

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: P956083

Luminaire Tested: **GALN-SB8D-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956083
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-SB8D-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75904 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

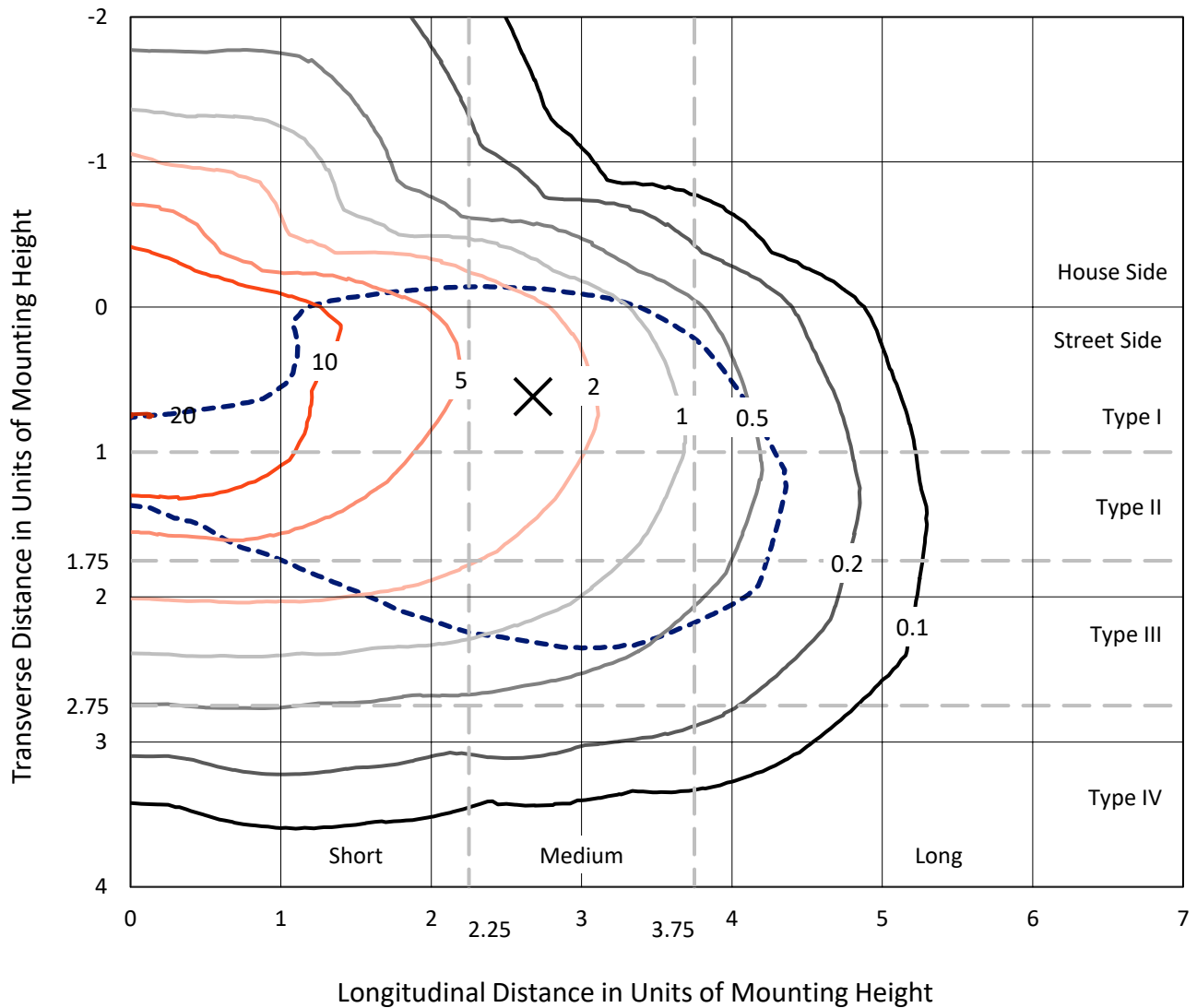
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956083
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Iso-Footcandle Lines of Horizontal Illumination

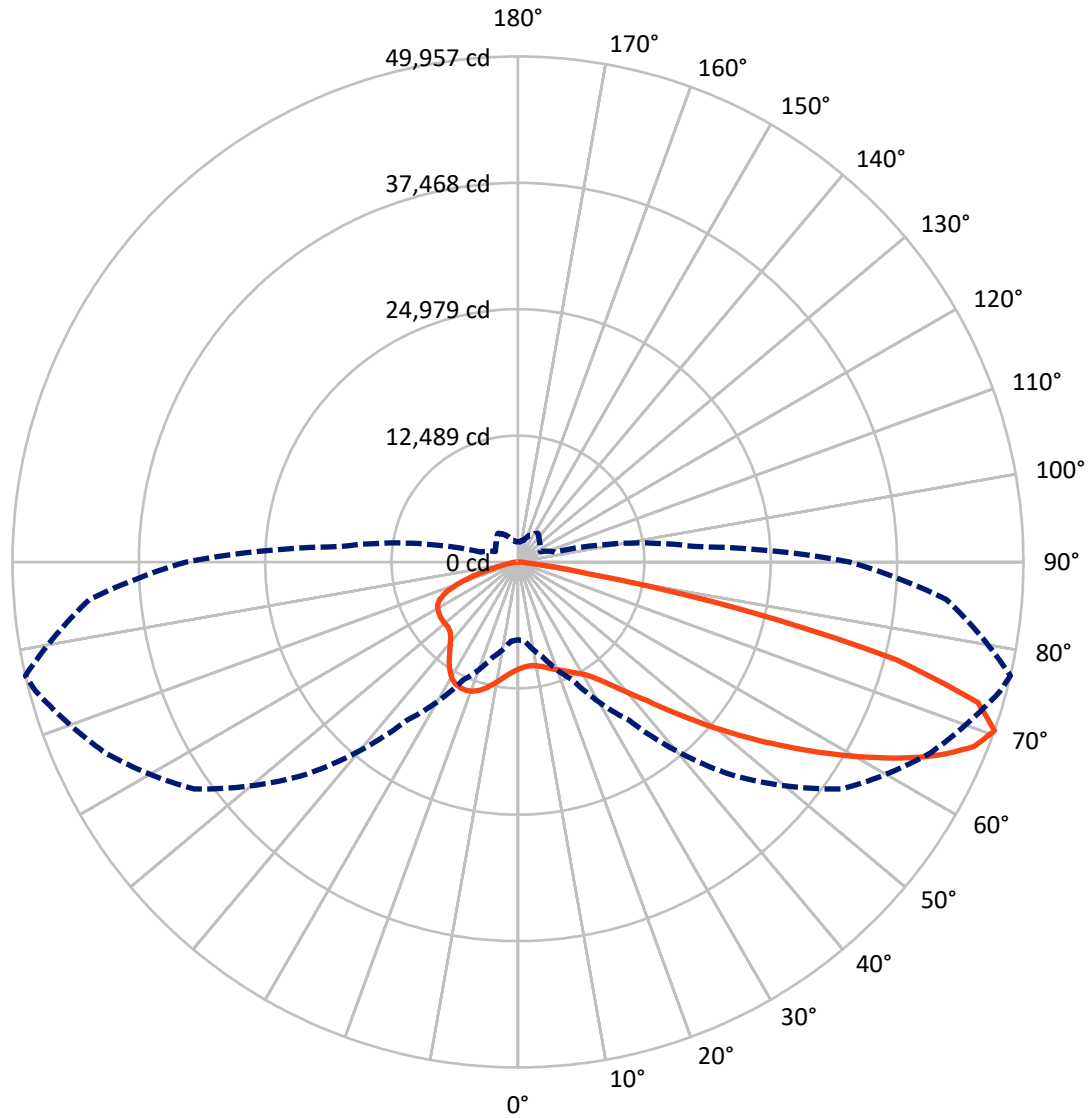
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P956083
CATALOG NUMBER: GALN-SB8D-830-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P956083

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16621.8	0.0	16621.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	59282.2	0.0	59282.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	75904.0	0.0	75904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.9	1.3
10°-20°	2914.8	3.8
20°-30°	4984.7	6.6
30°-40°	8015.8	10.6
40°-50°	12514.8	16.5
50°-60°	16716.8	22.0
60°-70°	17817.6	23.5
70°-80°	10968.4	14.5
80°-90°	961.1	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°	75904.0	100.0
0°-180°	75904.0	100.0

Coefficient of Utilization



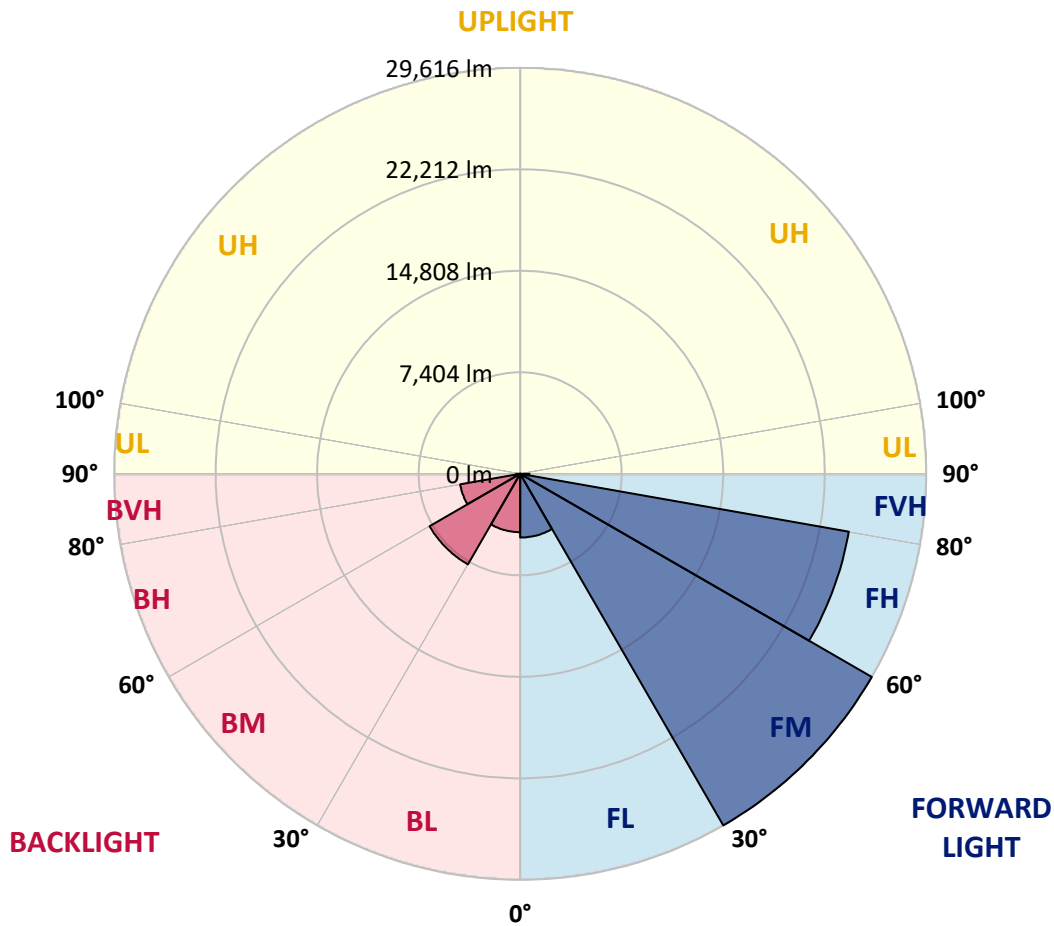
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4650.3	6.1			
FM (30°-60°)	29616.1	39.0			
FH (60°-80°)	24343.7	32.1			G5
FVH (80°-90°)	672.1	0.9			G4/750
BL (0°-30°)	4259.0	5.6	B4/5000		
BM (30°-60°)	7631.4	10.1	B4/8500		
BH (60°-80°)	4442.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	289.1	0.4			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 III Medium



REPORT NUMBER: P956083
 CATALOG NUMBER: GALN-SB8D-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3
2.5°	9761.3	9757.4	9807.9	9823.5	9916.8	9982.9	10107.3	10239.4	10410.5	10429.9
5°	9197.6	9197.6	9255.9	9318.1	9438.6	9570.8	9761.3	9990.6	10286.1	10332.7
7.5°	8719.5	8750.6	8801.1	8921.6	9061.5	9252.0	9543.6	9870.1	10258.9	10332.7
10°	8334.6	8369.6	8431.8	8529.0	8738.9	9003.2	9384.2	9804.0	10325.0	10441.6
12.5°	8214.1	8249.1	8284.1	8357.9	8552.3	8863.3	9318.1	9835.1	10484.3	10601.0
15°	8494.0	8536.7	8509.5	8490.1	8591.2	8875.0	9349.2	9947.9	10682.6	10849.8
17.5°	9139.3	9154.8	9092.6	8909.9	8894.4	9046.0	9496.9	10103.4	10931.4	11114.1
20°	10181.1	10153.9	10025.6	9664.1	9458.1	9427.0	9749.6	10336.6	11188.0	11382.3
22.5°	11596.1	11565.0	11308.5	10737.0	10278.3	9975.1	10115.0	10639.8	11475.6	11693.3
25°	13361.0	13318.3	12941.2	12163.7	11452.3	10702.0	10612.6	11040.2	11829.4	12031.5
27.5°	15421.3	15386.4	14978.2	13951.9	12925.6	11697.2	11230.7	11510.6	12198.7	12428.0
30°	17637.2	17738.2	17015.2	15911.2	14612.8	12995.6	12062.6	12089.8	12676.8	12882.9
32.5°	20241.7	20416.7	19545.9	18146.4	16373.8	14406.7	13112.2	12898.4	13372.7	13543.7
35°	22823.0	23021.2	22298.2	20751.0	18710.1	16070.5	14208.5	13827.5	14297.9	14484.5
37.5°	25054.3	25318.7	24945.5	23600.5	21209.7	18076.4	15639.0	14919.9	15436.9	15670.1
40°	26815.3	27219.6	27192.4	26352.7	24156.4	20510.0	17454.5	16268.8	16851.9	17104.6
42.5°	28245.9	28595.8	28899.0	28856.2	27231.3	23273.9	19588.7	18022.0	18465.2	18756.7
45°	29233.3	29606.5	30259.6	30963.2	30189.6	26232.2	22033.8	20101.8	20506.1	20945.4
47.5°	30115.8	30539.5	31386.9	32502.6	32700.9	29202.2	24712.3	22523.6	22892.9	23347.8
50°	30193.5	30558.9	31872.9	33455.0	34485.2	32055.6	27588.9	25240.9	25586.9	26072.8
52.5°	28315.9	28891.2	31184.8	33427.8	35305.4	34442.4	30446.2	28067.1	28455.8	29038.9
55°	21979.4	22823.0	29167.2	32386.0	35013.9	35985.7	33163.5	31072.1	31569.6	32180.0
57.5°	18931.7	19301.0	23153.4	30488.9	33684.4	36386.1	35457.1	34108.1	34908.9	35577.6
60°	17015.2	17322.3	19600.3	27538.4	31935.1	35752.5	37229.7	36938.2	38322.1	39119.0
62.5°	14962.6	15254.2	17326.2	22994.0	29695.9	34699.0	38349.3	39550.5	41820.7	42691.5
65°	12925.6	13174.4	15160.9	19320.4	26850.3	33645.5	38928.5	41809.1	45059.0	45960.8
67.5°	10655.4	10861.4	12739.0	16299.9	23390.5	32203.3	39216.2	43585.6	47877.3	48650.9
70°	7689.3	7848.7	9788.5	12890.6	19048.3	29723.1	39099.6	44845.1	49339.0	49957.1
72.5°	3634.7	3778.6	6056.6	8369.6	13454.3	24895.0	36739.9	43846.1	47854.0	47546.9
75°	1939.8	2064.2	3479.2	4591.0	7106.2	17065.7	30065.2	37770.1	40184.1	38691.4
77.5°	1313.9	1411.1	2153.6	2756.2	3246.0	8101.4	19324.3	26150.6	25159.3	22694.7
80°	1041.8	1142.9	1764.9	1866.0	1570.5	2927.2	7984.7	12105.4	8696.1	6954.6
82.5°	800.8	913.5	1485.0	1352.8	855.2	1201.2	2324.7	3829.1	2227.5	1694.9
85°	489.8	610.3	1166.2	863.0	482.0	548.1	789.1	1065.1	680.3	567.6
87.5°	248.8	349.9	590.9	314.9	217.7	128.3	209.9	209.9	178.8	155.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956083
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10589.3	0°	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3	10589.3
10534.9	2.5°	10628.2	10705.9	10838.1	10962.5	11059.7	11153.0	11246.3	11296.8	11312.4	11374.6
10593.2	5°	10752.6	10896.4	11153.0	11394.0	11545.6	11638.9	11705.0	11743.9	11751.6	11771.1
10752.6	7.5°	10981.9	11211.3	11568.9	11809.9	11922.7	11914.9	11887.7	11790.5	11751.6	11716.6
10985.8	10°	11304.6	11607.8	12047.1	12214.2	12144.3	11957.7	11716.6	11432.9	11300.7	11172.4
11304.6	12.5°	11705.0	12089.8	12521.3	12513.6	12167.6	11689.4	11129.7	10694.3	10418.3	10220.0
11697.2	15°	12190.9	12634.1	12964.5	12700.2	11942.1	11083.0	10262.8	9695.2	9446.4	9228.7
12093.7	17.5°	12692.4	13166.7	13318.3	12641.9	11374.6	10185.0	9255.9	8808.9	8564.0	8447.3
12521.3	20°	13182.2	13652.6	13528.2	12307.5	10511.6	9166.5	8338.5	8093.6	8043.0	8070.3
12937.3	22.5°	13699.2	14119.1	13570.9	11662.2	9411.4	8124.7	7669.9	7677.6	7790.4	7872.0
13372.7	25°	14227.9	14511.7	13458.2	10729.2	8229.6	7358.9	7246.1	7370.5	7592.1	7751.5
13862.5	27.5°	14737.2	14861.6	13213.3	9574.7	7215.0	6810.7	6830.2	7086.7	7421.1	7642.6
14457.3	30°	15312.5	15172.6	12742.9	8276.3	6511.4	6340.4	6503.6	6803.0	7137.3	7335.5
15207.5	32.5°	15961.7	15440.8	11996.5	7075.1	6013.8	5963.3	6231.5	6425.9	6573.6	6631.9
16202.7	35°	16770.3	15817.9	11040.2	6231.5	5566.8	5687.3	5943.8	5846.7	5788.4	5757.3
17540.0	37.5°	17819.9	16327.1	9920.7	5683.4	5205.2	5489.0	5594.0	5290.8	5061.4	4948.7
19161.0	40°	19083.3	17073.5	8843.9	5259.7	4975.9	5318.0	5135.3	4769.9	4478.3	4318.9
20984.2	42.5°	20486.6	17854.9	7938.1	4940.9	4847.6	5178.0	4797.1	4361.7	3891.3	3840.8
23157.3	45°	21960.0	18659.6	7320.0	4696.0	4785.4	5057.5	4602.7	3899.1	3564.8	3770.8
25338.1	47.5°	23433.3	19398.2	6946.8	4513.3	4754.3	4921.5	4431.6	3642.5	3405.4	3704.7
27674.5	50°	25073.8	20059.0	6779.6	4381.1	4719.3	4867.0	4175.1	3576.4	3238.2	3436.5
30092.4	52.5°	26702.6	20572.2	6655.2	4248.9	4668.8	4824.3	4050.7	3498.7	3036.1	3047.7
32525.9	55°	28327.5	20906.5	6519.2	4074.0	4556.0	4731.0	4039.0	3413.1	2884.5	2830.0
35099.4	57.5°	30061.3	21097.0	6352.0	3879.6	4361.7	4493.8	4027.4	3347.1	2837.8	2748.4
37731.2	60°	31826.2	21376.9	6134.3	3642.5	4101.2	4210.1	4000.1	3323.7	2810.6	2659.0
40211.4	62.5°	33408.4	21474.0	5873.9	3417.0	3766.9	3930.2	3941.8	3304.3	2736.7	2476.3
42271.7	65°	34446.3	21054.2	5419.0	3160.5	3405.4	3642.5	3829.1	3238.2	2604.6	2344.1
43290.2	67.5°	34403.6	19856.9	4707.7	2830.0	3055.5	3323.7	3665.8	3125.5	2445.2	2180.8
42520.5	70°	32802.0	17493.3	3805.8	2445.2	2670.6	2981.6	3455.9	2958.3	2254.7	2002.0
37808.9	72.5°	28133.2	13691.5	2763.9	1994.2	2223.6	2627.9	3183.8	2756.2	2060.3	1842.6
27942.7	75°	20097.9	8665.0	1873.7	1531.6	1729.9	2227.5	2845.6	2519.0	1881.5	1850.4
13994.7	77.5°	10266.6	4140.1	1240.1	1119.6	1205.1	1757.1	2390.8	2250.8	1908.7	1527.8
3980.7	80°	3339.3	1527.8	781.4	761.9	800.8	1170.1	1850.4	1846.5	1446.1	1037.9
964.1	82.5°	1065.1	657.0	509.3	489.8	470.4	734.7	1290.6	1461.7	975.7	657.0
346.0	85°	423.7	392.6	299.3	276.0	198.3	346.0	676.4	971.9	726.9	474.3
89.4	87.5°	155.5	155.5	81.6	58.3	42.8	116.6	182.7	291.6	416.0	244.9
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>
10589.3
11409.5
11802.2
11724.4
11133.5
10173.3
9205.4
8482.3
8058.6
7891.4
7794.3
7697.1
7382.2
6663.0
5788.4
4975.9
4330.6
3891.3
3879.6
3844.6
3584.2
3129.4
2868.9
2760.1
2670.6
2476.3
2344.1
2192.5
2025.3
1831.0
1745.4
1360.6
917.4
653.1
485.9
241.0
0.0

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