

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: P943205

Luminaire Tested: **GALN-SB7C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45889 lumens
Efficiency: N/A
Efficacy: 130.9 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

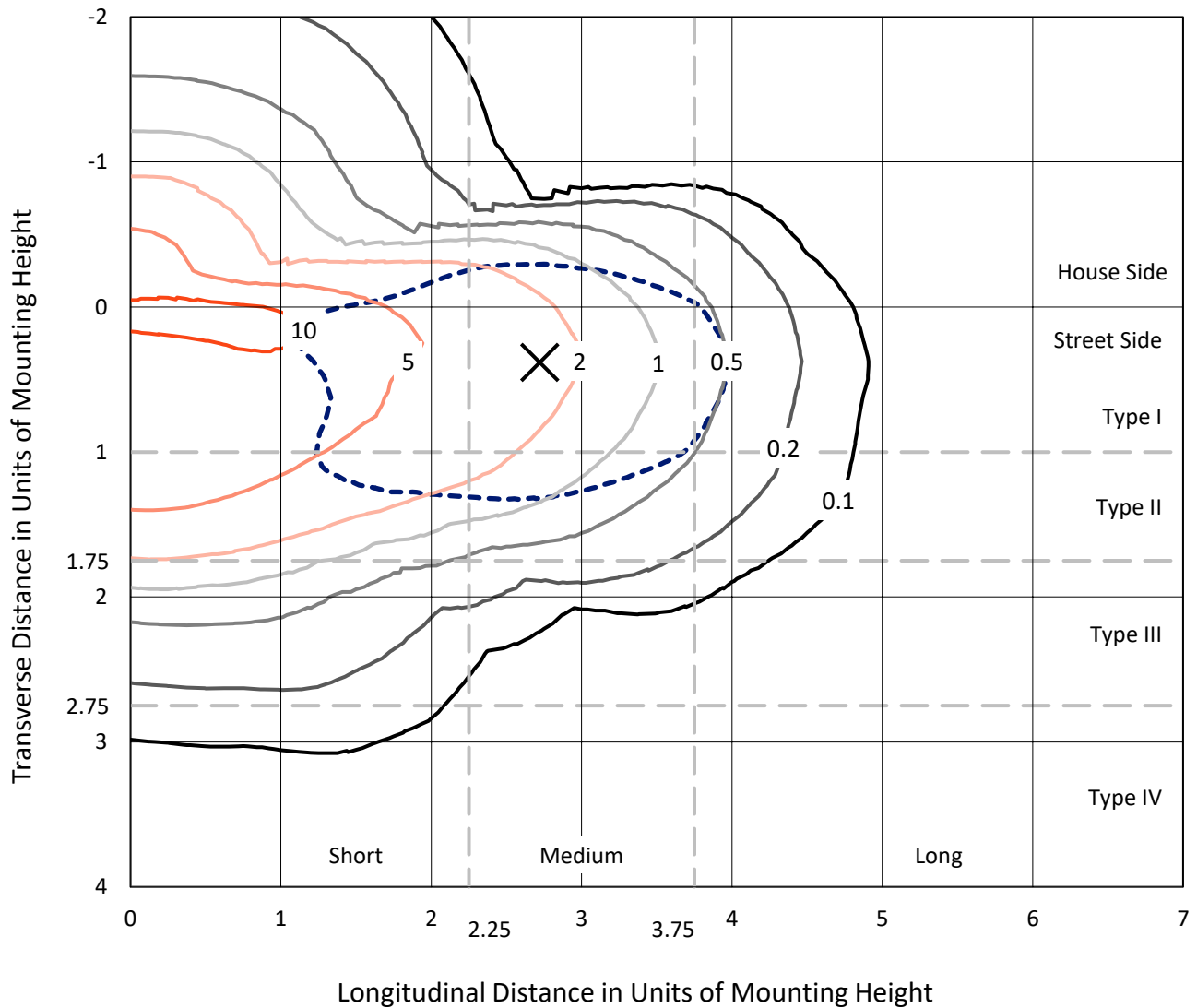
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

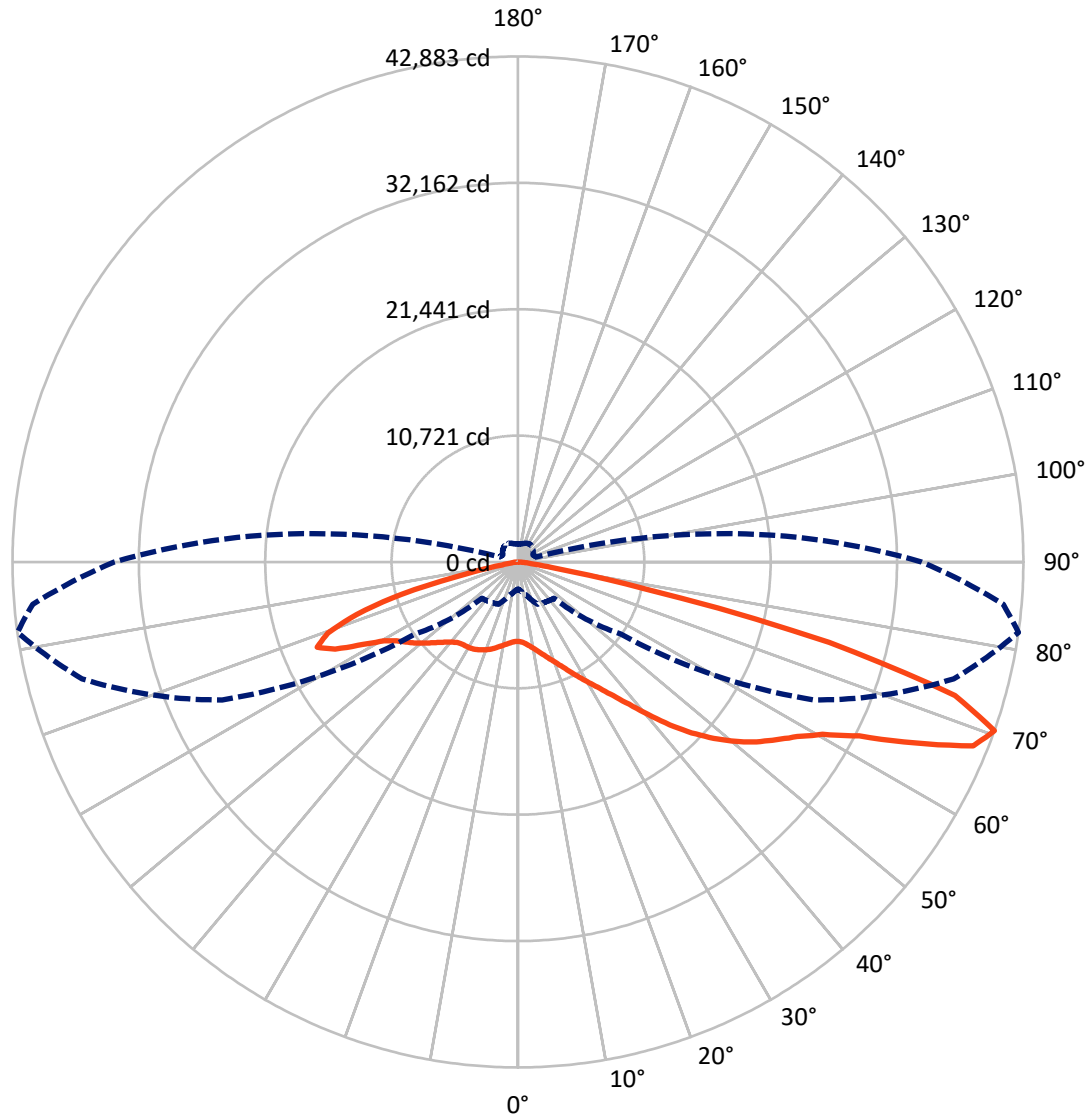
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11312.8	0.0	11312.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	34576.2	0.0	34576.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	45889.0	0.0	45889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.2	1.4
10°-20°	1825.1	4.0
20°-30°	3053.1	6.7
30°-40°	4769.8	10.4
40°-50°	7596.5	16.6
50°-60°	10571.4	23.0
60°-70°	11058.2	24.1
70°-80°	5779.6	12.6
80°-90°	600.1	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°	45889.0	100.0
0°-180°	45889.0	100.0

Coefficient of Utilization



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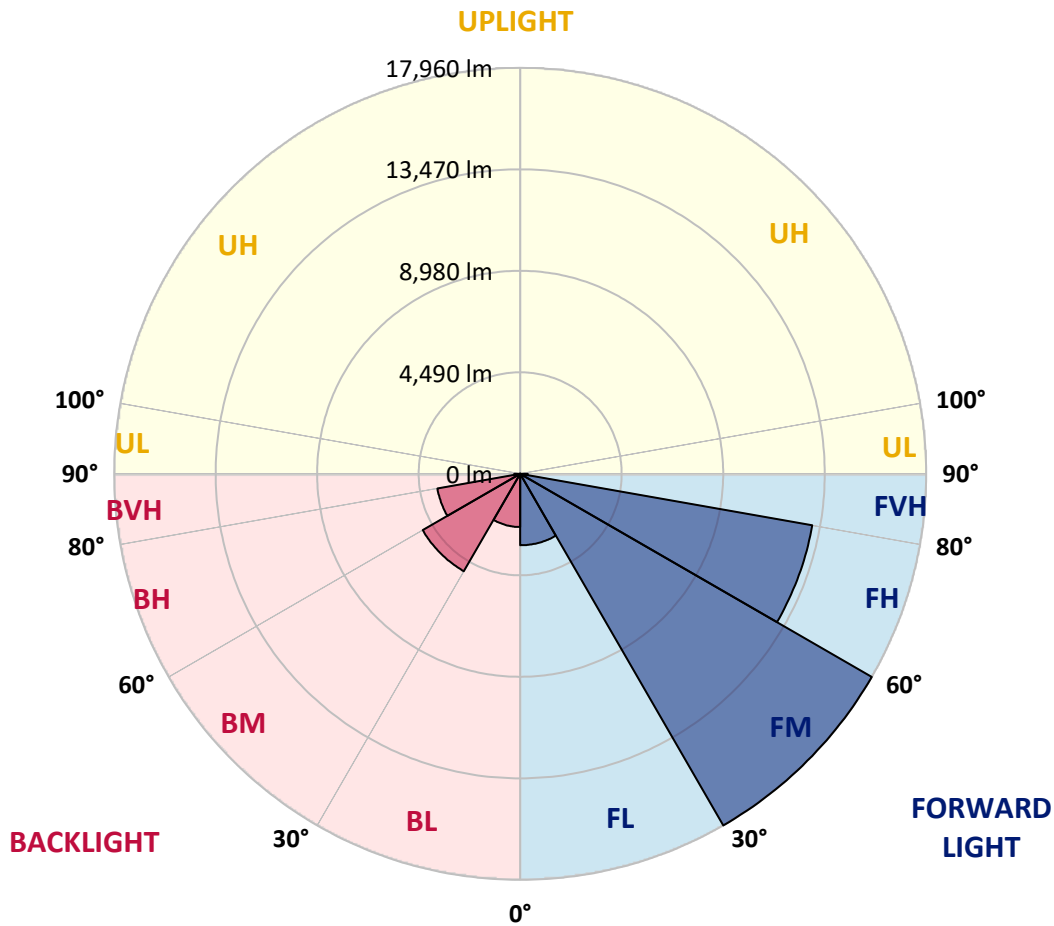
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3160.0	6.9			
FM (30°-60°)	17960.5	39.1			
FH (60°-80°)	13119.8	28.6			G5
FVH (80°-90°)	336.0	0.7			G3/500
BL (0°-30°)	2353.5	5.1	B3/2500		
BM (30°-60°)	4977.2	10.8	B3/5000		
BH (60°-80°)	3717.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	264.2	0.6			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°	82°
0°	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9
2.5°	6888.6	6927.6	6915.4	6903.2	6903.2	6886.2	6883.7	6859.4	6839.9	6808.3
5°	6976.3	7017.7	7012.8	7022.5	7054.2	7061.5	7068.8	7054.2	7015.2	6976.3
7.5°	6898.4	6944.6	6959.2	7017.7	7115.1	7202.7	7268.5	7295.3	7258.7	7202.7
10°	6635.4	6686.5	6737.6	6876.4	7049.3	7256.3	7431.6	7536.3	7529.0	7475.4
12.5°	6102.1	6155.7	6265.3	6535.5	6852.1	7217.3	7543.6	7762.8	7838.3	7799.3
15°	5676.0	5722.2	5805.0	6082.6	6494.1	7049.3	7585.0	8011.1	8203.5	8181.6
17.5°	5663.8	5683.3	5734.4	5865.9	6182.5	6786.3	7541.2	8254.6	8622.3	8619.9
20°	5878.1	5885.4	5914.6	5941.4	6121.6	6586.7	7429.2	8456.8	9092.3	9092.3
22.5°	6175.2	6170.3	6199.5	6175.2	6262.8	6569.6	7358.6	8634.5	9615.8	9654.8
25°	6620.8	6596.4	6589.1	6533.1	6550.1	6727.9	7436.5	8836.6	10236.7	10317.1
27.5°	7214.9	7175.9	7149.2	7020.1	6976.3	7054.2	7675.1	9080.1	10928.3	11067.1
30°	7989.2	7918.6	7879.7	7655.6	7497.4	7509.5	8035.5	9404.0	11651.5	11875.5
32.5°	9046.0	8936.4	8831.7	8464.1	8174.3	8079.3	8500.6	9852.0	12435.5	12793.5
35°	10229.4	10141.8	10029.8	9462.4	9016.8	8797.7	9128.8	10477.8	13353.5	13920.9
37.5°	11369.0	11293.5	11347.1	10582.5	10007.8	9688.9	9951.8	11317.9	14485.8	15323.4
40°	12547.5	12489.1	12496.4	11765.9	11096.3	10738.3	10950.2	12372.2	15783.7	16991.4
42.5°	13828.4	13784.5	13638.4	12990.7	12238.3	11904.7	12099.5	13589.7	17176.5	18890.7
45°	15262.6	15235.8	15099.4	14356.8	13494.8	13119.8	13382.8	14933.8	18576.6	20678.0
47.5°	16502.0	16523.9	16506.9	15881.1	14987.4	14437.1	14751.2	16336.4	19879.3	22358.2
50°	17098.6	17213.0	17381.0	17186.2	16631.0	16071.0	16131.9	17690.3	21121.2	23933.6
52.5°	16786.9	17003.6	17461.4	17773.1	17987.3	17870.5	17707.3	19034.4	22290.0	25355.6
55°	15625.4	15929.8	16689.5	17441.9	18535.2	19385.0	19599.3	20524.6	23429.6	26607.2
57.5°	13509.4	14003.7	14685.5	16207.4	18048.2	20118.0	21805.4	22591.9	24637.3	27944.0
60°	9881.2	10543.5	11390.9	13655.5	16343.7	19725.9	23682.8	25767.2	26354.0	29675.3
62.5°	6323.7	6732.8	7512.0	9645.0	12735.0	17717.1	24257.5	29736.2	29263.8	32514.5
65°	4329.4	4592.4	5305.9	6503.9	8232.7	13188.0	22718.5	32711.8	33885.4	37014.4
67.5°	3146.0	3345.7	3954.4	5003.9	5364.3	7804.2	17629.4	32575.4	38378.0	41650.7
70°	2293.8	2435.0	2946.3	3954.4	4127.3	4341.6	10679.9	27690.8	38280.6	42882.8
72.5°	1699.6	1797.0	2140.4	3068.1	3340.8	2931.7	5286.4	20125.3	32894.4	38787.1
75°	1229.7	1302.7	1556.0	2347.3	2673.6	2232.9	2637.1	11761.0	22945.0	27284.2
77.5°	939.9	995.9	1161.5	1719.1	2140.4	1675.3	1636.3	5410.6	10879.6	10933.1
80°	754.8	791.4	881.5	1210.2	1641.2	1254.0	1066.5	2184.2	3438.2	2909.8
82.5°	555.2	616.1	745.1	849.8	1173.7	864.4	650.1	1103.1	1307.6	1125.0
85°	316.5	357.9	450.5	608.7	750.0	528.4	372.6	489.4	608.7	499.2
87.5°	112.0	146.1	158.3	238.6	326.3	219.1	143.7	141.2	199.7	148.5
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°
6727.9	0°	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9	6727.9
6801.0	2.5°	6776.6	6764.4	6715.7	6650.0	6581.8	6516.1	6494.1	6447.9	6416.2	6399.2
6959.2	5°	6913.0	6874.0	6759.6	6613.5	6460.1	6294.5	6177.6	6070.5	5992.5	5919.5
7175.9	7.5°	7107.8	7039.6	6842.3	6586.7	6314.0	6038.8	5834.3	5678.4	5573.7	5505.5
7429.2	10°	7334.2	7229.5	6927.6	6545.3	6124.0	5729.6	5488.5	5354.6	5288.8	5252.3
7718.9	12.5°	7594.8	7446.2	7015.2	6450.3	5834.3	5383.8	5218.2	5179.2	5181.7	5184.1
8084.2	15°	7916.2	7709.2	7085.8	6243.3	5456.8	5118.4	5089.1	5152.5	5218.2	5249.9
8498.1	17.5°	8279.0	7986.8	7098.0	5902.4	5086.7	4947.9	5040.4	5176.8	5276.6	5320.5
8960.8	20°	8668.6	8269.3	7010.4	5420.3	4782.3	4809.1	4974.7	5150.0	5259.6	5315.6
9489.2	22.5°	9114.2	8571.2	6801.0	4913.8	4534.0	4658.2	4853.0	5023.4	5137.8	5193.9
10110.1	25°	9623.1	8909.7	6472.2	4487.7	4319.7	4487.7	4682.5	4823.7	4916.3	4967.4
10804.1	27.5°	10188.0	9262.7	6033.9	4149.2	4132.2	4312.4	4473.1	4582.7	4631.4	4670.3
11541.9	30°	10755.4	9584.2	5503.1	3893.6	3969.0	4139.5	4253.9	4302.6	4317.3	4324.6
12364.9	32.5°	11369.0	9861.7	4945.5	3681.7	3813.2	3971.5	4039.7	4061.6	3993.4	3947.1
13363.3	35°	12111.7	10158.8	4400.0	3513.7	3659.8	3796.2	3818.1	3798.6	3718.2	3623.3
14614.9	37.5°	13029.7	10528.9	3964.2	3394.4	3516.1	3606.2	3579.4	3574.6	3581.9	3469.9
16119.7	40°	14154.6	11011.1	3645.2	3301.9	3399.3	3418.7	3343.3	3384.6	3421.2	3250.7
17770.6	42.5°	15403.8	11593.0	3443.1	3238.5	3301.9	3255.6	3138.7	3185.0	3180.1	2956.1
19428.9	45°	16677.3	12226.1	3372.5	3192.3	3211.8	3119.2	2990.2	3002.4	2900.1	2698.0
21018.9	47.5°	17943.5	12905.5	3416.3	3153.3	3099.8	2995.0	2895.2	2841.6	2690.7	2539.7
22543.2	50°	19185.4	13618.9	3577.0	3075.4	2946.3	2885.5	2812.4	2717.5	2556.7	2427.7
23984.7	52.5°	20337.1	14337.3	3757.2	2946.3	2754.0	2790.5	2744.2	2634.7	2476.4	2344.9
25348.3	55°	21428.0	15055.6	3827.8	2768.6	2573.8	2707.7	2680.9	2478.8	2288.9	2181.8
26775.2	57.5°	22616.3	15920.0	3749.9	2542.1	2427.7	2612.8	2510.5	2286.5	2176.9	2096.5
28633.1	60°	24262.3	17276.3	3581.9	2262.1	2288.9	2471.5	2296.2	2203.7	2084.4	1994.3
31418.8	62.5°	26996.8	19806.3	3311.6	1984.5	2125.8	2262.1	2193.9	2101.4	1979.7	1892.0
36181.6	65°	31038.9	23322.4	2802.7	1767.8	1943.1	2057.6	2084.4	1991.8	1865.2	1772.7
40355.2	67.5°	34447.9	25528.5	2120.9	1587.6	1755.6	1892.0	1967.5	1877.4	1743.5	1653.4
41331.7	70°	34260.4	23926.3	1619.3	1409.9	1590.1	1728.8	1826.2	1755.6	1612.0	1526.7
37542.8	72.5°	30430.2	20015.7	1310.0	1229.7	1422.0	1558.4	1675.3	1621.7	1475.6	1392.8
27503.3	75°	22355.7	14208.2	1047.0	1047.0	1212.6	1380.6	1509.7	1475.6	1341.7	1283.2
11546.8	77.5°	9423.4	5960.9	820.6	869.3	1008.1	1185.8	1346.6	1358.7	1241.8	1314.9
3053.5	80°	2505.6	1643.6	625.8	684.2	791.4	978.9	1171.2	1166.4	1039.7	971.6
1134.7	82.5°	954.5	647.7	445.6	482.1	572.2	750.0	927.7	957.0	830.3	718.3
445.6	85°	367.7	277.6	275.2	289.8	333.6	496.7	701.3	725.6	625.8	530.8
124.2	87.5°	95.0	82.8	102.3	97.4	153.4	265.4	401.8	416.4	382.3	221.6
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>
6727.9
6418.7
5948.7
5520.1
5262.0
5189.0
5247.4
5330.2
5330.2
5208.5
4982.0
4684.9
4341.6
3961.7
3628.1
3477.2
3255.6
2953.7
2705.3
2539.7
2418.0
2347.3
2172.0
2089.2
1989.4
1892.0
1777.5
1655.8
1534.0
1392.8
1266.2
1193.1
903.4
718.3
547.9
316.5
0.0

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