

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: P954231

Luminaire Tested: **GALN-SB7C-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57393 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

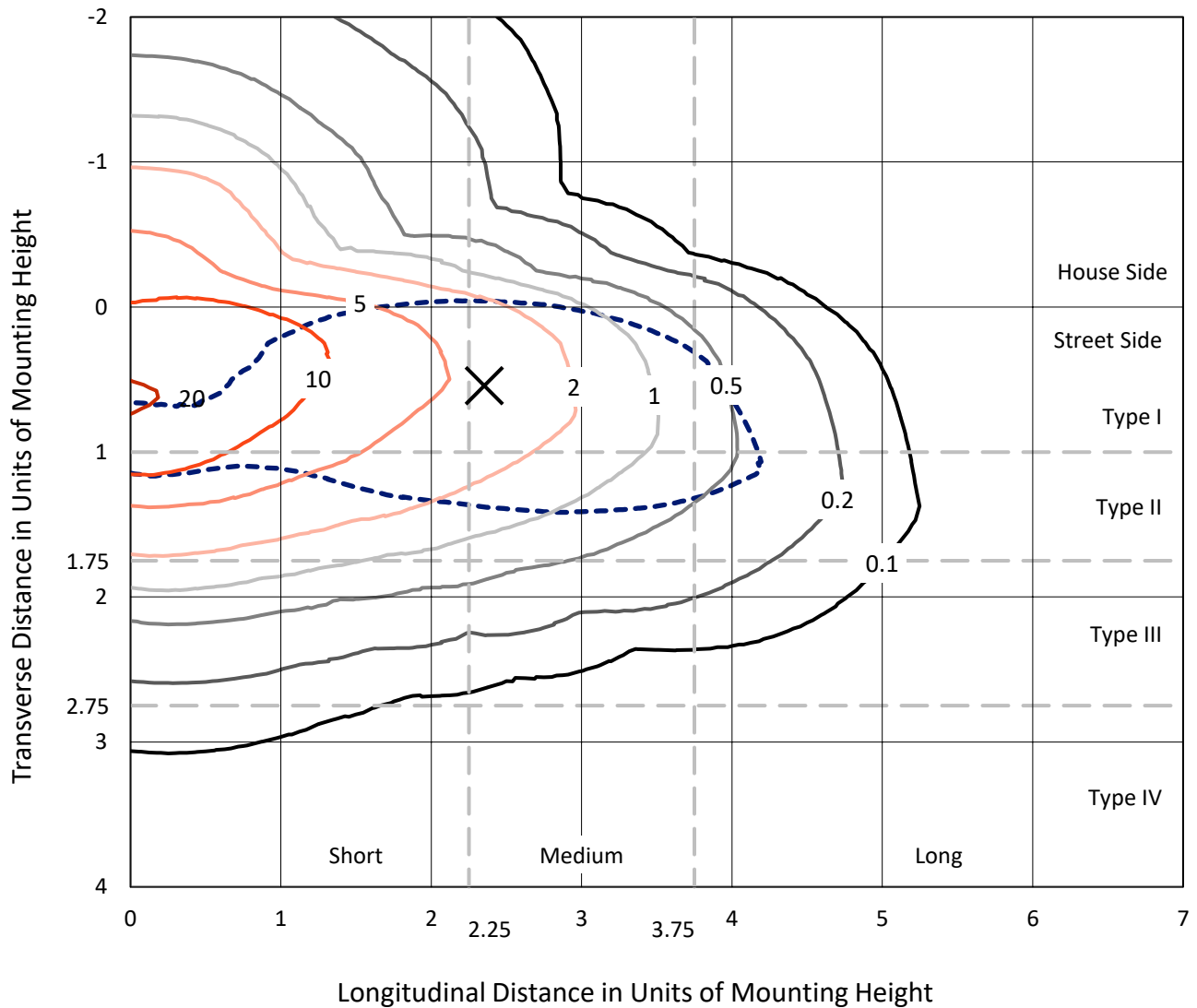
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

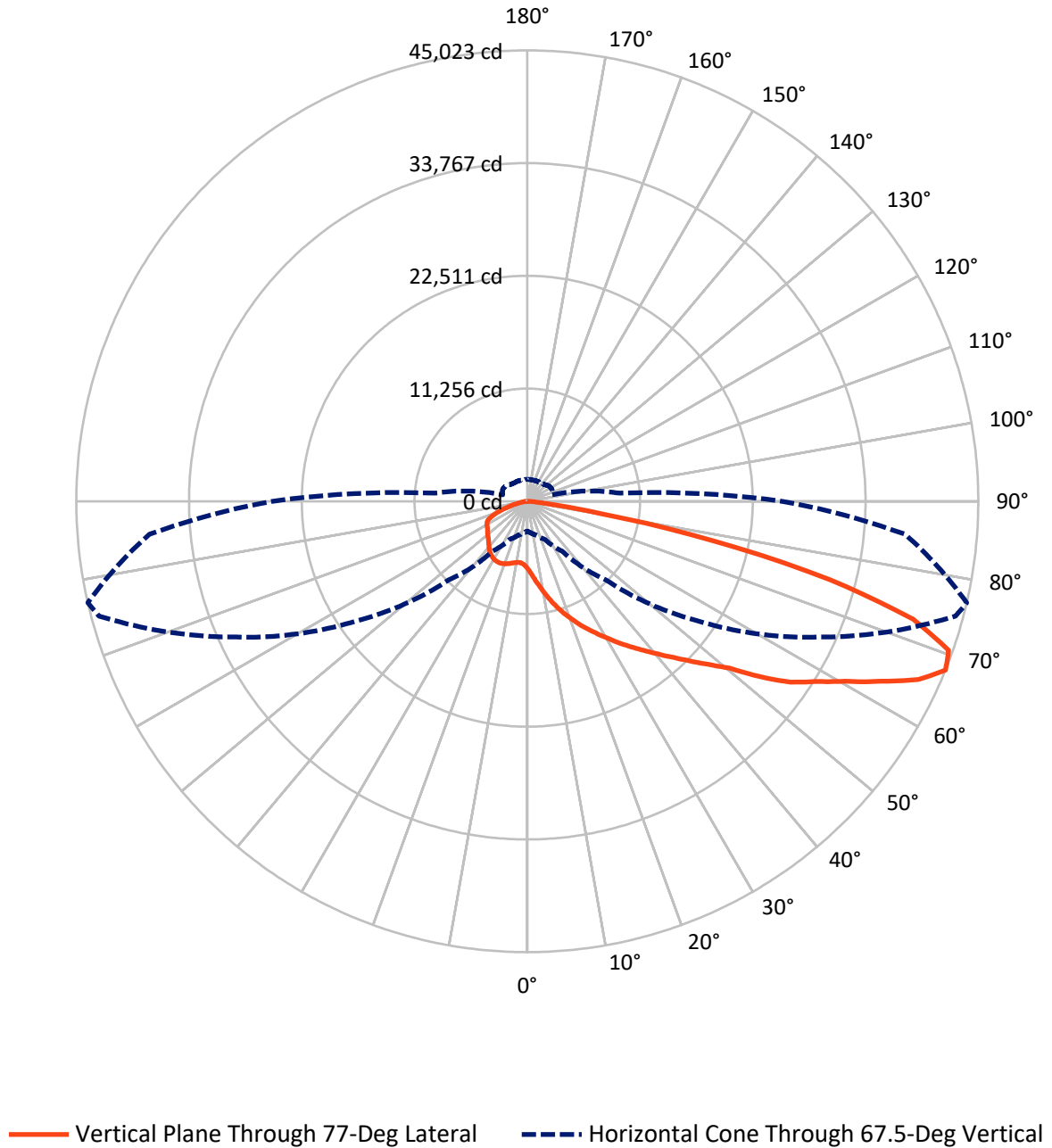
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10856.5	0.0	10856.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	46536.5	0.0	46536.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	57393.0	0.0	57393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.8	1.3
10°-20°	2593.1	4.5
20°-30°	4896.0	8.5
30°-40°	7887.4	13.7
40°-50°	10788.6	18.8
50°-60°	12169.6	21.2
60°-70°	11358.8	19.8
70°-80°	6226.5	10.8
80°-90°	751.1	1.3
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°	57393.0	100.0
0°-180°	57393.0	100.0

Coefficient of Utilization



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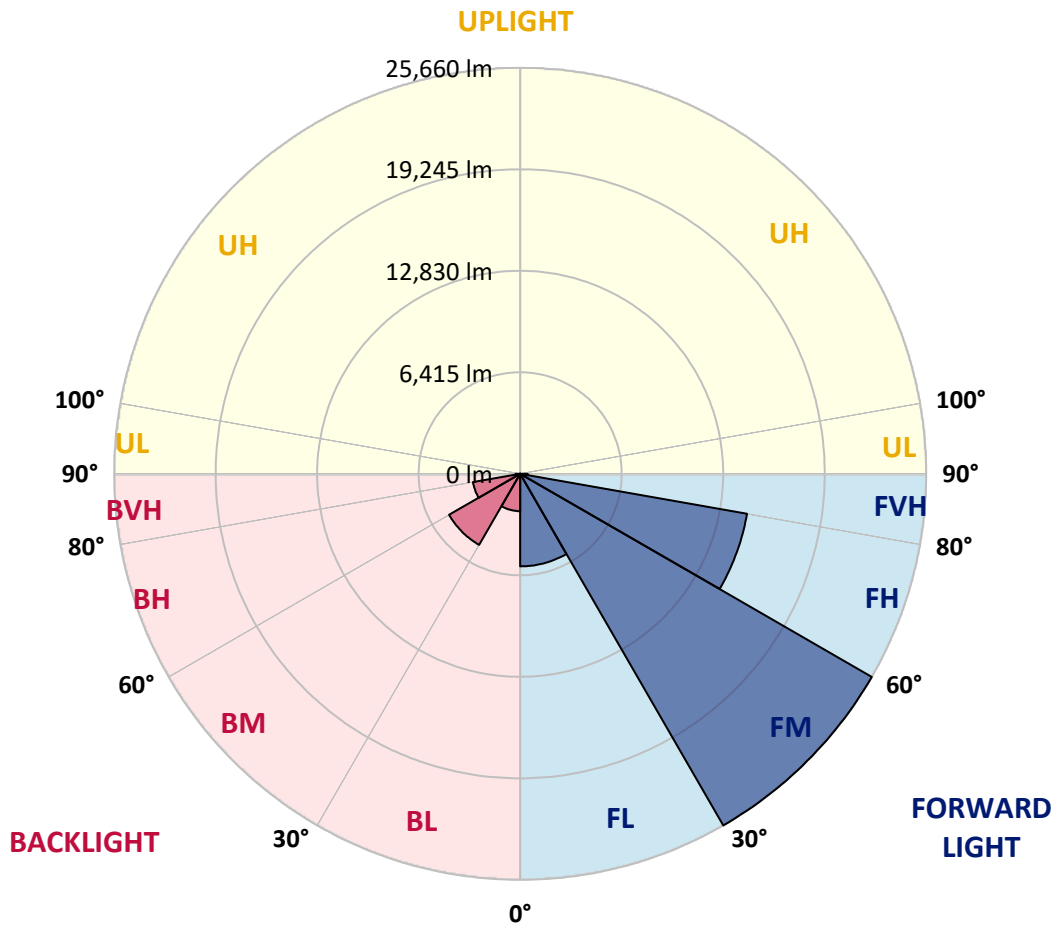
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5850.5	10.2			
FM (30°-60°)	25659.8	44.7			
FH (60°-80°)	14556.6	25.4			G5
FVH (80°-90°)	469.7	0.8			G3/500
BL (0°-30°)	2360.4	4.1	B3/2500		
BM (30°-60°)	5185.9	9.0	B4/8500		
BH (60°-80°)	3028.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	281.4	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0
2.5°	8431.5	8490.8	8416.7	8416.7	8167.9	8037.5	7788.7	7599.1	7258.4	7199.1
5°	9966.2	10040.2	9936.5	9892.1	9598.8	9329.2	8911.5	8499.7	7892.4	7830.1
7.5°	11154.2	11249.0	11157.1	11109.7	10849.0	10546.8	10058.0	9483.3	8627.1	8505.6
10°	12122.9	12137.8	12108.1	12125.9	11921.5	11672.6	11172.0	10502.4	9432.9	9267.0
12.5°	12671.0	12739.2	12798.4	12905.1	12869.5	12715.5	12265.1	11465.2	10286.1	10072.8
15°	12928.8	13047.3	13180.6	13426.5	13625.0	13663.5	13319.8	12499.2	11154.2	10896.4
17.5°	13020.6	13133.2	13343.5	13699.0	14125.7	14413.0	14259.0	13503.5	12013.3	11717.1
20°	13485.7	13518.3	13645.7	13983.5	14445.6	14922.6	15038.1	14469.3	12863.6	12528.8
22.5°	14481.2	14416.0	14451.5	14605.6	14937.4	15399.6	15663.2	15322.5	13737.6	13352.4
25°	16125.4	15935.8	15746.2	15568.4	15737.3	15998.0	16297.2	16175.8	14653.0	14164.2
27.5°	18202.2	17971.1	17553.4	16969.8	16765.3	16857.2	16990.5	16966.8	15500.3	15005.6
30°	20246.4	19976.8	19479.1	18634.7	18095.5	17852.6	17751.9	17683.7	16421.7	15894.3
32.5°	21878.8	21665.5	21176.6	20231.6	19449.4	19034.7	18699.9	18457.0	17384.5	16857.2
35°	23306.7	23108.3	22548.3	21517.3	20667.1	20225.6	19787.2	19268.7	18385.9	17852.6
37.5°	24610.3	24411.8	23644.5	22572.0	21715.8	21410.7	21019.6	20139.7	19390.2	18886.6
40°	25433.9	25389.5	24672.5	23457.8	22569.1	22418.0	22287.6	21150.0	20504.1	20036.0
42.5°	25644.2	25742.0	25173.2	24174.8	23327.5	23206.0	23511.2	22293.5	21754.3	21307.0
45°	25137.6	25419.1	25045.8	24367.4	23866.7	23801.5	24595.5	23543.8	23137.9	22729.0
47.5°	23854.8	24331.8	24177.8	24082.9	24011.8	24293.3	25549.4	24871.0	24705.1	24349.6
50°	21265.5	22169.1	22438.7	23037.2	23724.5	24675.5	26417.5	26319.7	26536.0	26177.5
52.5°	16789.0	18033.3	19597.6	21096.6	22841.6	24548.1	27371.4	28399.5	29311.9	29116.4
55°	13859.0	14419.0	15621.8	18371.1	21129.2	24011.8	27801.0	30079.2	32067.1	31892.4
57.5°	11607.5	12108.1	12848.8	15144.8	18539.9	22794.2	28067.6	31104.3	33954.3	33936.5
60°	9192.9	9723.2	10481.7	12108.1	15515.1	20690.8	28008.4	32271.6	36362.9	36511.0
62.5°	6467.3	7051.0	7892.4	9409.2	12425.1	17965.2	26799.6	33115.9	39198.1	39601.0
65°	4251.3	4636.5	5270.5	6579.9	9258.1	14460.4	24491.8	33225.5	42231.8	42913.2
67.5°	2980.4	3128.5	3501.8	4212.8	6102.9	11089.0	20815.2	32090.8	44255.3	45022.6
70°	2325.6	2399.7	2589.3	2873.7	3833.6	7456.9	15950.6	29140.1	43822.7	44622.6
72.5°	2008.6	2079.7	2150.8	2186.4	2571.5	4603.9	10804.6	24364.4	39749.2	40291.3
75°	1822.0	1839.8	1899.0	1887.2	1961.2	2986.3	6236.3	17751.9	31362.0	31175.4
77.5°	1531.7	1555.4	1653.1	1638.3	1742.0	2041.2	3238.1	11456.4	20332.3	19064.3
80°	1297.6	1309.5	1416.1	1398.3	1513.9	1478.3	1653.1	5839.3	8624.1	7305.8
82.5°	450.3	557.0	1081.3	1113.9	1155.4	894.7	954.0	2381.9	2633.7	2017.5
85°	219.2	234.0	551.0	782.1	779.2	450.3	465.1	850.3	829.5	651.8
87.5°	35.6	44.4	65.2	305.1	242.9	118.5	160.0	165.9	171.8	148.1
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°
6734.0	0°	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0
6974.0	2.5°	6808.0	6659.9	6348.8	6061.5	5836.3	5620.0	5498.6	5394.9	5335.6	5323.8
7299.8	5°	6991.7	6686.6	6120.7	5643.7	5332.7	5101.6	4980.1	4903.1	4864.6	4840.9
7738.3	7.5°	7255.4	6808.0	6002.2	5460.1	5134.2	4968.3	4906.1	4894.2	4891.2	4894.2
8268.6	10°	7619.8	7006.5	5990.4	5415.6	5143.1	5051.2	5048.3	5051.2	5063.1	5066.0
8846.3	12.5°	8013.8	7211.0	6037.8	5454.1	5255.6	5205.3	5196.4	5193.4	5202.3	5208.2
9429.9	15°	8443.4	7480.6	6117.8	5537.1	5380.1	5326.7	5317.9	5300.1	5297.1	5294.2
10043.2	17.5°	8884.8	7747.2	6206.6	5626.0	5460.1	5386.0	5353.4	5311.9	5279.3	5270.5
10677.2	20°	9332.2	8010.9	6268.9	5670.4	5466.0	5362.3	5297.1	5226.0	5169.7	5137.1
11317.1	22.5°	9809.2	8286.4	6307.4	5658.6	5412.7	5270.5	5152.0	5069.0	4983.1	4926.8
11963.0	25°	10274.3	8526.4	6304.4	5596.3	5309.0	5128.3	4977.2	4870.5	4752.0	4692.8
12629.5	27.5°	10721.6	8742.6	6230.3	5486.7	5160.8	4959.4	4778.7	4651.3	4535.7	4479.4
13302.1	30°	11183.8	8923.3	6114.8	5326.7	4986.0	4763.9	4565.4	4455.7	4352.1	4298.7
14013.1	32.5°	11643.0	9089.2	5951.9	5128.3	4784.6	4571.3	4375.8	4275.0	4212.8	4212.8
14777.4	35°	12128.9	9204.8	5735.6	4897.2	4571.3	4366.9	4212.8	4153.6	4147.6	4112.1
15586.2	37.5°	12641.4	9278.9	5471.9	4660.2	4360.9	4168.4	4121.0	4049.9	3990.6	3913.6
16475.0	40°	13180.6	9352.9	5154.9	4414.3	4138.7	4032.1	4011.4	3916.6	3747.7	3558.1
17482.3	42.5°	13835.3	9403.3	4826.1	4168.4	3904.7	3869.2	3898.8	3735.8	3466.2	3324.0
18696.9	45°	14593.8	9486.2	4523.9	3925.4	3664.7	3664.7	3789.2	3575.9	3353.7	3264.8
20083.4	47.5°	15577.3	9678.8	4242.4	3658.8	3442.5	3501.8	3546.2	3383.3	3258.9	3149.2
21772.1	50°	16999.4	10141.0	3952.1	3389.2	3273.7	3392.2	3330.0	3235.2	3090.0	3001.1
24456.2	52.5°	18765.1	10413.5	3694.4	3146.3	3128.5	3247.0	3158.1	3069.3	2959.6	2841.1
26491.5	55°	19967.9	10463.9	3478.1	2968.5	3030.7	3018.9	2986.3	2906.3	2847.1	2690.0
28500.2	57.5°	21312.9	10564.6	3300.3	2861.9	2968.5	2838.2	2826.3	2758.2	2681.1	2574.5
30950.2	60°	22921.6	10721.6	3146.3	2820.4	2915.2	2719.7	2660.4	2633.7	2556.7	2503.4
33898.0	62.5°	24675.5	10863.8	2989.3	2826.3	2853.0	2604.1	2515.2	2506.4	2459.0	2441.2
36665.1	65°	25872.4	10475.7	2793.7	2820.4	2755.2	2485.6	2373.0	2370.1	2331.6	2325.6
37864.9	67.5°	25454.6	9246.3	2530.1	2737.4	2654.5	2367.1	2242.7	2230.8	2180.5	2183.4
36611.8	70°	23363.0	7492.4	2165.7	2533.0	2530.1	2260.5	2106.4	2067.9	1999.8	2011.6
31833.1	72.5°	19440.6	5551.9	1676.8	2192.3	2331.6	2162.7	1949.4	1887.2	1801.3	1813.1
23499.3	75°	14039.7	3774.3	1220.6	1667.9	2029.4	2047.2	1795.3	1688.7	1585.0	1602.8
13079.9	77.5°	7184.3	2139.0	897.7	1149.5	1593.9	1860.5	1656.1	1513.9	1490.2	1656.1
3771.4	80°	2343.4	1072.5	622.1	805.8	1045.8	1522.8	1451.7	1288.7	1282.8	1321.3
791.0	82.5°	699.2	453.3	400.0	530.3	577.7	1167.3	1253.2	974.7	838.4	882.9
263.7	85°	240.0	219.2	228.1	263.7	275.5	684.4	876.9	645.8	610.3	672.5
59.3	87.5°	56.3	77.0	65.2	59.3	59.3	165.9	340.7	269.6	373.3	248.9
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>
6734.0
5323.8
4837.9
4903.1
5069.0
5211.2
5291.2
5279.3
5149.0
4929.8
4692.8
4476.5
4295.8
4215.8
4103.2
3901.7
3531.4
3327.0
3279.6
3146.3
2992.2
2817.4
2693.0
2538.9
2518.2
2441.2
2322.7
2183.4
2023.5
1810.1
1608.7
1632.4
1134.7
912.5
663.6
240.0
0.0

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