

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: P942539

Luminaire Tested: **GALN-SB6C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40333 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

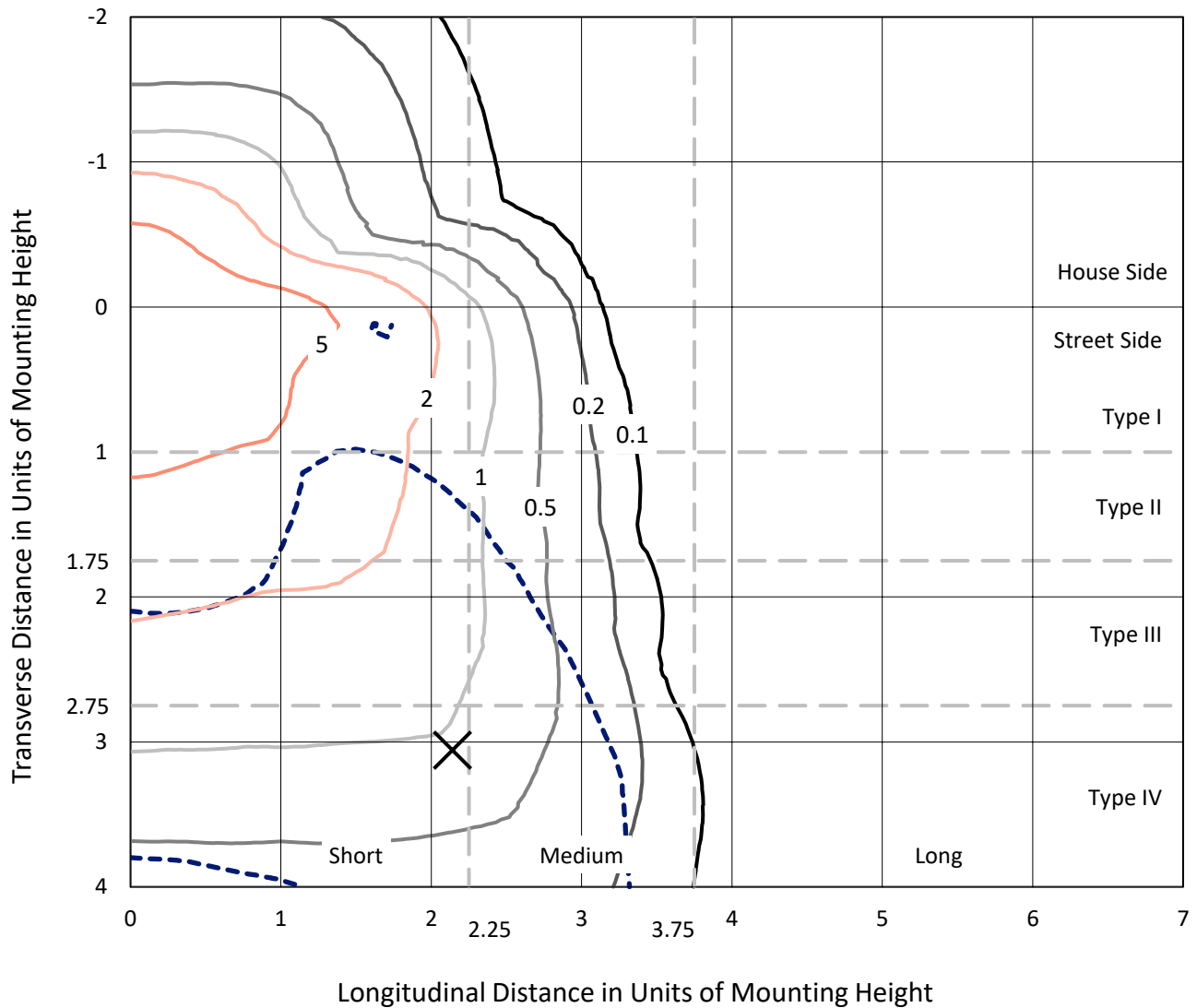
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

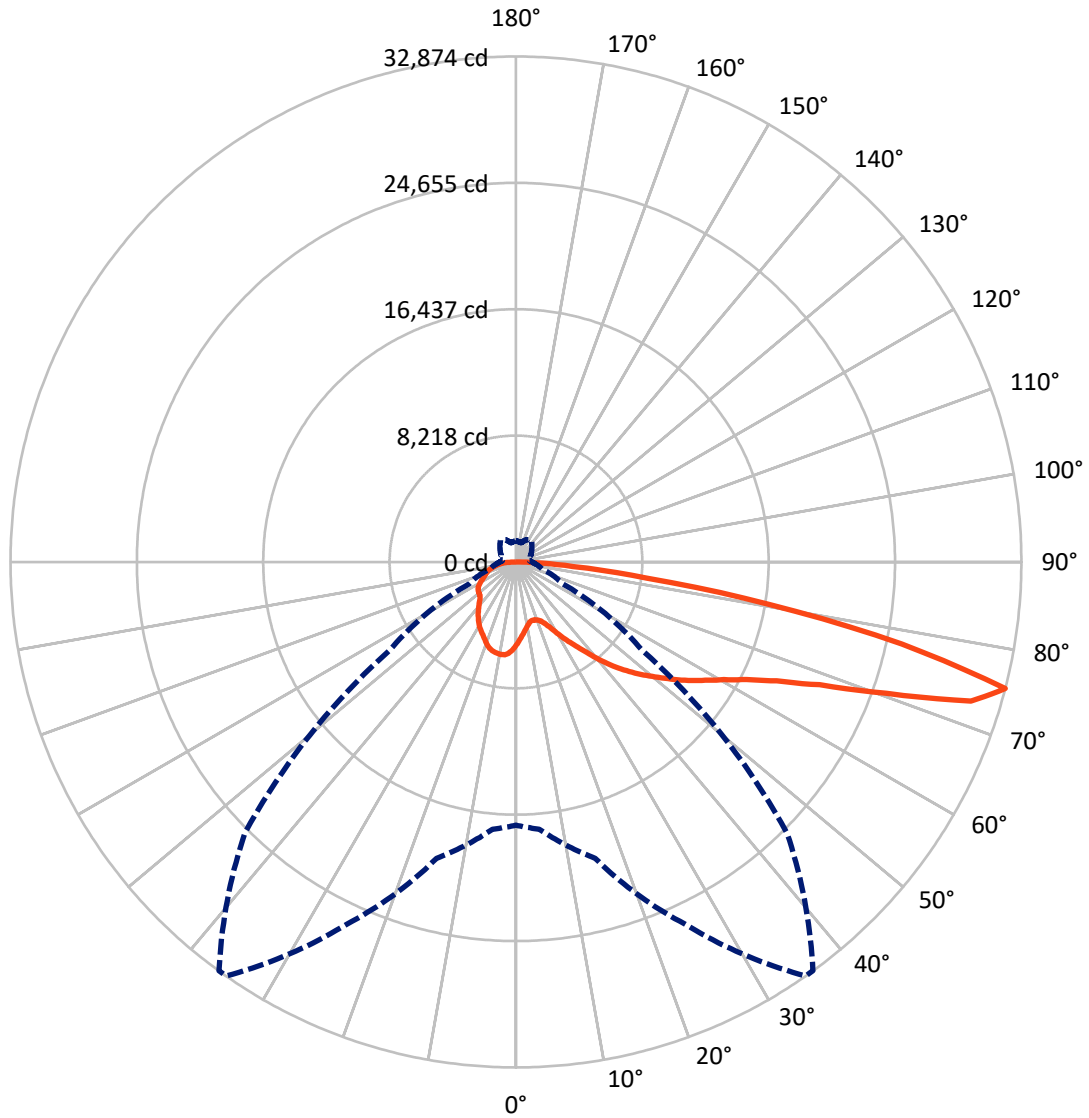
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9598.2	0.0	9598.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	30734.8	0.0	30734.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	40333.0	0.0	40333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.9	1.3
10°-20°	1467.8	3.6
20°-30°	2464.8	6.1
30°-40°	3830.7	9.5
40°-50°	5685.8	14.1
50°-60°	7849.5	19.5
60°-70°	9523.3	23.6
70°-80°	7870.3	19.5
80°-90°	1132.0	2.8
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°	40333.0	100.0
0°-180°	40333.0	100.0

Coefficient of Utilization



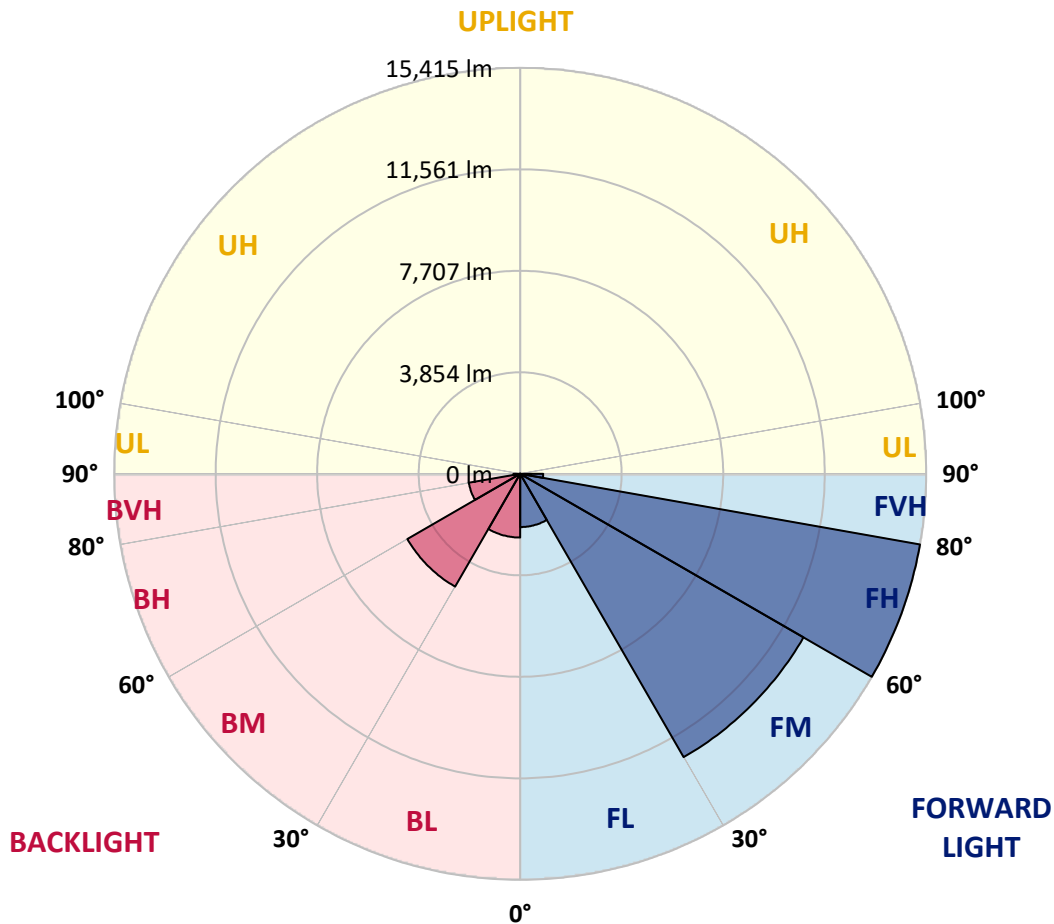
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2022.6	5.0			
FM (30°-60°)	12420.4	30.8			
FH (60°-80°)	15414.7	38.2			G5
FVH (80°-90°)	877.1	2.2			G5
BL (0°-30°)	2418.9	6.0	B3/2500		
BM (30°-60°)	4945.6	12.3	B3/5000		
BH (60°-80°)	1978.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	254.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6
2.5°	4956.0	4986.5	4999.6	4993.1	5025.8	5021.4	5067.2	5123.9	5202.4	5278.7
5°	4574.4	4607.2	4635.5	4661.7	4724.9	4744.5	4816.5	4925.5	5069.4	5215.5
7.5°	4219.0	4247.4	4291.0	4339.0	4445.8	4465.4	4585.3	4755.4	4956.0	5169.7
10°	3929.1	3957.4	4003.2	4057.7	4190.7	4214.7	4367.3	4594.1	4855.7	5126.1
12.5°	3804.8	3813.5	3839.7	3894.2	4009.7	4025.0	4192.9	4452.3	4757.6	5093.4
15°	3798.2	3815.7	3817.9	3846.2	3942.1	3948.7	4103.5	4360.8	4696.5	5086.8
17.5°	3863.6	3876.7	3857.1	3874.5	3955.2	3966.1	4088.2	4317.2	4676.9	5115.2
20°	4038.1	4049.0	3990.1	3966.1	4025.0	4033.7	4153.6	4345.5	4696.5	5174.0
22.5°	4408.7	4415.3	4271.4	4173.3	4177.6	4182.0	4286.6	4461.1	4772.9	5280.9
25°	4986.5	4982.2	4753.2	4563.5	4454.5	4430.5	4500.3	4648.6	4901.5	5422.6
27.5°	5662.5	5629.7	5400.8	5117.4	4879.7	4844.8	4829.5	4892.8	5084.7	5610.1
30°	6425.6	6395.1	6148.7	5778.0	5448.8	5392.1	5248.2	5215.5	5357.2	5865.2
32.5°	7262.9	7243.2	6948.9	6499.7	6059.3	5993.9	5751.9	5664.6	5775.8	6251.2
35°	7964.9	7947.5	7703.3	7241.1	6702.5	6621.8	6375.4	6277.3	6334.0	6746.1
37.5°	8599.4	8590.7	8381.4	8017.3	7461.3	7363.2	7086.2	7053.5	7042.6	7398.0
40°	9188.1	9166.3	8948.3	8756.4	8344.3	8254.9	8010.7	7982.4	7899.5	8200.4
42.5°	9840.1	9783.4	9467.2	9377.8	9266.6	9192.5	9046.4	9050.8	8867.6	9105.3
45°	10372.1	10339.4	10014.5	9962.2	10082.1	10051.6	10178.0	10210.7	9855.3	10053.7
47.5°	10943.3	10912.8	10638.1	10601.0	10925.9	10934.6	11381.6	11392.5	10819.1	11039.3
50°	11647.6	11604.0	11331.5	11377.2	11741.4	11774.1	12591.7	12517.6	11706.5	12040.1
52.5°	12112.0	12138.2	12079.3	12153.5	12650.6	12681.1	13782.2	13592.5	12585.2	13027.8
55°	12454.4	12506.7	12689.8	12859.9	13610.0	13640.5	14905.1	14615.1	13313.4	13943.6
57.5°	12894.8	12820.7	13163.0	13494.4	14521.4	14602.0	15997.5	15600.6	13958.8	14732.9
60°	13527.1	13474.8	13740.8	14231.4	15541.8	15670.4	17153.1	16488.1	14432.0	15358.6
62.5°	14809.2	14678.3	14719.8	15153.7	16828.2	16998.3	18456.9	17262.1	14667.4	15602.8
65°	16725.7	16501.1	16291.8	16592.7	18640.1	18808.0	19928.7	17870.4	14580.2	15129.7
67.5°	19139.4	18917.0	18659.7	18943.2	21308.9	21441.9	21745.0	18212.7	13893.4	13306.9
70°	21130.1	21047.2	21354.7	22521.2	25571.5	25575.9	24073.6	17929.3	12011.7	9434.5
72.5°	20866.3	20816.1	22436.1	26042.5	30944.0	30828.4	26278.0	15783.8	8091.4	4256.1
75°	17118.2	17443.1	19952.7	25979.3	32873.6	32858.4	24928.3	10034.1	3346.9	1763.9
77.5°	9179.4	9694.0	12953.7	19180.8	25663.1	26049.0	17525.9	3510.4	1436.9	1129.4
80°	2993.7	3442.8	5163.1	9765.9	16675.6	16603.6	7511.4	1378.0	983.4	800.2
82.5°	1271.2	1323.5	2306.8	4611.5	8558.0	8425.0	2391.9	791.5	691.2	547.3
85°	497.1	556.0	1018.2	2132.4	3706.7	3626.0	863.4	392.5	442.6	357.6
87.5°	163.5	198.4	364.1	730.4	1153.4	1112.0	211.5	135.2	191.9	163.5
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°
5374.6	0°	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6	5374.6
5389.9	2.5°	5420.4	5455.3	5496.7	5557.8	5610.1	5653.7	5699.5	5727.9	5738.8	5771.5
5398.6	5°	5459.7	5536.0	5638.5	5738.8	5836.9	5895.8	5948.1	5974.3	5998.2	6015.7
5422.6	7.5°	5525.1	5623.2	5784.6	5915.4	5998.2	6046.2	6081.1	6072.4	6081.1	6085.5
5448.8	10°	5581.8	5719.1	5911.0	6035.3	6098.5	6100.7	6092.0	6061.5	6046.2	6048.4
5488.0	12.5°	5649.4	5802.0	6009.1	6113.8	6131.2	6083.3	6046.2	5993.9	5974.3	5965.5
5546.9	15°	5740.9	5915.4	6116.0	6155.2	6111.6	6050.6	5987.3	5902.3	5858.7	5823.8
5647.2	17.5°	5852.1	6044.0	6198.8	6170.5	6076.7	5976.4	5874.0	5745.3	5655.9	5618.8
5784.6	20°	6007.0	6179.2	6262.1	6137.8	5996.1	5843.4	5669.0	5512.0	5429.2	5392.1
5959.0	22.5°	6194.5	6360.2	6323.1	6081.1	5880.5	5636.3	5418.3	5302.7	5261.3	5235.1
6183.6	25°	6419.0	6560.8	6366.7	5998.2	5690.8	5361.6	5193.7	5156.6	5137.0	5117.4
6458.3	27.5°	6711.2	6787.5	6399.4	5876.1	5394.3	5069.4	5008.3	5014.9	5008.3	4975.6
6839.9	30°	7097.1	7081.9	6430.0	5677.7	5054.1	4805.6	4809.9	4838.3	4842.6	4820.8
7371.9	32.5°	7605.2	7450.4	6445.2	5420.4	4729.3	4574.4	4578.8	4609.3	4631.1	4594.1
8067.4	35°	8220.0	7879.9	6421.2	5097.7	4478.5	4354.2	4321.5	4330.2	4336.8	4301.9
8911.2	37.5°	8937.4	8361.8	6314.4	4740.2	4271.4	4138.4	4068.6	4009.7	3974.8	3942.1
9866.2	40°	9724.5	8887.2	6118.2	4391.3	4040.3	3909.4	3804.8	3693.6	3575.8	3532.2
10877.9	42.5°	10548.7	9428.0	5880.5	4057.7	3774.2	3667.4	3556.2	3394.9	3218.2	3128.9
11928.9	45°	11403.4	9981.8	5647.2	3728.5	3501.7	3455.9	3327.3	3133.2	2941.3	2828.0
12982.0	47.5°	12240.7	10505.1	5304.9	3397.0	3246.6	3296.7	3196.4	3017.7	2804.0	2625.2
14026.4	50°	13040.9	10995.7	4744.5	3061.3	3039.5	3248.8	3152.8	2895.5	2651.3	2422.4
15051.2	52.5°	13834.5	11392.5	4027.2	2756.0	2928.3	3235.7	3096.1	2812.7	2514.0	2274.1
16014.9	55°	14508.3	11597.5	3336.0	2494.4	2766.9	3124.5	3028.6	2714.6	2319.9	2064.8
16675.6	57.5°	14892.0	11431.8	2760.4	2237.1	2544.5	2941.3	2913.0	2505.3	2088.8	1892.6
16804.2	60°	14726.3	10760.2	2289.4	2012.5	2333.0	2742.9	2712.4	2298.1	1912.2	1726.9
16115.2	62.5°	13812.7	9480.3	1916.6	1816.3	2141.1	2540.1	2511.8	2139.0	1777.0	1598.2
14285.9	65°	11972.5	7712.0	1626.6	1652.7	1947.1	2295.9	2337.4	2006.0	1670.2	1495.7
11052.4	67.5°	9131.4	5586.1	1399.8	1511.0	1757.4	2056.1	2176.0	1910.0	1580.8	1415.1
6395.1	70°	5204.6	3172.5	1207.9	1373.6	1589.5	1833.7	2051.7	1833.7	1484.8	1347.5
2396.2	72.5°	1973.2	1456.5	1044.4	1236.3	1428.2	1646.2	1914.4	1713.8	1373.6	1271.2
1238.5	75°	1053.1	887.4	878.7	1074.9	1242.8	1463.0	1742.1	1596.0	1290.8	1343.1
856.9	77.5°	717.3	628.0	734.8	920.1	1040.0	1260.3	1559.0	1417.2	1118.5	1114.2
593.1	80°	497.1	444.8	597.4	741.3	804.6	1059.7	1360.6	1216.7	911.4	850.3
366.3	82.5°	298.7	290.0	447.0	553.8	569.1	817.6	1127.3	1020.4	745.7	649.8
218.0	85°	163.5	172.3	285.6	324.9	331.4	571.3	883.1	789.3	573.4	481.9
78.5	87.5°	45.8	58.9	104.7	128.6	159.2	296.5	525.5	468.8	287.8	200.6
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>
5374.6
5769.3
6020.0
6092.0
6052.7
5961.2
5834.7
5621.0
5387.7
5239.5
5117.4
4982.2
4831.7
4611.5
4325.9
3963.9
3551.8
3139.8
2819.2
2605.6
2402.8
2248.0
2043.0
1866.4
1700.7
1569.9
1467.4
1388.9
1330.0
1253.7
1386.7
1027.0
813.3
654.1
486.2
200.6
0.0

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