

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: P941147

Luminaire Tested: **GALN-SB4C-750-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-750-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

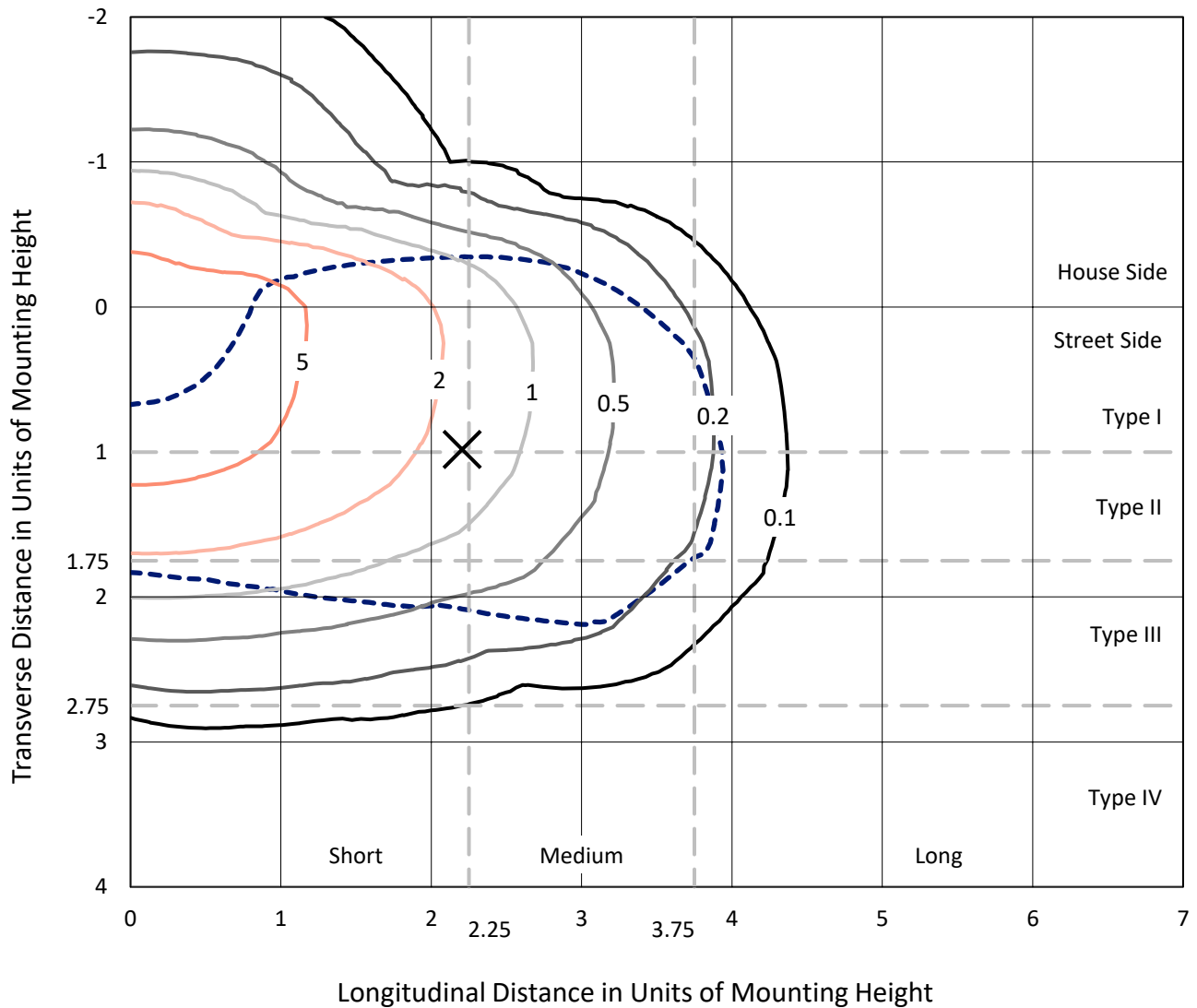
Lumens per Lamp: N/A  
Luminaire Lumens: 31776 lumens  
Efficiency: N/A  
Efficacy: 158.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

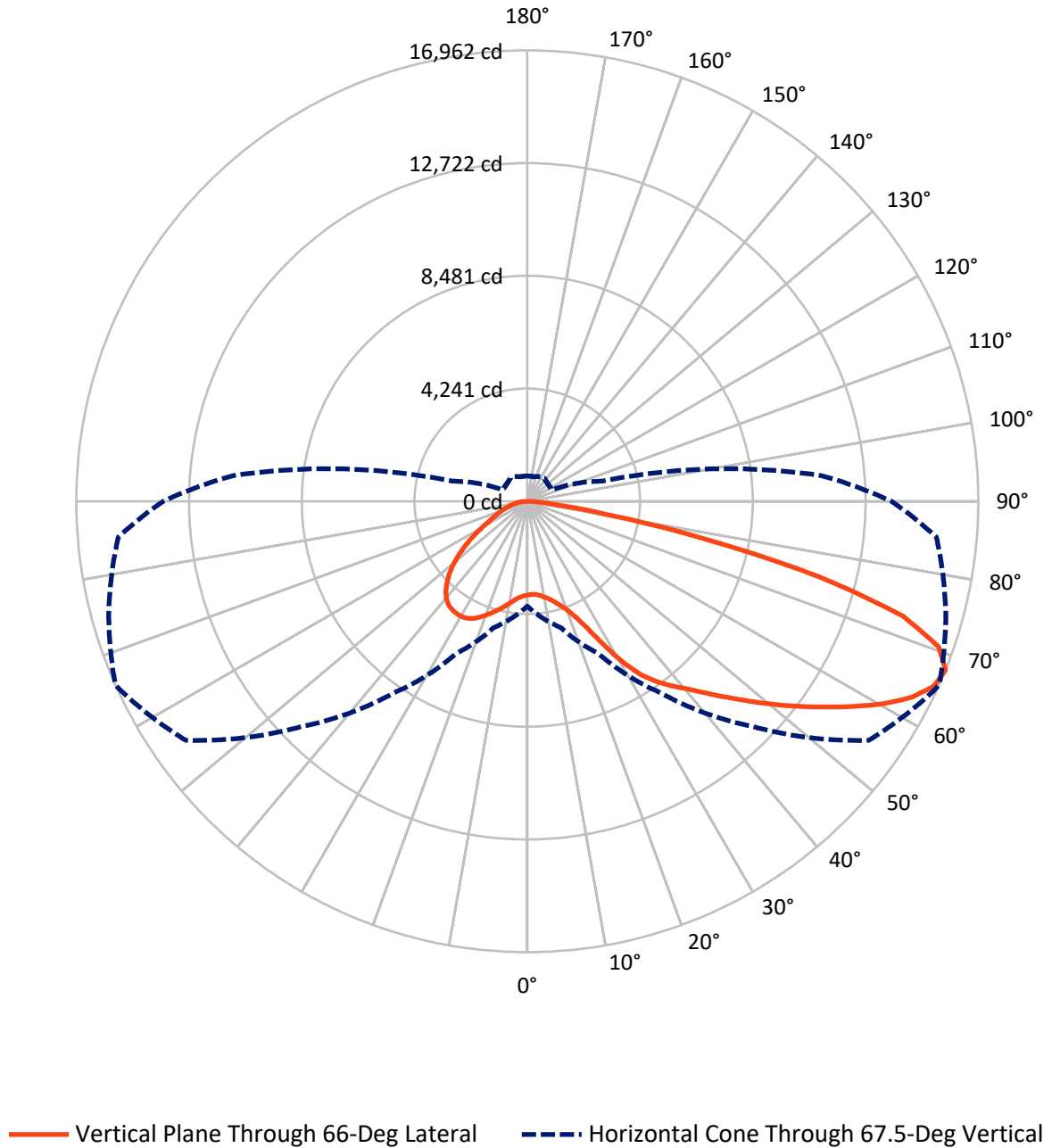
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7901.0	0.0	7901.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	23875.0	0.0	23875.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	31776.0	0.0	31776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.4	1.1
10°-20°	1154.5	3.6
20°-30°	2225.2	7.0
30°-40°	3901.5	12.3
40°-50°	5800.3	18.3
50°-60°	7352.5	23.1
60°-70°	7194.2	22.6
70°-80°	3431.7	10.8
80°-90°	366.8	1.2
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°	31776.0	100.0
0°-180°	31776.0	100.0

**Coefficient of Utilization**



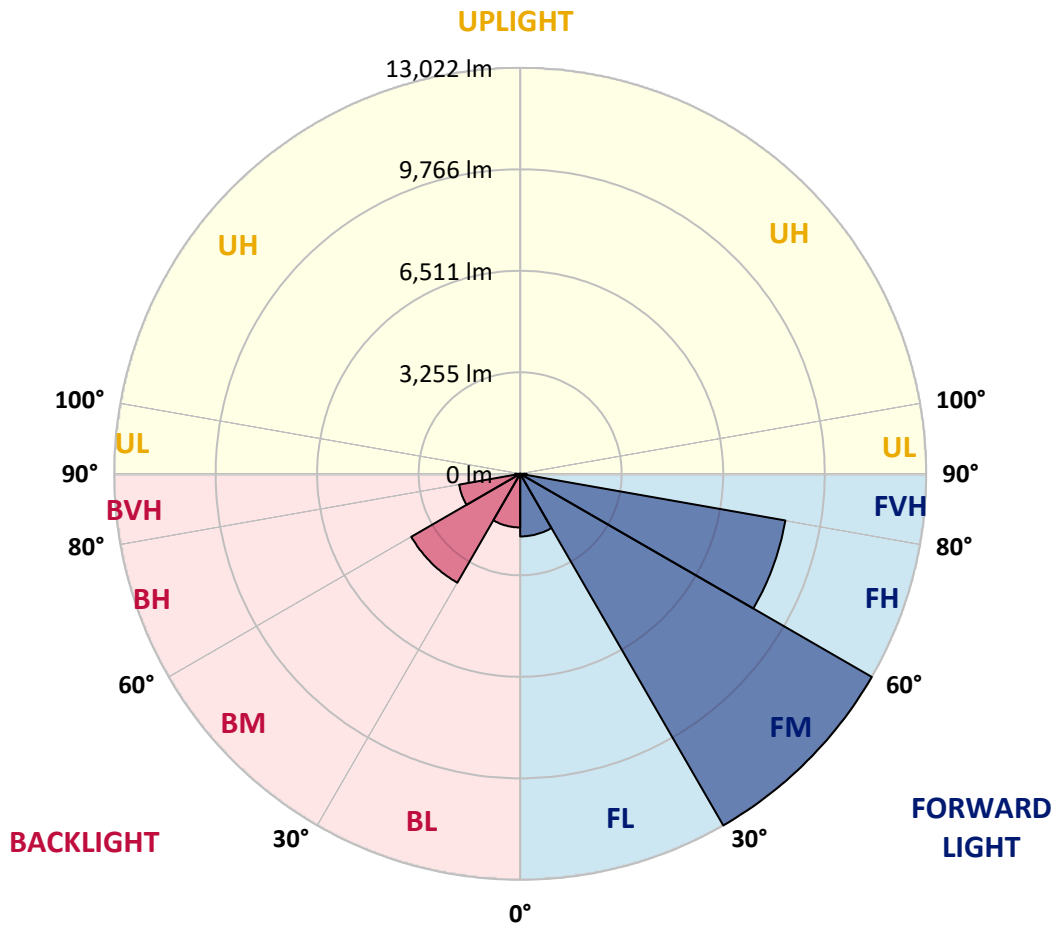
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2007.9	6.3			
FM (30°-60°)	13021.5	41.0			
FH (60°-80°)	8637.6	27.2			G4/12000
FVH (80°-90°)	207.9	0.7			G2/225
BL (0°-30°)	1721.1	5.4	B3/2500		
BM (30°-60°)	4032.8	12.7	B3/5000		
BH (60°-80°)	1988.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	158.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4
2.5°	3487.6	3507.7	3502.7	3494.3	3492.7	3496.0	3501.0	3506.0	3504.3	3512.7
5°	3477.6	3497.7	3496.0	3496.0	3502.7	3516.0	3524.4	3532.7	3524.4	3534.4
7.5°	3484.3	3499.3	3506.0	3512.7	3529.4	3554.4	3574.5	3592.8	3582.8	3594.5
10°	3569.5	3581.1	3587.8	3587.8	3599.5	3627.9	3647.9	3681.3	3673.0	3691.3
12.5°	3724.7	3736.4	3736.4	3729.7	3738.1	3756.4	3763.1	3799.9	3784.8	3814.9
15°	3915.0	3938.4	3920.1	3908.4	3911.7	3930.1	3928.4	3956.8	3941.8	3966.8
17.5°	4125.4	4155.5	4125.4	4123.7	4117.1	4137.1	4138.8	4163.8	4137.1	4155.5
20°	4374.2	4415.9	4390.9	4399.2	4384.2	4392.5	4400.9	4437.6	4395.9	4409.2
22.5°	4724.8	4774.9	4748.1	4779.9	4769.8	4763.2	4761.5	4826.6	4761.5	4766.5
25°	5235.6	5295.7	5249.0	5292.4	5292.4	5314.1	5339.2	5422.6	5314.1	5282.4
27.5°	5990.3	6050.4	5958.6	5985.3	5976.9	6030.3	6003.6	6210.7	6093.8	6042.0
30°	6898.5	7005.3	6831.7	6825.0	6816.7	6901.8	6940.2	7077.1	6958.6	6906.8
32.5°	7880.2	7992.0	7785.0	7724.9	7693.2	7745.0	7713.2	7823.4	7741.6	7661.5
35°	8918.6	9028.8	8831.8	8714.9	8588.1	8479.5	8366.0	8394.4	8317.6	8195.7
37.5°	9900.3	10102.3	9893.6	9768.4	9534.7	9322.7	9005.4	8873.6	8801.8	8689.9
40°	10900.4	11015.6	10857.0	10750.1	10496.3	10164.1	9656.6	9377.8	9280.9	9172.4
42.5°	11636.6	11746.8	11661.7	11588.2	11389.5	11003.9	10347.7	9998.8	9858.6	9736.7
45°	12221.0	12302.8	12249.3	12276.1	12190.9	11816.9	11064.0	10665.0	10519.7	10371.1
47.5°	12456.4	12543.2	12628.3	12786.9	12932.2	12656.7	11833.6	11386.2	11232.6	11080.7
50°	12429.7	12518.1	12765.2	13102.5	13553.2	13461.4	12645.0	12154.2	12012.3	11838.6
52.5°	12216.0	12316.1	12633.3	13194.3	13912.2	14064.1	13471.4	12947.2	12813.6	12606.6
55°	11655.0	11715.1	12190.9	12985.6	13997.3	14484.8	14281.2	13792.0	13658.4	13369.6
57.5°	10614.9	10701.7	11394.5	12423.0	13783.6	14770.3	14992.4	14680.2	14551.6	14135.9
60°	9257.5	9396.1	10189.1	11478.0	13239.4	14768.7	15638.5	15553.3	15446.5	14890.5
62.5°	7721.6	7881.9	8644.8	10142.4	12287.7	14349.6	16042.5	16284.6	16229.5	15586.7
65°	5930.2	6040.4	6800.0	8414.4	10806.9	13449.7	16089.3	16783.8	16793.8	16116.0
67.5°	3948.4	4265.6	4925.1	6314.2	8823.5	11978.9	15678.6	16865.6	16962.4	16298.0
70°	1926.6	2344.0	2990.1	4103.7	6314.2	9723.3	14605.1	16194.4	16409.8	15767.0
72.5°	799.7	934.9	1287.2	2025.1	3624.6	6561.3	12448.0	14374.7	14773.7	13970.6
75°	539.3	584.3	736.3	1038.4	1651.2	3235.5	8977.1	10718.4	11361.2	10551.4
77.5°	415.7	444.1	535.9	726.2	981.7	1223.8	4804.9	6459.4	6791.6	6287.5
80°	327.2	348.9	400.7	529.2	696.2	654.5	1637.8	2926.7	3118.7	2616.2
82.5°	283.8	292.2	287.2	358.9	462.5	382.3	537.6	1080.2	1192.0	864.8
85°	205.4	228.7	238.7	222.0	245.4	193.7	220.4	382.3	420.7	375.6
87.5°	83.5	123.5	151.9	143.6	90.2	55.1	68.5	111.9	128.6	140.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941147  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3524.4	0°	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4	3524.4
3526.0	2.5°	3527.7	3539.4	3547.8	3557.8	3564.4	3574.5	3594.5	3606.2	3607.9	3616.2
3552.8	5°	3559.4	3576.1	3594.5	3621.2	3651.3	3676.3	3714.7	3741.4	3751.4	3759.8
3617.9	7.5°	3627.9	3651.3	3684.7	3731.4	3774.8	3808.2	3854.9	3886.7	3918.4	3930.1
3721.4	10°	3729.7	3763.1	3811.5	3875.0	3921.7	3965.1	4013.6	4040.3	4072.0	4085.3
3844.9	12.5°	3856.6	3891.7	3955.1	4043.6	4087.0	4117.1	4133.8	4127.1	4133.8	4145.4
3993.5	15°	4001.9	4040.3	4112.1	4207.2	4237.3	4210.6	4173.8	4140.4	4135.4	4138.8
4173.8	17.5°	4173.8	4202.2	4285.7	4365.8	4344.1	4233.9	4153.8	4100.4	4073.7	4065.3
4404.2	20°	4414.2	4414.2	4482.7	4532.8	4387.5	4200.5	4075.3	3988.5	3933.4	3910.0
4718.1	22.5°	4706.4	4679.7	4723.1	4688.0	4379.2	4107.0	3933.4	3783.2	3699.7	3666.3
5157.2	25°	5077.0	5045.3	5033.6	4816.6	4319.1	3958.5	3676.3	3494.3	3420.9	3402.5
5789.9	27.5°	5636.3	5556.2	5404.3	4886.7	4208.9	3724.7	3375.8	3207.2	3165.4	3167.1
6603.0	30°	6380.9	6220.7	5848.4	4898.4	4028.6	3394.2	3068.6	2948.4	2928.4	2936.7
7285.8	32.5°	7070.5	6918.5	6302.5	4845.0	3751.4	3070.3	2793.1	2713.0	2682.9	2693.0
7806.7	35°	7611.4	7569.7	6723.2	4769.8	3410.9	2766.4	2546.0	2477.6	2419.1	2405.8
8297.6	37.5°	8122.3	8105.6	7038.7	4664.7	3073.6	2551.0	2347.4	2257.2	2172.1	2125.3
8840.2	40°	8683.2	8666.5	7245.8	4502.7	2774.8	2364.1	2168.7	2050.2	1945.0	1859.9
9454.5	42.5°	9314.3	9215.8	7344.3	4270.7	2521.0	2205.4	2023.5	1863.2	1724.6	1646.2
10149.1	45°	10003.8	9781.8	7342.6	3975.2	2307.3	2060.2	1868.2	1641.1	1512.6	1439.1
10862.0	47.5°	10735.1	10322.7	7252.4	3647.9	2100.3	1899.9	1627.8	1454.2	1369.0	1323.9
11636.6	50°	11489.7	10828.6	7098.8	3272.3	1888.2	1717.9	1477.5	1359.0	1293.9	1252.1
12404.6	52.5°	12199.3	11287.7	6913.5	2846.5	1672.9	1541.0	1410.8	1318.9	1250.5	1203.7
13149.2	55°	12858.7	11683.4	6651.4	2410.8	1497.6	1422.4	1379.0	1302.2	1223.8	1168.7
13905.5	57.5°	13444.7	11940.5	6199.0	2001.8	1372.4	1340.6	1345.6	1273.9	1183.7	1137.0
14650.1	60°	13932.2	12129.1	5529.5	1622.8	1270.5	1260.5	1293.9	1220.4	1115.2	1061.8
15279.5	62.5°	14224.4	12125.8	4708.1	1328.9	1183.7	1187.0	1225.4	1153.6	1046.8	996.7
15608.4	65°	14199.4	11828.6	3806.5	1137.0	1100.2	1103.6	1153.6	1080.2	990.0	960.0
15443.2	67.5°	13696.8	11104.0	2920.0	1011.7	1008.4	1023.4	1081.9	1030.1	955.0	951.6
14458.1	70°	12336.2	9599.8	2103.6	911.6	913.2	934.9	1011.7	998.4	936.6	943.3
12155.8	72.5°	9892.0	7319.2	1412.4	806.4	808.1	843.1	945.0	973.3	918.2	1006.7
8624.8	75°	6588.0	4564.5	908.2	694.5	696.2	741.3	886.5	924.9	868.2	1003.4
4487.7	77.5°	3165.4	2051.9	657.8	584.3	584.3	626.1	766.3	828.1	739.6	779.7
1442.5	80°	1093.5	771.3	517.6	470.8	460.8	489.2	646.1	717.9	637.8	587.7
470.8	82.5°	430.7	400.7	415.7	365.6	332.2	350.6	502.5	592.7	469.1	424.1
265.5	85°	247.1	260.4	293.8	242.1	192.0	215.4	369.0	425.7	353.9	312.2
86.8	87.5°	66.8	91.8	135.2	125.2	86.8	91.8	175.3	235.4	203.7	156.9
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>
3524.4
3614.5
3758.1
3931.7
4092.0
4148.8
4150.5
4077.0
3905.0
3661.3
3405.8
3172.1
2965.1
2706.3
2415.8
2127.0
1868.2
1651.2
1435.8
1313.9
1237.1
1183.7
1147.0
1106.9
1038.4
981.7
958.3
956.6
941.6
1020.1
1011.7
714.6
550.9
422.4
318.9
161.9
0.0

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