

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: P954643

Luminaire Tested: **GALN-SB7D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64633 lumens
Efficiency: N/A
Efficacy: 126.0 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

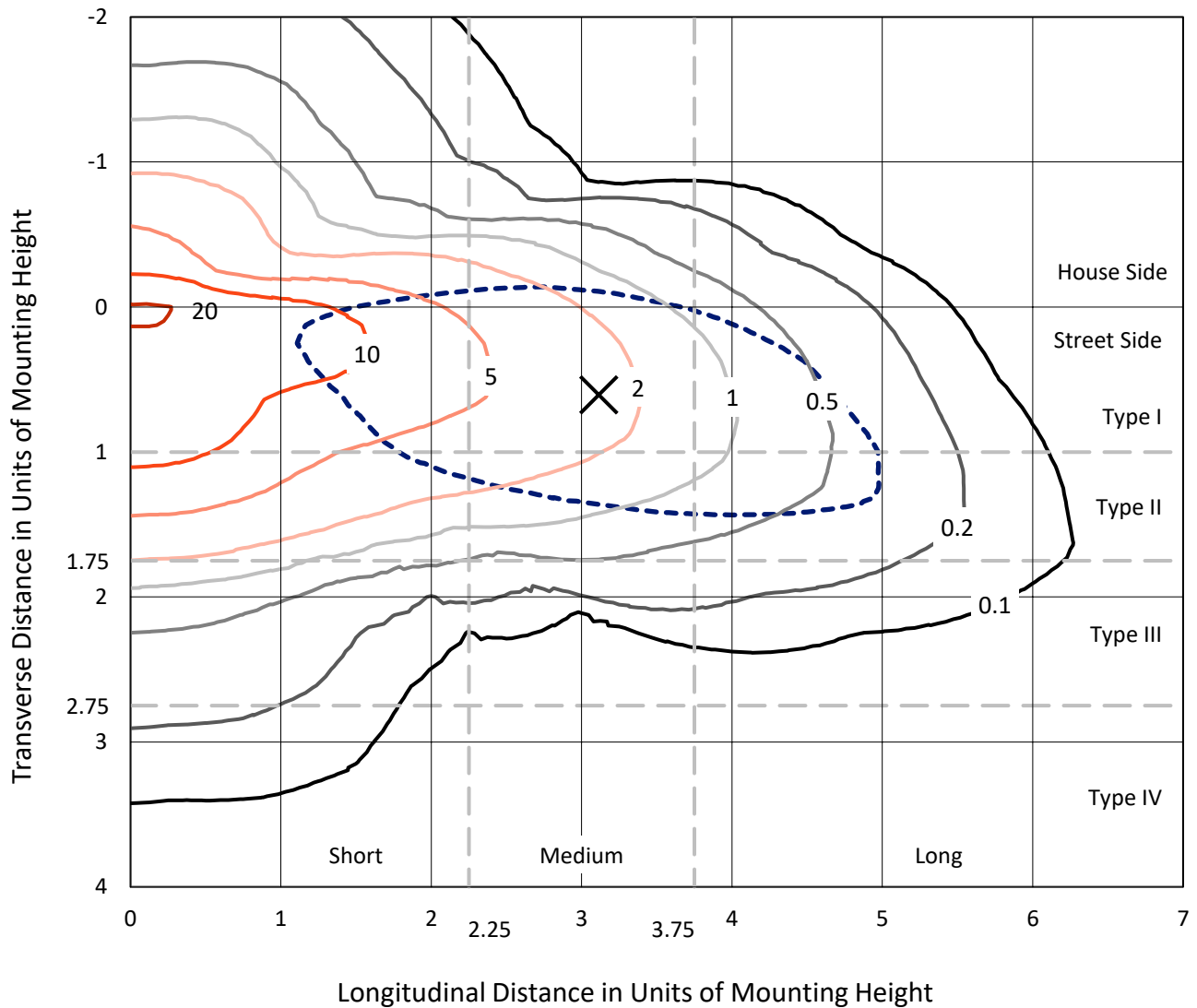
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

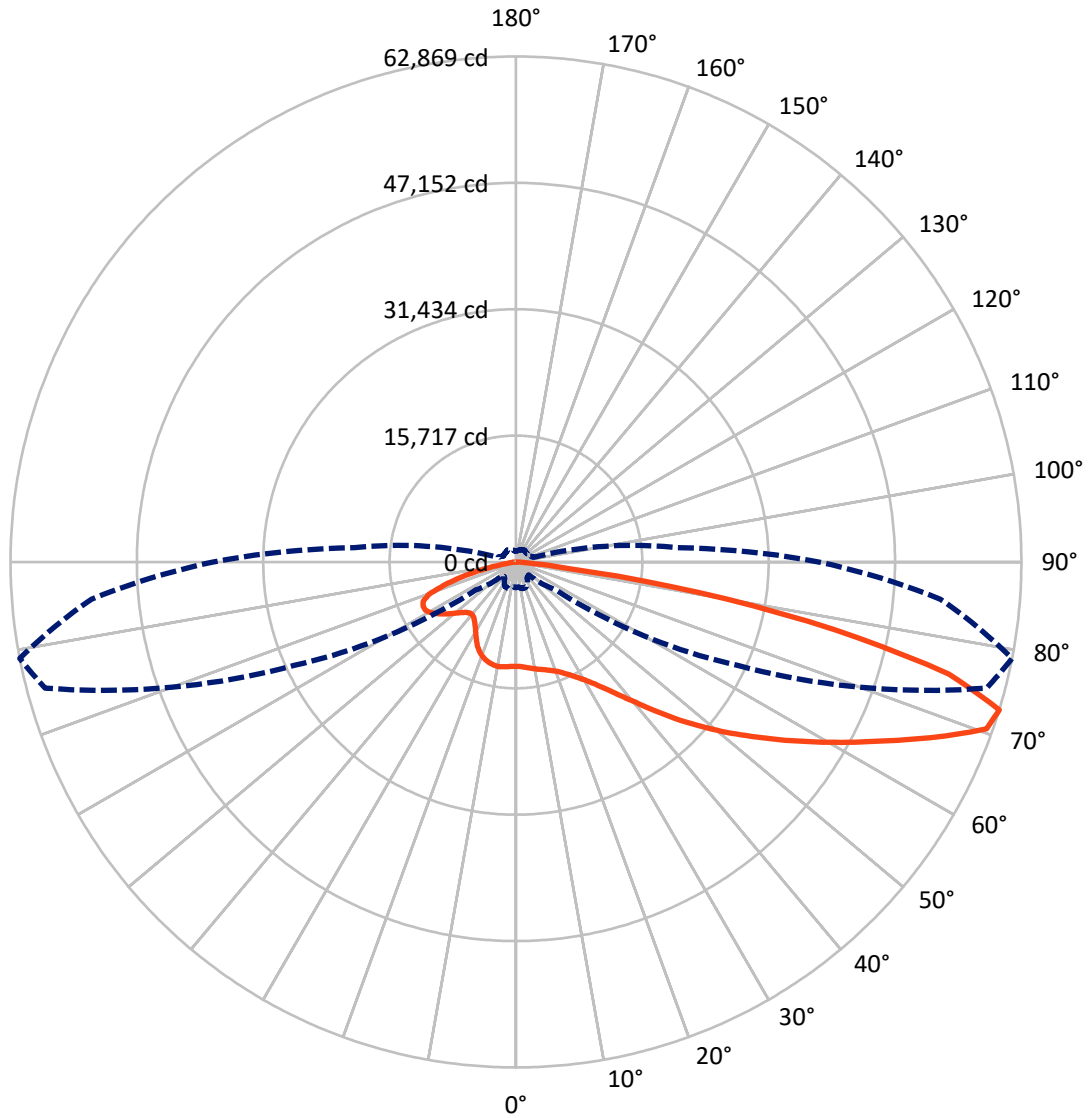
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14222.8	0.0	14222.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	50410.2	0.0	50410.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	64633.0	0.0	64633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1177.7	1.8
10°-20°	3079.1	4.8
20°-30°	4968.4	7.7
30°-40°	7456.9	11.5
40°-50°	10578.0	16.4
50°-60°	13358.7	20.7
60°-70°	13567.5	21.0
70°-80°	9246.9	14.3
80°-90°	1199.7	1.9
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°	64633.0	100.0
0°-180°	64633.0	100.0



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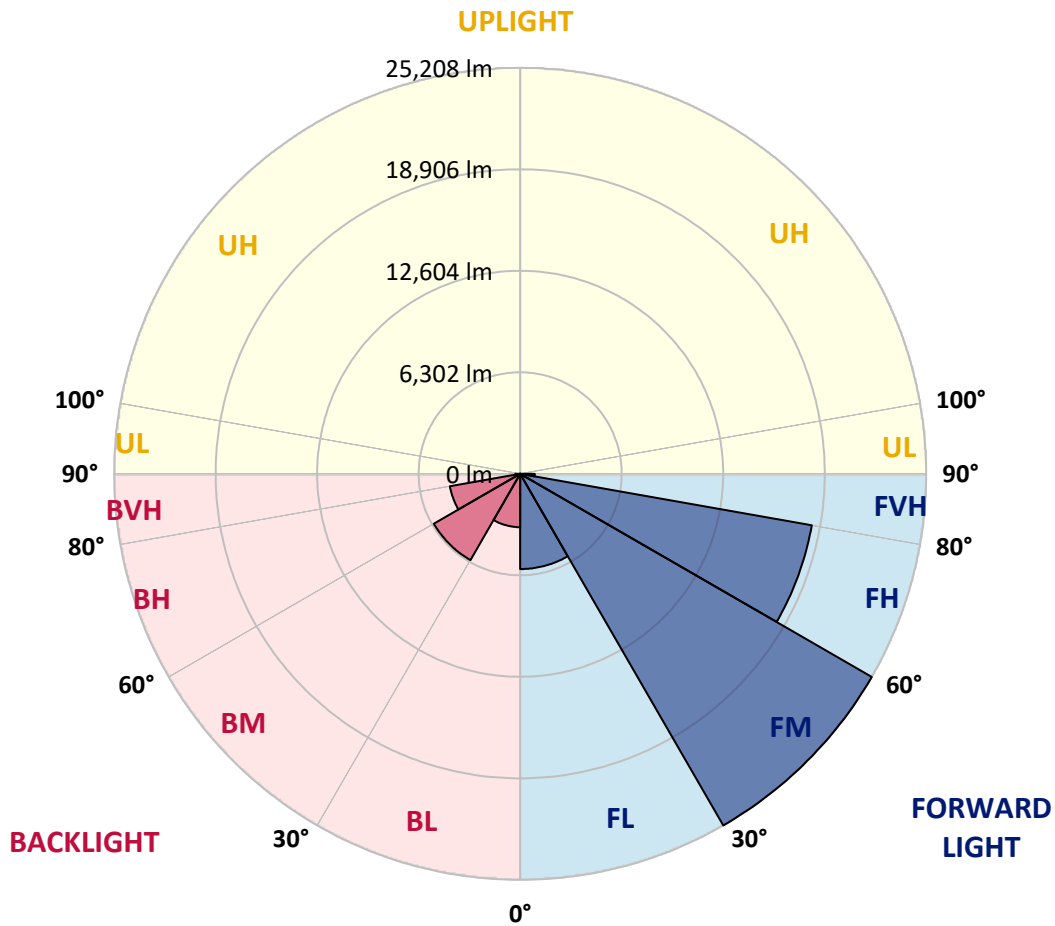
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5912.4	9.1			
FM (30°-60°)	25208.2	39.0			
FH (60°-80°)	18385.9	28.4			G5
FVH (80°-90°)	903.7	1.4			G5
BL (0°-30°)	3312.9	5.1	B4/5000		
BM (30°-60°)	6185.4	9.6	B4/8500		
BH (60°-80°)	4428.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	296.0	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5
2.5°	12981.3	12919.8	12957.4	12943.7	12960.8	12981.3	12988.1	12998.4	13032.6	13029.2
5°	12953.9	12892.4	12943.7	12926.6	12971.0	13018.9	13059.9	13097.5	13152.2	13176.2
7.5°	12895.8	12854.8	12906.1	12957.4	13039.4	13111.2	13169.3	13254.8	13333.4	13347.1
10°	12557.4	12526.6	12646.3	12779.6	13005.2	13200.1	13326.6	13425.7	13511.2	13524.9
12.5°	12205.2	12167.6	12301.0	12482.1	12848.0	13200.1	13466.8	13596.7	13671.9	13716.3
15°	12147.1	12116.3	12191.5	12348.8	12653.1	13107.8	13562.5	13801.8	13866.8	13918.1
17.5°	12427.4	12369.3	12400.1	12454.8	12632.6	13022.3	13637.7	14034.3	14133.4	14188.1
20°	13077.0	12995.0	12947.1	12837.7	12806.9	13036.0	13630.9	14314.6	14444.6	14512.9
22.5°	13942.0	13887.3	13784.7	13507.8	13206.9	13203.5	13760.8	14673.6	14916.4	14981.3
25°	14988.2	14906.1	14776.2	14400.1	13822.3	13535.1	13979.6	15131.7	15538.6	15555.7
27.5°	16191.6	16068.5	15890.7	15395.0	14615.5	14054.8	14314.6	15658.2	16253.1	16246.3
30°	17460.0	17336.9	17148.9	16547.1	15565.9	14755.7	14779.6	16225.8	17101.0	17063.4
32.5°	18386.5	18294.2	18256.6	17791.6	16660.0	15583.0	15312.9	16854.8	18147.2	18113.0
35°	19097.6	18977.9	19022.4	18786.5	17853.1	16509.5	15965.9	17603.6	19419.0	19415.5
37.5°	19801.9	19695.9	19733.5	19576.2	18957.4	17685.6	16762.5	18519.8	20995.0	21070.2
40°	20444.6	20331.8	20482.2	20335.2	19815.5	18936.9	17668.5	19555.7	22820.7	22964.3
42.5°	20830.9	20742.0	20991.6	20995.0	20560.8	19993.3	18663.4	20697.6	24933.5	25254.9
45°	20964.3	20933.5	21309.6	21388.2	21220.7	20605.3	19559.1	21942.1	27210.5	27784.8
47.5°	20820.7	20762.6	21282.2	21572.8	21706.2	20892.5	20301.0	23289.1	29535.3	30376.3
50°	20095.9	19983.1	20755.7	21367.7	21842.9	21080.5	21049.7	24844.6	32178.0	33097.7
52.5°	18793.3	18707.8	19586.5	20649.7	21542.0	21172.8	21890.8	26543.8	34687.5	35877.2
55°	17128.3	17015.5	17983.0	19371.1	20793.3	21142.0	22731.8	28444.7	37648.2	38855.0
57.5°	14489.0	14263.4	15487.3	17128.3	19572.8	21104.4	23607.0	30335.3	40656.7	42102.9
60°	10639.4	10304.4	11805.2	13750.5	17186.5	20738.6	24690.8	32455.0	44267.0	45569.6
62.5°	6194.9	6000.0	6981.3	8796.6	12953.9	18584.8	25299.3	34919.9	47815.8	49183.3
65°	4810.3	4755.6	4841.1	4981.2	7210.3	13914.6	23422.4	37323.4	52328.6	53285.9
67.5°	4400.0	4359.0	4396.6	4133.4	3658.1	7750.5	18530.1	37931.9	57162.8	57744.0
70°	3911.1	3863.3	3986.4	3760.7	2878.7	3524.8	11972.7	35723.4	61009.0	62099.6
72.5°	3186.3	3131.6	3418.8	3316.3	2424.0	2263.3	6013.7	30475.5	60605.6	62868.9
75°	2447.9	2417.1	2759.0	2844.5	1976.1	1781.2	2885.5	22653.2	53333.7	55614.1
77.5°	1900.9	1876.9	2051.3	2362.4	1593.2	1381.2	1774.4	14369.3	40191.8	40591.8
80°	1425.7	1357.3	1518.0	1829.1	1241.0	1008.6	1203.4	8379.6	25405.3	23029.2
82.5°	892.3	858.1	991.5	1220.5	875.2	694.0	782.9	4629.1	10181.3	5996.6
85°	509.4	495.7	540.2	697.4	475.2	400.0	447.9	2044.5	1859.8	1278.6
87.5°	205.1	198.3	246.2	311.1	174.4	147.0	157.3	492.3	410.3	379.5
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°
12974.5	0°	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5	12974.5
13025.7	2.5°	13012.1	13012.1	12964.2	12889.0	12803.5	12748.8	12659.9	12636.0	12543.7	12516.3
13142.0	5°	13169.3	13142.0	12995.0	12783.0	12492.4	12225.7	11931.7	11747.1	11487.3	11395.0
13371.0	7.5°	13367.6	13292.4	13039.4	12574.5	11965.9	11367.6	10745.4	10273.6	9822.3	9661.6
13559.1	10°	13548.8	13442.8	13012.1	12198.4	11145.4	10109.5	9118.0	8424.0	7897.5	7682.1
13767.6	12.5°	13730.0	13535.1	12830.9	11572.7	9979.6	8574.4	7518.0	6977.8	6653.0	6393.2
13938.6	15°	13901.0	13627.5	12550.5	10735.1	8700.9	7275.3	6495.8	6065.0	5805.2	5634.2
14188.1	17.5°	14099.3	13706.1	12130.0	9671.9	7483.8	6376.1	5740.2	5480.4	5429.1	5408.6
14530.0	20°	14376.2	13777.9	11576.2	8482.1	6588.1	5658.2	5330.0	5306.0	5302.6	5292.3
14940.3	22.5°	14673.6	13863.4	10844.5	7401.8	5825.7	5210.3	5152.2	5104.3	5073.5	5070.1
15436.0	25°	15025.8	13890.7	9928.3	6516.3	5176.1	4998.3	4930.0	4858.2	4837.6	4837.6
16000.1	27.5°	15367.6	13798.4	8861.6	5747.1	4810.3	4803.5	4714.6	4690.6	4687.2	4697.5
16642.9	30°	15709.5	13624.0	7801.8	5035.9	4598.3	4598.3	4567.6	4584.7	4598.3	4632.5
17524.9	32.5°	16171.1	13439.4	6916.3	4509.4	4413.7	4379.5	4410.3	4444.5	4458.2	4502.6
18683.9	35°	16848.0	13309.5	6212.0	4222.3	4222.3	4177.8	4194.9	4188.1	4157.3	4136.8
20085.6	37.5°	17743.7	13302.7	5630.8	4088.9	4061.6	4054.7	4058.2	4013.7	3894.0	3750.5
21781.4	40°	18820.7	13487.3	5182.9	3996.6	3976.1	4017.1	3996.6	3877.0	3548.7	3299.2
23866.9	42.5°	20266.8	14013.8	4895.8	3883.8	3945.3	3996.6	3914.6	3500.9	3278.7	3111.1
26242.9	45°	21969.4	14868.5	4748.8	3764.1	3887.2	3948.7	3552.2	3371.0	3193.2	2991.5
28834.4	47.5°	23897.6	15945.4	4714.6	3651.3	3757.3	3794.9	3398.3	3316.3	3114.6	2895.7
31439.6	50°	25996.8	17220.6	4806.9	3518.0	3569.3	3439.3	3347.0	3271.8	3063.3	2847.9
34109.7	52.5°	28167.7	18625.8	4991.5	3336.8	3381.2	3237.6	3326.5	3261.6	3032.5	2741.9
36868.7	55°	30301.1	20041.2	5169.3	3124.8	3189.8	3056.4	3268.4	3220.5	2892.3	2564.1
39812.3	57.5°	32468.6	21449.7	5343.6	2936.8	3005.2	2882.1	3176.1	3111.1	2735.1	2400.0
43026.0	60°	34721.6	22817.3	5425.7	2755.6	2803.4	2721.4	3035.9	2923.1	2557.3	2232.5
46185.0	62.5°	36831.1	23955.7	5292.3	2574.4	2605.1	2571.0	2851.3	2700.9	2379.5	2044.5
49477.3	65°	38947.3	24632.7	4882.1	2396.6	2403.4	2386.3	2591.5	2461.6	2171.0	1880.4
52359.4	67.5°	40865.3	25012.2	4229.1	2205.1	2188.1	2181.2	2348.7	2201.7	1969.2	1716.3
54550.9	70°	41272.1	24048.1	3230.8	1979.5	1979.5	1962.4	2082.1	1931.6	1747.0	1541.9
52981.6	72.5°	37696.0	20229.2	2294.0	1723.1	1750.4	1716.3	1815.4	1688.9	1521.4	1384.6
45661.9	75°	30396.8	14834.3	1668.4	1459.8	1507.7	1449.6	1541.9	1453.0	1309.4	1306.0
31466.9	77.5°	20885.6	9172.7	1210.3	1203.4	1237.6	1162.4	1268.4	1220.5	1090.6	1032.5
13695.8	80°	8912.9	3658.1	882.1	929.9	929.9	861.5	984.6	998.3	885.5	858.1
2642.8	82.5°	1774.4	1039.3	618.8	639.3	601.7	581.2	697.4	772.7	1066.7	1186.3
796.6	85°	533.3	382.9	372.7	348.7	307.7	311.1	410.3	776.1	957.3	547.0
263.2	87.5°	147.0	95.7	99.1	78.6	65.0	85.5	140.2	588.0	321.4	136.8
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>
12974.5
12560.8
11463.3
9682.1
7730.0
6478.7
5665.0
5422.3
5326.5
5107.7
4858.2
4724.8
4656.4
4540.2
4184.6
3753.9
3292.3
3104.3
2977.8
2878.7
2824.0
2721.4
2547.0
2393.2
2222.2
2041.0
1859.8
1695.7
1535.1
1343.6
1176.1
967.5
858.1
1189.8
471.8
116.2
0.0

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