

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: P956876

Luminaire Tested: **GALN-SB9B-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26433 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

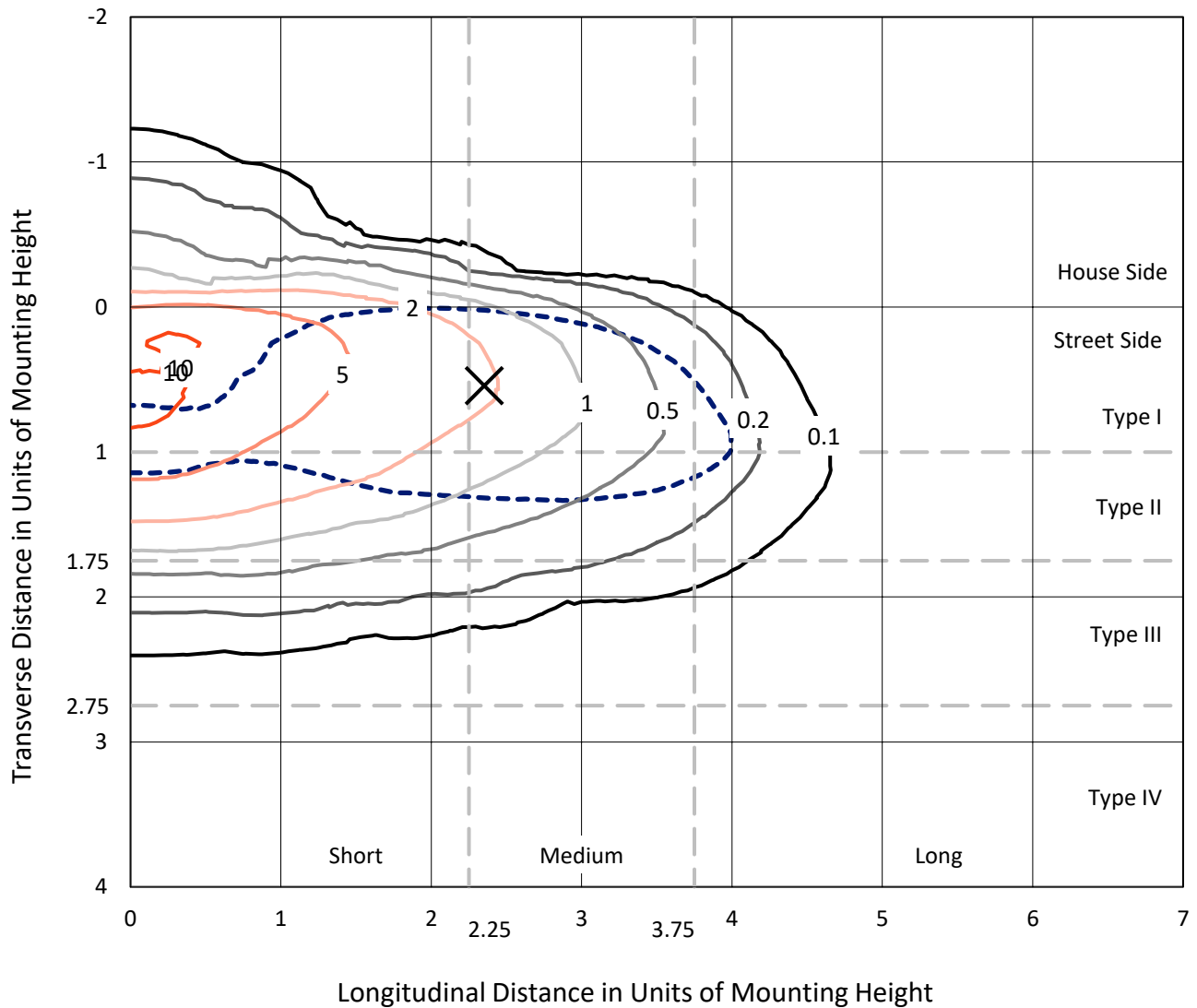
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

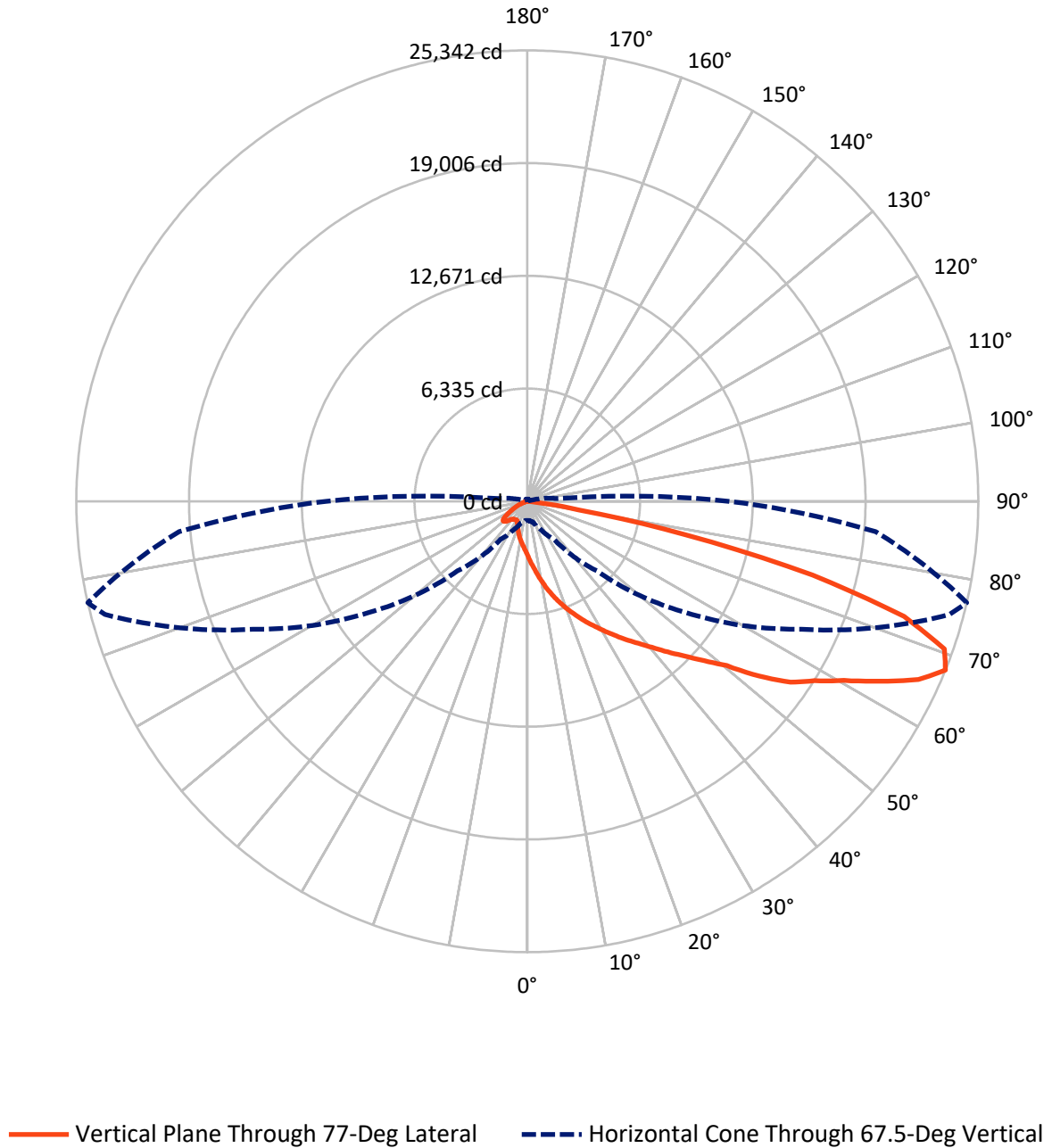
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	1944.7	0.0	1944.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	24488.3	0.0	24488.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	26433.0	0.0	26433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.1	1.2
10°-20°	1089.5	4.1
20°-30°	2102.4	8.0
30°-40°	3649.8	13.8
40°-50°	5299.4	20.0
50°-60°	6085.7	23.0
60°-70°	5283.5	20.0
70°-80°	2488.6	9.4
80°-90°	123.1	0.5
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°	26433.0	100.0
0°-180°	26433.0	100.0

Coefficient of Utilization



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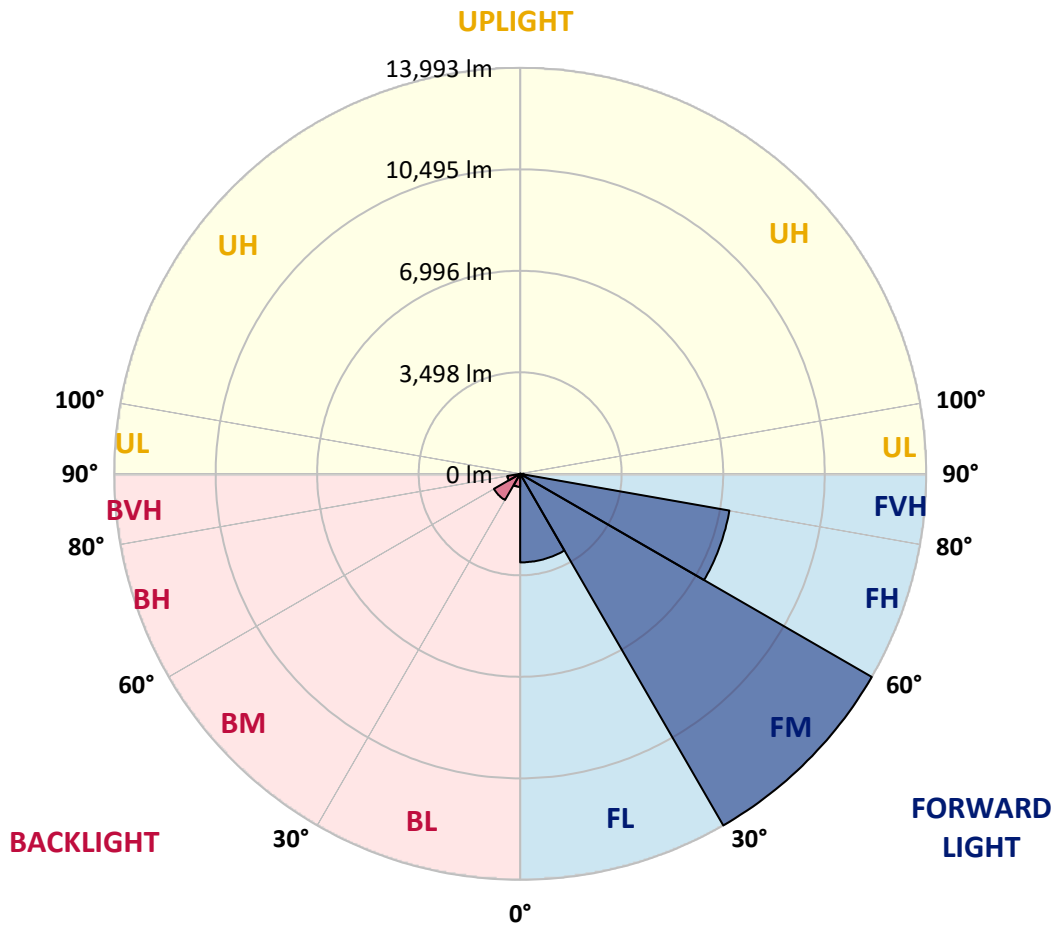
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3052.7	11.5			
FM (30°-60°)	13992.9	52.9			
FH (60°-80°)	7321.9	27.7			G3/7500
FVH (80°-90°)	120.8	0.5			G2/225
BL (0°-30°)	450.2	1.7	B1/500		
BM (30°-60°)	1042.0	3.9	B2/2500		
BH (60°-80°)	450.2	1.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1
2.5°	4220.1	4246.3	4208.6	4136.4	4028.0	3957.5	3785.1	3622.6	3442.1	3384.6
5°	5144.2	5167.2	5124.5	5045.7	4901.3	4763.4	4536.9	4197.1	3844.2	3730.9
7.5°	5828.7	5841.8	5825.4	5753.2	5615.3	5459.4	5206.6	4804.4	4280.8	4156.1
10°	6321.1	6363.8	6358.9	6330.9	6239.0	6112.6	5843.4	5385.5	4770.0	4609.1
12.5°	6647.7	6695.3	6723.2	6785.6	6780.7	6700.3	6463.9	5979.7	5257.5	5068.7
15°	6742.9	6793.8	6900.5	7045.0	7173.0	7214.0	7048.2	6562.4	5794.2	5552.9
17.5°	6688.8	6767.6	6895.6	7123.8	7404.4	7589.9	7571.9	7125.4	6281.7	6005.9
20°	6808.6	6884.1	6984.2	7176.3	7502.9	7839.4	7974.0	7663.8	6765.9	6477.0
22.5°	7471.7	7458.6	7468.5	7499.6	7695.0	8028.2	8305.6	8152.9	7245.2	6949.8
25°	8522.2	8463.2	8363.0	8194.0	8144.7	8305.6	8594.5	8586.3	7750.8	7434.0
27.5°	9727.0	9717.2	9482.5	9075.4	8845.6	8783.2	8921.1	9008.1	8251.4	7913.3
30°	10881.0	10907.2	10590.4	10137.4	9715.6	9471.0	9346.2	9408.6	8760.2	8430.3
32.5°	11885.5	11913.4	11568.7	11038.5	10516.6	10221.1	9958.5	9804.2	9315.0	8955.6
35°	12734.1	12762.0	12366.4	11780.5	11224.0	10956.5	10659.4	10237.5	9873.1	9538.3
37.5°	13492.5	13484.2	12954.1	12363.2	11816.6	11604.8	11448.9	10771.0	10447.6	10124.3
40°	13940.6	13975.0	13522.0	12870.4	12340.2	12185.9	12176.0	11432.5	11110.8	10797.2
42.5°	14071.9	14132.6	13804.3	13269.2	12788.3	12620.9	12878.6	12148.1	11882.2	11576.9
45°	13835.5	13894.6	13745.2	13374.3	13093.6	12985.3	13482.6	12890.1	12706.2	12404.2
47.5°	13146.1	13220.0	13256.1	13177.3	13174.0	13284.0	14024.3	13671.4	13684.5	13375.9
50°	11811.6	11936.4	12268.0	12547.0	12978.7	13520.4	14551.2	14518.3	14787.5	14521.6
52.5°	9385.6	9562.9	10705.3	11468.6	12438.7	13476.0	15130.6	15877.4	16722.8	16333.8
55°	7542.3	7542.3	8471.4	9899.4	11384.9	13183.9	15383.4	16760.5	18040.8	17948.9
57.5°	6148.8	6222.6	6815.2	8077.4	9860.0	12487.9	15539.3	17315.3	19102.8	19035.5
60°	3795.0	3954.2	5073.6	6319.5	8125.0	11248.6	15440.8	17876.7	20391.3	20445.5
62.5°	2137.1	2196.2	2695.2	4546.7	6317.8	9582.6	14687.4	18190.2	22039.3	22269.1
65°	1475.6	1505.2	1697.2	2829.8	4379.3	7629.3	13215.1	17994.9	23690.6	24155.1
67.5°	1071.8	1086.6	1206.4	1728.4	2598.4	5531.6	10907.2	17010.0	24565.5	25341.9
70°	824.0	833.8	920.8	1135.9	1534.7	3414.1	7921.5	15051.8	23931.9	24859.3
72.5°	669.7	679.5	746.8	840.4	1017.7	2018.9	4801.1	12223.6	21134.9	22136.2
75°	564.6	577.8	638.5	699.2	797.7	1296.7	2252.0	8512.4	15893.9	16550.4
77.5°	313.5	288.9	518.7	579.4	673.0	820.7	1053.8	5009.6	8901.4	9083.6
80°	195.3	201.9	412.0	466.2	517.0	413.6	482.6	1928.7	3085.9	2931.6
82.5°	11.5	26.3	316.8	336.5	354.5	177.3	182.2	654.9	743.6	682.8
85°	0.0	0.0	144.4	116.5	123.1	50.9	52.5	152.7	100.1	108.3
87.5°	0.0	0.0	0.0	3.3	0.0	4.9	9.8	13.1	4.9	6.6
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°
3048.1	0°	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1	3048.1
3204.0	2.5°	3089.1	2974.2	2741.2	2513.0	2327.5	2155.2	2032.1	1915.5	1856.4	1853.2
3410.9	5°	3182.7	2941.4	2475.3	2063.3	1731.7	1465.8	1293.4	1170.3	1108.0	1086.6
3665.3	7.5°	3314.0	2951.3	2242.2	1669.3	1278.7	1050.5	952.0	912.6	899.5	884.7
3952.5	10°	3479.8	2974.2	2033.7	1344.3	1007.8	892.9	853.5	837.1	827.3	817.4
4275.9	12.5°	3665.3	2995.6	1826.9	1116.2	886.4	827.3	799.4	779.7	766.5	755.1
4607.5	15°	3845.8	3008.7	1611.9	956.9	824.0	776.4	746.8	725.5	707.5	694.3
4932.5	17.5°	4024.8	3026.8	1410.0	861.7	773.1	725.5	696.0	669.7	654.9	640.2
5273.9	20°	4223.4	3023.5	1219.6	794.4	722.2	674.6	643.4	618.8	604.0	587.6
5635.0	22.5°	4407.2	3007.1	1052.1	737.0	669.7	623.7	589.3	564.6	549.9	536.7
6004.3	25°	4619.0	2993.9	912.6	684.5	620.5	574.5	536.7	513.8	497.3	485.9
6375.3	27.5°	4822.5	2974.2	810.9	636.9	572.9	528.5	492.4	466.2	451.4	443.2
6757.7	30°	5022.7	2969.3	773.1	590.9	530.2	485.9	449.7	425.1	413.6	410.4
7177.9	32.5°	5264.0	2982.5	789.5	574.5	490.8	446.5	412.0	393.9	382.5	382.5
7645.7	35°	5521.7	2979.2	814.1	589.3	464.5	407.1	380.8	369.3	357.8	357.8
8164.4	37.5°	5845.1	2984.1	833.8	613.9	454.7	374.2	359.5	344.7	338.1	338.1
8732.3	40°	6327.7	3146.6	824.0	635.2	451.4	351.3	321.7	316.8	311.9	311.9
9374.1	42.5°	6918.6	3499.5	837.1	636.9	449.7	334.8	295.5	305.3	293.8	292.2
10098.0	45°	7565.3	3885.2	920.8	602.4	448.1	326.6	282.3	293.8	275.8	275.8
10936.8	47.5°	8207.1	4267.7	1006.2	553.2	443.2	325.0	270.8	264.3	259.3	261.0
12030.0	50°	9091.8	4579.6	1039.0	485.9	431.7	321.7	249.5	251.1	247.9	251.1
13571.2	52.5°	10055.3	4645.2	999.6	410.4	398.9	311.9	234.7	241.3	239.6	242.9
14656.2	55°	10656.1	4574.6	825.6	341.4	348.0	272.5	220.0	233.1	233.1	233.1
15716.6	57.5°	11276.5	4274.3	586.0	277.4	288.9	223.2	206.8	224.9	223.2	221.6
16993.6	60°	11723.0	3788.4	385.7	228.2	229.8	183.8	192.0	211.7	210.1	201.9
18310.0	62.5°	12056.2	3251.6	247.9	193.7	175.6	165.8	175.6	192.0	185.5	167.4
19426.2	65°	12018.5	2508.1	190.4	165.8	144.4	144.4	152.7	167.4	147.7	118.2
19639.6	67.5°	11317.6	1697.2	157.6	139.5	121.5	119.8	126.4	139.5	126.4	100.1
18546.4	70°	10065.2	1109.6	126.4	108.3	96.8	88.6	101.8	119.8	106.7	80.4
15788.8	72.5°	8169.3	676.3	95.2	78.8	70.6	57.4	80.4	98.5	85.4	59.1
10979.4	75°	5285.4	344.7	65.7	50.9	37.8	34.5	59.1	73.9	59.1	36.1
4871.7	77.5°	2022.2	144.4	36.1	23.0	19.7	16.4	32.8	44.3	24.6	8.2
943.8	80°	389.0	60.7	18.1	11.5	9.8	6.6	4.9	3.3	0.0	0.0
167.4	82.5°	67.3	19.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
32.8	85°	23.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	87.5°	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3048.1
1849.9
1083.3
881.4
814.1
751.8
692.7
638.5
586.0
535.1
484.2
443.2
408.7
382.5
357.8
338.1
311.9
290.5
275.8
261.0
251.1
242.9
233.1
221.6
201.9
164.1
114.9
96.8
77.1
55.8
31.2
6.6
0.0
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