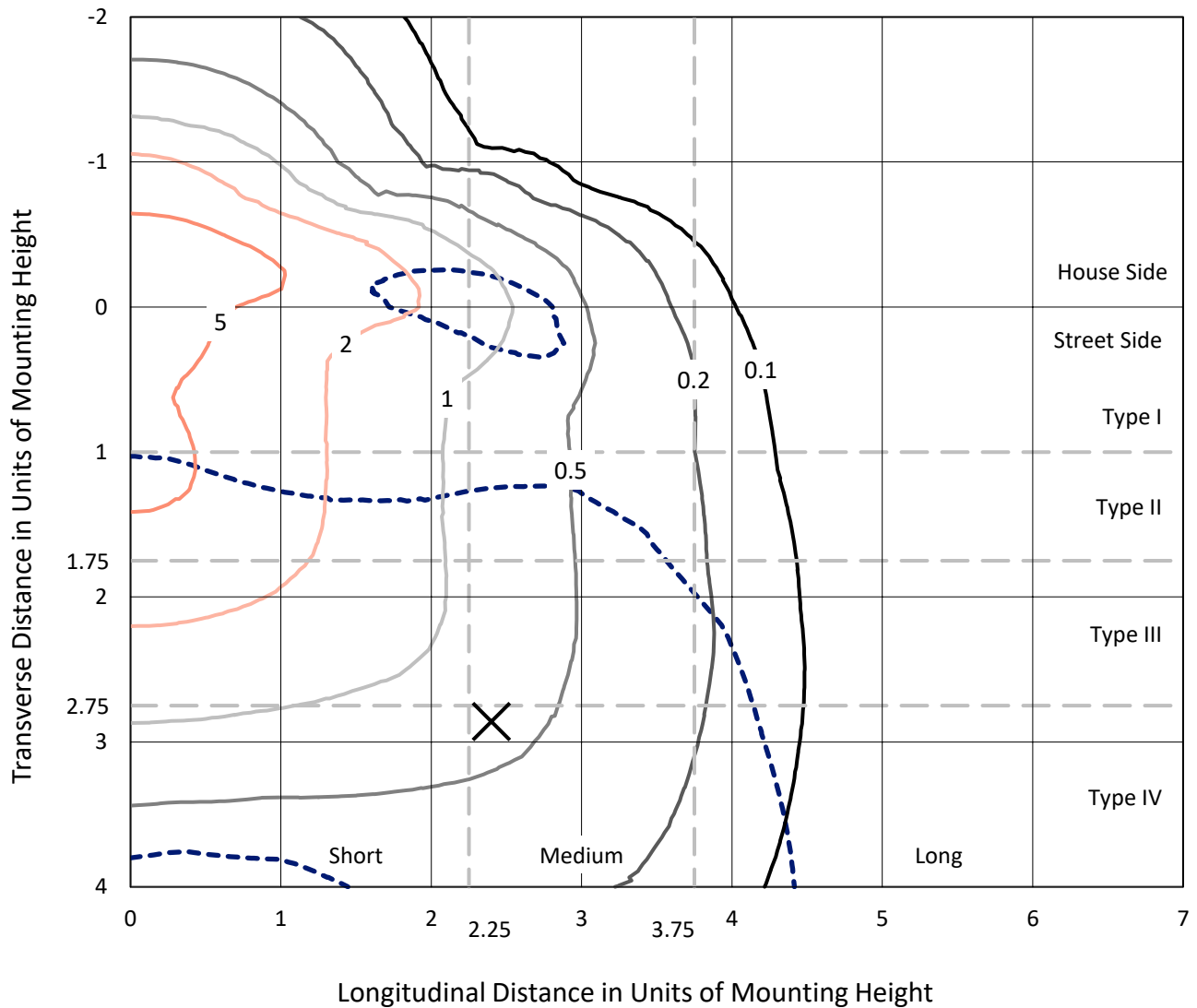
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

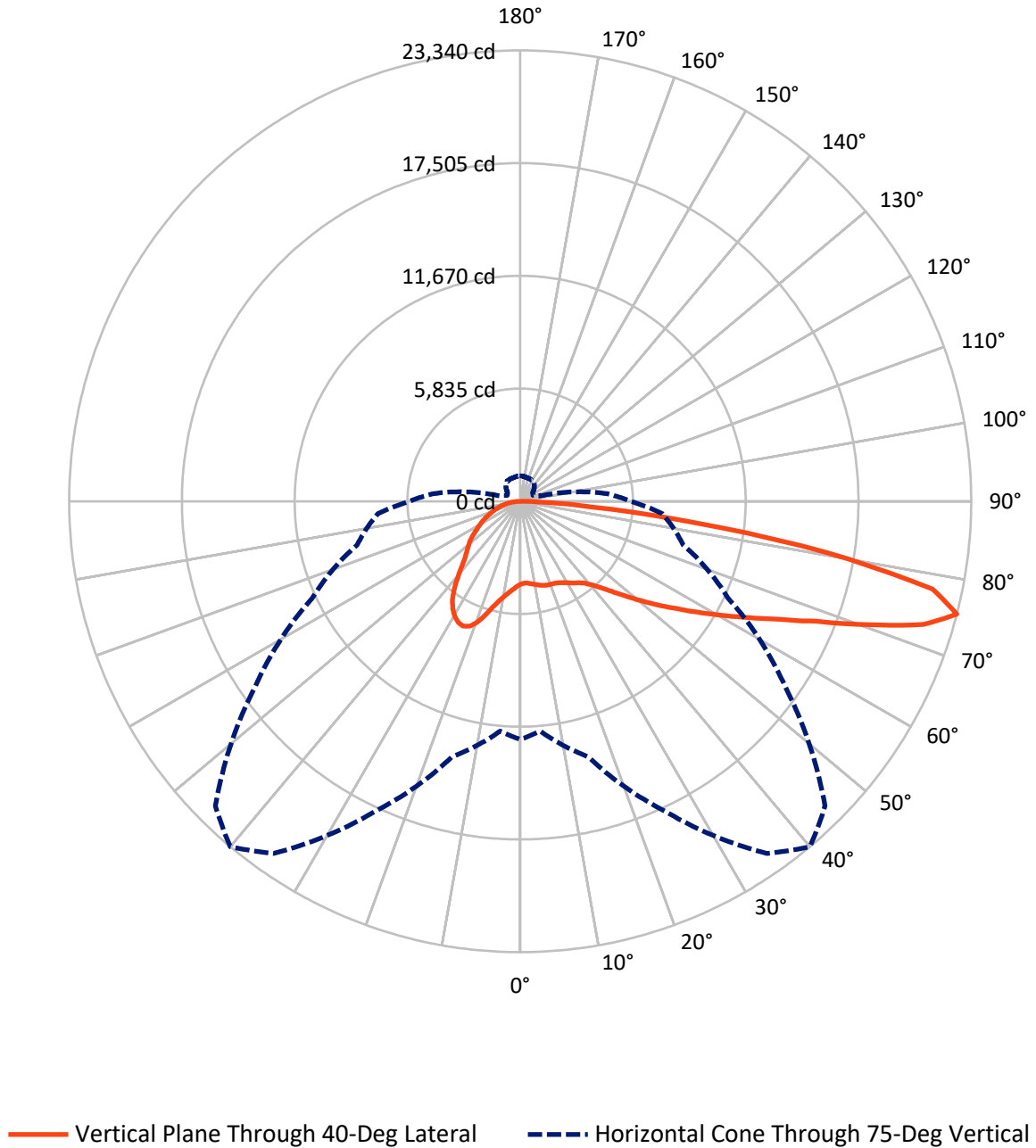
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	11618.8	0.0	11618.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25881.2	0.0	25881.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	37500.0	0.0	37500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.0	1.1
10°-20°	1437.1	3.8
20°-30°	2624.1	7.0
30°-40°	3721.7	9.9
40°-50°	5025.4	13.4
50°-60°	6760.5	18.0
60°-70°	8580.6	22.9
70°-80°	7787.4	20.8
80°-90°	1135.2	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°	37500.0	100.0
0°-180°	37500.0	100.0

Coefficient of Utilization

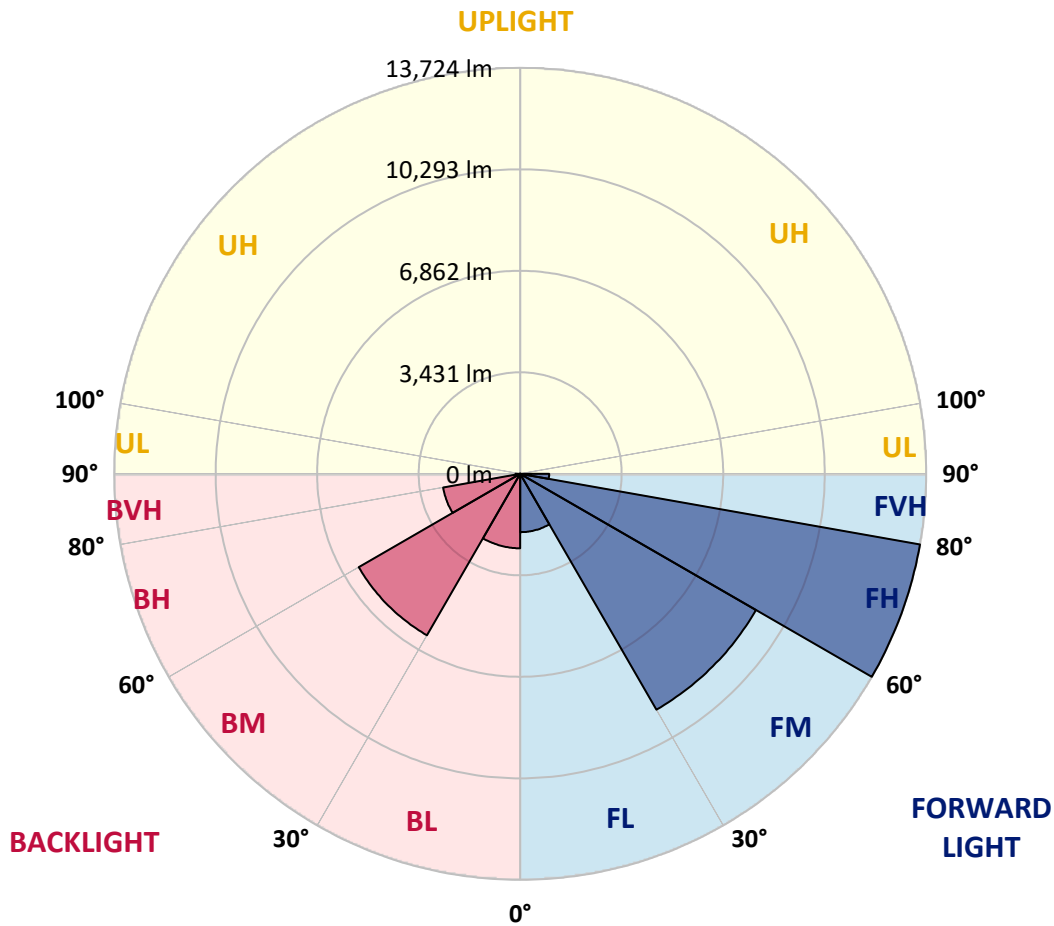


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1972.5	5.3			
FM (30°-60°)	9205.4	24.5			
FH (60°-80°)	13724.4	36.6			G5
FVH (80°-90°)	978.9	2.6			G5
BL (0°-30°)	2516.7	6.7	B4/5000		
BM (30°-60°)	6302.1	16.8	B4/8500		
BH (60°-80°)	2643.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	156.3	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°	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2
2.5°	4222.5	4246.4	4240.4	4232.5	4232.5	4234.5	4232.5	4246.4	4260.3	4274.3
5°	4266.3	4290.2	4278.2	4268.3	4260.3	4258.3	4252.4	4250.4	4258.3	4276.2
7.5°	4351.8	4375.7	4357.8	4339.9	4324.0	4316.0	4308.1	4296.1	4290.2	4300.1
10°	4447.3	4471.2	4449.3	4417.5	4391.6	4381.7	4373.7	4361.8	4353.8	4359.8
12.5°	4542.8	4566.6	4536.8	4493.0	4459.2	4453.3	4443.3	4439.3	4437.3	4435.4
15°	4632.3	4652.2	4614.4	4562.6	4526.8	4516.9	4507.0	4512.9	4522.9	4534.8
17.5°	4701.9	4721.8	4666.1	4598.5	4564.6	4560.7	4554.7	4574.6	4602.4	4632.3
20°	4765.5	4785.4	4713.8	4622.3	4582.5	4582.5	4584.5	4626.3	4666.1	4709.8
22.5°	4855.0	4870.9	4783.4	4658.1	4600.4	4604.4	4620.3	4662.1	4711.8	4771.5
25°	4988.3	5000.2	4892.8	4725.7	4660.1	4672.0	4686.0	4705.9	4753.6	4823.2
27.5°	5203.1	5213.0	5071.8	4845.1	4745.6	4765.5	4785.4	4771.5	4793.4	4853.0
30°	5505.4	5511.4	5332.4	5032.0	4890.8	4900.8	4904.7	4847.1	4805.3	4853.0
32.5°	5863.4	5861.4	5648.6	5258.8	5055.9	5046.0	5012.2	4898.8	4801.3	4843.1
35°	6418.3	6396.5	6122.0	5577.0	5242.9	5181.2	5101.7	4956.5	4821.2	4833.1
37.5°	7337.2	7269.6	6889.7	6098.1	5521.3	5364.2	5246.8	5049.9	4865.0	4829.2
40°	8373.5	8288.0	7870.3	6812.2	5939.0	5686.4	5497.5	5183.2	4936.6	4847.1
42.5°	9602.6	9481.3	9031.8	7653.5	6468.1	6102.1	5817.7	5352.3	5042.0	4904.7
45°	11112.3	10951.2	10314.7	8602.2	7134.4	6647.1	6267.2	5608.8	5203.1	5016.1
47.5°	12637.8	12677.6	11772.6	9688.2	7933.9	7319.3	6830.1	5994.7	5437.8	5195.1
50°	14258.8	14286.6	13222.5	10891.5	8840.9	8079.1	7462.5	6426.3	5764.0	5449.7
52.5°	15523.8	15527.7	14539.2	12150.5	9785.6	8914.5	8144.7	6919.6	6141.9	5787.8
55°	16315.4	16305.4	15462.1	13341.9	10871.6	9791.6	8900.5	7480.4	6603.3	6185.6
57.5°	16890.2	16860.3	16098.6	14366.2	12029.2	10827.8	9755.8	8116.9	7148.3	6659.0
60°	17108.9	17091.0	16530.2	15251.3	13246.4	11973.5	10742.3	8828.9	7766.8	7217.9
62.5°	17192.5	17226.3	16953.8	16108.5	14549.2	13242.4	11826.3	9680.2	8463.0	7850.4
65°	17486.8	17548.5	17492.8	17230.3	16021.0	14728.2	13264.3	10692.6	9222.8	8528.6
67.5°	18069.6	18131.3	18155.1	18572.8	17819.0	16579.9	15058.3	11953.6	10111.8	9232.7
70°	18055.7	18037.8	18459.4	19640.9	20070.5	19143.6	17476.9	13505.0	11171.9	9817.5
72.5°	16434.7	16291.5	17287.9	19628.9	21944.1	21820.8	20430.5	15505.8	12086.8	9889.1
75°	12329.5	11947.6	13707.8	17689.7	22256.3	23340.3	22308.1	16747.0	11870.1	8737.5
77.5°	5272.7	4888.8	6963.3	13095.2	19919.3	21818.8	20585.6	14610.8	9475.4	5777.9
80°	1380.3	1378.3	2104.3	5937.0	13546.7	16112.5	14135.5	9435.6	5413.9	2064.5
82.5°	570.8	556.9	773.7	2309.2	6619.2	9041.8	7379.0	4208.6	1955.1	558.9
85°	212.8	210.8	375.9	797.6	2335.0	3729.3	2699.0	1076.0	487.3	272.5
87.5°	59.7	57.7	81.5	276.5	568.8	863.2	461.4	177.0	137.2	107.4
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°
4288.2	0°	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2	4288.2
4296.1	2.5°	4302.1	4312.0	4329.9	4343.9	4361.8	4381.7	4409.5	4427.4	4445.3	4457.2
4306.1	5°	4320.0	4341.9	4387.6	4433.4	4487.1	4536.8	4594.5	4636.2	4670.1	4680.0
4341.9	7.5°	4359.8	4395.6	4473.1	4550.7	4636.2	4717.8	4801.3	4872.9	4930.6	4952.5
4405.5	10°	4429.4	4477.1	4586.5	4695.9	4809.3	4934.6	5042.0	5145.4	5227.0	5260.8
4481.1	12.5°	4516.9	4576.6	4719.8	4870.9	5028.1	5201.1	5340.3	5467.6	5569.1	5614.8
4586.5	15°	4630.3	4707.8	4890.8	5093.7	5324.4	5565.1	5742.1	5883.3	5996.7	6052.4
4695.9	17.5°	4753.6	4857.0	5087.7	5394.0	5724.2	6040.4	6247.3	6350.7	6468.1	6521.8
4797.3	20°	4872.9	5000.2	5330.4	5775.9	6215.5	6551.6	6718.7	6746.5	6754.5	6760.4
4892.8	22.5°	4996.2	5167.3	5634.7	6257.2	6728.6	6961.3	6985.2	6865.9	6698.8	6621.2
4986.3	25°	5131.5	5358.2	6032.5	6788.3	7170.2	7198.0	7015.0	6724.6	6408.4	6263.2
5061.9	27.5°	5262.8	5579.0	6509.8	7295.5	7488.4	7243.8	6849.9	6438.2	6056.4	5903.2
5115.6	30°	5394.0	5831.6	7036.9	7739.0	7633.6	7130.4	6589.4	6129.9	5746.1	5585.0
5163.3	32.5°	5527.3	6126.0	7643.5	8059.2	7607.7	6889.7	6265.2	5783.9	5445.7	5276.7
5205.1	35°	5678.5	6488.0	8218.3	8234.3	7434.7	6535.7	5837.6	5370.2	5075.8	4940.6
5254.8	37.5°	5875.4	6947.4	8725.5	8278.0	7132.4	6016.6	5306.5	4880.9	4638.2	4576.6
5328.4	40°	6120.0	7500.3	9113.4	8208.4	6684.9	5386.1	4725.7	4385.6	4248.4	4262.3
5427.8	42.5°	6438.2	8118.9	9385.9	8029.4	6062.3	4735.7	4216.6	4065.4	4131.0	4186.7
5577.0	45°	6851.9	8761.3	9554.9	7725.1	5358.2	4184.7	3916.2	3952.0	4001.8	4007.7
5817.7	47.5°	7381.0	9411.7	9666.3	7265.6	4640.2	3796.9	3725.3	3733.3	3723.3	3681.5
6177.7	50°	8041.3	10044.2	9765.7	6657.0	4029.6	3554.3	3458.8	3430.9	3293.7	3158.5
6657.0	52.5°	8793.1	10625.0	9807.5	5901.2	3554.3	3351.4	3196.2	3021.2	2764.6	2722.9
7259.7	55°	9628.5	11162.0	9700.1	4972.4	3154.5	3090.8	2856.1	2645.3	2617.5	2581.7
8053.3	57.5°	10627.0	11740.8	9481.3	3936.1	2744.8	2786.5	2557.8	2581.7	2531.9	2476.2
9073.6	60°	11718.9	12339.4	9097.5	2991.4	2321.1	2406.6	2480.2	2478.2	2464.3	2418.6
10149.6	62.5°	12701.4	12733.3	8341.7	2291.3	1949.2	2112.3	2313.1	2311.2	2299.2	2273.4
11273.4	65°	13286.2	12673.6	7080.7	1804.0	1642.9	1869.6	2086.4	2102.3	2104.3	2102.3
12118.7	67.5°	13182.8	11975.5	5350.3	1436.0	1390.3	1623.0	1861.7	1883.5	1899.4	1903.4
12226.1	70°	12013.3	10442.0	3488.6	1145.6	1165.5	1406.2	1648.8	1670.7	1684.6	1700.6
10609.1	72.5°	9364.0	7677.3	1996.9	926.9	968.6	1219.2	1438.0	1463.9	1471.8	1501.7
7383.0	75°	5706.3	4514.9	1078.0	729.9	795.6	1042.2	1229.2	1259.0	1272.9	1308.7
3625.9	77.5°	2712.9	1955.1	614.6	568.8	640.4	851.3	1038.2	1072.0	1034.3	1054.1
1000.4	80°	916.9	726.0	387.8	433.6	489.3	664.3	831.4	865.2	785.6	781.7
332.2	82.5°	320.2	294.4	246.6	288.4	316.2	475.4	628.5	672.3	584.8	582.8
149.2	85°	125.3	119.3	137.2	157.1	189.0	292.4	413.7	435.6	360.0	290.4
43.8	87.5°	25.9	27.8	33.8	35.8	57.7	101.4	149.2	183.0	145.2	123.3
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>
4288.2
4449.3
4684.0
4954.5
5262.8
5614.8
6048.4
6519.8
6776.4
6643.1
6285.1
5921.1
5602.9
5298.6
4970.4
4620.3
4310.1
4238.5
4047.5
3713.4
3176.4
2736.8
2587.6
2466.3
2402.7
2263.4
2102.3
1907.4
1708.5
1513.6
1312.7
1038.2
773.7
554.9
286.4
113.4
0.0

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