

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: P956856

Luminaire Tested: **GALN-SB9B-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956856
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-SB9B-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49970 lumens
Efficiency: N/A
Efficacy: 151.7 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

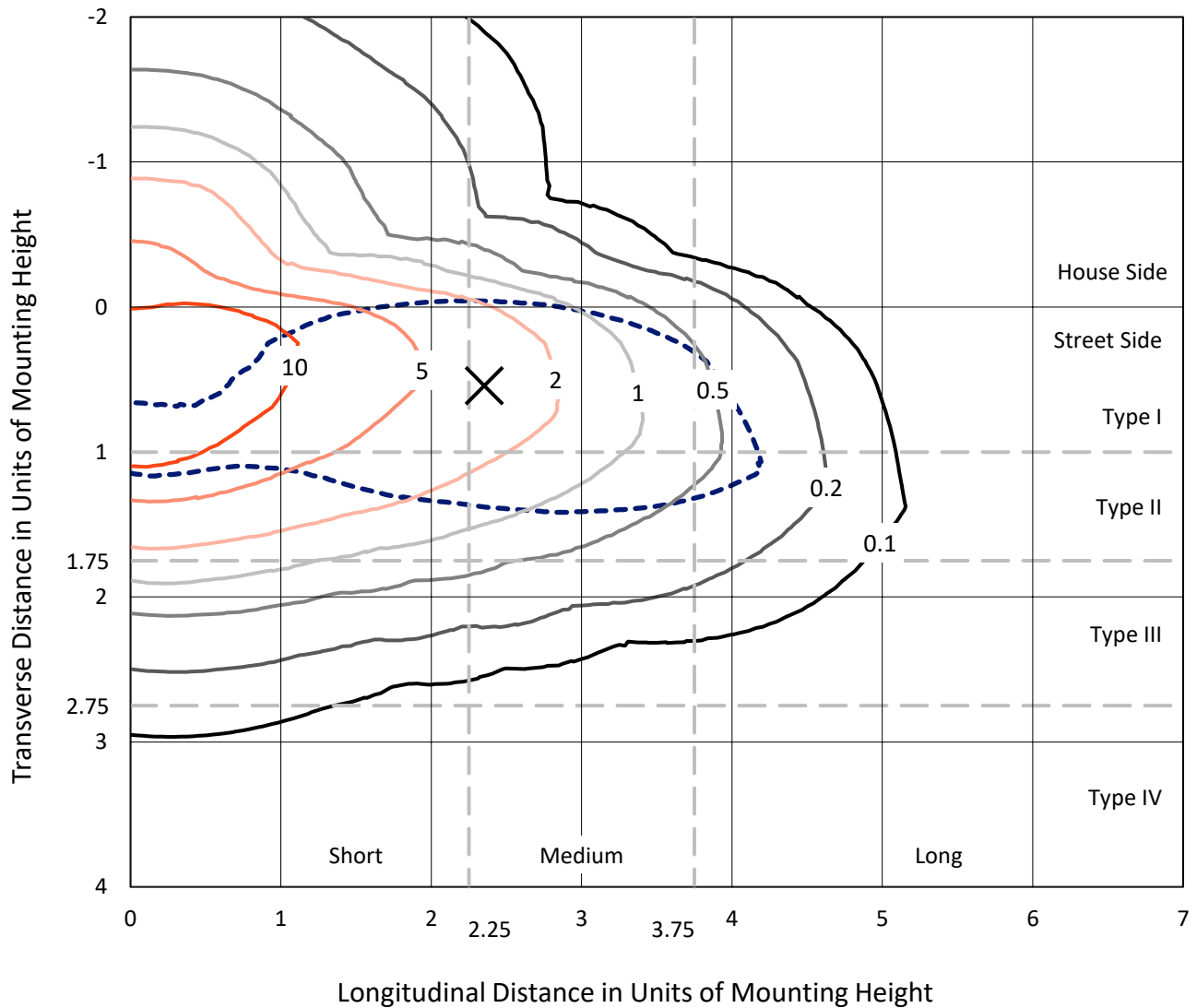
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

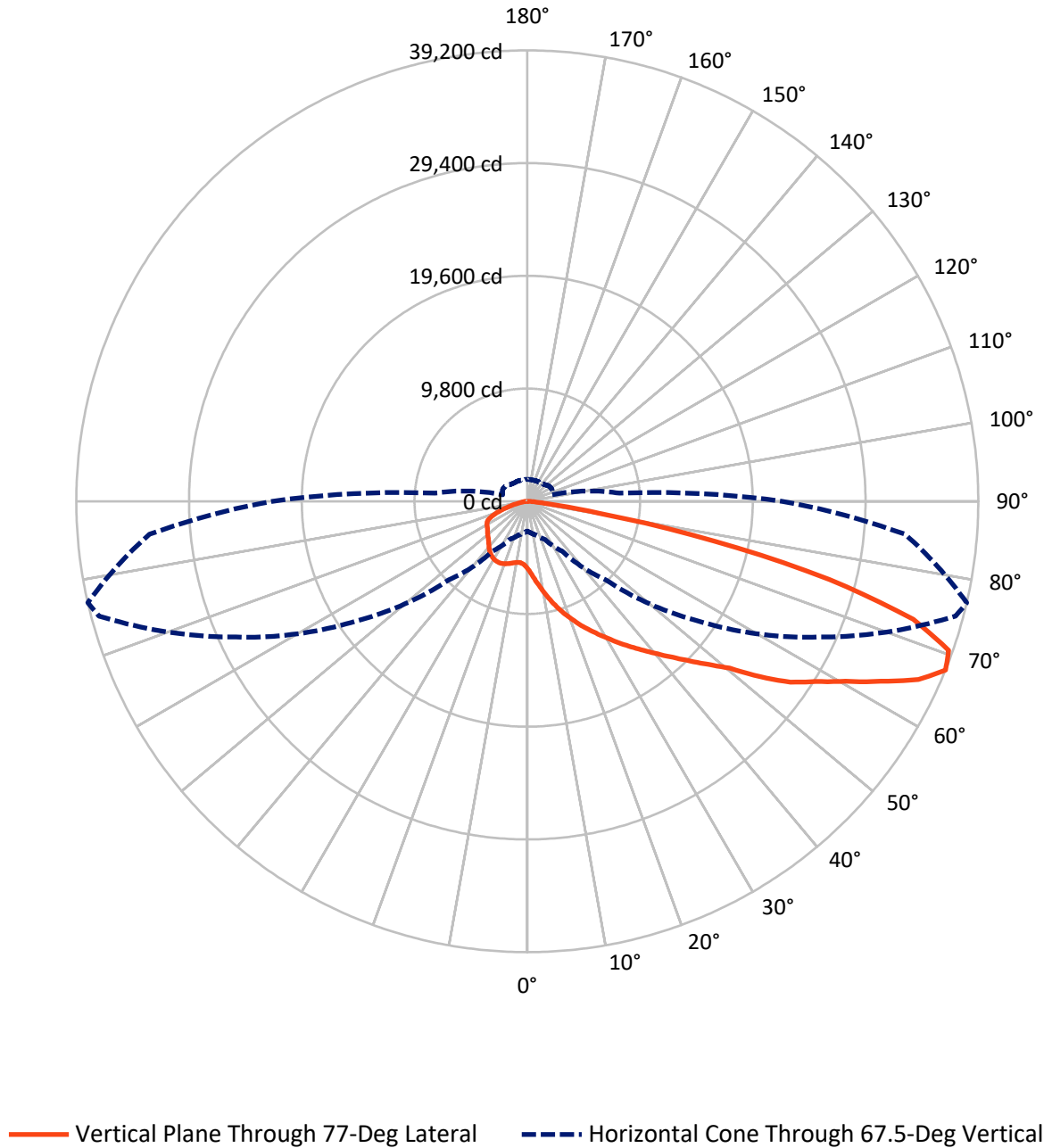
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	9452.3	0.0	9452.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	40517.7	0.0	40517.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	49970.0	0.0	49970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.4	1.3
10°-20°	2257.7	4.5
20°-30°	4262.8	8.5
30°-40°	6867.3	13.7
40°-50°	9393.2	18.8
50°-60°	10595.6	21.2
60°-70°	9889.7	19.8
70°-80°	5421.2	10.8
80°-90°	653.9	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°	49970.0	100.0
0°-180°	49970.0	100.0

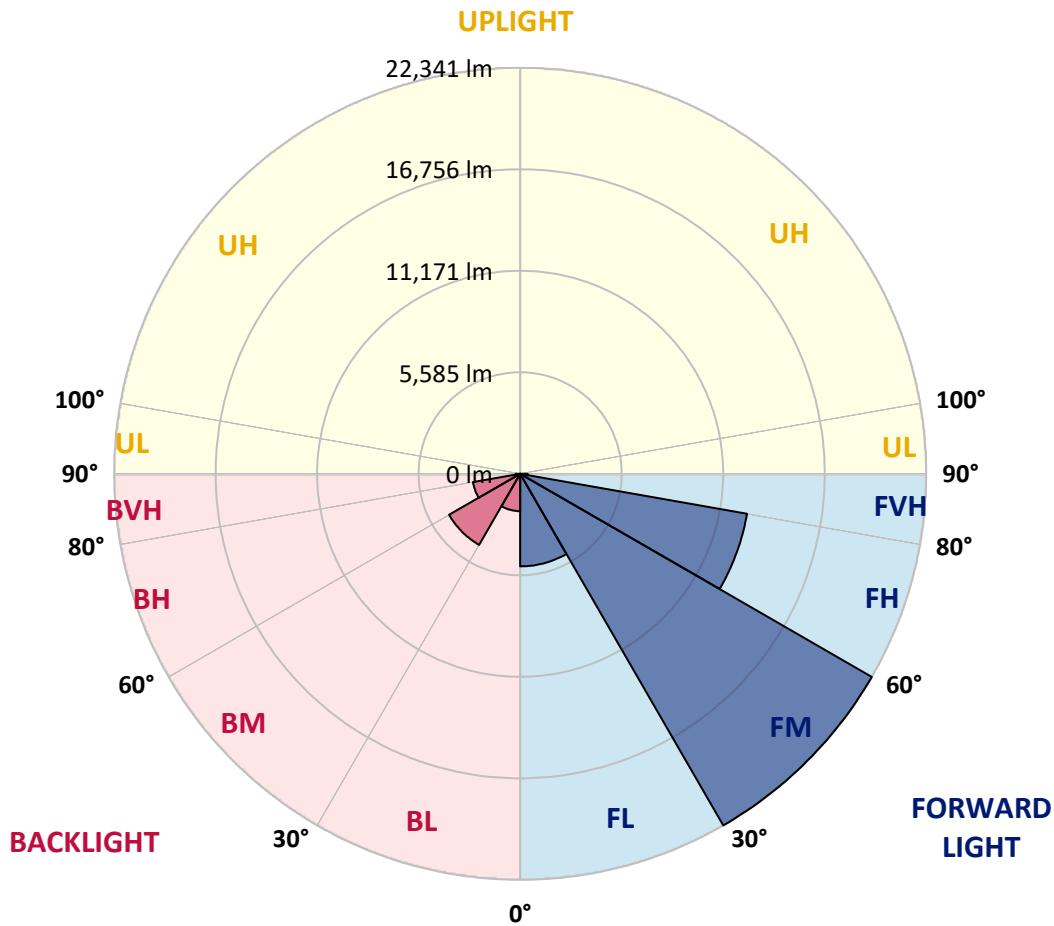


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5093.8	10.2			
FM (30°-60°)	22341.0	44.7			
FH (60°-80°)	12673.9	25.4			G5
FVH (80°-90°)	409.0	0.8			G3/500
BL (0°-30°)	2055.2	4.1	B3/2500		
BM (30°-60°)	4515.1	9.0	B3/5000		
BH (60°-80°)	2637.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	245.0	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°	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0
2.5°	7341.0	7392.6	7328.1	7328.1	7111.5	6998.0	6781.3	6616.2	6319.6	6268.0
5°	8677.2	8741.7	8651.4	8612.7	8357.3	8122.6	7758.9	7400.4	6871.6	6817.4
7.5°	9711.5	9794.1	9714.1	9672.8	9445.9	9182.8	8757.1	8256.7	7511.3	7405.5
10°	10555.0	10567.9	10542.1	10557.6	10379.6	10162.9	9727.0	9144.1	8212.9	8068.4
12.5°	11032.2	11091.5	11143.1	11236.0	11205.0	11070.9	10678.8	9982.4	8955.8	8770.0
15°	11256.6	11359.8	11475.9	11690.0	11862.8	11896.3	11597.1	10882.6	9711.5	9487.1
17.5°	11336.6	11434.6	11617.7	11927.3	12298.7	12548.9	12414.8	11757.0	10459.6	10201.6
20°	11741.5	11769.9	11880.8	12174.9	12577.3	12992.6	13093.2	12597.9	11199.9	10908.4
22.5°	12608.2	12551.5	12582.4	12716.6	13005.5	13407.9	13637.4	13340.8	11960.8	11625.5
25°	14039.8	13874.7	13709.6	13554.9	13701.9	13928.9	14189.4	14083.7	12757.8	12332.2
27.5°	15848.0	15646.8	15283.1	14774.9	14597.0	14676.9	14793.0	14772.4	13495.6	13064.8
30°	17627.8	17393.1	16959.7	16224.6	15755.1	15543.6	15455.9	15396.6	14297.8	13838.6
32.5°	19049.1	18863.3	18437.7	17614.9	16933.9	16572.8	16281.3	16069.8	15136.1	14676.9
35°	20292.3	20119.5	19632.0	18734.4	17994.1	17609.7	17228.0	16776.6	16007.9	15543.6
37.5°	21427.3	21254.5	20586.4	19652.6	18907.2	18641.5	18301.0	17534.9	16882.3	16443.8
40°	22144.4	22105.7	21481.5	20423.9	19650.1	19518.5	19405.0	18414.5	17852.2	17444.7
42.5°	22327.5	22412.6	21917.4	21048.1	20310.4	20204.6	20470.3	19410.2	18940.7	18551.2
45°	21886.4	22131.5	21806.5	21215.8	20779.8	20723.1	21414.4	20498.7	20145.3	19789.3
47.5°	20769.5	21184.8	21050.7	20968.1	20906.2	21151.3	22245.0	21654.3	21509.8	21200.3
50°	18515.1	19301.8	19536.6	20057.6	20656.0	21484.0	23000.7	22915.6	23103.9	22791.8
52.5°	14617.6	15701.0	17062.9	18368.1	19887.4	21373.1	23831.3	24726.4	25520.8	25350.6
55°	12066.6	12554.1	13601.3	15995.0	18396.5	20906.2	24205.3	26188.9	27919.7	27767.5
57.5°	10106.2	10542.1	11187.0	13186.0	16142.0	19846.1	24437.5	27081.4	29562.8	29547.3
60°	8004.0	8465.7	9126.0	10542.1	13508.4	18014.7	24385.9	28097.7	31659.9	31788.8
62.5°	5630.9	6139.0	6871.6	8192.3	10818.1	15641.6	23333.5	28832.8	34128.4	34479.2
65°	3701.5	4036.8	4588.8	5728.9	8060.7	12590.2	21324.1	28928.3	36769.7	37363.0
67.5°	2594.9	2723.9	3048.9	3667.9	5313.6	9654.8	18123.0	27940.3	38531.5	39199.5
70°	2024.8	2089.3	2254.4	2502.0	3337.8	6492.4	13887.6	25371.2	38154.9	38851.3
72.5°	1748.9	1810.8	1872.7	1903.6	2238.9	4008.4	9407.2	21213.2	34608.1	35080.2
75°	1586.3	1601.8	1653.4	1643.1	1707.6	2600.1	5429.7	15455.9	27305.8	27143.3
77.5°	1333.6	1354.2	1439.3	1426.4	1516.7	1777.2	2819.3	9974.6	17702.6	16598.6
80°	1129.8	1140.1	1233.0	1217.5	1318.1	1287.1	1439.3	5084.0	7508.7	6360.9
82.5°	392.1	484.9	941.5	969.9	1006.0	779.0	830.6	2073.9	2293.1	1756.6
85°	190.9	203.8	479.8	681.0	678.4	392.1	405.0	740.3	722.2	567.5
87.5°	31.0	38.7	56.7	265.7	211.5	103.2	139.3	144.4	149.6	129.0
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°
5863.0	0°	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0	5863.0
6072.0	2.5°	5927.5	5798.5	5527.7	5277.5	5081.5	4893.2	4787.4	4697.1	4645.5	4635.2
6355.7	5°	6087.4	5821.8	5329.1	4913.8	4643.0	4441.8	4336.0	4268.9	4235.4	4214.8
6737.5	7.5°	6317.0	5927.5	5225.9	4753.9	4470.1	4325.7	4271.5	4261.2	4258.6	4261.2
7199.2	10°	6634.3	6100.3	5215.6	4715.2	4477.9	4397.9	4395.3	4397.9	4408.2	4410.8
7702.2	12.5°	6977.3	6278.3	5256.9	4748.7	4575.9	4532.1	4524.3	4521.7	4529.5	4534.6
8210.3	15°	7351.4	6513.0	5326.5	4820.9	4684.2	4637.8	4630.1	4614.6	4612.0	4609.4
8744.3	17.5°	7735.7	6745.2	5403.9	4898.3	4753.9	4689.4	4661.0	4624.9	4596.5	4588.8
9296.2	20°	8125.2	6974.8	5458.1	4937.0	4759.0	4668.8	4612.0	4550.1	4501.1	4472.7
9853.4	22.5°	8540.5	7214.7	5491.6	4926.7	4712.6	4588.8	4485.6	4413.4	4338.6	4289.6
10415.7	25°	8945.4	7423.6	5489.0	4872.5	4622.3	4465.0	4333.4	4240.6	4137.4	4085.8
10996.1	27.5°	9334.9	7611.9	5424.5	4777.1	4493.4	4318.0	4160.6	4049.7	3949.1	3900.1
11581.6	30°	9737.3	7769.2	5323.9	4637.8	4341.2	4147.7	3974.9	3879.5	3789.2	3742.7
12200.7	32.5°	10137.1	7913.7	5182.1	4465.0	4165.8	3980.1	3809.8	3722.1	3667.9	3667.9
12866.2	35°	10560.2	8014.3	4993.8	4263.8	3980.1	3802.1	3667.9	3616.4	3611.2	3580.2
13570.4	37.5°	11006.4	8078.8	4764.2	4057.4	3796.9	3629.3	3588.0	3526.1	3474.5	3407.4
14344.2	40°	11475.9	8143.2	4488.2	3843.3	3603.5	3510.6	3492.5	3410.0	3263.0	3097.9
15221.2	42.5°	12045.9	8187.1	4201.9	3629.3	3399.7	3368.7	3394.5	3252.7	3017.9	2894.1
16278.8	45°	12706.2	8259.3	3938.8	3417.7	3190.7	3190.7	3299.1	3113.4	2919.9	2842.5
17485.9	47.5°	13562.6	8427.0	3693.7	3185.6	2997.3	3048.9	3087.6	2945.7	2837.4	2741.9
18956.2	50°	14800.7	8829.4	3441.0	2950.9	2850.3	2953.4	2899.3	2816.7	2690.3	2613.0
21293.2	52.5°	16338.1	9066.7	3216.5	2739.3	2723.9	2827.0	2749.7	2672.3	2576.8	2473.7
23065.2	55°	17385.3	9110.5	3028.2	2584.6	2638.8	2628.4	2600.1	2530.4	2478.8	2342.1
24814.1	57.5°	18556.4	9198.2	2873.5	2491.7	2584.6	2471.1	2460.8	2401.4	2334.4	2241.5
26947.3	60°	19957.0	9334.9	2739.3	2455.6	2538.2	2367.9	2316.3	2293.1	2226.0	2179.6
29513.8	62.5°	21484.0	9458.8	2602.6	2460.8	2484.0	2267.3	2189.9	2182.2	2140.9	2125.4
31923.0	65°	22526.1	9120.8	2432.4	2455.6	2398.9	2164.1	2066.1	2063.5	2030.0	2024.8
32967.6	67.5°	22162.4	8050.4	2202.8	2383.4	2311.2	2061.0	1952.6	1942.3	1898.5	1901.0
31876.5	70°	20341.3	6523.4	1885.6	2205.4	2202.8	1968.1	1834.0	1800.4	1741.1	1751.4
27715.9	72.5°	16926.2	4833.8	1460.0	1908.8	2030.0	1883.0	1697.3	1643.1	1568.3	1578.6
20460.0	75°	12223.9	3286.2	1062.7	1452.2	1766.9	1782.4	1563.1	1470.3	1380.0	1395.5
11388.2	77.5°	6255.1	1862.3	781.6	1000.8	1387.7	1619.9	1441.9	1318.1	1297.5	1441.9
3283.6	80°	2040.3	933.8	541.7	701.6	910.5	1325.8	1263.9	1122.0	1116.9	1150.4
688.7	82.5°	608.7	394.7	348.2	461.7	503.0	1016.3	1091.1	848.6	730.0	768.7
229.6	85°	208.9	190.9	198.6	229.6	239.9	595.8	763.5	562.3	531.4	585.5
51.6	87.5°	49.0	67.1	56.7	51.6	51.6	144.4	296.6	234.7	325.0	216.7
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>
5863.0
4635.2
4212.2
4268.9
4413.4
4537.2
4606.9
4596.5
4483.0
4292.2
4085.8
3897.5
3740.2
3670.5
3572.5
3397.1
3074.7
2896.7
2855.4
2739.3
2605.2
2453.0
2344.7
2210.6
2192.5
2125.4
2022.3
1901.0
1761.7
1576.0
1400.6
1421.3
987.9
794.5
577.8
208.9
0.0

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