

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: P955810

Luminaire Tested: **GALN-SB8C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37842 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

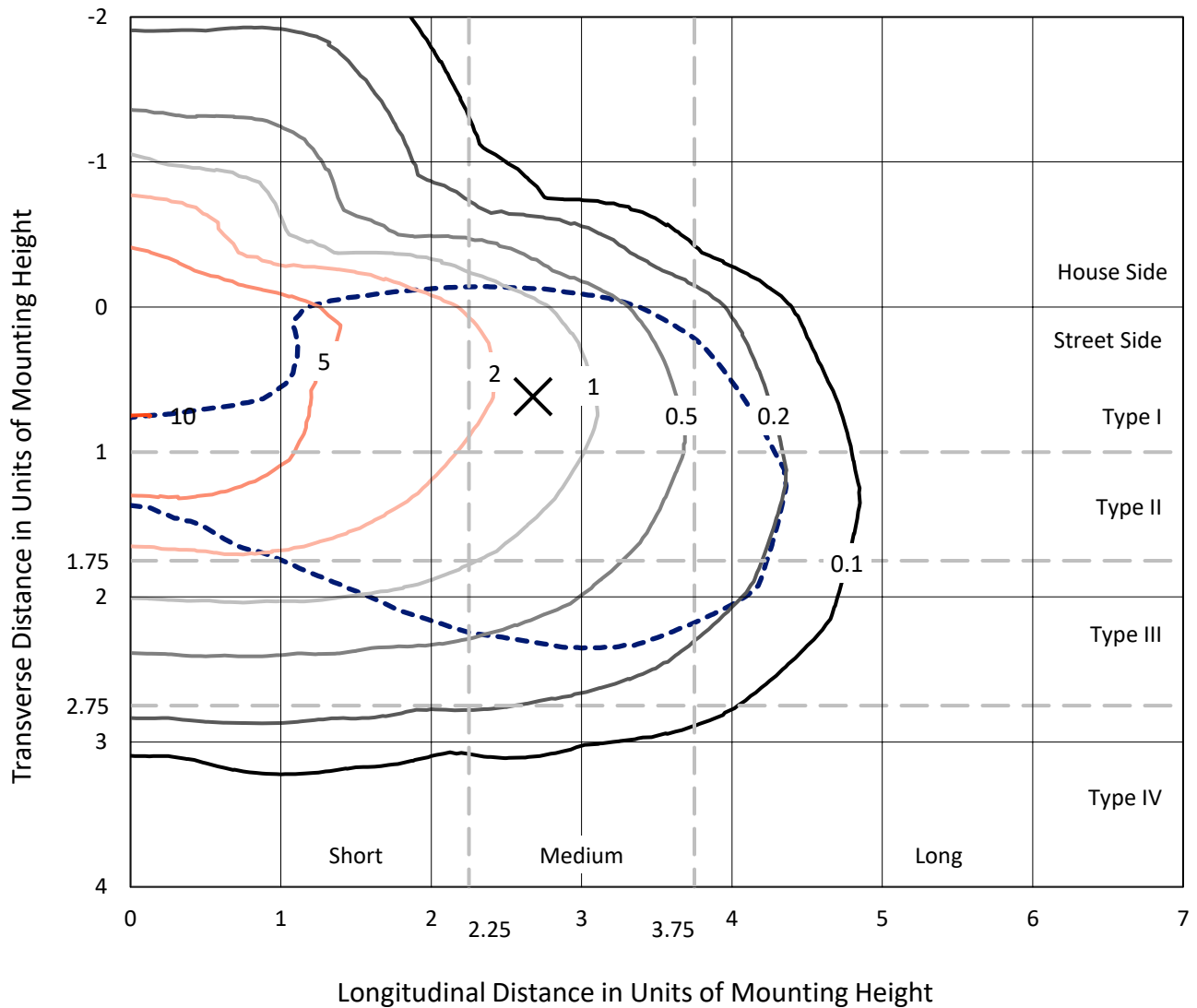
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

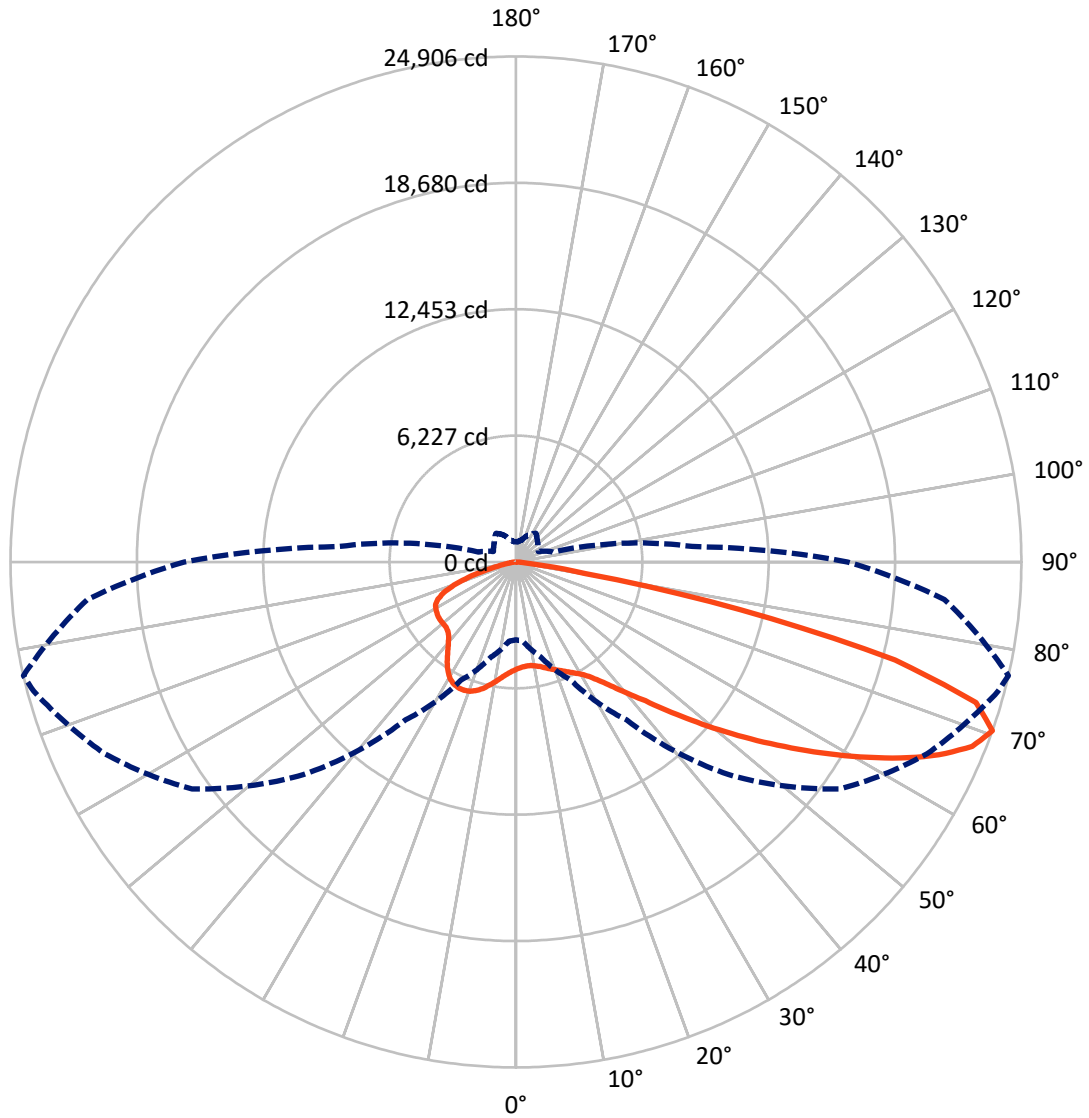
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8286.8	0.0	8286.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	29555.2	0.0	29555.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	37842.0	0.0	37842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.5	1.3
10°-20°	1453.2	3.8
20°-30°	2485.1	6.6
30°-40°	3996.3	10.6
40°-50°	6239.3	16.5
50°-60°	8334.2	22.0
60°-70°	8883.0	23.5
70°-80°	5468.3	14.5
80°-90°	479.2	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°	37842.0	100.0
0°-180°	37842.0	100.0

Coefficient of Utilization



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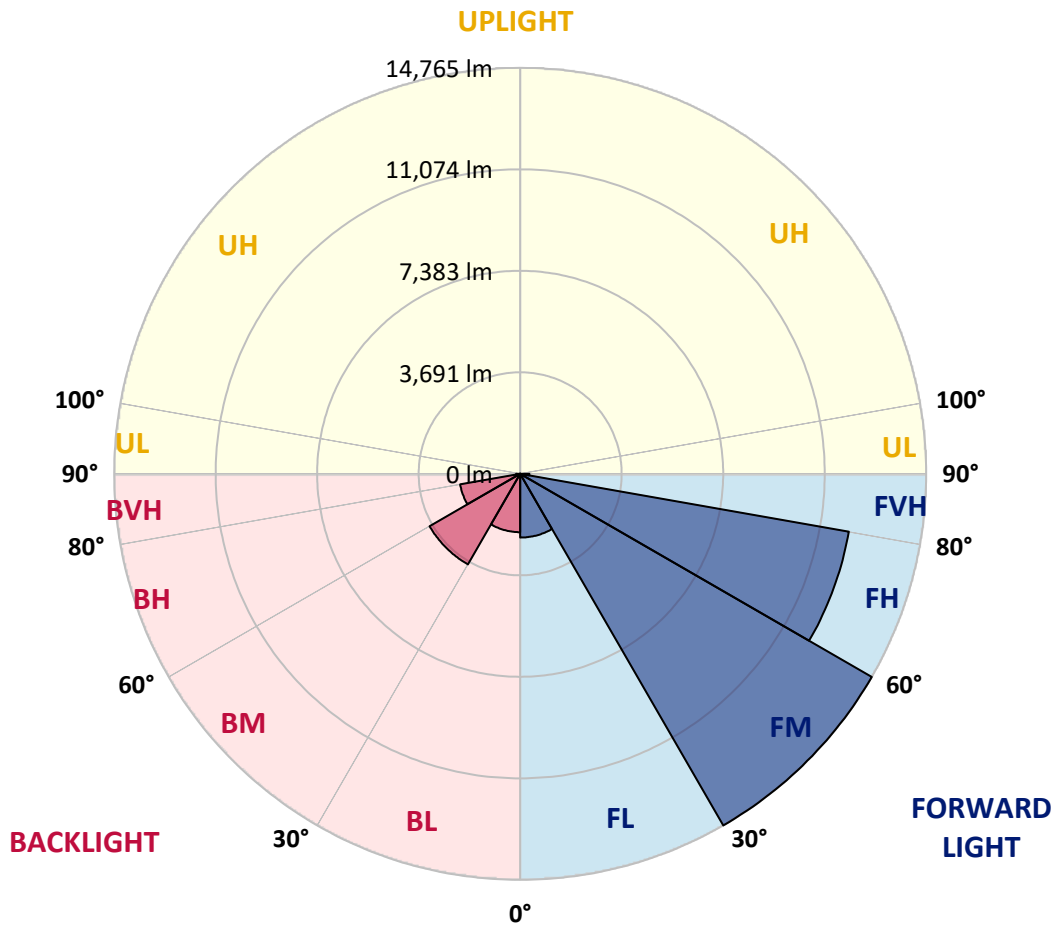
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.4	6.1			
FM (30°-60°)	14765.1	39.0			
FH (60°-80°)	12136.6	32.1			G5
FVH (80°-90°)	335.1	0.9			G3/500
BL (0°-30°)	2123.3	5.6	B3/2500		
BM (30°-60°)	3804.7	10.1	B3/5000		
BH (60°-80°)	2214.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	144.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3
2.5°	4866.5	4864.6	4889.8	4897.5	4944.0	4977.0	5039.0	5104.9	5190.2	5199.8
5°	4585.5	4585.5	4614.5	4645.6	4705.6	4771.5	4866.5	4980.8	5128.1	5151.4
7.5°	4347.1	4362.6	4387.8	4447.9	4517.6	4612.6	4758.0	4920.8	5114.6	5151.4
10°	4155.2	4172.7	4203.7	4252.1	4356.8	4488.6	4678.5	4887.8	5147.5	5205.7
12.5°	4095.1	4112.6	4130.0	4166.9	4263.8	4418.8	4645.6	4903.3	5227.0	5285.1
15°	4234.7	4256.0	4242.4	4232.7	4283.1	4424.6	4661.1	4959.5	5325.8	5409.2
17.5°	4556.4	4564.2	4533.1	4442.1	4434.3	4509.9	4734.7	5037.0	5449.9	5540.9
20°	5075.8	5062.2	4998.3	4818.0	4715.3	4699.8	4860.7	5153.3	5577.8	5674.7
22.5°	5781.3	5765.8	5637.8	5353.0	5124.3	4973.1	5042.9	5304.5	5721.2	5829.7
25°	6661.1	6639.8	6451.8	6064.2	5709.6	5335.5	5290.9	5504.1	5897.5	5998.3
27.5°	7688.3	7670.9	7467.4	6955.7	6444.1	5831.7	5599.1	5738.6	6081.7	6196.0
30°	8793.0	8843.4	8482.9	7932.5	7285.2	6479.0	6013.8	6027.4	6320.0	6422.8
32.5°	10091.5	10178.7	9744.6	9046.9	8163.2	7182.5	6537.1	6430.5	6667.0	6752.2
35°	11378.4	11477.3	11116.8	10345.4	9327.9	8012.0	7083.6	6893.7	7128.2	7221.3
37.5°	12490.9	12622.7	12436.6	11766.0	10574.1	9012.0	7796.9	7438.3	7696.1	7812.4
40°	13368.8	13570.4	13556.8	13138.2	12043.2	10225.3	8701.9	8110.8	8401.5	8527.5
42.5°	14082.0	14256.4	14407.6	14386.3	13576.2	11603.2	9765.9	8984.9	9205.8	9351.2
45°	14574.3	14760.3	15085.9	15436.7	15051.1	13078.1	10985.0	10021.8	10223.3	10442.3
47.5°	15014.2	15225.5	15648.0	16204.2	16303.0	14558.8	12320.3	11229.2	11413.3	11640.1
50°	15053.0	15235.2	15890.2	16679.0	17192.6	15981.3	13754.5	12583.9	12756.4	12998.6
52.5°	14116.9	14403.7	15547.2	16665.5	17601.6	17171.3	15179.0	13992.9	14186.7	14477.4
55°	10957.9	11378.4	14541.3	16146.1	17456.2	17940.7	16533.7	15491.0	15739.1	16043.3
57.5°	9438.4	9622.5	11543.1	15200.3	16793.4	18140.3	17677.1	17004.6	17403.9	17737.2
60°	8482.9	8636.0	9771.8	13729.3	15921.2	17824.4	18560.9	18415.5	19105.5	19502.8
62.5°	7459.6	7605.0	8638.0	11463.7	14804.9	17299.2	19119.1	19717.9	20849.8	21283.9
65°	6444.1	6568.1	7558.5	9632.2	13386.3	16774.0	19407.8	20843.9	22464.2	22913.8
67.5°	5312.3	5415.0	6351.1	8126.3	11661.4	16055.0	19551.3	21729.6	23869.3	24255.0
70°	3833.5	3913.0	4880.1	6426.6	9496.5	14818.5	19493.1	22357.6	24598.0	24906.1
72.5°	1812.1	1883.8	3019.5	4172.7	6707.7	12411.4	18316.7	21859.5	23857.6	23704.5
75°	967.1	1029.1	1734.6	2288.9	3542.8	8508.1	14989.0	18830.3	20033.8	19289.6
77.5°	655.1	703.5	1073.7	1374.1	1618.3	4038.9	9634.1	13037.4	12543.2	11314.5
80°	519.4	569.8	879.9	930.3	783.0	1459.4	3980.8	6035.2	4335.5	3467.2
82.5°	399.2	455.4	740.3	674.4	426.4	598.9	1159.0	1909.0	1110.5	845.0
85°	244.2	304.3	581.4	430.3	240.3	273.3	393.4	531.0	339.2	283.0
87.5°	124.0	174.4	294.6	157.0	108.5	64.0	104.7	104.7	89.2	77.5
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°
5279.3	0°	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3
5252.2	2.5°	5298.7	5337.4	5403.3	5465.4	5513.8	5560.3	5606.8	5632.0	5639.8	5670.8
5281.2	5°	5360.7	5432.4	5560.3	5680.5	5756.1	5802.6	5835.5	5854.9	5858.8	5868.5
5360.7	7.5°	5475.0	5589.4	5767.7	5887.9	5944.1	5940.2	5926.6	5878.2	5858.8	5841.3
5477.0	10°	5635.9	5787.1	6006.1	6089.4	6054.5	5961.5	5841.3	5699.9	5634.0	5570.0
5635.9	12.5°	5835.5	6027.4	6242.5	6238.6	6066.2	5827.8	5548.7	5331.6	5194.0	5095.2
5831.7	15°	6077.8	6298.7	6463.5	6331.7	5953.8	5525.4	5116.5	4833.5	4709.5	4601.0
6029.3	17.5°	6327.8	6564.2	6639.8	6302.6	5670.8	5077.7	4614.5	4391.7	4269.6	4211.4
6242.5	20°	6572.0	6806.5	6744.5	6135.9	5240.5	4570.0	4157.2	4035.1	4009.9	4023.4
6449.9	22.5°	6829.8	7039.1	6765.8	5814.2	4692.1	4050.6	3823.8	3827.7	3883.9	3924.6
6667.0	25°	7093.3	7234.8	6709.6	5349.1	4102.9	3668.8	3612.6	3674.6	3785.1	3864.5
6911.2	27.5°	7347.2	7409.2	6587.5	4773.5	3597.1	3395.5	3405.2	3533.1	3699.8	3810.2
7207.7	30°	7634.1	7564.3	6353.0	4126.2	3246.3	3161.0	3242.4	3391.6	3558.3	3657.1
7581.7	32.5°	7957.7	7698.0	5980.9	3527.3	2998.2	2973.0	3106.7	3203.6	3277.3	3306.3
8077.9	35°	8360.8	7886.0	5504.1	3106.7	2775.3	2835.4	2963.3	2914.9	2885.8	2870.3
8744.6	37.5°	8884.1	8139.9	4946.0	2833.5	2595.1	2736.6	2788.9	2637.7	2523.4	2467.2
9552.7	40°	9514.0	8512.0	4409.1	2622.2	2480.7	2651.3	2560.2	2378.0	2232.7	2153.2
10461.7	42.5°	10213.6	8901.6	3957.5	2463.3	2416.8	2581.5	2391.6	2174.5	1940.0	1914.8
11545.1	45°	10948.2	9302.7	3649.4	2341.2	2385.8	2521.4	2294.7	1943.9	1777.2	1879.9
12632.3	47.5°	11682.7	9671.0	3463.3	2250.1	2370.3	2453.6	2209.4	1816.0	1697.7	1847.0
13797.1	50°	12500.6	10000.4	3380.0	2184.2	2352.8	2426.5	2081.5	1783.0	1614.4	1713.3
15002.6	52.5°	13312.6	10256.3	3318.0	2118.3	2327.6	2405.1	2019.5	1744.3	1513.6	1519.4
16215.8	55°	14122.7	10422.9	3250.1	2031.1	2271.4	2358.6	2013.7	1701.6	1438.0	1410.9
17498.8	57.5°	14987.1	10517.9	3166.8	1934.2	2174.5	2240.4	2007.8	1668.7	1414.8	1370.2
18810.9	60°	15867.0	10657.5	3058.3	1816.0	2044.7	2098.9	1994.3	1657.1	1401.2	1325.6
20047.4	62.5°	16655.8	10705.9	2928.4	1703.6	1878.0	1959.4	1965.2	1647.4	1364.4	1234.6
21074.6	65°	17173.2	10496.6	2701.7	1575.7	1697.7	1816.0	1909.0	1614.4	1298.5	1168.7
21582.4	67.5°	17151.9	9899.7	2347.0	1410.9	1523.3	1657.1	1827.6	1558.2	1219.0	1087.3
21198.6	70°	16353.4	8721.3	1897.4	1219.0	1331.5	1486.5	1722.9	1474.9	1124.1	998.1
18849.7	72.5°	14025.8	6825.9	1378.0	994.2	1108.6	1310.1	1587.3	1374.1	1027.2	918.6
13930.9	75°	10019.8	4320.0	934.2	763.6	862.4	1110.5	1418.7	1255.9	938.0	922.5
6977.1	77.5°	5118.4	2064.0	618.2	558.2	600.8	876.0	1191.9	1122.1	951.6	761.7
1984.6	80°	1664.8	761.7	389.6	379.9	399.2	583.4	922.5	920.6	721.0	517.5
480.6	82.5°	531.0	327.5	253.9	244.2	234.5	366.3	643.4	728.7	486.5	327.5
172.5	85°	211.2	195.7	149.2	137.6	98.8	172.5	337.2	484.5	362.4	236.4
44.6	87.5°	77.5	77.5	40.7	29.1	21.3	58.1	91.1	145.4	207.4	122.1
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>
5279.3
5688.2
5884.0
5845.2
5550.6
5071.9
4589.4
4228.9
4017.6
3934.3
3885.8
3837.4
3680.4
3321.9
2885.8
2480.7
2159.0
1940.0
1934.2
1916.8
1786.9
1560.1
1430.3
1376.0
1331.5
1234.6
1168.7
1093.1
<i>1009.7</i>
912.8
870.2
678.3
457.4
325.6
242.3
120.2
0.0

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