

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: P941812

Luminaire Tested: **GALN-SB5C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941812
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-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 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: 39674 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

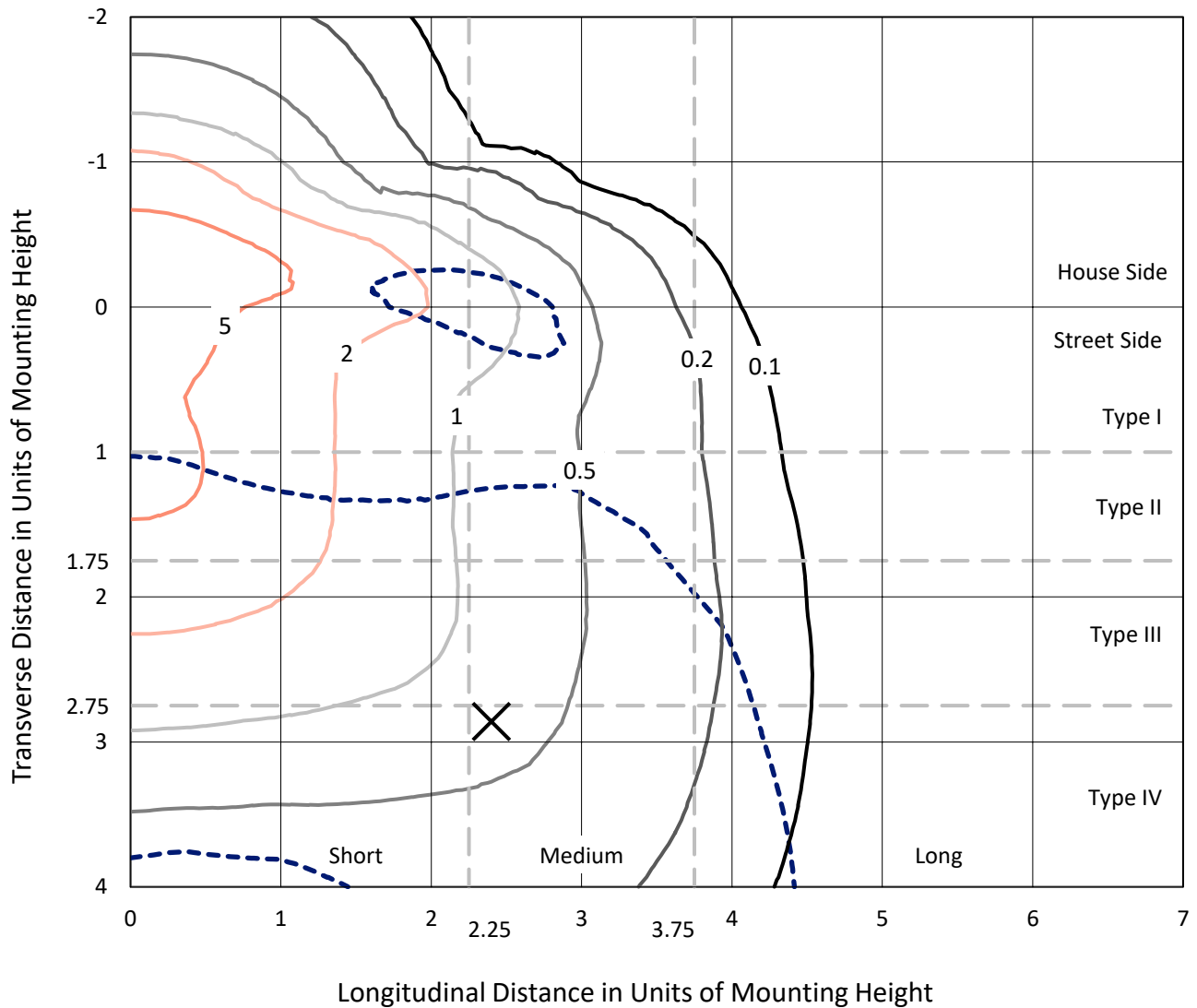
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

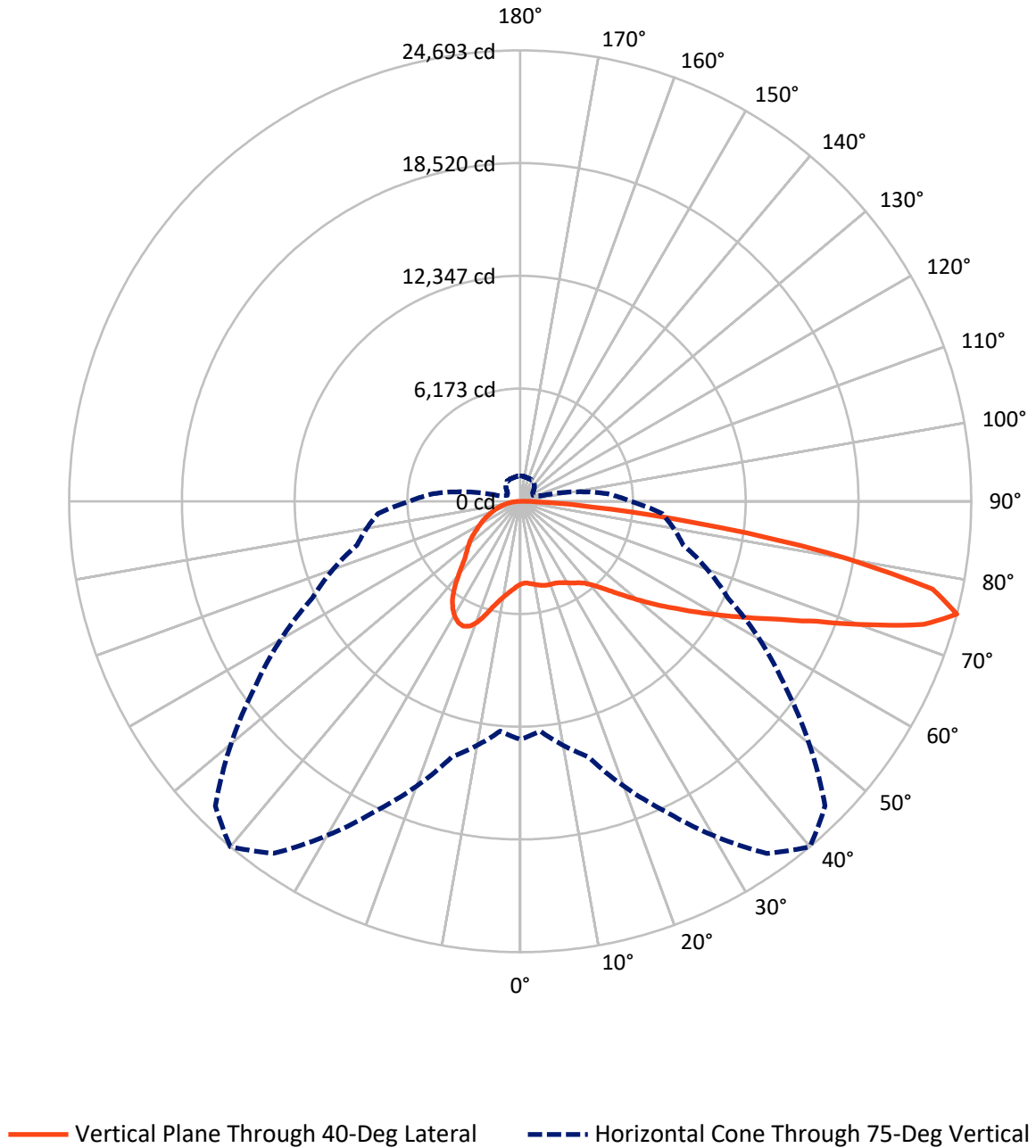
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	12292.3	0.0	12292.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	27381.7	0.0	27381.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	39674.0	0.0	39674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.9	1.1
10°-20°	1520.4	3.8
20°-30°	2776.2	7.0
30°-40°	3937.4	9.9
40°-50°	5316.7	13.4
50°-60°	7152.4	18.0
60°-70°	9078.1	22.9
70°-80°	8238.9	20.8
80°-90°	1201.0	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°	39674.0	100.0
0°-180°	39674.0	100.0

Coefficient of Utilization



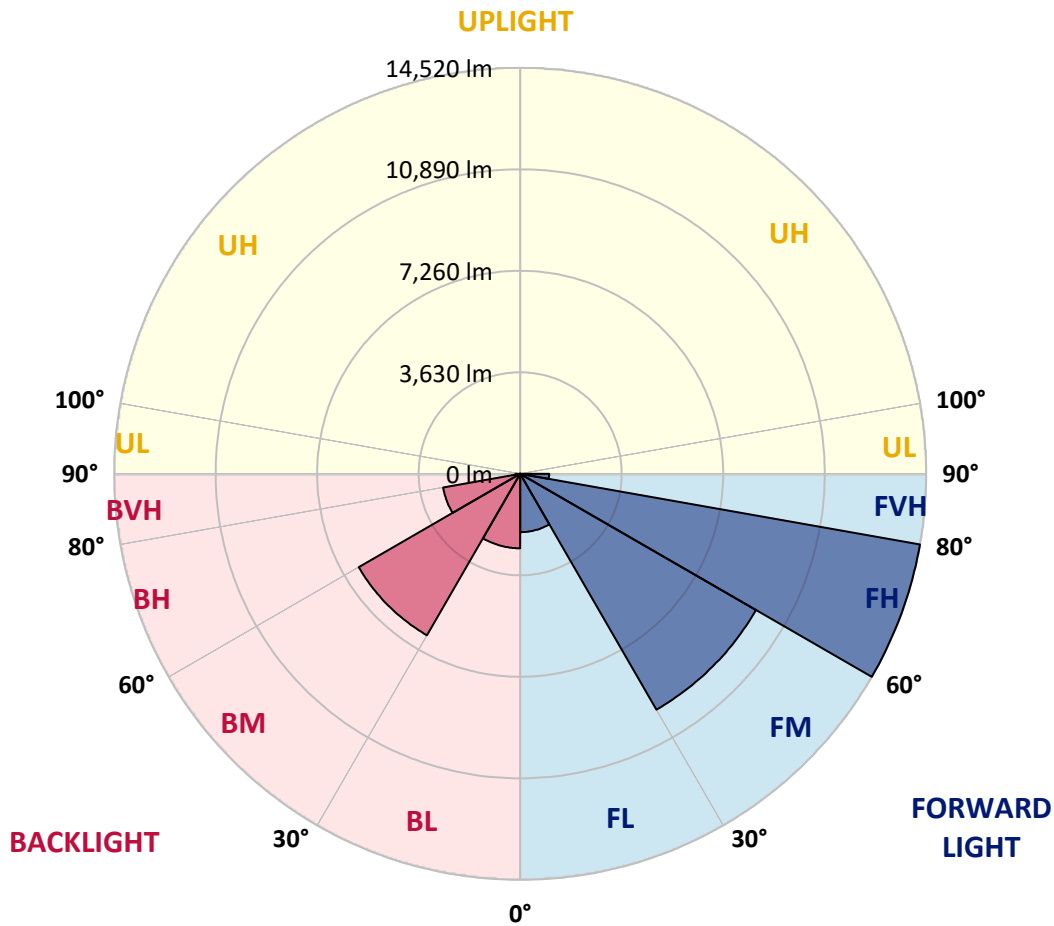
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.9	5.3			
FM (30°-60°)	9739.1	24.5			
FH (60°-80°)	14520.1	36.6			G5
FVH (80°-90°)	1035.6	2.6			G5
BL (0°-30°)	2662.6	6.7	B4/5000		
BM (30°-60°)	6667.5	16.8	B4/8500		
BH (60°-80°)	2796.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	165.3	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°	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8
2.5°	4467.3	4492.6	4486.3	4477.9	4477.9	4480.0	4477.9	4492.6	4507.3	4522.0
5°	4513.6	4538.9	4526.3	4515.7	4507.3	4505.2	4498.9	4496.8	4505.2	4524.1
7.5°	4604.1	4629.4	4610.4	4591.5	4574.7	4566.2	4557.8	4545.2	4538.9	4549.4
10°	4705.1	4730.4	4707.2	4673.6	4646.2	4635.7	4627.3	4614.6	4606.2	4612.5
12.5°	4806.1	4831.4	4799.8	4753.5	4717.7	4711.4	4700.9	4696.7	4694.6	4692.5
15°	4900.8	4921.9	4881.9	4827.2	4789.3	4778.8	4768.2	4774.6	4785.1	4797.7
17.5°	4974.5	4995.5	4936.6	4865.0	4829.3	4825.1	4818.7	4839.8	4869.2	4900.8
20°	5041.8	5062.8	4987.1	4890.3	4848.2	4848.2	4850.3	4894.5	4936.6	4982.9
22.5°	5136.5	5153.3	5060.7	4928.2	4867.1	4871.4	4888.2	4932.4	4985.0	5048.1
25°	5277.5	5290.1	5176.5	4999.7	4930.3	4942.9	4957.6	4978.7	5029.2	5102.8
27.5°	5504.7	5515.3	5365.9	5126.0	5020.8	5041.8	5062.8	5048.1	5071.3	5134.4
30°	5824.6	5830.9	5641.5	5323.8	5174.4	5184.9	5189.1	5128.1	5083.9	5134.4
32.5°	6203.3	6201.2	5976.1	5563.7	5349.0	5338.5	5302.7	5182.8	5079.7	5123.9
35°	6790.4	6767.3	6476.9	5900.3	5546.8	5481.6	5397.4	5243.8	5100.7	5113.3
37.5°	7762.6	7691.1	7289.1	6451.6	5841.4	5675.2	5551.0	5342.7	5147.0	5109.1
40°	8858.9	8768.4	8326.5	7207.1	6283.3	6016.1	5816.2	5483.7	5222.8	5128.1
42.5°	10159.3	10031.0	9555.4	8097.2	6843.0	6455.9	6154.9	5662.6	5334.3	5189.1
45°	11756.5	11586.0	10912.7	9100.9	7548.0	7032.4	6630.5	5934.0	5504.7	5306.9
47.5°	13370.4	13412.5	12455.1	10249.8	8393.9	7743.7	7226.0	6342.2	5753.0	5496.3
50°	15085.4	15114.9	13989.1	11522.9	9353.4	8547.5	7895.2	6798.8	6098.1	5765.7
52.5°	16423.7	16427.9	15382.1	12854.9	10352.9	9431.3	8616.9	7320.7	6497.9	6123.4
55°	17261.2	17250.7	16358.5	14115.3	11501.9	10359.2	9416.5	7914.1	6986.1	6544.2
57.5°	17869.3	17837.8	17031.8	15199.0	12726.5	11455.6	10321.4	8587.5	7562.7	7045.0
60°	18100.8	18081.9	17488.5	16135.4	14014.3	12667.6	11365.1	9340.8	8217.1	7636.3
62.5°	18189.2	18225.0	17936.7	17042.4	15392.6	14010.1	12511.9	10241.4	8953.6	8305.5
65°	18500.6	18565.8	18506.9	18229.2	16949.8	15582.0	14033.3	11312.5	9757.4	9023.0
67.5°	19117.2	19182.4	19207.6	19649.5	18852.0	17541.1	15931.3	12646.6	10698.0	9768.0
70°	19102.4	19083.5	19529.6	20779.5	21234.0	20253.5	18490.1	14287.9	11819.6	10386.6
72.5°	17387.5	17236.0	18290.2	20766.9	23216.3	23085.8	21614.9	16404.8	12787.6	10462.4
75°	13044.3	12640.3	14502.5	18715.2	23546.6	24693.4	23601.3	17717.8	12558.2	9244.0
77.5°	5578.4	5172.3	7367.0	13854.4	21074.1	23083.7	21779.0	15457.9	10024.7	6112.9
80°	1460.4	1458.2	2226.3	6281.2	14332.1	17046.6	14954.9	9982.6	5727.8	2184.2
82.5°	603.9	589.2	818.6	2443.0	7003.0	9565.9	7806.8	4452.6	2068.5	591.3
85°	225.2	223.1	397.7	843.8	2470.4	3945.5	2855.5	1138.4	515.5	288.3
87.5°	63.1	61.0	86.3	292.5	601.8	913.2	488.2	187.3	145.2	113.6
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°
4536.8	0°	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8	4536.8
4545.2	2.5°	4551.5	4562.0	4581.0	4595.7	4614.6	4635.7	4665.1	4684.1	4703.0	4715.6
4555.7	5°	4570.4	4593.6	4642.0	4690.4	4747.2	4799.8	4860.8	4905.0	4940.8	4951.3
4593.6	7.5°	4612.5	4650.4	4732.5	4814.5	4905.0	4991.3	5079.7	5155.4	5216.4	5239.6
4660.9	10°	4686.2	4736.7	4852.4	4968.1	5088.1	5220.7	5334.3	5443.7	5530.0	5565.8
4740.9	12.5°	4778.8	4841.9	4993.4	5153.3	5319.6	5502.6	5649.9	5784.6	5891.9	5940.3
4852.4	15°	4898.7	4980.8	5174.4	5389.0	5633.1	5887.7	6075.0	6224.4	6344.3	6403.2
4968.1	17.5°	5029.2	5138.6	5382.7	5706.7	6056.0	6390.6	6609.5	6718.9	6843.0	6899.9
5075.5	20°	5155.4	5290.1	5639.4	6110.8	6575.8	6931.4	7108.2	7137.6	7146.1	7152.4
5176.5	22.5°	5285.9	5466.9	5961.4	6620.0	7118.7	7364.9	7390.1	7263.9	7087.1	7005.1
5275.4	25°	5429.0	5668.9	6382.2	7181.8	7585.8	7615.3	7421.7	7114.5	6779.9	6626.3
5355.3	27.5°	5567.9	5902.4	6887.2	7718.4	7922.5	7663.7	7247.1	6811.5	6407.5	6245.4
5412.1	30°	5706.7	6169.7	7444.9	8187.7	8076.1	7543.8	6971.4	6485.3	6079.2	5908.7
5462.6	32.5°	5847.7	6481.1	8086.7	8526.4	8048.8	7289.1	6628.4	6119.2	5761.5	5582.6
5506.8	35°	6007.6	6864.1	8694.8	8711.6	7865.7	6914.6	6176.0	5681.5	5370.1	5227.0
5559.4	37.5°	6216.0	7350.2	9231.4	8757.9	7545.9	6365.4	5614.2	5163.8	4907.1	4841.9
5637.3	40°	6474.8	7935.1	9641.7	8684.3	7072.4	5698.3	4999.7	4639.9	4494.7	4509.4
5742.5	42.5°	6811.5	8589.6	9930.0	8494.9	6413.8	5010.2	4461.0	4301.1	4370.5	4429.5
5900.3	45°	7249.2	9269.2	10108.8	8172.9	5668.9	4427.4	4143.3	4181.2	4233.8	4240.1
6154.9	47.5°	7808.9	9957.3	10226.7	7686.8	4909.2	4017.0	3941.3	3949.7	3939.2	3895.0
6535.8	50°	8507.5	10626.5	10331.9	7042.9	4263.2	3760.3	3659.3	3629.8	3484.6	3341.6
7042.9	52.5°	9302.9	11240.9	10376.1	6243.3	3760.3	3545.7	3381.5	3196.4	2924.9	2880.7
7680.5	55°	10186.7	11809.1	10262.5	5260.6	3337.3	3270.0	3021.7	2798.7	2769.2	2731.3
8520.1	57.5°	11243.0	12421.4	10031.0	4164.3	2903.9	2948.1	2706.1	2731.3	2678.7	2619.8
9599.6	60°	12398.3	13054.8	9624.9	3164.8	2455.7	2546.1	2624.0	2621.9	2607.2	2558.8
10738.0	62.5°	13437.8	13471.4	8825.2	2424.1	2062.2	2234.7	2447.2	2445.1	2432.5	2405.2
11926.9	65°	14056.4	13408.3	7491.1	1908.6	1738.1	1978.0	2207.4	2224.2	2226.3	2224.2
12821.2	67.5°	13947.0	12669.7	5660.4	1519.3	1470.9	1717.1	1969.6	1992.7	2009.6	2013.8
12934.9	70°	12709.7	11047.3	3690.9	1212.1	1233.1	1487.7	1744.4	1767.6	1782.3	1799.1
11224.1	72.5°	9906.8	8122.4	2112.7	980.6	1024.8	1289.9	1521.4	1548.7	1557.1	1588.7
7811.0	75°	6037.1	4776.7	1140.5	772.3	841.7	1102.6	1300.4	1332.0	1346.7	1384.6
3836.1	77.5°	2870.2	2068.5	650.2	601.8	677.6	900.6	1098.4	1134.2	1094.2	1115.3
1058.4	80°	970.1	768.1	410.3	458.7	517.6	702.8	879.6	915.4	831.2	827.0
351.4	82.5°	338.8	311.4	260.9	305.1	334.6	502.9	664.9	711.2	618.7	616.5
157.8	85°	132.6	126.3	145.2	166.2	199.9	309.3	437.7	460.8	380.9	307.2
46.3	87.5°	27.4	29.5	35.8	37.9	61.0	107.3	157.8	193.6	153.6	130.5
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>
4536.8
4707.2
4955.5
5241.7
5567.9
5940.3
6399.0
6897.7
7169.2
7028.2
6649.4
6264.4
5927.7
5605.7
5258.5
4888.2
4559.9
4484.2
4282.2
3928.6
3360.5
2895.5
2737.6
2609.3
2541.9
2394.6
2224.2
2018.0
1807.6
1601.3
1388.8
1098.4
818.6
587.1
303.0
119.9
0.0

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