

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: P956115

Luminaire Tested: **GALN-SB8D-840-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-840-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76923 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

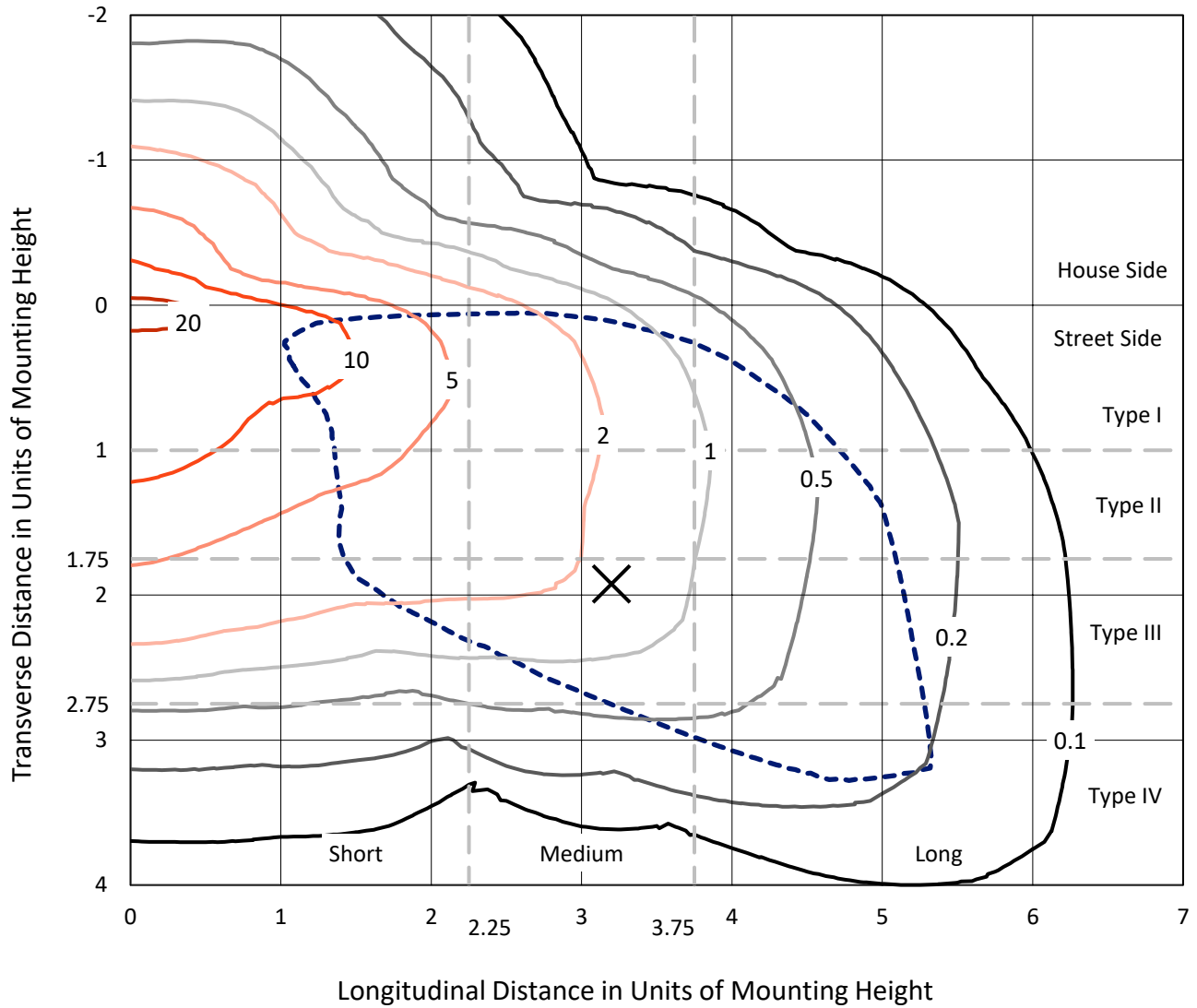
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

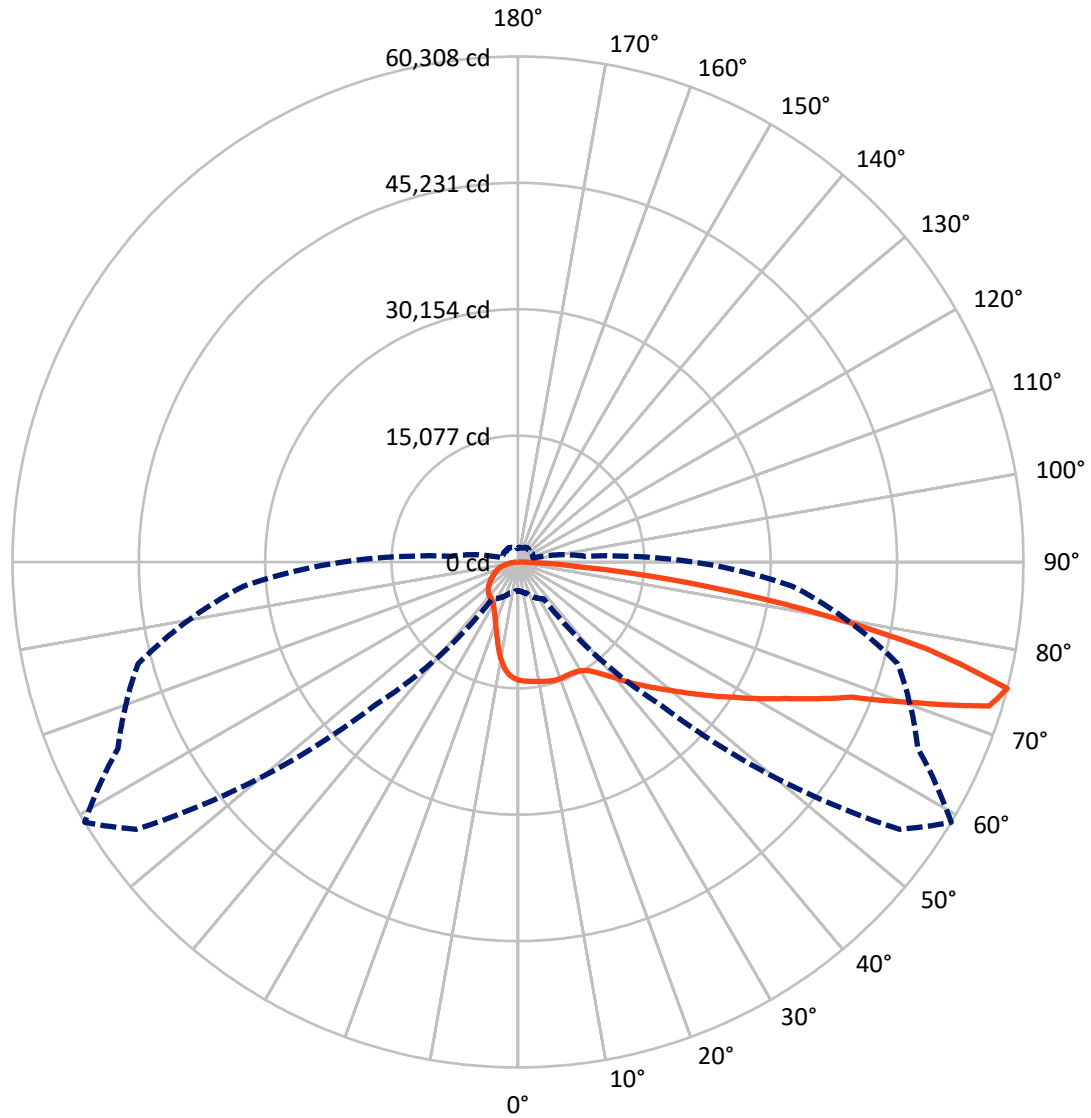
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14427.4	0.0	14427.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	62495.6	0.0	62495.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	76923.0	0.0	76923.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1266.0	1.6
10°-20°	3236.0	4.2
20°-30°	4915.2	6.4
30°-40°	7306.3	9.5
40°-50°	10865.8	14.1
50°-60°	14749.0	19.2
60°-70°	18006.1	23.4
70°-80°	14130.9	18.4
80°-90°	2447.8	3.2
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°	76923.0	100.0
0°-180°	76923.0	100.0



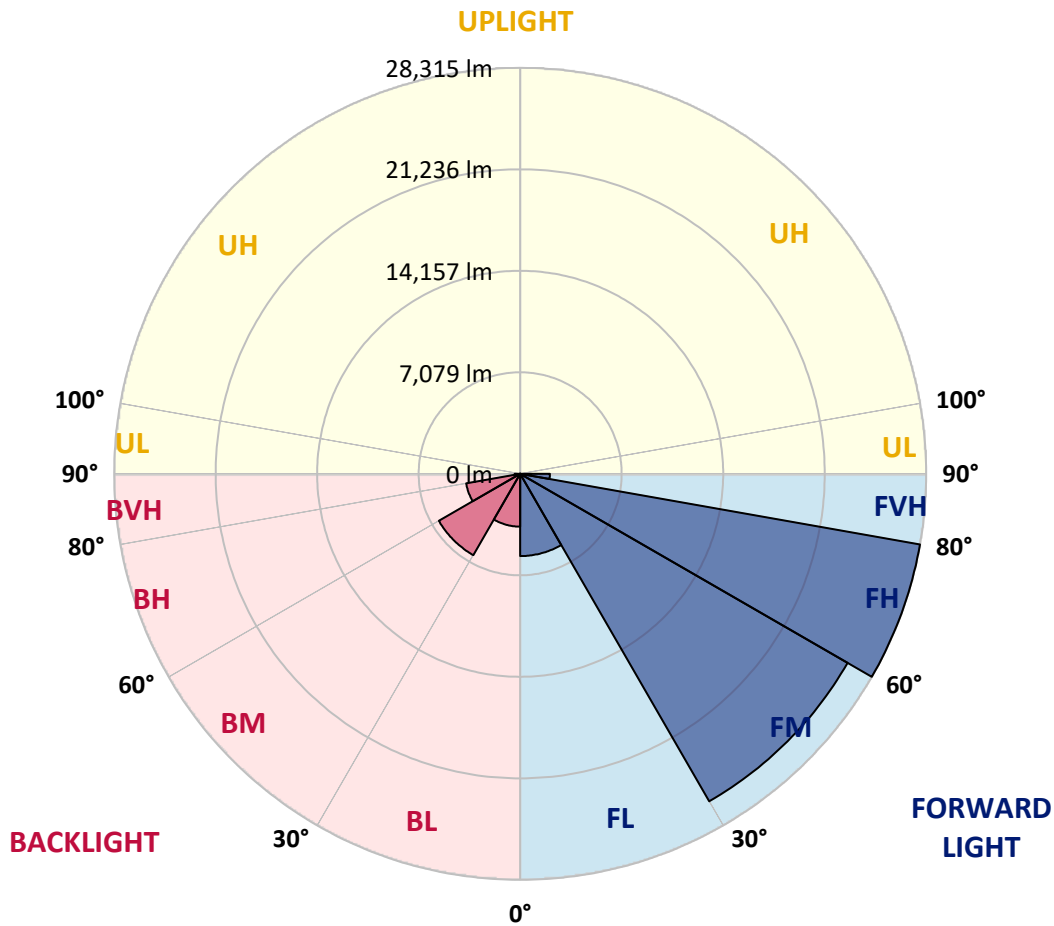
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5735.4	7.5			
FM (30°-60°)	26372.4	34.3			
FH (60°-80°)	28314.6	36.8			G5
FVH (80°-90°)	2073.1	2.7			G5
BL (0°-30°)	3681.7	4.8	B4/5000		
BM (30°-60°)	6548.6	8.5	B4/8500		
BH (60°-80°)	3822.4	5.0	B4/5000		G4/5000
BVH (80°-90°)	374.7	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0
2.5°	14239.0	14189.4	14239.0	14218.4	14210.1	14193.5	14197.7	14226.6	14210.1	14230.8
5°	14143.9	14114.9	14164.6	14152.1	14205.9	14214.2	14268.0	14301.1	14321.8	14325.9
7.5°	13986.6	13957.7	14028.0	14085.9	14201.8	14234.9	14346.6	14400.4	14429.4	14479.1
10°	13411.4	13399.0	13572.8	13792.1	14065.3	14234.9	14404.6	14495.6	14541.1	14673.5
12.5°	12393.5	12410.0	12637.6	13059.7	13605.9	14152.1	14470.8	14603.2	14673.5	14839.1
15°	11421.0	11416.9	11665.2	12116.2	12881.8	13788.0	14503.9	14731.5	14851.5	15095.6
17.5°	10858.3	10841.7	11015.5	11359.0	12070.7	13229.4	14421.1	14801.8	15058.4	15364.6
20°	10754.8	10721.7	10812.7	10982.4	11487.2	12616.9	14205.9	14801.8	15223.9	15621.2
22.5°	11131.4	11077.6	11040.3	11019.6	11243.1	12112.1	13961.8	14752.2	15468.1	15989.4
25°	11888.6	11805.9	11615.5	11429.3	11363.1	11884.5	13746.6	14739.8	15832.2	16486.0
27.5°	13113.5	13010.0	12625.2	12178.3	11776.9	12000.4	13651.4	14814.2	16233.6	17011.5
30°	14632.2	14520.4	14036.3	13349.4	12629.3	12430.7	13771.4	15033.6	16746.7	17710.9
32.5°	15993.6	15869.4	15455.6	14756.3	13783.9	13175.6	14152.1	15451.5	17553.6	18683.3
35°	17201.9	17057.1	16684.6	16039.1	15199.1	14222.5	14839.1	16192.2	18699.9	20264.1
37.5°	18385.4	18215.7	17810.2	17127.4	16539.8	15617.0	15786.7	17144.0	20222.7	22184.1
40°	19709.6	19465.4	18973.0	18298.5	17727.4	17251.6	17032.2	18310.9	21770.3	24327.6
42.5°	20992.4	20760.6	20173.0	19597.8	18881.9	18745.4	18476.4	19676.5	23462.8	26682.2
45°	22374.5	22097.2	21385.5	20657.2	20206.1	19738.5	19875.1	21042.0	25122.1	29082.3
47.5°	23669.7	23359.3	22519.3	21708.2	21460.0	20574.4	21157.9	22544.1	26847.7	31515.4
50°	24369.0	24062.8	23363.5	22631.0	22436.5	21604.8	22548.3	24195.2	28656.0	33940.3
52.5°	24952.5	24621.4	23706.9	23301.4	23243.5	22726.2	24261.4	26082.2	30464.4	36083.8
55°	25573.2	25204.9	24038.0	23673.8	23938.7	23984.2	26293.2	28221.5	32376.1	38173.6
57.5°	26289.1	25821.5	24356.6	23988.3	24617.3	25457.3	28627.1	30439.5	34254.8	40110.2
60°	26963.6	26491.8	24969.0	24489.0	25349.7	27166.3	31304.4	33125.1	36381.8	41835.7
62.5°	27096.0	26707.0	25457.3	25453.2	26342.9	29160.9	34474.1	35835.6	38239.8	43540.6
65°	24803.5	24559.4	23818.6	25415.9	27766.4	32032.7	38003.9	39303.3	40602.6	45030.3
67.5°	18877.8	18910.9	18857.1	21940.0	26616.0	36158.3	43114.4	43015.1	43519.9	46702.1
70°	8632.0	8826.5	10092.7	15145.3	21323.4	36634.2	51564.3	50277.4	47182.1	48866.3
72.5°	4663.6	4812.6	5329.8	7336.8	12819.7	32570.6	57879.0	58793.5	52052.6	50322.9
75°	3422.2	3504.9	3864.9	4663.6	5383.6	24207.6	55615.5	60308.0	52660.9	46925.5
77.5°	2561.5	2598.7	2892.5	3695.3	2755.9	12761.8	44438.6	49946.3	45080.0	38554.3
80°	1858.0	1899.4	2118.7	2772.5	1932.5	4667.7	30514.0	35057.6	30874.0	24575.9
82.5°	1282.8	1299.3	1394.5	1887.0	1349.0	1812.5	17313.6	20557.9	17235.0	8623.7
85°	773.8	794.5	835.9	1100.7	765.5	860.7	7473.3	7729.9	5151.9	2060.8
87.5°	318.6	339.3	372.4	463.5	302.1	240.0	1233.1	1547.6	964.2	604.2
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°
14119.0	0°	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0	14119.0
14160.4	2.5°	14139.7	14110.8	14032.1	13924.6	13825.2	13701.1	13647.3	13601.8	13560.4	13481.8
14272.2	5°	14226.6	14148.0	13937.0	13663.9	13353.5	13014.2	12683.1	12455.5	12261.1	12116.2
14400.4	7.5°	14359.1	14210.1	13825.2	13266.6	12554.9	11826.6	11168.6	10701.0	10349.3	10221.0
14582.5	10°	14495.6	14317.7	13647.3	12662.4	11433.4	10312.0	9438.9	8958.9	8677.5	8586.5
14797.7	12.5°	14657.0	14396.3	13370.1	11822.4	10179.6	8950.6	8189.2	7907.8	7763.0	7713.3
15062.5	15°	14892.9	14462.5	12952.1	10771.4	8983.7	7957.5	7465.1	7270.6	7196.1	7191.9
15335.6	17.5°	15070.8	14474.9	12302.4	9645.8	8065.1	7357.5	6951.9	6877.4	6927.1	7001.6
15604.6	20°	15269.4	14363.2	11450.0	8619.6	7419.5	6831.9	6662.3	6711.9	6831.9	6939.5
15960.5	22.5°	15410.1	14160.4	10419.6	7820.9	6860.9	6529.9	6521.6	6625.0	6691.2	6745.0
16378.4	25°	15534.3	13817.0	9327.2	7150.6	6401.6	6347.8	6438.8	6405.7	6360.2	6405.7
16796.4	27.5°	15625.3	13274.9	8350.6	6563.0	6078.8	6223.6	6169.8	6095.4	6091.2	6116.0
17288.8	30°	15596.3	12550.7	7547.8	6004.3	5851.2	5991.9	5863.6	5851.2	5838.8	5851.2
18029.5	32.5°	15596.3	11727.2	6931.2	5619.5	5706.4	5652.6	5640.2	5611.2	5561.5	5557.4
19035.1	35°	15683.2	10903.8	6401.6	5412.6	5586.4	5458.1	5466.4	5396.0	5292.6	5242.9
20367.5	37.5°	15861.2	10241.7	5876.0	5313.3	5375.3	5371.2	5338.1	5218.1	5036.0	4878.8
22031.0	40°	16291.5	10047.2	5516.0	5267.7	5276.0	5325.7	5238.8	5007.0	4593.2	4336.7
23719.3	42.5°	16966.0	10374.1	5437.4	5156.0	5209.8	5259.5	5089.8	4551.9	4258.1	4105.0
25490.4	45°	17822.6	10945.2	5607.1	4994.6	5052.6	5139.5	4634.6	4378.1	4245.6	4249.8
27245.0	47.5°	18906.8	11545.2	5921.6	4853.9	4825.0	4874.6	4332.5	4175.3	3993.2	4038.7
28929.1	50°	20160.6	12153.5	6219.5	4663.6	4572.6	4411.2	4138.1	3989.1	3757.4	3649.8
30555.4	52.5°	21517.9	12741.1	6339.5	4431.9	4299.4	4113.2	4005.6	3823.6	3542.2	3364.2
32090.6	55°	22804.8	13274.9	6207.1	4154.6	4026.3	3881.5	3864.9	3753.2	3451.1	3202.9
33456.2	57.5°	24021.4	13721.8	5876.0	3873.2	3749.1	3662.2	3773.9	3720.1	3339.4	3020.8
34747.3	60°	25051.8	14028.0	5396.0	3587.7	3500.8	3455.3	3624.9	3608.4	3182.2	2826.3
35905.9	62.5°	25871.1	14148.0	4866.4	3314.6	3293.9	3211.1	3418.0	3418.0	2983.5	2635.9
36923.9	65°	26512.5	14032.1	4328.4	3045.6	3087.0	2962.8	3165.6	3140.8	2772.5	2466.3
38094.9	67.5°	27079.4	13651.4	3732.5	2780.8	2875.9	2718.7	2900.8	2842.8	2540.8	2296.6
39108.8	70°	27331.9	12765.9	3053.9	2515.9	2631.8	2478.7	2635.9	2528.4	2280.1	2114.5
37995.6	72.5°	25304.2	10610.0	2404.2	2238.7	2338.0	2213.9	2350.4	2226.3	1998.7	1924.2
32810.6	75°	20934.4	7961.6	1849.7	1936.6	2011.1	1915.9	2007.0	1915.9	1709.0	1762.8
24236.6	77.5°	15203.2	5375.3	1415.2	1618.0	1651.1	1601.4	1680.1	1576.6	1390.4	1378.0
12079.0	80°	7560.2	3149.1	1109.0	1278.7	1266.2	1233.1	1324.2	1274.5	1117.3	1183.5
3260.8	82.5°	2189.0	1349.0	806.9	898.0	873.1	881.4	947.6	972.4	1456.6	1444.2
1013.8	85°	686.9	529.7	484.2	500.7	475.9	488.3	558.6	1109.0	1026.2	600.0
314.5	87.5°	177.9	182.1	120.0	128.3	132.4	157.2	177.9	674.5	322.8	211.0
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>
14119.0
13444.5
11996.2
9997.5
8445.8
7725.7
7208.5
7030.6
6976.8
6774.0
6434.7
6157.4
5896.7
5611.2
5292.6
4932.6
4369.8
4105.0
4270.5
4154.6
3678.7
3360.1
3202.9
3004.2
2813.9
2623.5
2449.7
2280.1
2081.4
1862.1
1609.7
1315.9
1171.1
1477.3
649.7
223.5
0.0

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