

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: P957318

Luminaire Tested: **GALN-SB9C-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957318
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-SB9C-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 48333 lumens
Efficiency: N/A
Efficacy: 107.5 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

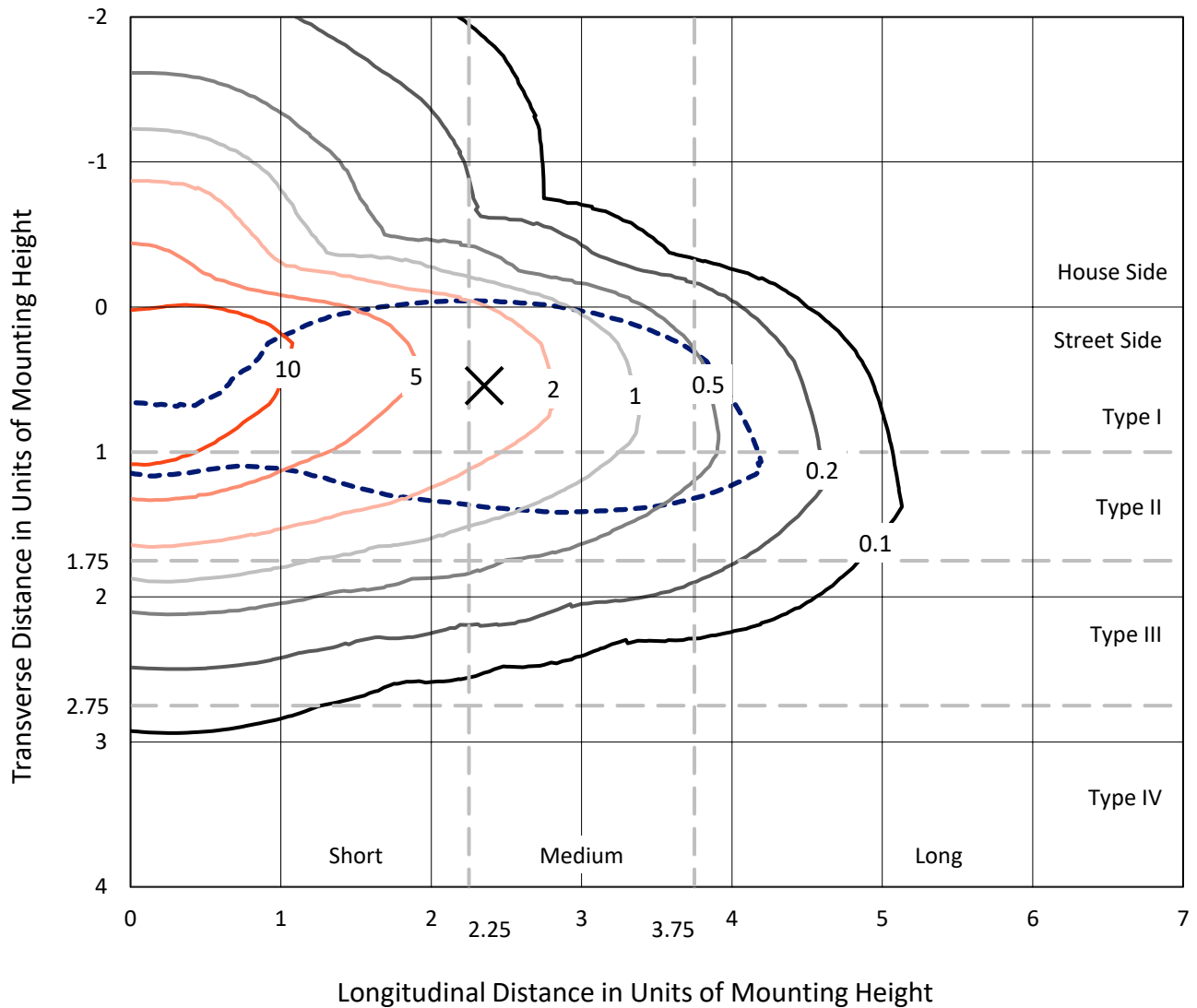
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

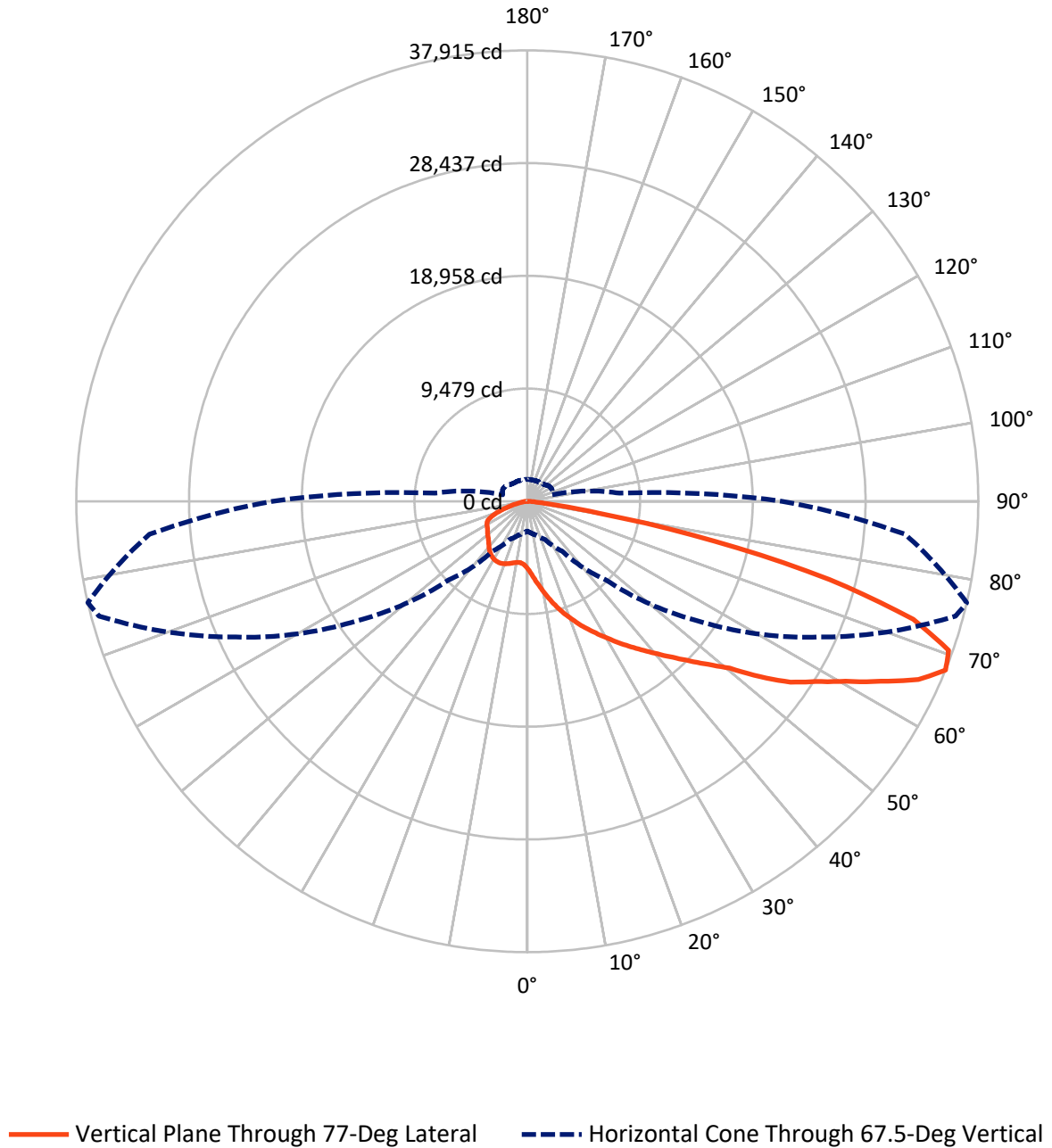
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	9142.7	0.0	9142.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	39190.3	0.0	39190.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	48333.0	0.0	48333.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.9	1.3
10°-20°	2183.8	4.5
20°-30°	4123.2	8.5
30°-40°	6642.3	13.7
40°-50°	9085.5	18.8
50°-60°	10248.5	21.2
60°-70°	9565.7	19.8
70°-80°	5243.6	10.8
80°-90°	632.5	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°	48333.0	100.0
0°-180°	48333.0	100.0



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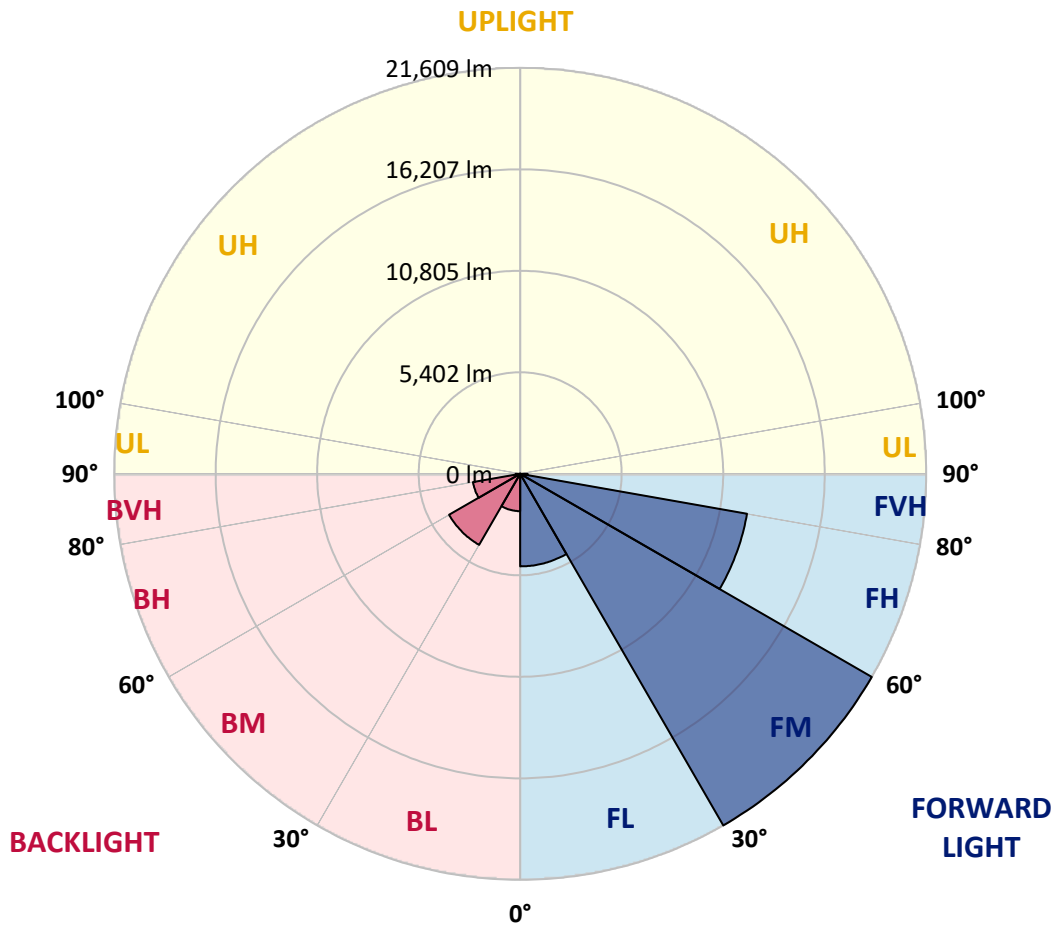
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4926.9	10.2			
FM (30°-60°)	21609.2	44.7			
FH (60°-80°)	12258.7	25.4			G5
FVH (80°-90°)	395.6	0.8			G3/500
BL (0°-30°)	1987.8	4.1	B3/2500		
BM (30°-60°)	4367.2	9.0	B3/5000		
BH (60°-80°)	2550.7	5.3	B4/5000		G4/5000
BVH (80°-90°)	236.9	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°	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0
2.5°	7100.6	7150.5	7088.1	7088.1	6878.5	6768.7	6559.2	6399.5	6112.6	6062.7
5°	8392.9	8455.3	8368.0	8330.6	8083.6	7856.5	7504.7	7157.9	6646.5	6594.1
7.5°	9393.4	9473.2	9395.9	9356.0	9136.4	8881.9	8470.3	7986.3	7265.2	7162.9
10°	10209.2	10221.7	10196.8	10211.7	10039.6	9830.0	9408.4	8844.5	7943.8	7804.1
12.5°	10670.8	10728.2	10778.1	10867.9	10838.0	10708.2	10329.0	9655.4	8662.4	8482.7
15°	10887.8	10987.6	11099.9	11307.0	11474.2	11506.6	11217.2	10526.1	9393.4	9176.3
17.5°	10965.2	11060.0	11237.1	11536.5	11895.8	12137.8	12008.1	11371.9	10116.9	9867.4
20°	11356.9	11384.3	11491.6	11776.0	12165.2	12566.9	12664.2	12185.2	10833.0	10551.0
22.5°	12195.2	12140.3	12170.2	12300.0	12579.4	12968.6	13190.7	12903.7	11569.0	11244.6
25°	13579.9	13420.2	13260.5	13110.8	13253.0	13472.6	13724.6	13622.3	12339.9	11928.2
27.5°	15328.8	15134.2	14782.4	14290.9	14118.8	14196.1	14308.4	14288.4	13053.4	12636.8
30°	17050.3	16823.3	16404.1	15693.1	15239.0	15034.4	14949.6	14892.2	13829.4	13385.3
32.5°	18425.0	18245.4	17833.7	17037.8	16379.2	16029.9	15748.0	15543.4	14640.2	14196.1
35°	19627.6	19460.4	18988.9	18120.6	17404.6	17032.8	16663.6	16227.0	15483.5	15034.4
37.5°	20725.3	20558.2	19912.0	19008.8	18287.8	18030.8	17701.5	16960.5	16329.3	15905.1
40°	21418.9	21381.5	20777.7	19754.8	19006.3	18879.1	18769.3	17811.3	17267.4	16873.2
42.5°	21596.1	21678.4	21199.4	20358.6	19645.0	19542.7	19799.7	18774.3	18320.2	17943.5
45°	21169.4	21406.4	21092.1	20520.8	20099.1	20044.2	20712.9	19827.2	19485.4	19141.1
47.5°	20089.1	20490.8	20361.1	20281.2	20221.4	20458.4	21516.2	20944.9	20805.2	20505.8
50°	17908.6	18669.5	18896.6	19400.5	19979.4	20780.2	22247.2	22164.9	22347.0	22045.1
52.5°	14138.7	15186.6	16503.9	17766.4	19235.9	20672.9	23050.6	23916.3	24684.8	24520.1
55°	11671.3	12142.8	13155.7	15471.0	17793.8	20221.4	23412.4	25331.0	27005.1	26857.9
57.5°	9775.1	10196.8	10820.5	12754.1	15613.2	19195.9	23636.9	26194.2	28594.3	28579.4
60°	7741.7	8188.3	8827.0	10196.8	13065.9	17424.5	23587.0	27177.2	30622.7	30747.4
62.5°	5446.4	5937.9	6646.5	7923.9	10463.7	15129.2	22569.1	27888.3	33010.3	33349.7
65°	3580.2	3904.6	4438.5	5541.2	7796.6	12177.7	20625.5	27980.6	35565.1	36139.0
67.5°	2509.9	2634.6	2949.0	3547.8	5139.5	9338.5	17529.3	27025.0	37269.2	37915.4
70°	1958.5	2020.9	2180.6	2420.1	3228.4	6279.7	13432.7	24540.1	36904.9	37578.5
72.5°	1691.6	1751.4	1811.3	1841.3	2165.6	3877.1	9099.0	20518.3	33474.4	33931.0
75°	1534.4	1549.3	1599.2	1589.3	1651.6	2514.9	5251.8	14949.6	26411.3	26254.1
77.5°	1289.9	1309.8	1392.2	1379.7	1467.0	1719.0	2727.0	9647.9	17122.7	16054.8
80°	1092.8	1102.8	1192.6	1177.6	1274.9	1245.0	1392.2	4917.5	7262.7	6152.5
82.5°	379.2	469.0	910.6	938.1	973.0	753.5	803.4	2005.9	2218.0	1699.0
85°	184.6	197.1	464.1	658.7	656.2	379.2	391.7	716.0	698.6	548.9
87.5°	29.9	37.4	54.9	257.0	204.6	99.8	134.7	139.7	144.7	124.7
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°
5671.0	0°	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0	5671.0
5873.1	2.5°	5733.3	5608.6	5346.6	5104.6	4915.0	4732.9	4630.6	4543.3	4493.4	4483.4
6147.5	5°	5888.0	5631.0	5154.5	4752.8	4490.9	4296.3	4194.0	4129.1	4096.7	4076.7
6516.7	7.5°	6110.1	5733.3	5054.7	4598.1	4323.7	4184.0	4131.6	4121.6	4119.1	4121.6
6963.3	10°	6416.9	5900.5	5044.7	4560.7	4331.2	4253.8	4251.4	4253.8	4263.8	4266.3
7449.8	12.5°	6748.8	6072.6	5084.7	4593.2	4426.0	4383.6	4376.1	4373.6	4381.1	4386.1
7941.3	15°	7110.5	6299.7	5152.0	4663.0	4530.8	4485.9	4478.4	4463.4	4460.9	4458.4
8457.8	17.5°	7482.3	6524.2	5226.9	4737.9	4598.1	4535.8	4508.3	4473.4	4446.0	4438.5
8991.7	20°	7859.0	6746.3	5279.3	4775.3	4603.1	4515.8	4460.9	4401.0	4353.6	4326.2
9530.6	22.5°	8260.7	6978.3	5311.7	4765.3	4558.2	4438.5	4338.7	4268.8	4196.5	4149.1
10074.5	25°	8652.4	7180.4	5309.2	4712.9	4470.9	4318.7	4191.5	4101.7	4001.9	3952.0
10635.9	27.5°	9029.1	7362.5	5246.8	4620.6	4346.2	4176.5	4024.3	3917.0	3819.7	3772.3
11202.2	30°	9418.3	7514.7	5149.5	4485.9	4199.0	4011.8	3844.7	3752.4	3665.0	3620.1
11801.0	32.5°	9805.1	7654.4	5012.3	4318.7	4029.3	3849.7	3685.0	3600.2	3547.8	3547.8
12444.7	35°	10214.2	7751.7	4830.2	4124.1	3849.7	3677.5	3547.8	3497.9	3492.9	3463.0
13125.8	37.5°	10645.8	7814.1	4608.1	3924.5	3672.5	3510.4	3470.4	3410.6	3360.7	3295.8
13874.3	40°	11099.9	7876.5	4341.2	3717.4	3485.4	3395.6	3378.1	3298.3	3156.1	2996.4
14722.5	42.5°	11651.3	7918.9	4064.2	3510.4	3288.3	3258.4	3283.3	3146.1	2919.1	2799.3
15745.5	45°	12290.0	7988.7	3809.7	3305.8	3086.2	3086.2	3191.0	3011.4	2824.3	2749.4
16913.1	47.5°	13118.3	8150.9	3572.7	3081.2	2899.1	2949.0	2986.4	2849.2	2744.4	2652.1
18335.2	50°	14315.9	8540.1	3328.2	2854.2	2756.9	2856.7	2804.3	2724.5	2602.2	2527.4
20595.6	52.5°	15802.8	8769.7	3111.2	2649.6	2634.6	2734.4	2659.6	2584.7	2492.4	2392.6
22309.6	55°	16815.8	8812.1	2929.0	2499.9	2552.3	2542.3	2514.9	2447.5	2397.6	2265.4
24001.2	57.5°	17948.5	8896.9	2779.3	2410.1	2499.9	2390.1	2380.2	2322.8	2257.9	2168.1
26064.5	60°	19303.2	9029.1	2649.6	2375.2	2455.0	2290.3	2240.4	2218.0	2153.1	2108.2
28546.9	62.5°	20780.2	9148.9	2517.4	2380.2	2402.6	2193.0	2118.2	2110.7	2070.8	2055.8
30877.2	65°	21788.2	8822.1	2352.7	2375.2	2320.3	2093.2	1998.4	1995.9	1963.5	1958.5
31887.6	67.5°	21436.4	7786.7	2130.7	2305.3	2235.5	1993.4	1888.7	1878.7	1836.3	1838.8
30832.3	70°	19675.0	6309.7	1823.8	2133.2	2130.7	1903.6	1773.9	1741.5	1684.1	1694.1
26808.0	72.5°	16371.7	4675.5	1412.1	1846.2	1963.5	1821.3	1641.7	1589.3	1516.9	1526.9
19789.7	75°	11823.4	3178.5	1027.9	1404.6	1709.0	1724.0	1511.9	1422.1	1334.8	1349.8
11015.1	77.5°	6050.2	1801.3	756.0	968.0	1342.3	1566.8	1394.7	1274.9	1254.9	1394.7
3176.0	80°	1973.5	903.2	523.9	678.6	880.7	1282.4	1222.5	1085.3	1080.3	1112.7
666.1	82.5°	588.8	381.7	336.8	446.6	486.5	983.0	1055.4	820.8	706.1	743.5
222.0	85°	202.1	184.6	192.1	222.0	232.0	576.3	738.5	543.9	514.0	566.3
49.9	87.5°	47.4	64.9	54.9	49.9	49.9	139.7	286.9	227.0	314.4	209.6
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>
5671.0
4483.4
4074.2
4129.1
4268.8
4388.6
4455.9
4446.0
4336.2
4151.6
3952.0
3769.8
3617.6
3550.3
3455.5
3285.8
2973.9
2801.8
2761.9
2649.6
2519.9
2372.7
2267.9
2138.1
2120.7
2055.8
1956.0
1838.8
1704.0
1524.4
1354.7
1374.7
955.6
768.4
558.9
202.1
0.0

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