

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: P943179

Luminaire Tested: **GALN-SB7C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55692 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

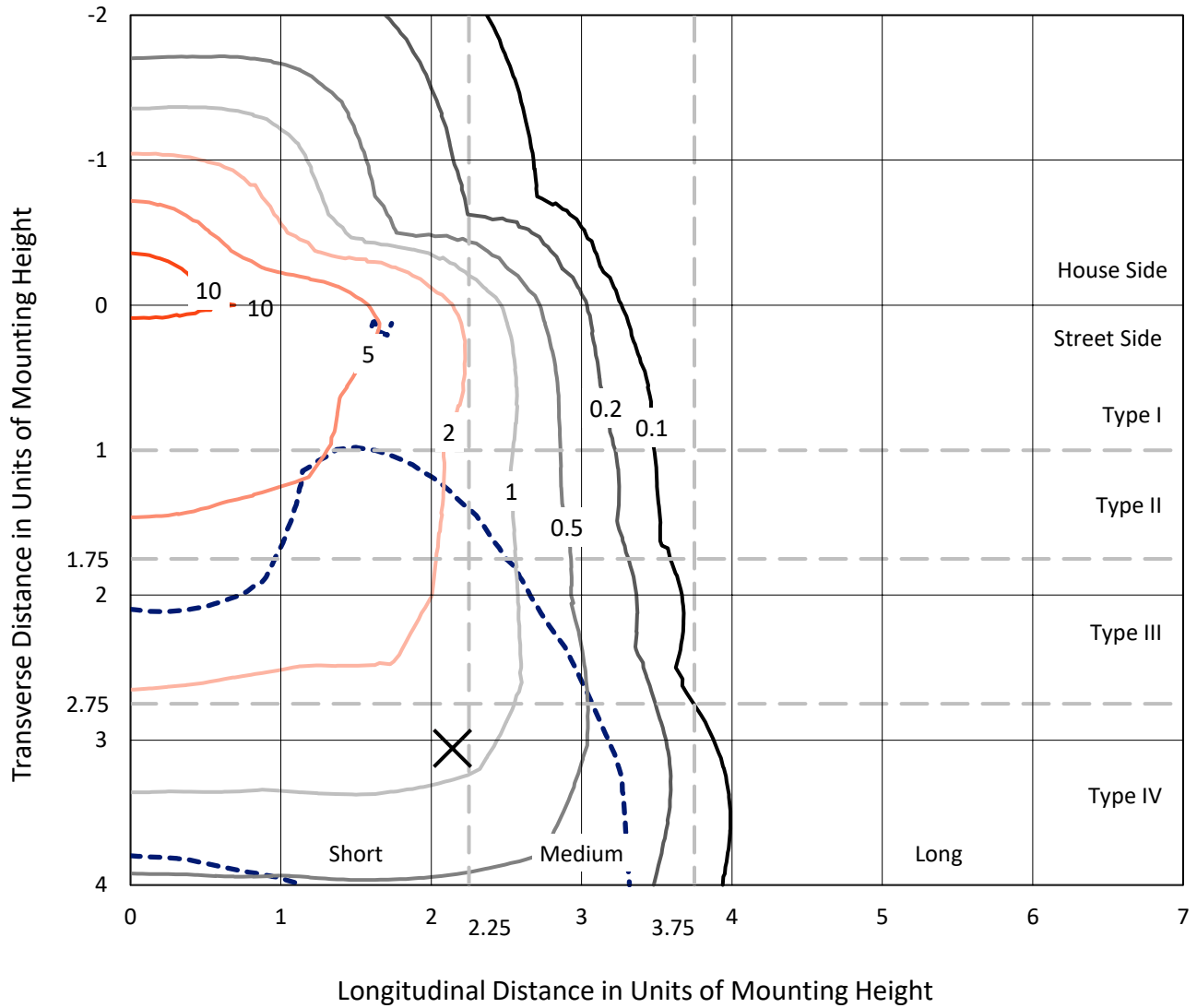
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

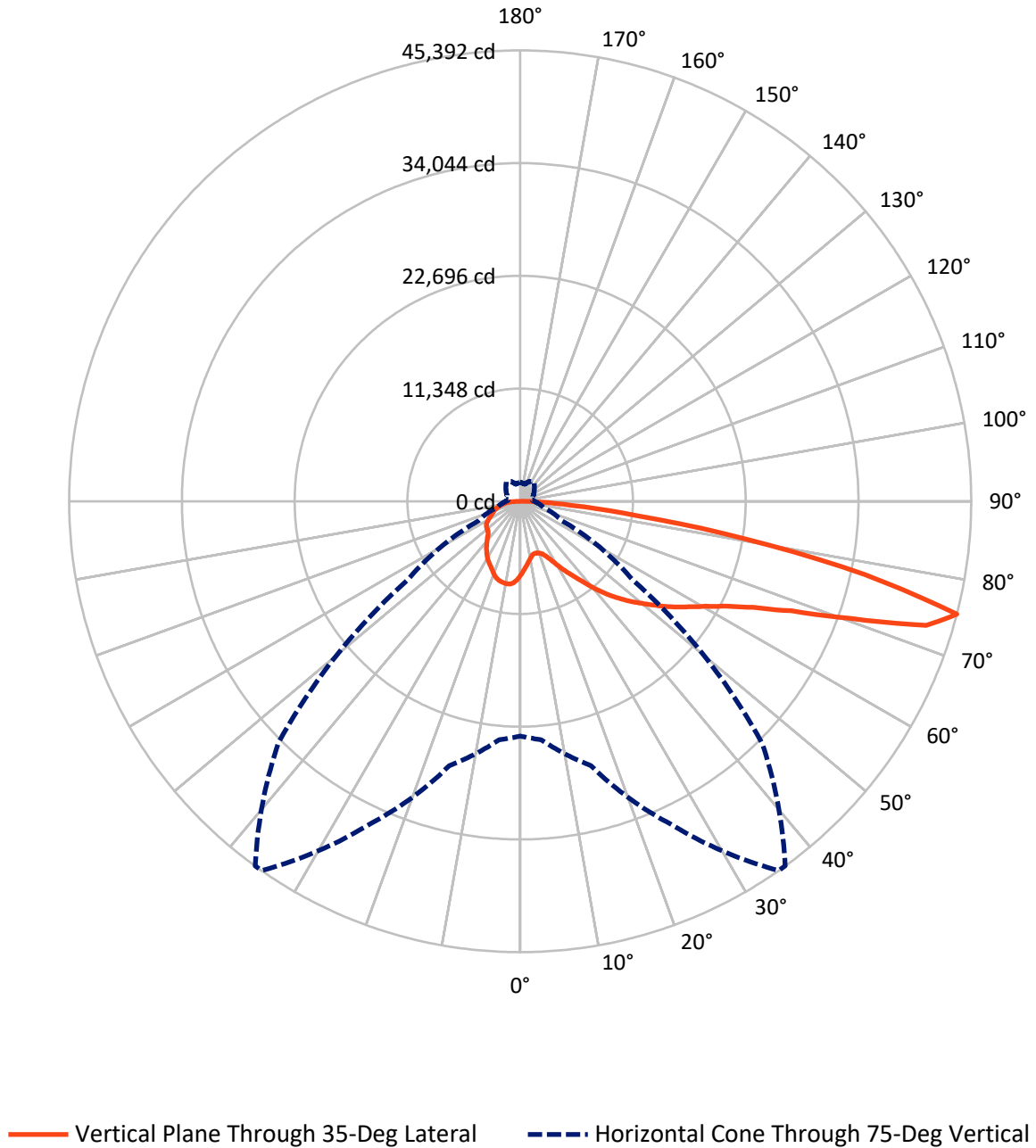
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13253.3	0.0	13253.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	42438.7	0.0	42438.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	55692.0	0.0	55692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.6	1.3
10°-20°	2026.8	3.6
20°-30°	3403.4	6.1
30°-40°	5289.4	9.5
40°-50°	7850.9	14.1
50°-60°	10838.7	19.5
60°-70°	13149.8	23.6
70°-80°	10867.3	19.5
80°-90°	1563.1	2.8
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°	55692.0	100.0
0°-180°	55692.0	100.0



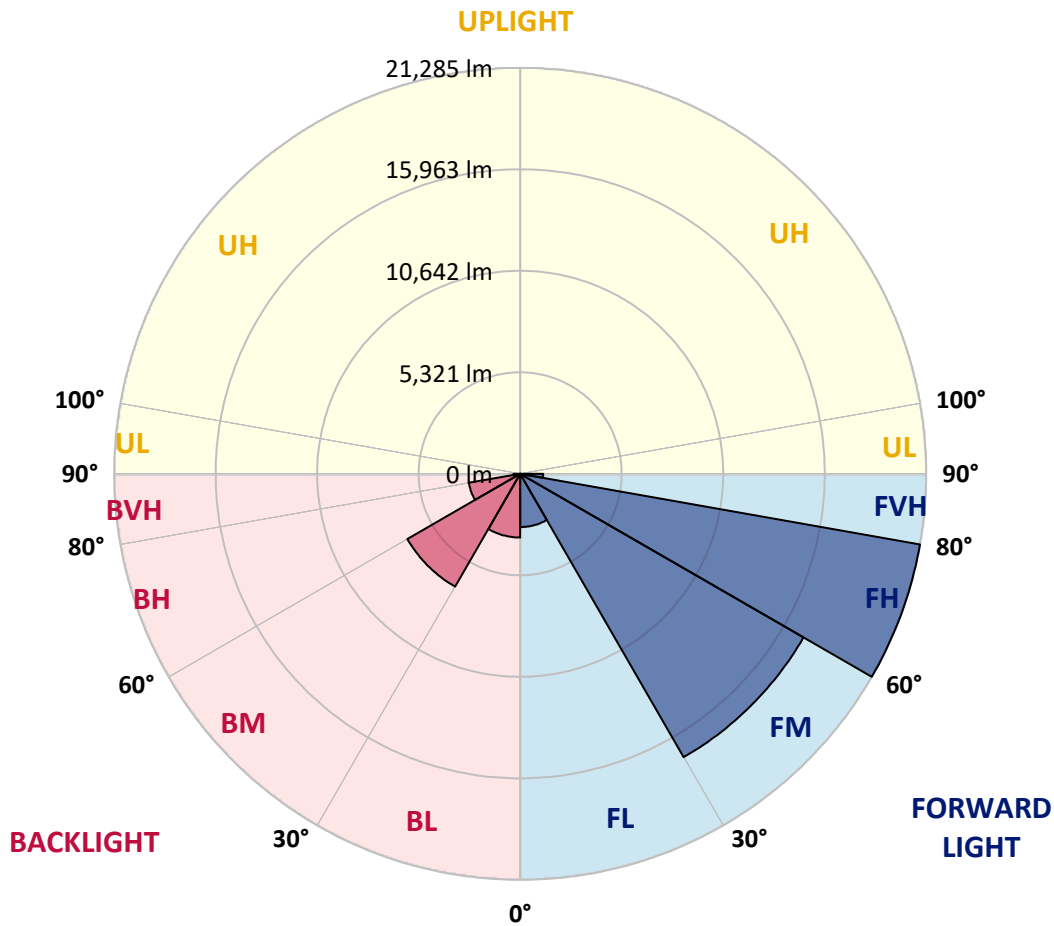
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2792.8	5.0			
FM (30°-60°)	17150.1	30.8			
FH (60°-80°)	21284.7	38.2			G5
FVH (80°-90°)	1211.1	2.2			G5
BL (0°-30°)	3340.0	6.0	B4/5000		
BM (30°-60°)	6828.9	12.3	B4/8500		
BH (60°-80°)	2732.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	352.0	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3
2.5°	6843.3	6885.4	6903.5	6894.5	6939.6	6933.6	6996.8	7075.1	7183.5	7288.9
5°	6316.4	6361.6	6400.7	6436.8	6524.2	6551.2	6650.6	6801.1	6999.8	7201.6
7.5°	5825.7	5864.8	5925.0	5991.3	6138.8	6165.9	6331.5	6566.3	6843.3	7138.3
10°	5425.3	5464.4	5527.6	5602.9	5786.5	5819.7	6030.4	6343.5	6704.8	7078.1
12.5°	5253.6	5265.7	5301.8	5377.1	5536.6	5557.7	5789.5	6147.8	6569.3	7033.0
15°	5244.6	5268.7	5271.7	5310.8	5443.3	5452.3	5666.1	6021.4	6485.0	7023.9
17.5°	5334.9	5353.0	5325.9	5350.0	5461.4	5476.4	5645.0	5961.2	6457.9	7063.1
20°	5575.8	5590.8	5509.6	5476.4	5557.7	5569.8	5735.4	6000.3	6485.0	7144.4
22.5°	6087.6	6096.6	5897.9	5762.4	5768.5	5774.5	5919.0	6159.9	6590.4	7291.9
25°	6885.4	6879.4	6563.3	6301.4	6150.8	6117.7	6214.1	6418.8	6768.0	7487.6
27.5°	7818.7	7773.6	7457.5	7066.1	6737.9	6689.7	6668.7	6756.0	7020.9	7746.5
30°	8872.5	8830.3	8490.1	7978.3	7523.7	7445.4	7246.7	7201.6	7397.3	8098.7
32.5°	10028.6	10001.5	9595.0	8974.8	8366.7	8276.4	7942.2	7821.8	7975.3	8631.6
35°	10998.0	10973.9	10636.7	9998.5	9254.8	9143.4	8803.2	8667.8	8746.0	9315.1
37.5°	11874.1	11862.1	11573.1	11070.3	10302.6	10167.1	9784.7	9739.6	9724.5	10215.3
40°	12687.0	12656.9	12355.8	12090.9	11521.9	11398.4	11061.3	11022.1	10907.7	11323.2
42.5°	13587.2	13508.9	13072.4	12949.0	12795.4	12693.0	12491.3	12497.3	12244.5	12572.6
45°	14321.8	14276.7	13828.1	13755.8	13921.4	13879.3	14053.9	14099.0	13608.3	13882.3
47.5°	15110.6	15068.5	14689.1	14637.9	15086.5	15098.6	15715.8	15730.8	14939.0	15243.1
50°	16083.1	16022.9	15646.5	15709.7	16212.5	16257.7	17386.7	17284.3	16164.4	16625.0
52.5°	16724.3	16760.5	16679.2	16781.6	17468.0	17510.1	19030.5	18768.6	17377.7	17988.8
55°	17197.0	17269.3	17522.2	17757.0	18792.7	18834.8	20581.0	20180.6	18383.2	19253.3
57.5°	17805.2	17702.8	18175.5	18633.1	20051.2	20162.5	22089.4	21541.4	19274.4	20343.2
60°	18678.3	18606.0	18973.3	19650.7	21460.2	21637.8	23685.1	22766.8	19927.7	21207.3
62.5°	20448.6	20267.9	20325.1	20924.3	23236.5	23471.3	25485.4	23835.6	20252.9	21544.5
65°	23095.0	22784.9	22495.8	22911.3	25738.3	25970.2	27517.7	24675.6	20132.4	20891.1
67.5°	26427.8	26120.7	25765.4	26156.8	29423.4	29607.1	30025.6	25148.2	19184.1	18374.2
70°	29176.5	29062.1	29486.6	31097.4	35309.3	35315.3	33241.0	24756.9	16585.9	13027.2
72.5°	28812.2	28743.0	30979.9	35959.6	42727.6	42568.1	36284.8	21794.3	11172.6	5876.9
75°	23636.9	24085.5	27550.8	35872.3	45392.1	45371.0	34421.1	13855.2	4621.4	2435.6
77.5°	12675.0	13385.5	17886.5	26485.0	35435.7	35968.6	24199.9	4847.2	1984.0	1559.5
80°	4133.7	4753.9	7129.3	13484.9	23025.7	22926.4	10371.8	1902.8	1357.8	1104.9
82.5°	1755.2	1827.5	3185.3	6367.6	11816.9	11633.3	3302.7	1092.9	954.4	755.7
85°	686.4	767.7	1406.0	2944.4	5118.2	5006.8	1192.2	541.9	611.2	493.8
87.5°	225.8	274.0	502.8	1008.6	1592.7	1535.4	292.0	186.7	264.9	225.8
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°
7421.3	0°	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3	7421.3
7442.4	2.5°	7484.6	7532.7	7589.9	7674.2	7746.5	7806.7	7869.9	7909.1	7924.1	7969.3
7454.5	5°	7538.8	7644.1	7785.6	7924.1	8059.6	8140.9	8213.1	8249.3	8282.4	8306.5
7487.6	7.5°	7629.1	7764.6	7987.3	8168.0	8282.4	8348.6	8396.8	8384.8	8396.8	8402.8
7523.7	10°	7707.4	7897.0	8162.0	8333.6	8420.9	8423.9	8411.9	8369.7	8348.6	8351.6
7577.9	12.5°	7800.7	8011.4	8297.4	8442.0	8466.0	8399.8	8348.6	8276.4	8249.3	8237.2
7659.2	15°	7927.1	8168.0	8445.0	8499.2	8438.9	8354.6	8267.3	8149.9	8089.7	8041.5
7797.7	17.5°	8080.7	8345.6	8559.4	8520.2	8390.8	8252.3	8110.8	7933.2	7809.7	7758.5
7987.3	20°	8294.4	8532.3	8646.7	8475.1	8279.4	8068.6	7827.8	7611.0	7496.6	7445.4
8228.2	22.5°	8553.4	8782.2	8731.0	8396.8	8119.8	7782.6	7481.5	7322.0	7264.8	7228.7
8538.3	25°	8863.5	9059.1	8791.2	8282.4	7857.9	7403.3	7171.4	7120.3	7093.2	7066.1
8917.6	27.5°	9266.9	9372.3	8836.4	8113.8	7448.4	6999.8	6915.5	6924.6	6915.5	6870.4
9444.5	30°	9799.8	9778.7	8878.5	7839.8	6978.8	6635.5	6641.6	6680.7	6686.7	6656.6
10179.1	32.5°	10501.3	10287.5	8899.6	7484.6	6530.2	6316.4	6322.4	6364.6	6394.7	6343.5
11139.5	35°	11350.3	10880.6	8866.5	7039.0	6183.9	6012.3	5967.2	5979.2	5988.3	5940.1
12304.7	37.5°	12340.8	11546.0	8718.9	6545.2	5897.9	5714.3	5617.9	5536.6	5488.5	5443.3
13623.3	40°	13427.7	12271.5	8448.0	6063.5	5578.8	5398.2	5253.6	5100.1	4937.5	4877.3
15020.3	42.5°	14565.7	13018.2	8119.8	5602.9	5211.5	5064.0	4910.4	4687.6	4443.8	4320.3
16471.5	45°	15745.9	13782.9	7797.7	5148.3	4835.2	4771.9	4594.3	4326.4	4061.4	3904.9
17925.6	47.5°	16902.0	14505.5	7325.0	4690.6	4482.9	4552.2	4413.7	4166.8	3871.7	3624.9
19367.7	50°	18006.9	15182.9	6551.2	4227.0	4196.9	4485.9	4353.4	3998.2	3661.0	3344.9
20782.8	52.5°	19102.8	15730.8	5560.7	3805.5	4043.3	4467.9	4275.2	3883.8	3471.3	3140.1
22113.5	55°	20033.1	16013.8	4606.3	3444.2	3820.6	4314.3	4181.8	3748.3	3203.4	2851.1
23025.7	57.5°	20563.0	15785.0	3811.5	3089.0	3513.5	4061.4	4022.3	3459.3	2884.2	2613.3
23203.3	60°	20334.2	14857.7	3161.2	2778.9	3221.4	3787.4	3745.3	3173.3	2640.4	2384.5
22252.0	62.5°	19072.7	13090.5	2646.4	2507.9	2956.5	3507.4	3468.3	2953.5	2453.7	2206.8
19726.0	65°	16531.7	10648.8	2246.0	2282.1	2688.5	3170.3	3227.5	2769.8	2306.2	2065.3
15261.2	67.5°	12608.7	7713.4	1932.9	2086.4	2426.6	2839.1	3004.7	2637.4	2182.7	1953.9
8830.3	70°	7186.5	4380.5	1667.9	1896.7	2194.8	2532.0	2833.1	2532.0	2050.3	1860.6
3308.7	72.5°	2724.7	2011.1	1442.1	1707.1	1972.0	2273.1	2643.4	2366.4	1896.7	1755.2
1710.1	75°	1454.2	1225.3	1213.3	1484.3	1716.1	2020.2	2405.5	2203.8	1782.3	1854.6
1183.2	77.5°	990.5	867.1	1014.6	1270.5	1436.1	1740.2	2152.6	1956.9	1544.5	1538.5
818.9	80°	686.4	614.2	824.9	1023.6	1110.9	1463.2	1878.7	1680.0	1258.5	1174.2
505.8	82.5°	412.5	400.4	617.2	764.7	785.8	1129.0	1556.5	1409.0	1029.7	897.2
301.1	85°	225.8	237.8	394.4	448.6	457.6	788.8	1219.3	1089.9	791.8	665.4
108.4	87.5°	63.2	81.3	144.5	177.6	219.8	409.5	725.6	647.3	397.4	277.0
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>
7421.3
7966.3
8312.5
8411.9
8357.7
8231.2
8056.6
7761.5
7439.4
7234.7
7066.1
6879.4
6671.7
6367.6
5973.2
5473.4
4904.4
4335.4
3892.8
3597.8
3317.8
3104.0
2821.0
2577.1
2348.3
2167.7
2026.2
1917.8
1836.5
1731.1
<i>1914.8</i>
1418.0
1123.0
903.2
671.4
277.0
0.0

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