

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: P944575

Luminaire Tested: **GALN-SB9C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60732 lumens
Efficiency: N/A
Efficacy: 135.0 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

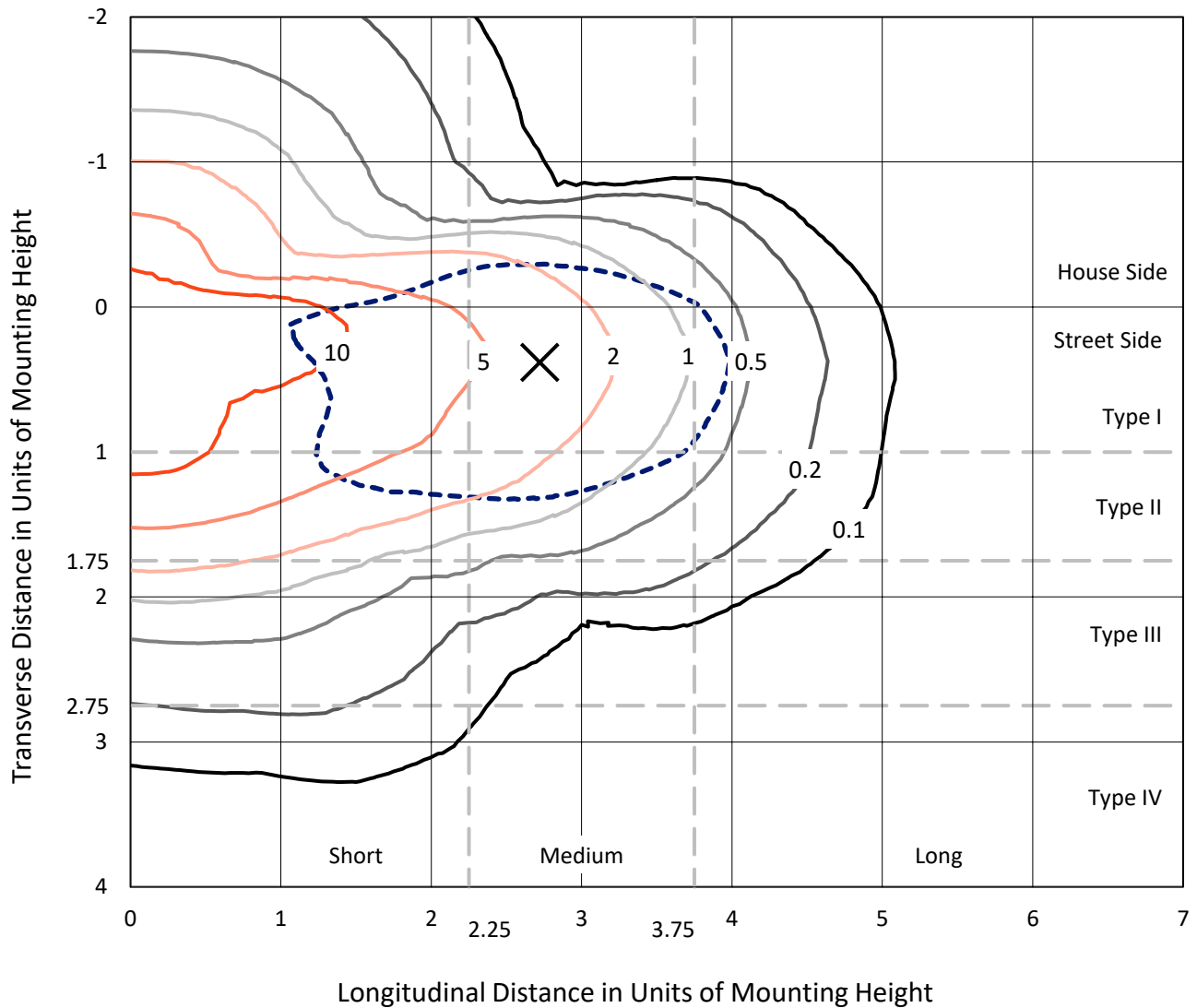
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

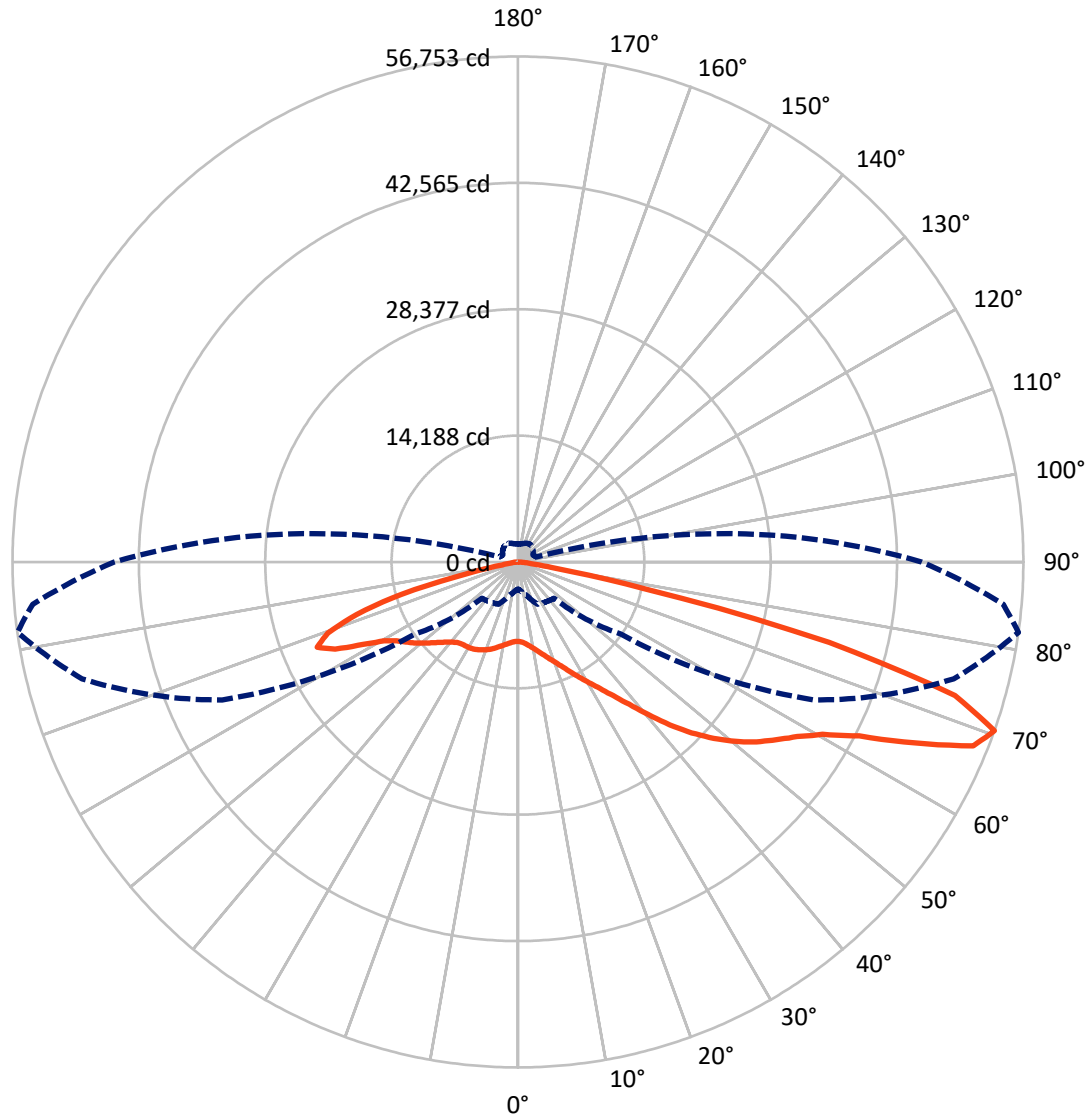
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14971.9	0.0	14971.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	45760.1	0.0	45760.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	60732.0	0.0	60732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	840.7	1.4
10°-20°	2415.4	4.0
20°-30°	4040.7	6.7
30°-40°	6312.6	10.4
40°-50°	10053.6	16.6
50°-60°	13990.8	23.0
60°-70°	14635.0	24.1
70°-80°	7649.0	12.6
80°-90°	794.3	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°	60732.0	100.0
0°-180°	60732.0	100.0

Coefficient of Utilization



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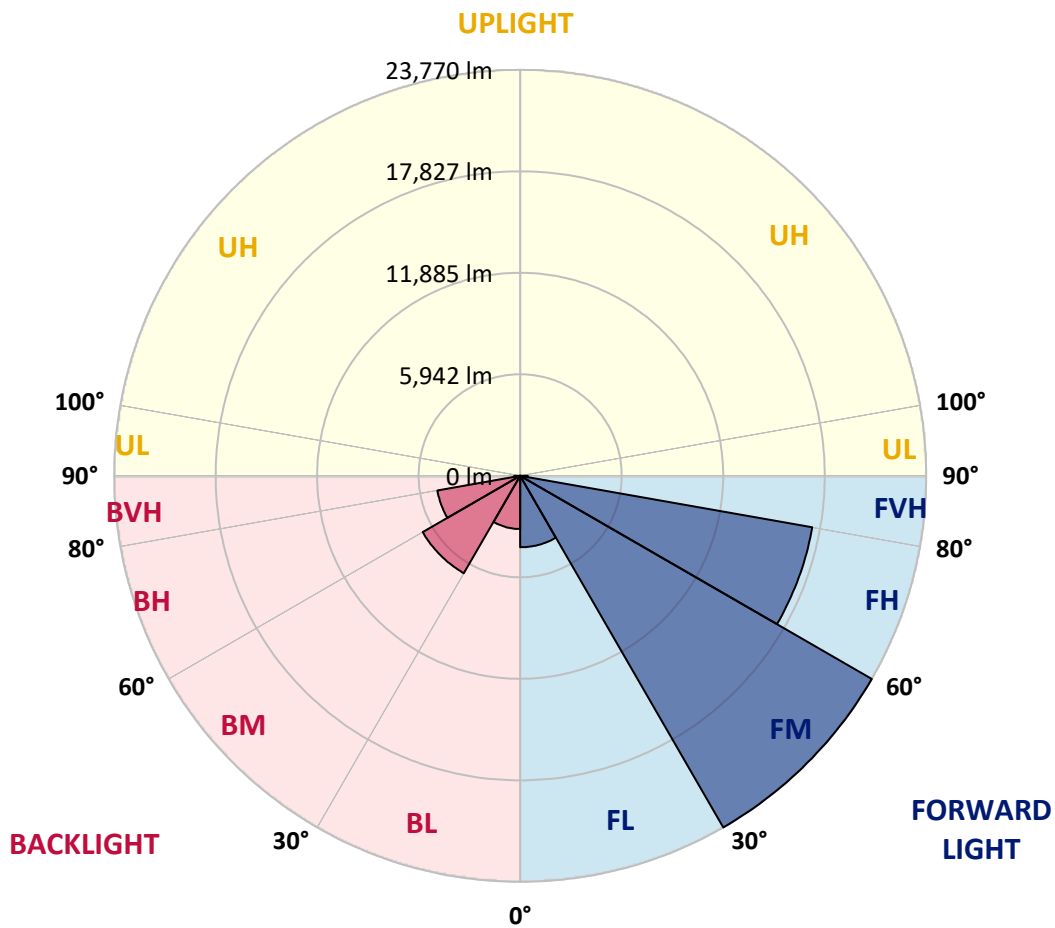
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4182.1	6.9			
FM (30°-60°)	23769.9	39.1			
FH (60°-80°)	17363.5	28.6			G5
FVH (80°-90°)	444.6	0.7			G3/500
BL (0°-30°)	3114.7	5.1	B4/5000		
BM (30°-60°)	6587.1	10.8	B4/8500		
BH (60°-80°)	4920.5	8.1	B4/5000		G4/5000
BVH (80°-90°)	349.6	0.6			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°	82°
0°	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1
2.5°	9116.8	9168.3	9152.2	9136.1	9136.1	9113.5	9110.3	9078.1	9052.3	9010.4
5°	9232.8	9287.6	9281.1	9294.0	9335.9	9345.6	9355.2	9335.9	9284.3	9232.8
7.5°	9129.7	9190.9	9210.2	9287.6	9416.5	9532.5	9619.5	9654.9	9606.6	9532.5
10°	8781.6	8849.3	8917.0	9100.6	9329.5	9603.4	9835.4	9974.0	9964.3	9893.4
12.5°	8075.9	8146.8	8291.8	8649.5	9068.4	9551.8	9983.6	10273.7	10373.6	10322.0
15°	7511.9	7573.1	7682.7	8050.1	8594.7	9329.5	10038.4	10602.4	10857.0	10828.0
17.5°	7495.8	7521.6	7589.2	7763.3	8182.2	8981.4	9980.4	10924.6	11411.3	11408.0
20°	7779.4	7789.0	7827.7	7863.2	8101.6	8717.2	9832.2	11192.1	12033.2	12033.2
22.5°	8172.5	8166.1	8204.8	8172.5	8288.6	8694.6	9738.7	11427.4	12726.1	12777.6
25°	8762.3	8730.0	8720.4	8646.3	8668.8	8904.1	9841.9	11694.9	13547.9	13654.2
27.5°	9548.6	9497.0	9461.6	9290.8	9232.8	9335.9	10157.7	12017.1	14463.1	14646.8
30°	10573.4	10479.9	10428.4	10131.9	9922.4	9938.5	10634.6	12445.7	15420.2	15716.7
32.5°	11972.0	11827.0	11688.4	11201.8	10818.3	10692.6	11250.1	13038.7	16457.9	16931.6
35°	13538.2	13422.2	13273.9	12523.1	11933.3	11643.3	12081.6	13866.9	17672.8	18423.7
37.5°	15046.4	14946.5	15017.4	14005.5	13244.9	12822.8	13170.8	14978.7	19171.3	20279.9
40°	16606.1	16528.8	16538.4	15571.7	14685.4	14211.7	14492.1	16374.1	20889.0	22487.4
42.5°	18301.2	18243.2	18049.8	17192.6	16196.8	15755.3	16013.1	17985.4	22732.3	25001.0
45°	20199.3	20163.9	19983.4	19000.5	17859.7	17363.4	17711.5	19764.3	24585.3	27366.4
47.5°	21839.6	21868.6	21846.1	21017.9	19835.2	19106.9	19522.6	21620.5	26309.4	29590.0
50°	22629.2	22780.6	23003.0	22745.2	22010.4	21269.2	21349.8	23412.3	27952.9	31675.0
52.5°	22216.7	22503.5	23109.3	23521.8	23805.4	23650.7	23434.8	25191.1	29499.8	33557.0
55°	20679.5	21082.3	22087.8	23083.6	24530.5	25655.2	25938.8	27163.4	31008.0	35213.5
57.5°	17879.0	18533.2	19435.6	21449.7	23886.0	26625.2	28858.5	29899.4	32606.4	36982.7
60°	13077.4	13953.9	15075.4	18072.4	21630.2	26106.4	31343.1	34101.7	34878.3	39273.9
62.5°	8369.1	8910.5	9941.8	12764.8	16854.2	23447.7	32103.6	39354.5	38729.3	43031.5
65°	5729.8	6077.8	7022.1	8607.6	10895.6	17453.7	30066.9	43292.5	44845.8	48986.9
67.5°	4163.6	4427.9	5233.5	6622.5	7099.4	10328.5	23331.7	43112.1	50791.6	55122.7
70°	3035.7	3222.6	3899.4	5233.5	5462.3	5745.9	14134.4	36647.5	50662.6	56753.4
72.5°	2249.4	2378.3	2832.7	4060.5	4421.4	3880.0	6996.3	26634.9	43534.2	51333.0
75°	1627.4	1724.1	2059.2	3106.6	3538.4	2955.1	3490.1	15565.2	30366.7	36109.3
77.5°	1243.9	1318.0	1537.2	2275.2	2832.7	2217.2	2165.6	7160.6	14398.6	14469.5
80°	999.0	1047.3	1166.6	1601.6	2172.0	1659.6	1411.5	2890.7	4550.3	3851.0
82.5°	734.8	815.3	986.1	1124.7	1553.3	1144.0	860.4	1459.8	1730.5	1488.8
85°	418.9	473.7	596.2	805.7	992.6	699.3	493.1	647.7	805.7	660.6
87.5°	148.2	193.4	209.5	315.8	431.8	290.0	190.1	186.9	264.3	196.6
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°
8904.1	0°	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1	8904.1
9000.7	2.5°	8968.5	8952.4	8888.0	8800.9	8710.7	8623.7	8594.7	8533.5	8491.6	8469.0
9210.2	5°	9149.0	9097.4	8946.0	8752.6	8549.6	8330.4	8175.8	8034.0	7930.8	7834.2
9497.0	7.5°	9406.8	9316.6	9055.5	8717.2	8356.2	7992.1	7721.4	7515.1	7376.6	7286.3
9832.2	10°	9706.5	9567.9	9168.3	8662.4	8104.9	7582.8	7263.8	7086.5	6999.5	6951.2
10215.7	12.5°	10051.3	9854.7	9284.3	8536.7	7721.4	7125.2	6906.1	6854.5	6857.7	6860.9
10699.1	15°	10476.7	10202.8	9377.8	8262.8	7221.9	6773.9	6735.3	6819.0	6906.1	6947.9
11246.9	17.5°	10956.9	10570.2	9393.9	7811.6	6732.0	6548.3	6670.8	6851.3	6983.4	7041.4
11859.2	20°	11472.5	10944.0	9277.9	7173.5	6329.2	6364.7	6583.8	6815.8	6960.8	7035.0
12558.5	22.5°	12062.2	11343.6	9000.7	6503.2	6000.5	6164.9	6422.7	6648.2	6799.7	6873.8
13380.3	25°	12735.8	11791.5	8565.7	5939.3	5716.9	5939.3	6197.1	6384.0	6506.4	6574.1
14298.7	27.5°	13483.4	12258.8	7985.6	5491.3	5468.8	5707.2	5919.9	6065.0	6129.4	6181.0
15275.2	30°	14234.3	12684.2	7283.1	5153.0	5252.9	5478.4	5629.9	5694.4	5713.7	5723.4
16364.4	32.5°	15046.4	13051.6	6545.1	4872.6	5046.6	5256.1	5346.3	5375.3	5285.1	5223.9
17685.7	35°	16029.3	13444.7	5823.3	4650.2	4843.6	5024.0	5053.1	5027.3	4920.9	4795.2
19342.1	37.5°	17244.2	13934.6	5246.4	4492.3	4653.4	4772.7	4737.2	4730.8	4740.5	4592.2
21333.7	40°	18733.0	14572.6	4824.2	4369.9	4498.8	4524.5	4424.6	4479.4	4527.8	4302.2
23518.6	42.5°	20386.2	15342.8	4556.8	4286.1	4369.9	4308.6	4153.9	4215.2	4208.7	3912.2
25713.2	45°	22071.7	16180.7	4463.3	4224.8	4250.6	4128.2	3957.4	3973.5	3838.1	3570.7
27817.6	47.5°	23747.4	17079.8	4521.3	4173.3	4102.4	3963.8	3831.7	3760.8	3561.0	3361.2
29834.9	50°	25390.9	18024.1	4734.0	4070.2	3899.4	3818.8	3722.1	3596.4	3383.7	3212.9
31742.7	52.5°	26915.2	18974.7	4972.5	3899.4	3644.8	3693.1	3631.9	3486.9	3277.4	3103.4
33547.4	55°	28359.0	19925.4	5065.9	3664.1	3406.3	3583.5	3548.1	3280.6	3029.3	2887.5
35435.8	57.5°	29931.6	21069.4	4962.8	3364.4	3212.9	3457.9	3322.5	3026.0	2881.0	2774.7
37894.7	60°	32110.1	22864.4	4740.5	2993.8	3029.3	3270.9	3038.9	2916.5	2758.6	2639.3
41581.3	62.5°	35729.1	26212.7	4382.7	2626.4	2813.3	2993.8	2903.6	2781.1	2620.0	2504.0
47884.8	65°	41078.6	30866.2	3709.2	2339.6	2571.6	2723.1	2758.6	2636.1	2468.5	2346.1
53408.3	67.5°	45590.3	33785.8	2806.9	2101.1	2323.5	2504.0	2603.9	2484.6	2307.4	2188.2
54700.6	70°	45342.1	31665.4	2143.0	1865.9	2104.4	2288.1	2417.0	2323.5	2133.4	2020.6
49686.2	72.5°	40273.0	26489.9	1733.8	1627.4	1882.0	2062.5	2217.2	2146.3	1952.9	1843.3
36399.4	75°	29586.8	18803.9	1385.7	1385.7	1604.9	1827.2	1998.0	1952.9	1775.7	1698.3
15281.6	77.5°	12471.5	7888.9	1086.0	1150.5	1334.2	1569.4	1782.1	1798.2	1643.5	1740.2
4041.2	80°	3316.1	2175.3	828.2	905.6	1047.3	1295.5	1550.1	1543.6	1376.1	1285.8
1501.7	82.5°	1263.3	857.2	589.7	638.1	757.3	992.6	1227.8	1266.5	1098.9	950.7
589.7	85°	486.6	367.4	364.2	383.5	441.5	657.4	928.1	960.3	828.2	702.5
164.4	87.5°	125.7	109.6	135.3	128.9	203.0	351.3	531.7	551.1	505.9	293.3
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>
8904.1
8494.8
7872.8
7305.7
6964.1
6867.4
6944.7
7054.3
7054.3
6893.2
6593.5
6200.3
5745.9
5243.2
4801.7
4601.9
4308.6
3909.0
3580.3
3361.2
3200.1
3106.6
2874.6
2765.0
2632.9
2504.0
2352.5
2191.4
2030.2
1843.3
1675.8
1579.1
1195.6
950.7
725.1
418.9
0.0

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