

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: P954634

Luminaire Tested: **GALN-SB7D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954634
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-SB7D-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64603 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 III - Medium
BUG Rating: B4 - U0 - G5

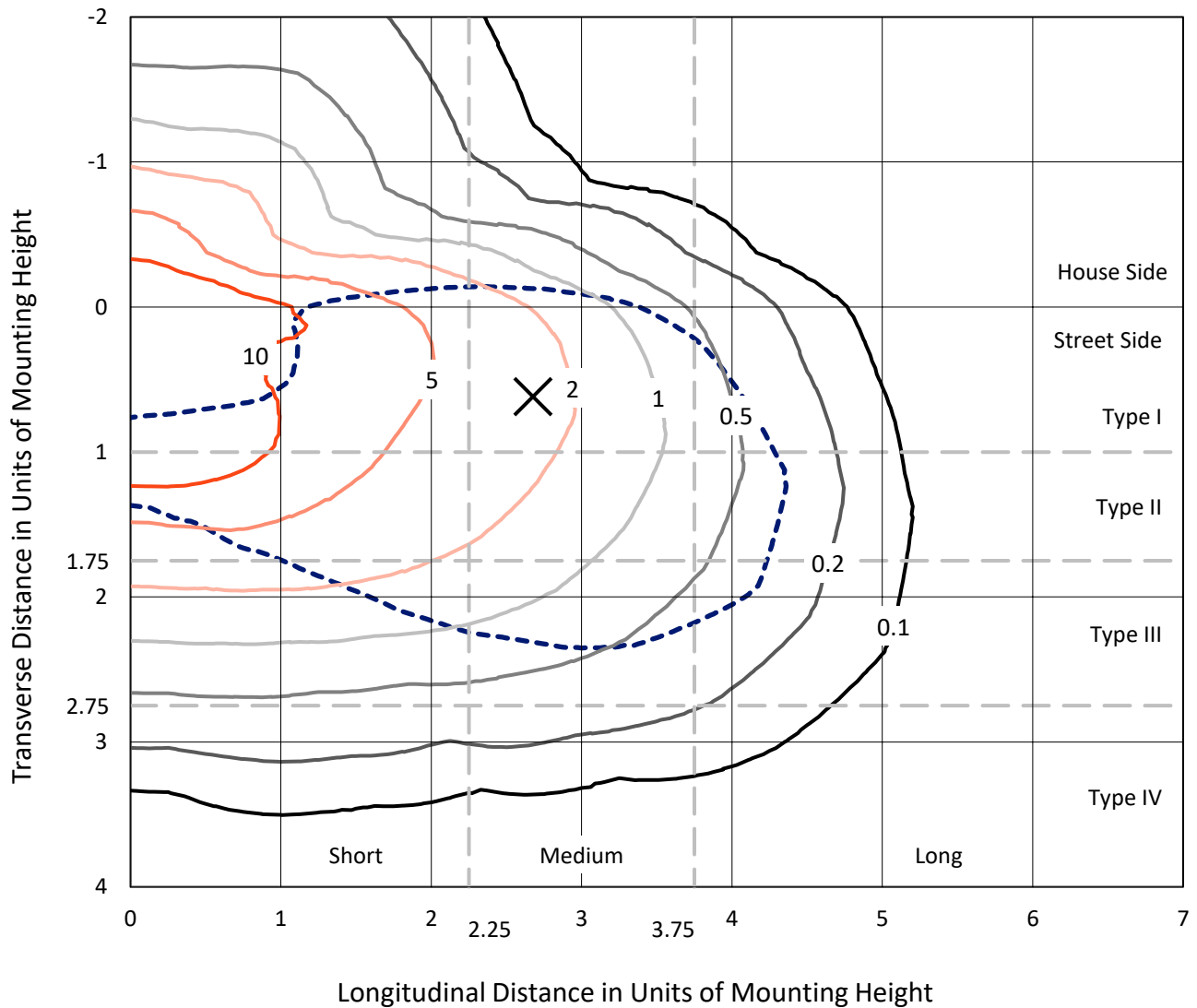
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

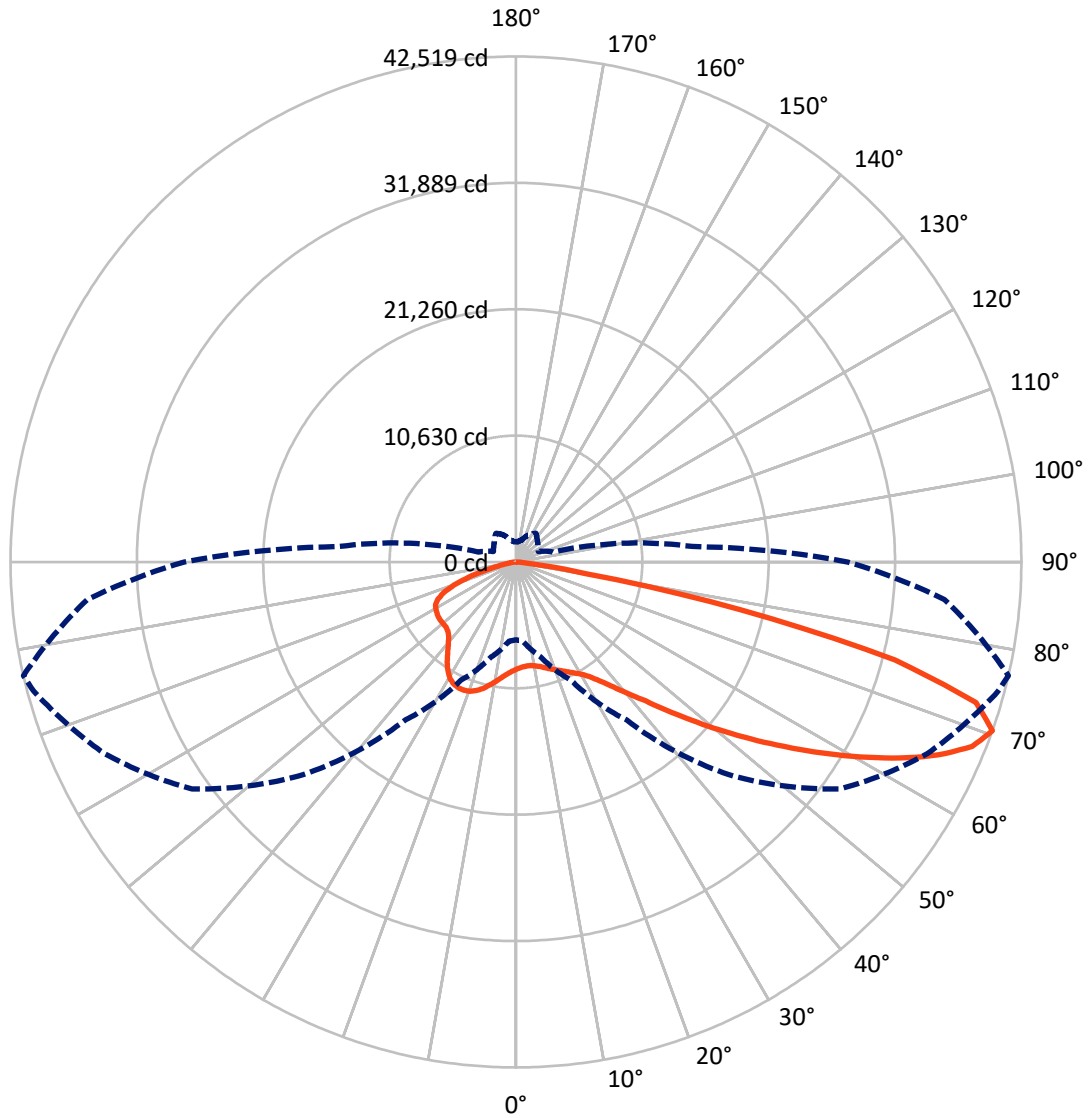
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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	14147.0	0.0	14147.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	50456.0	0.0	50456.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	64603.0	0.0	64603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.6	1.3
10°-20°	2480.8	3.8
20°-30°	4242.5	6.6
30°-40°	6822.4	10.6
40°-50°	10651.6	16.5
50°-60°	14228.0	22.0
60°-70°	15164.8	23.5
70°-80°	9335.4	14.5
80°-90°	818.0	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°	64603.0	100.0
0°-180°	64603.0	100.0

Coefficient of Utilization



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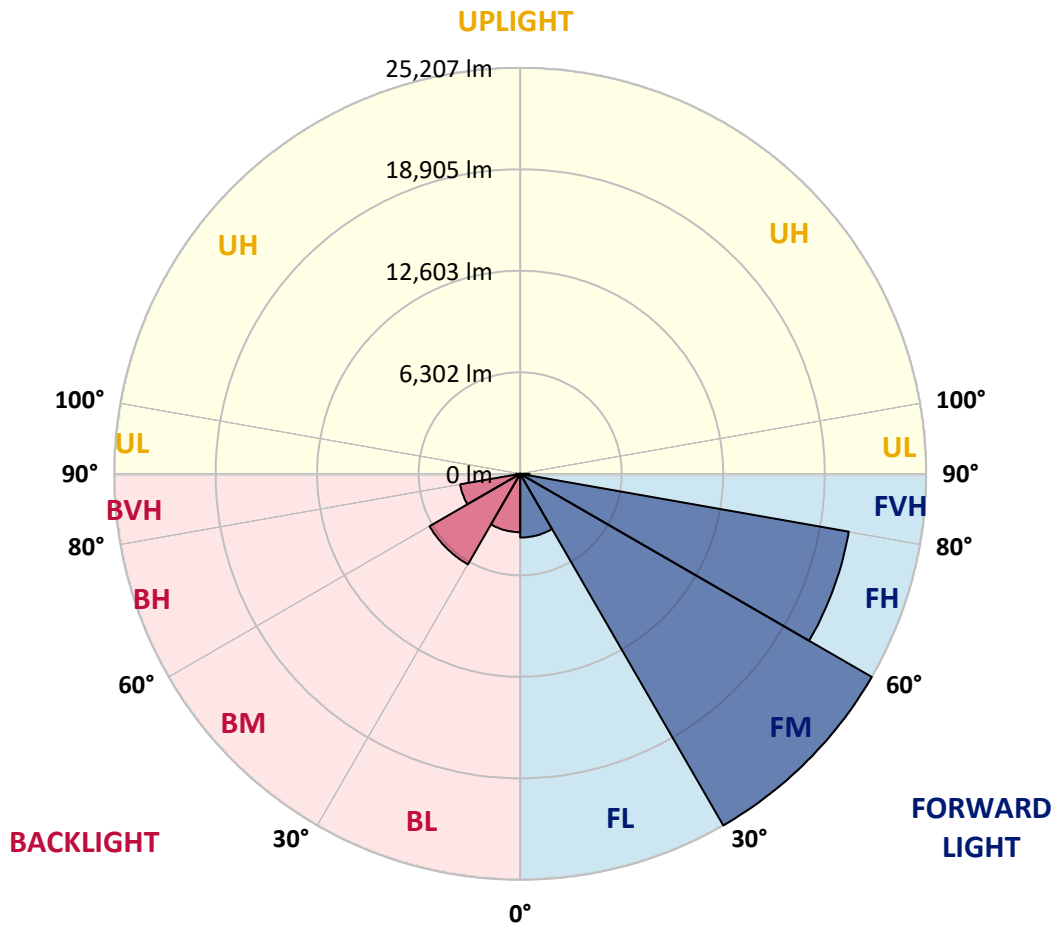
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3958.0	6.1			
FM (30°-60°)	25206.7	39.0			
FH (60°-80°)	20719.3	32.1			G5
FVH (80°-90°)	572.0	0.9			G4/750
BL (0°-30°)	3624.9	5.6	B4/5000		
BM (30°-60°)	6495.2	10.1	B4/8500		
BH (60°-80°)	3780.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	246.0	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°	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7
2.5°	8308.0	8304.7	8347.7	8360.9	8440.3	8496.6	8602.4	8714.9	8860.5	8877.1
5°	7828.2	7828.2	7877.8	7930.8	8033.4	8145.8	8308.0	8503.2	8754.6	8794.3
7.5°	7421.3	7447.7	7490.7	7593.3	7712.4	7874.5	8122.7	8400.6	8731.5	8794.3
10°	7093.7	7123.5	7176.4	7259.1	7437.8	7662.8	7987.0	8344.4	8787.7	8887.0
12.5°	6991.1	7020.9	7050.7	7113.6	7279.0	7543.7	7930.8	8370.8	8923.4	9022.6
15°	7229.4	7265.8	7242.6	7226.0	7312.1	7553.6	7957.3	8466.8	9092.1	9234.4
17.5°	7778.6	7791.8	7738.9	7583.4	7570.1	7699.2	8083.0	8599.1	9303.9	9459.4
20°	8665.3	8642.1	8533.0	8225.3	8049.9	8023.4	8298.0	8797.6	9522.2	9687.7
22.5°	9869.6	9843.2	9624.8	9138.4	8748.0	8489.9	8609.1	9055.7	9767.1	9952.4
25°	11371.8	11335.4	11014.4	10352.7	9747.2	9108.7	9032.6	9396.5	10068.2	10240.2
27.5°	13125.3	13095.6	12748.2	11874.7	11001.2	9955.7	9558.6	9796.9	10382.5	10577.7
30°	15011.3	15097.3	14481.9	13542.2	12437.1	11060.7	10266.7	10289.8	10789.4	10964.8
32.5°	17228.0	17376.9	16635.8	15444.7	13935.9	12261.8	11160.0	10978.0	11381.7	11527.3
35°	19425.0	19593.7	18978.3	17661.5	15924.4	13677.9	12093.0	11768.8	12169.1	12328.0
37.5°	21324.1	21549.1	21231.5	20086.7	18051.9	15385.1	13310.6	12698.5	13138.6	13337.1
40°	22822.9	23167.0	23143.9	22429.2	20559.8	17456.3	14855.7	13846.6	14342.9	14558.0
42.5°	24040.5	24338.3	24596.4	24560.0	23177.0	19808.8	16672.2	15338.8	15716.0	15964.1
45°	24880.9	25198.5	25754.4	26353.2	25694.8	22326.6	18753.3	17108.9	17453.0	17826.9
47.5°	25632.0	25992.6	26713.9	27663.5	27832.2	24854.4	21033.0	19170.2	19484.5	19871.6
50°	25698.1	26009.1	27127.5	28474.1	29350.9	27283.0	23481.3	21482.9	21777.4	22191.0
52.5°	24100.1	24589.7	26541.8	28450.9	30049.0	29314.5	25913.2	23888.3	24219.2	24715.5
55°	18707.0	19425.0	24824.7	27564.2	29800.8	30628.0	28225.9	26445.9	26869.4	27388.8
57.5°	16113.0	16427.3	19706.2	25949.6	28669.3	30968.8	30178.0	29029.9	29711.5	30280.6
60°	14481.9	14743.3	16682.1	23438.3	27180.4	30429.5	31686.7	31438.6	32616.5	33294.7
62.5°	12734.9	12983.1	14746.6	19570.5	25274.6	29532.8	32639.6	33662.0	35594.2	36335.4
65°	11001.2	11212.9	12903.7	16443.9	22852.7	28636.2	33132.6	35584.3	38350.3	39117.9
67.5°	9069.0	9244.3	10842.4	13873.1	19908.0	27408.7	33377.5	37096.4	40749.1	41407.5
70°	6544.5	6680.1	8331.1	10971.4	16212.3	25297.8	33278.2	38168.4	41993.1	42519.2
72.5°	3093.6	3216.0	5154.8	7123.5	11451.2	21188.5	31269.9	37318.0	40729.2	40467.9
75°	1651.0	1756.9	2961.2	3907.5	6048.2	14524.9	25588.9	32146.6	34201.3	32930.8
77.5°	1118.3	1201.0	1833.0	2345.8	2762.7	6895.2	16447.2	22257.2	21413.5	19315.8
80°	886.7	972.7	1502.1	1588.1	1336.7	2491.4	6795.9	10303.1	7401.4	5919.1
82.5°	681.6	777.5	1263.9	1151.4	727.9	1022.4	1978.6	3259.0	1895.8	1442.6
85°	416.9	519.5	992.6	734.5	410.3	466.5	671.7	906.6	579.0	483.1
87.5°	211.8	297.8	502.9	268.0	185.3	109.2	178.7	178.7	152.2	132.3
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°
9012.7	0°	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7	9012.7
8966.4	2.5°	9045.8	9112.0	9224.5	9330.3	9413.1	9492.5	9571.9	9614.9	9628.1	9681.1
9016.0	5°	9151.7	9274.1	9492.5	9697.6	9826.6	9906.0	9962.3	9995.4	10002.0	10018.5
9151.7	7.5°	9346.9	9542.1	9846.5	10051.6	10147.6	10141.0	10117.8	10035.1	10002.0	9972.2
9350.2	10°	9621.5	9879.6	10253.4	10395.7	10336.2	10177.3	9972.2	9730.7	9618.2	9509.0
9621.5	12.5°	9962.3	10289.8	10657.1	10650.5	10356.0	9949.1	9472.6	9102.0	8867.1	8698.4
9955.7	15°	10375.9	10753.0	11034.3	10809.3	10164.1	9432.9	8734.8	8251.7	8040.0	7854.7
10293.1	17.5°	10802.7	11206.3	11335.4	10759.7	9681.1	8668.6	7877.8	7497.4	7288.9	7189.7
10657.1	20°	11219.6	11619.9	11514.0	10475.1	8946.5	7801.7	7097.0	6888.6	6845.6	6868.7
11011.1	22.5°	11659.6	12016.9	11550.4	9925.9	8010.2	6915.0	6527.9	6534.5	6630.5	6700.0
11381.7	25°	12109.6	12351.1	11454.5	9131.8	7004.4	6263.2	6167.3	6273.2	6461.8	6597.4
11798.6	27.5°	12543.0	12648.9	11246.0	8149.2	6140.8	5796.7	5813.3	6031.6	6316.2	6504.8
12304.8	30°	13032.7	12913.6	10845.7	7044.1	5542.0	5396.4	5535.3	5790.1	6074.6	6243.4
12943.4	32.5°	13585.2	13141.9	10210.4	6021.7	5118.5	5075.4	5303.7	5469.2	5594.9	5644.5
13790.4	35°	14273.4	13462.8	9396.5	5303.7	4738.0	4840.5	5058.9	4976.2	4926.5	4900.1
14928.5	37.5°	15166.8	13896.2	8443.6	4837.2	4430.3	4671.8	4761.1	4503.0	4307.8	4211.9
16308.2	40°	16242.1	14531.5	7527.1	4476.6	4235.0	4526.2	4370.7	4059.7	3811.5	3675.9
17860.0	42.5°	17436.5	15196.5	6756.2	4205.3	4125.9	4407.1	4082.8	3712.3	3311.9	3268.9
19709.5	45°	18690.5	15881.4	6230.2	3996.8	4072.9	4304.5	3917.4	3318.6	3034.0	3209.4
21565.6	47.5°	19944.4	16510.1	5912.5	3841.3	4046.5	4188.7	3771.8	3100.2	2898.4	3153.1
23554.1	50°	21340.7	17072.5	5770.3	3728.8	4016.7	4142.4	3553.5	3043.9	2756.1	2924.8
25612.1	52.5°	22727.0	17509.3	5664.4	3616.3	3973.7	4106.0	3447.6	2977.8	2584.0	2594.0
27683.3	55°	24110.0	17793.8	5548.6	3467.4	3877.7	4026.6	3437.7	2905.0	2455.0	2408.7
29873.6	57.5°	25585.6	17955.9	5406.3	3302.0	3712.3	3824.8	3427.7	2848.7	2415.3	2339.2
32113.6	60°	27087.8	18194.2	5221.0	3100.2	3490.6	3583.2	3404.6	2828.9	2392.1	2263.1
34224.5	62.5°	28434.4	18276.9	4999.3	2908.3	3206.1	3345.0	3355.0	2812.3	2329.3	2107.6
35978.0	65°	29317.8	17919.5	4612.2	2689.9	2898.4	3100.2	3259.0	2756.1	2216.8	1995.1
36844.9	67.5°	29281.4	16900.5	4006.8	2408.7	2600.6	2828.9	3120.0	2660.1	2081.1	1856.1
36189.8	70°	27918.2	14888.8	3239.1	2081.1	2273.0	2537.7	2941.4	2517.9	1919.0	1703.9
32179.7	72.5°	23944.6	11653.0	2352.4	1697.3	1892.5	2236.6	2709.8	2345.8	1753.6	1568.3
23782.4	75°	17105.6	7374.9	1594.8	1303.6	1472.3	1895.8	2421.9	2144.0	1601.4	1574.9
11911.1	77.5°	8738.1	3523.7	1055.5	952.9	1025.7	1495.5	2034.8	1915.7	1624.5	1300.3
3388.0	80°	2842.1	1300.3	665.0	648.5	681.6	995.9	1574.9	1571.6	1230.8	883.4
820.5	82.5°	906.6	559.2	433.4	416.9	400.3	625.3	1098.5	1244.0	830.5	559.2
294.5	85°	360.6	334.2	254.8	234.9	168.7	294.5	575.7	827.2	618.7	403.7
76.1	87.5°	132.3	132.3	69.5	49.6	36.4	99.3	155.5	248.1	354.0	208.4
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>
9012.7
9710.8
10045.0
9978.8
9475.9
8658.7
7834.8
7219.4
6858.8
6716.5
6633.8
6551.1
6283.1
5671.0
4926.5
4235.0
3685.8
3311.9
3302.0
3272.2
3050.6
2663.4
2441.8
2349.1
2273.0
2107.6
1995.1
1866.1
1723.8
1558.4
1485.6
1158.0
780.8
555.8
413.6
205.1
0.0

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