

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: P956226

Luminaire Tested: **GALN-SB8D-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956226
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-SB8D-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60733 lumens
Efficiency: N/A
Efficacy: 103.8 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

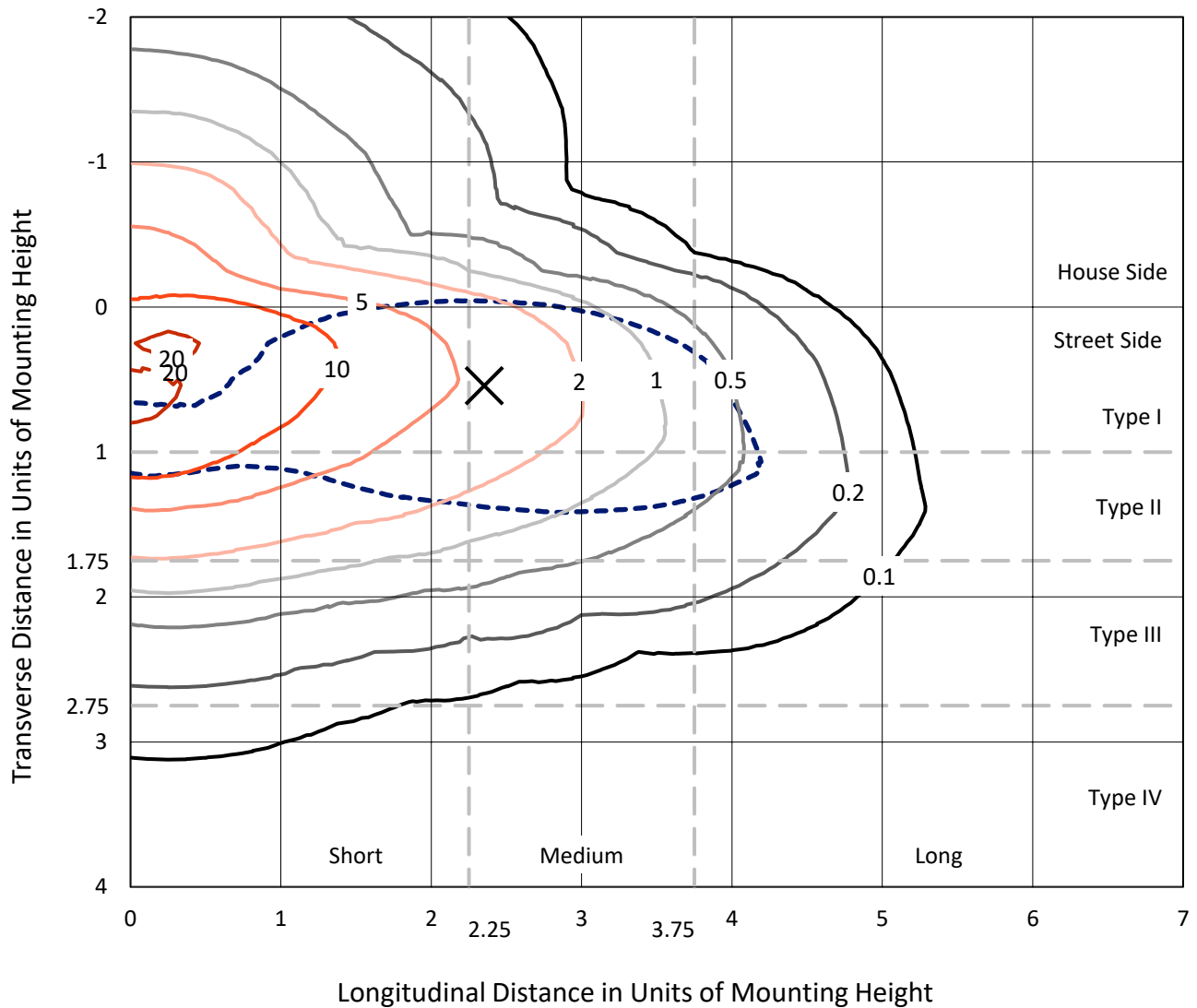
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

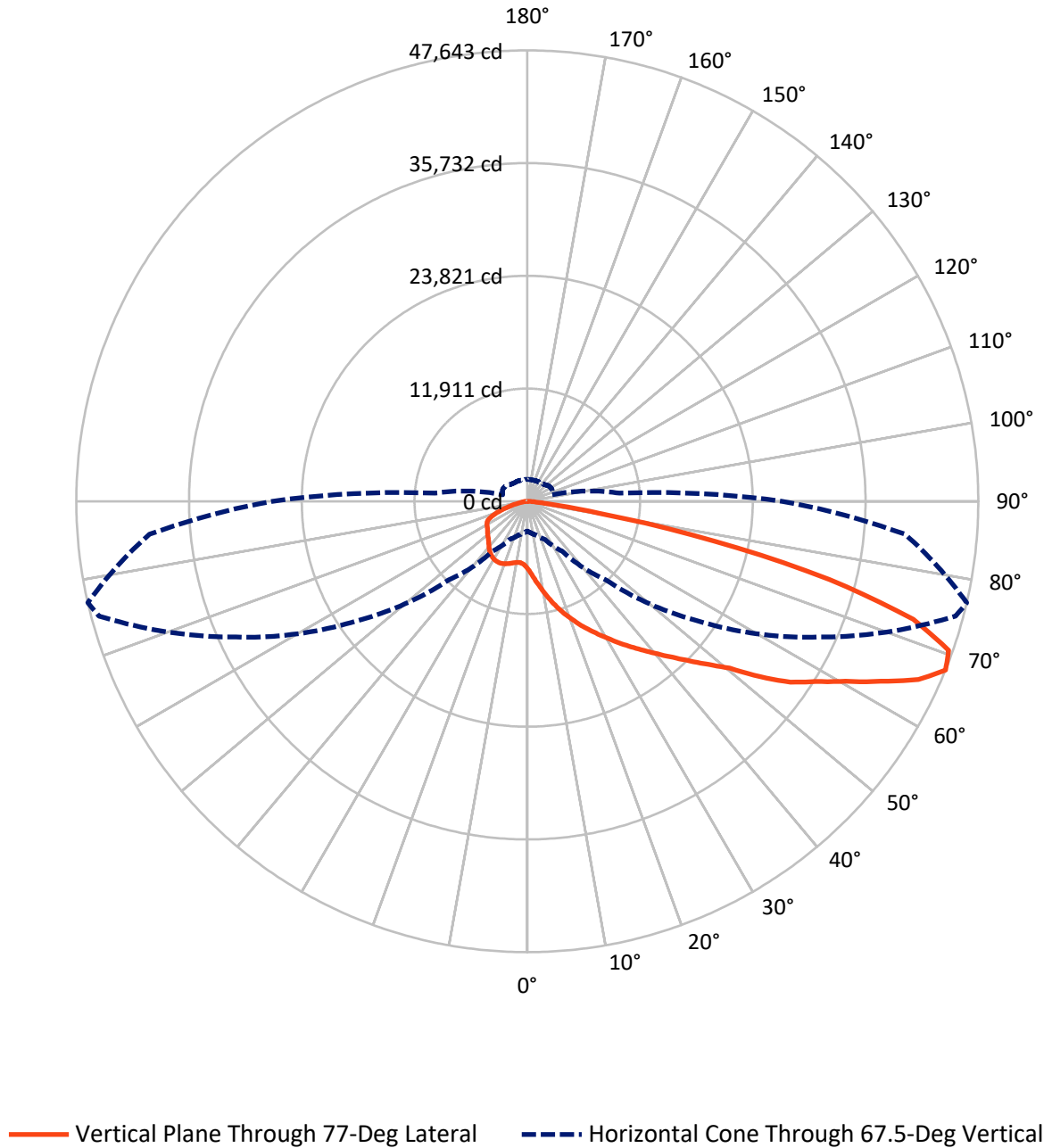
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 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	11488.3	0.0	11488.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	49244.8	0.0	49244.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	60733.0	0.0	60733.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.8	1.3
10°-20°	2744.0	4.5
20°-30°	5181.0	8.5
30°-40°	8346.5	13.7
40°-50°	11416.4	18.8
50°-60°	12877.8	21.2
60°-70°	12019.8	19.8
70°-80°	6588.9	10.8
80°-90°	794.8	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°	60733.0	100.0
0°-180°	60733.0	100.0



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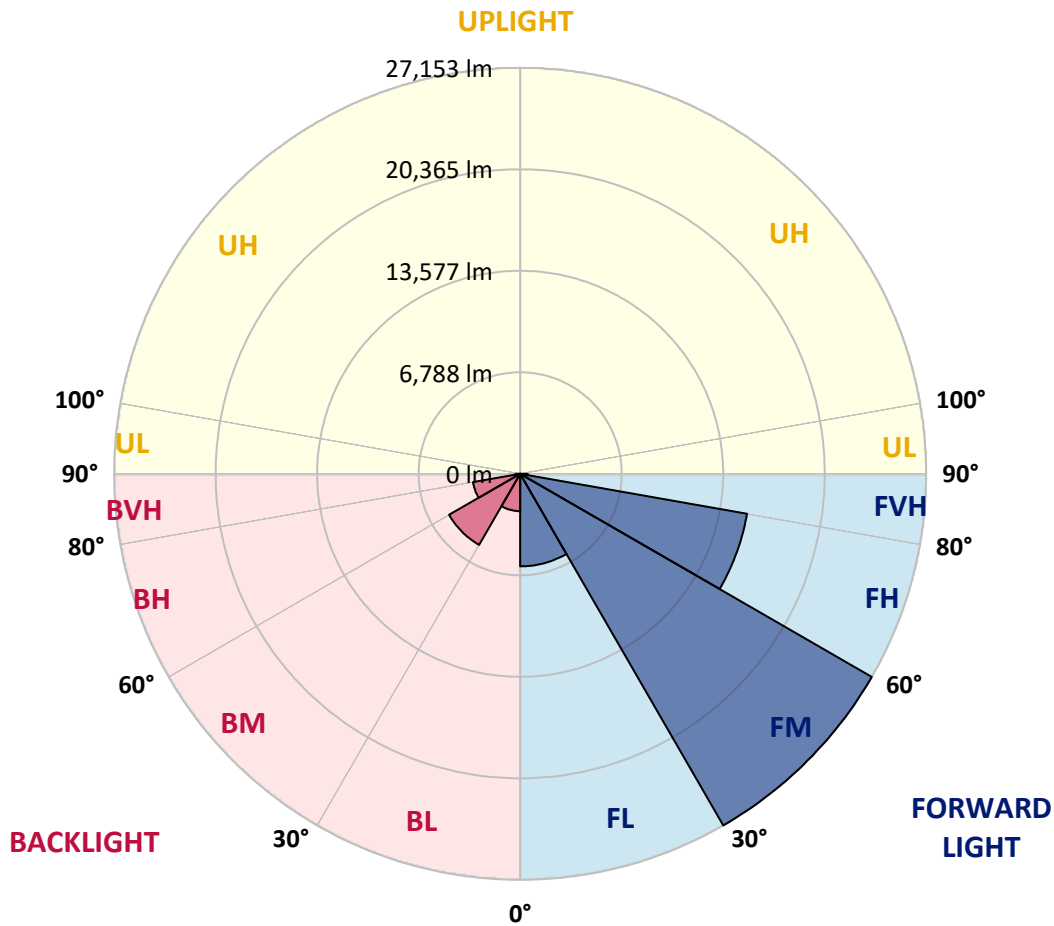
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6191.0	10.2			
FM (30°-60°)	27153.1	44.7			
FH (60°-80°)	15403.7	25.4			G5
FVH (80°-90°)	497.0	0.8			G3/500
BL (0°-30°)	2497.8	4.1	B3/2500		
BM (30°-60°)	5487.7	9.0	B4/8500		
BH (60°-80°)	3205.0	5.3	B4/5000		G4/5000
BVH (80°-90°)	297.7	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°	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9
2.5°	8922.2	8984.9	8906.6	8906.6	8643.2	8505.3	8241.9	8041.3	7680.8	7618.1
5°	10546.2	10624.5	10514.8	10467.8	10157.4	9872.1	9430.1	8994.3	8351.7	8285.8
7.5°	11803.3	11903.6	11806.4	11756.3	11480.4	11160.6	10643.3	10035.2	9129.1	9000.6
10°	12828.4	12844.1	12812.8	12831.6	12615.3	12351.9	11822.1	11113.6	9981.9	9806.3
12.5°	13408.4	13480.5	13543.2	13656.1	13618.5	13455.4	12978.9	12132.5	10884.7	10659.0
15°	13681.2	13806.6	13947.6	14207.8	14417.9	14458.6	14095.0	13226.6	11803.3	11530.6
17.5°	13778.3	13897.5	14120.1	14496.3	14947.7	15251.8	15088.8	14289.4	12712.4	12398.9
20°	14270.5	14305.0	14439.8	14797.2	15286.3	15791.0	15913.3	15311.4	13612.2	13257.9
22.5°	15323.9	15254.9	15292.6	15455.6	15806.7	16295.8	16574.8	16214.2	14537.0	14129.5
25°	17063.8	16863.2	16662.6	16474.5	16653.1	16929.0	17245.7	17117.1	15505.7	14988.5
27.5°	19261.5	19016.9	18574.9	17957.3	17741.0	17838.2	17979.3	17954.2	16402.3	15878.8
30°	21424.6	21139.3	20612.7	19719.2	19148.6	18891.5	18785.0	18712.8	17377.3	16819.3
32.5°	23152.0	22926.3	22409.0	21409.0	20581.3	20142.4	19788.2	19531.1	18396.2	17838.2
35°	24663.1	24453.0	23860.5	22769.5	21869.8	21402.7	20938.7	20390.1	19455.8	18891.5
37.5°	26042.5	25832.4	25020.5	23885.6	22979.6	22656.7	22242.9	21311.8	20518.6	19985.7
40°	26914.0	26867.0	26108.3	24823.0	23882.5	23722.6	23584.6	22380.8	21697.4	21202.0
42.5°	27136.6	27240.1	26638.1	25581.6	24685.0	24556.5	24879.4	23590.9	23020.3	22547.0
45°	26600.5	26898.3	26503.3	25785.4	25255.6	25186.6	26026.8	24913.9	24484.4	24051.8
47.5°	25243.1	25747.8	25584.8	25484.5	25409.2	25707.0	27036.3	26318.4	26142.8	25766.6
50°	22503.1	23459.2	23744.5	24377.8	25105.1	26111.5	27954.8	27851.4	28080.2	27700.9
52.5°	17766.1	19082.8	20738.1	22324.4	24170.9	25976.7	28964.3	30052.2	31017.7	30810.8
55°	14665.6	15258.1	16530.9	19440.2	22358.9	25409.2	29418.9	31829.7	33933.3	33748.3
57.5°	12283.0	12812.8	13596.5	16026.1	19618.9	24120.7	29701.0	32914.4	35930.3	35911.5
60°	9727.9	10289.1	11091.6	12812.8	16418.0	21894.9	29638.3	34149.6	38479.1	38635.8
62.5°	6843.7	7461.3	8351.7	9956.8	13148.2	19010.7	28359.3	35043.1	41479.3	41905.6
65°	4498.7	4906.3	5577.2	6962.8	9796.9	15302.0	25917.1	35159.1	44689.5	45410.6
67.5°	3153.8	3310.6	3705.6	4458.0	6458.1	11734.3	22026.5	33958.4	46830.7	47642.7
70°	2461.0	2539.4	2740.0	3041.0	4056.7	7890.8	16878.9	30835.9	46373.0	47219.5
72.5°	2125.5	2200.8	2276.0	2313.6	2721.2	4871.8	11433.4	25782.3	42062.4	42636.1
75°	1928.0	1946.8	2009.5	1997.0	2075.4	3160.1	6599.2	18785.0	33187.2	32989.7
77.5°	1620.8	1645.9	1749.3	1733.7	1843.4	2160.0	3426.6	12123.1	21515.5	20173.8
80°	1373.1	1385.7	1498.5	1479.7	1602.0	1564.4	1749.3	6179.1	9126.0	7730.9
82.5°	476.5	589.4	1144.3	1178.8	1222.7	946.8	1009.5	2520.5	2787.0	2134.9
85°	232.0	247.7	583.1	827.6	824.5	476.5	492.2	899.7	877.8	689.7
87.5°	37.6	47.0	69.0	322.9	257.1	125.4	169.3	175.6	181.8	156.8
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°
7125.9	0°	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9	7125.9
7379.8	2.5°	7204.2	7047.5	6718.3	6414.2	6176.0	5947.1	5818.6	5708.8	5646.1	5633.6
7724.7	5°	7398.6	7075.7	6476.9	5972.2	5643.0	5398.5	5269.9	5188.4	5147.7	5122.6
8188.6	7.5°	7677.6	7204.2	6351.5	5777.8	5433.0	5257.4	5191.6	5179.0	5175.9	5179.0
8749.8	10°	8063.2	7414.3	6339.0	5730.8	5442.4	5345.2	5342.0	5345.2	5357.7	5360.9
9361.1	12.5°	8480.2	7630.6	6389.1	5771.5	5561.5	5508.2	5498.8	5495.7	5505.1	5511.3
9978.7	15°	8934.8	7915.9	6473.8	5859.3	5693.2	5636.7	5627.3	5608.5	5605.4	5602.3
10627.7	17.5°	9401.9	8198.0	6567.8	5953.4	5777.8	5699.4	5665.0	5621.1	5586.6	5577.2
11298.6	20°	9875.3	8477.1	6633.7	6000.4	5784.1	5674.4	5605.4	5530.1	5470.6	5436.1
11975.7	22.5°	10380.0	8768.6	6674.4	5987.9	5727.7	5577.2	5451.8	5364.0	5273.1	5213.5
12659.2	25°	10872.2	9022.5	6671.3	5922.0	5617.9	5426.7	5266.8	5153.9	5028.5	4965.8
13364.5	27.5°	11345.6	9251.4	6592.9	5806.0	5461.2	5248.0	5056.8	4922.0	4799.7	4740.1
14076.2	30°	11834.6	9442.6	6470.7	5636.7	5276.2	5041.1	4831.0	4715.0	4605.3	4548.9
14828.6	32.5°	12320.6	9618.2	6298.2	5426.7	5063.0	4837.3	4630.4	4523.8	4458.0	4458.0
15637.4	35°	12834.7	9740.5	6069.4	5182.2	4837.3	4621.0	4458.0	4395.3	4389.0	4351.4
16493.3	37.5°	13377.1	9818.8	5790.4	4931.4	4614.7	4411.0	4360.8	4285.6	4222.9	4141.3
17433.8	40°	13947.6	9897.2	5454.9	4671.2	4379.6	4266.7	4244.8	4144.5	3965.8	3765.1
18499.7	42.5°	14640.5	9950.5	5106.9	4411.0	4131.9	4094.3	4125.7	3953.2	3668.0	3517.5
19785.0	45°	15443.0	10038.3	4787.2	4153.9	3878.0	3878.0	4009.7	3784.0	3548.8	3454.8
21252.2	47.5°	16483.9	10242.1	4489.3	3871.7	3642.9	3705.6	3752.6	3580.2	3448.5	3332.5
23039.2	50°	17988.7	10731.1	4182.1	3586.4	3464.2	3589.6	3523.7	3423.4	3269.8	3175.8
25879.5	52.5°	19857.1	11019.5	3909.4	3329.4	3310.6	3436.0	3341.9	3247.9	3131.9	3006.5
28033.2	55°	21129.9	11072.8	3680.5	3141.3	3207.1	3194.6	3160.1	3075.4	3012.7	2846.6
30158.8	57.5°	22553.2	11179.4	3492.4	3028.4	3141.3	3003.3	2990.8	2918.7	2837.2	2724.3
32751.4	60°	24255.5	11345.6	3329.4	2984.5	3084.8	2877.9	2815.2	2787.0	2705.5	2649.1
35870.7	62.5°	26111.5	11496.1	3163.2	2990.8	3019.0	2755.7	2661.6	2652.2	2602.1	2583.2
38798.8	65°	27378.0	11085.4	2956.3	2984.5	2915.6	2630.3	2511.1	2508.0	2467.2	2461.0
40068.5	67.5°	26936.0	9784.4	2677.3	2896.7	2809.0	2504.9	2373.2	2360.7	2307.4	2310.5
38742.4	70°	24722.7	7928.4	2291.7	2680.4	2677.3	2392.0	2229.0	2188.2	2116.1	2128.7
33685.6	72.5°	20571.9	5875.0	1774.4	2319.9	2467.2	2288.6	2062.8	1997.0	1906.1	1918.6
24866.9	75°	14856.8	3994.0	1291.6	1765.0	2147.5	2166.3	1899.8	1787.0	1677.2	1696.0
13841.0	77.5°	7602.4	2263.5	949.9	1216.4	1686.6	1968.8	1752.5	1602.0	1576.9	1752.5
3990.9	80°	2479.8	1134.9	658.4	852.7	1106.7	1611.4	1536.2	1363.7	1357.5	1398.2
837.0	82.5°	739.9	479.7	423.2	561.2	611.3	1235.2	1326.1	1031.4	887.2	934.2
279.0	85°	253.9	232.0	241.4	279.0	291.6	724.2	928.0	683.4	645.8	711.6
62.7	87.5°	59.6	81.5	69.0	62.7	62.7	175.6	360.5	285.3	395.0	263.3
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>
7125.9
5633.6
5119.5
5188.4
5364.0
5514.5
5599.1
5586.6
5448.6
5216.6
4965.8
4737.0
4545.8
4461.1
4342.0
4128.8
3736.9
3520.6
3470.5
3329.4
3166.4
2981.4
2849.7
2686.7
2664.8
2583.2
2457.8
2310.5
2141.2
1915.5
1702.3
1727.4
1200.7
965.6
702.2
253.9
0.0

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