

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: P956146

Luminaire Tested: **GALN-SB8D-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956146
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-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80801 lumens
Efficiency: N/A
Efficacy: 138.1 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

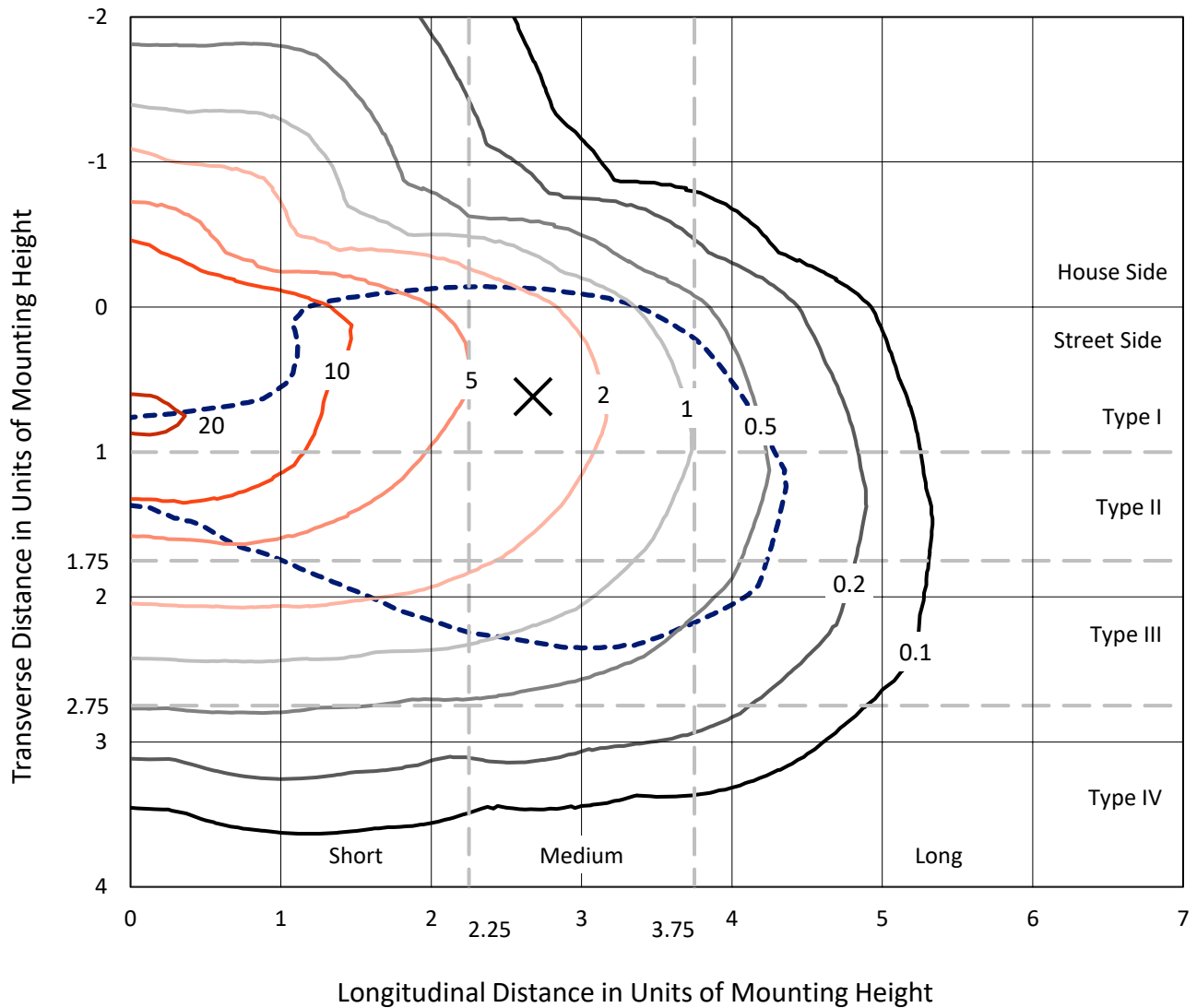
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

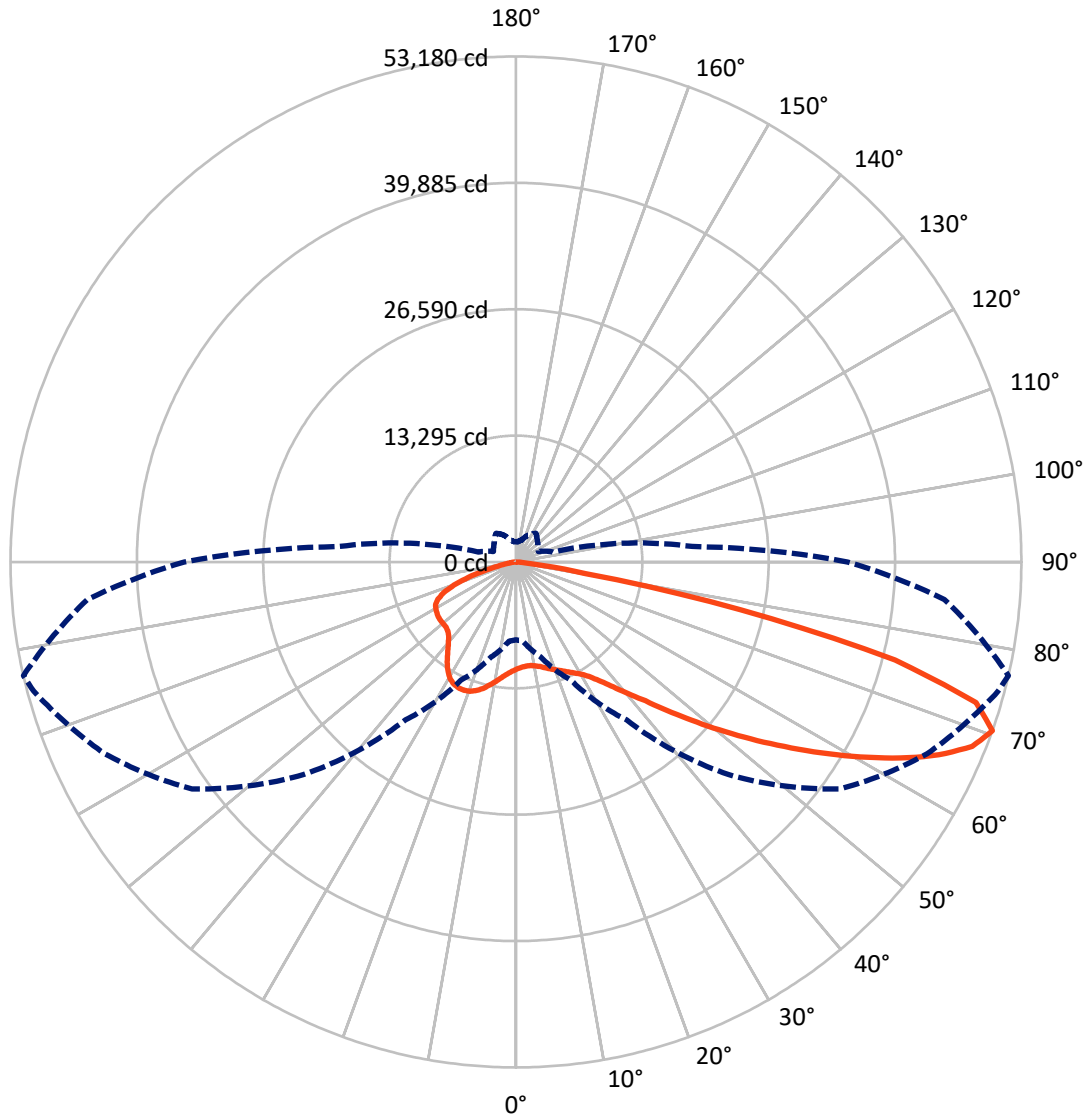
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17694.2	0.0	17694.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	63106.8	0.0	63106.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	80801.0	0.0	80801.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.1	1.3
10°-20°	3102.8	3.8
20°-30°	5306.3	6.6
30°-40°	8533.0	10.6
40°-50°	13322.2	16.5
50°-60°	17795.4	22.0
60°-70°	18967.1	23.5
70°-80°	11676.0	14.5
80°-90°	1023.1	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°	80801.0	100.0
0°-180°	80801.0	100.0



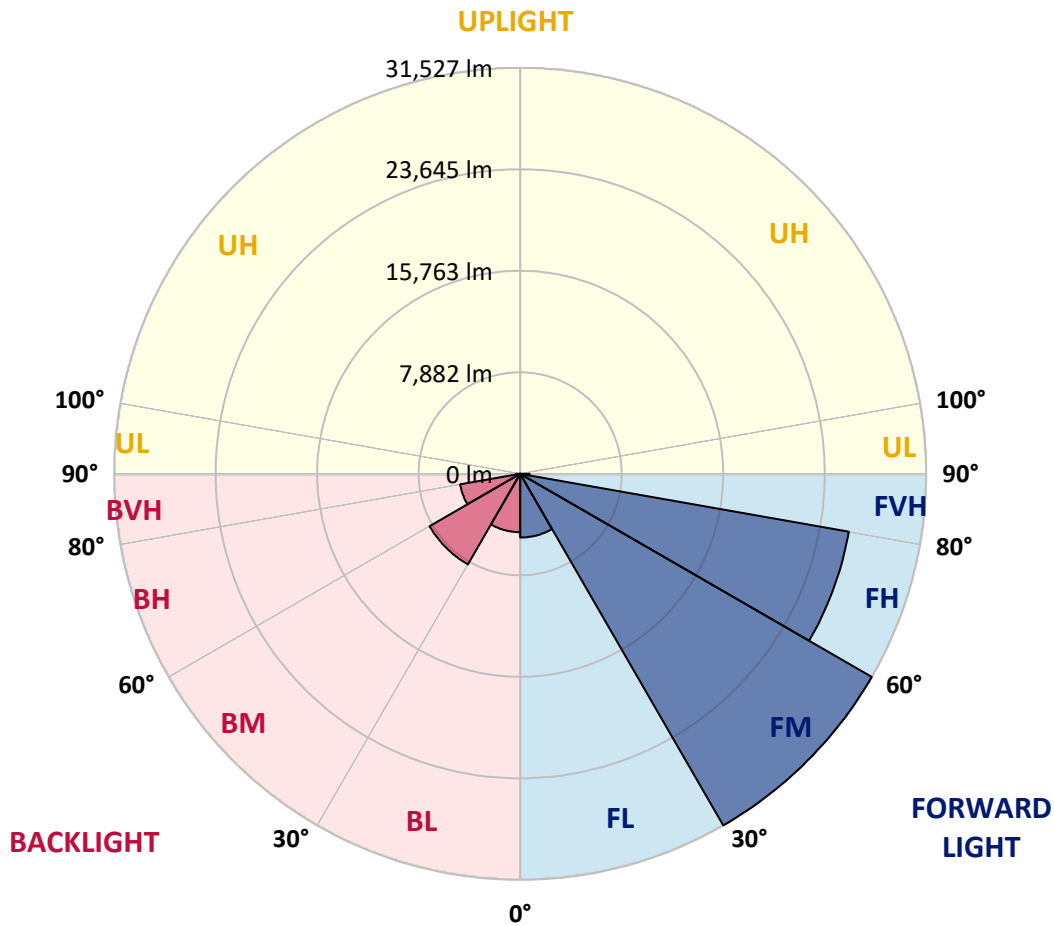
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4950.4	6.1			
FM (30°-60°)	31526.8	39.0			
FH (60°-80°)	25914.2	32.1			G5
FVH (80°-90°)	715.4	0.9			G4/750
BL (0°-30°)	4533.8	5.6	B4/5000		
BM (30°-60°)	8123.8	10.1	B4/8500		
BH (60°-80°)	4728.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	307.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5
2.5°	10391.0	10386.9	10440.7	10457.2	10556.6	10626.9	10759.3	10900.0	11082.1	11102.8
5°	9791.0	9791.0	9853.1	9919.3	10047.6	10188.3	10391.0	10635.2	10949.7	10999.4
7.5°	9282.0	9315.1	9368.9	9497.2	9646.2	9848.9	10159.3	10506.9	10920.7	10999.4
10°	8872.3	8909.6	8975.8	9079.2	9302.7	9584.1	9989.6	10436.6	10991.1	11115.2
12.5°	8744.0	8781.3	8818.5	8897.1	9104.1	9435.1	9919.3	10469.7	11160.7	11284.9
15°	9042.0	9087.5	9058.5	9037.8	9145.4	9447.5	9952.4	10589.7	11371.8	11549.7
17.5°	9728.9	9745.5	9679.3	9484.8	9468.2	9629.6	10109.6	10755.2	11636.6	11831.1
20°	10838.0	10809.0	10672.4	10287.6	10068.3	10035.2	10378.6	11003.5	11909.8	12116.7
22.5°	12344.3	12311.2	12038.0	11429.7	10941.4	10618.6	10767.6	11326.3	12216.0	12447.7
25°	14223.0	14177.5	13776.1	12948.5	12191.2	11392.5	11297.3	11752.5	12592.6	12807.8
27.5°	16416.3	16379.0	15944.5	14852.0	13759.5	12451.9	11955.3	12253.2	12985.7	13229.8
30°	18775.0	18882.6	18112.9	16937.7	15555.5	13834.0	12840.9	12869.8	13494.7	13714.0
32.5°	21547.6	21733.9	20806.9	19317.2	17430.1	15336.2	13958.2	13730.6	14235.4	14417.5
35°	24295.4	24506.5	23736.8	22089.8	19917.2	17107.3	15125.1	14719.6	15220.3	15419.0
37.5°	26670.7	26952.1	26554.9	25123.1	22578.1	19242.7	16648.0	15882.4	16432.8	16681.1
40°	28545.4	28975.7	28946.8	28052.9	25714.8	21833.2	18580.6	17318.4	17939.1	18208.1
42.5°	30068.2	30440.7	30763.4	30717.9	28988.1	24775.4	20852.4	19184.7	19656.5	19966.9
45°	31119.3	31516.6	32211.8	32960.8	32137.3	27924.6	23455.4	21398.7	21829.0	22296.7
47.5°	32058.7	32509.8	33411.9	34599.6	34810.6	31086.2	26306.6	23976.8	24369.9	24854.1
50°	32141.5	32530.4	33929.2	35613.4	36710.0	34123.7	29368.9	26869.4	27237.7	27755.0
52.5°	30142.7	30755.2	33196.7	35584.4	37583.2	36664.5	32410.4	29877.9	30291.7	30912.4
55°	23397.4	24295.4	31049.0	34475.4	37272.8	38307.4	35303.0	33076.7	33606.4	34256.1
57.5°	20153.1	20546.2	24647.2	32456.0	35857.6	38733.6	37744.6	36308.6	37161.1	37872.9
60°	18112.9	18439.9	20864.8	29315.1	33995.4	38059.1	39631.6	39321.2	40794.4	41642.8
62.5°	15928.0	16238.3	18444.0	24477.5	31611.8	36937.6	40823.4	42102.1	44518.8	45445.8
65°	13759.5	14024.4	16139.0	20566.9	28582.6	35816.2	41440.0	44506.4	47966.0	48926.0
67.5°	11342.8	11562.2	13560.9	17351.5	24899.6	34280.9	41746.2	46397.6	50966.2	51789.7
70°	8185.4	8355.0	10420.0	13722.3	20277.2	31640.7	41622.1	47738.4	52522.1	53180.1
72.5°	3869.2	4022.3	6447.3	8909.6	14322.3	26501.1	39110.2	46674.8	50941.3	50614.4
75°	2065.0	2197.4	3703.7	4887.2	7564.6	18166.7	32004.9	40206.8	42776.6	41187.6
77.5°	1398.7	1502.2	2292.6	2934.0	3455.4	8624.0	20571.0	27837.7	26782.5	24158.9
80°	1109.0	1216.6	1878.7	1986.3	1671.8	3116.1	8499.9	12886.4	9257.2	7403.3
82.5°	852.5	972.5	1580.8	1440.1	910.4	1278.7	2474.6	4076.1	2371.2	1804.3
85°	521.4	649.7	1241.5	918.7	513.1	583.5	840.1	1133.9	724.2	604.2
87.5°	264.8	372.4	629.0	335.2	231.7	136.6	223.5	223.5	190.4	165.5
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°
11272.5	0°	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5	11272.5
11214.5	2.5°	11313.9	11396.6	11537.3	11669.7	11773.2	11872.5	11971.8	12025.6	12042.2	12108.4
11276.6	5°	11446.3	11599.4	11872.5	12129.1	12290.5	12389.8	12460.1	12501.5	12509.8	12530.5
11446.3	7.5°	11690.4	11934.6	12315.3	12571.9	12691.9	12683.6	12654.6	12551.2	12509.8	12472.6
11694.6	10°	12033.9	12356.7	12824.3	13002.2	12927.8	12729.1	12472.6	12170.5	12029.8	11893.2
12033.9	12.5°	12460.1	12869.8	13329.2	13320.9	12952.6	12443.6	11847.7	11384.2	11090.4	10879.3
12451.9	15°	12977.4	13449.2	13800.9	13519.5	12712.6	11798.0	10924.9	10320.7	10055.8	9824.1
12874.0	17.5°	13511.2	14016.1	14177.5	13457.5	12108.4	10842.1	9853.1	9377.2	9116.5	8992.3
13329.2	20°	14032.7	14533.4	14401.0	13101.6	11189.7	9757.9	8876.5	8615.7	8562.0	8590.9
13772.0	22.5°	14583.0	15030.0	14446.5	12414.6	10018.6	8648.9	8164.7	8173.0	8293.0	8379.9
14235.4	25°	15145.8	15447.9	14326.5	11421.5	8760.6	7833.6	7713.6	7846.0	8081.9	8251.6
14756.8	27.5°	15687.9	15820.4	14065.8	10192.4	7680.5	7250.1	7270.8	7544.0	7899.8	8135.7
15390.0	30°	16300.4	16151.4	13565.0	8810.2	6931.5	6749.4	6923.2	7241.9	7597.7	7808.8
16188.7	32.5°	16991.5	16437.0	12770.5	7531.5	6401.8	6348.0	6633.5	6840.5	6997.7	7059.8
17248.0	35°	17852.2	16838.4	11752.5	6633.5	5925.9	6054.2	6327.3	6223.9	6161.8	6128.7
18671.6	37.5°	18969.5	17380.5	10560.7	6050.1	5541.1	5843.1	5954.9	5632.1	5387.9	5267.9
20397.2	40°	20314.5	18175.0	9414.4	5599.0	5296.9	5661.1	5466.6	5077.6	4767.2	4597.5
22338.0	42.5°	21808.4	19006.8	8450.2	5259.7	5160.3	5512.1	5106.5	4643.1	4142.3	4088.5
24651.3	45°	23376.7	19863.4	7792.2	4999.0	5094.1	5383.8	4899.6	4150.6	3794.7	4014.1
26972.8	47.5°	24945.1	20649.7	7395.0	4804.5	5061.0	5239.0	4717.6	3877.5	3625.1	3943.7
29459.9	50°	26691.4	21353.1	7217.0	4663.8	5023.8	5181.0	4444.4	3807.2	3447.1	3658.2
32033.9	52.5°	28425.3	21899.4	7084.6	4523.1	4970.0	5135.5	4312.0	3724.4	3231.9	3244.4
34624.4	55°	30155.1	22255.3	6939.8	4336.8	4850.0	5036.2	4299.6	3633.3	3070.5	3012.6
37363.9	57.5°	32000.8	22458.1	6761.8	4129.9	4643.1	4783.8	4287.2	3563.0	3020.9	2925.7
40165.4	60°	33879.5	22756.0	6530.1	3877.5	4365.8	4481.7	4258.2	3538.2	2991.9	2830.5
42805.6	62.5°	35563.8	22859.5	6252.8	3637.5	4009.9	4183.7	4196.1	3517.5	2913.3	2636.0
44998.9	65°	36668.7	22412.5	5768.7	3364.4	3625.1	3877.5	4076.1	3447.1	2772.6	2495.3
46083.1	67.5°	36623.1	21138.0	5011.4	3012.6	3252.6	3538.2	3902.3	3327.1	2602.9	2321.5
45263.7	70°	34918.2	18621.9	4051.3	2602.9	2842.9	3174.0	3678.9	3149.2	2400.2	2131.2
40248.2	72.5°	29948.2	14574.8	2942.3	2122.9	2367.1	2797.4	3389.2	2934.0	2193.2	1961.5
29745.4	75°	21394.5	9224.1	1994.6	1630.5	1841.5	2371.2	3029.2	2681.6	2002.9	1969.8
14897.5	77.5°	10929.0	4407.2	1320.1	1191.8	1282.8	1870.5	2545.0	2396.0	2031.9	1626.3
4237.5	80°	3554.7	1626.3	831.8	811.1	852.5	1245.6	1969.8	1965.6	1539.4	1104.9
1026.3	82.5°	1133.9	699.4	542.1	521.4	500.7	782.1	1373.9	1556.0	1038.7	699.4
368.3	85°	451.1	418.0	318.6	293.8	211.0	368.3	720.0	1034.6	773.8	504.9
95.2	87.5°	165.5	165.5	86.9	62.1	45.5	124.1	194.5	310.4	442.8	260.7
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>
11272.5
12145.6
12563.6
12480.8
11851.8
10829.7
9799.3
9029.6
8578.5
8400.6
8297.1
8193.7
7858.5
7092.9
6161.8
5296.9
4610.0
4142.3
4129.9
4092.7
3815.4
3331.3
3054.0
2938.1
2842.9
2636.0
2495.3
2333.9
2156.0
1949.1
1858.1
1448.4
976.6
695.2
517.3
256.6
0.0

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