

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: P943172

Luminaire Tested: **GALN-SB7C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55855 lumens
Efficiency: N/A
Efficacy: 159.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

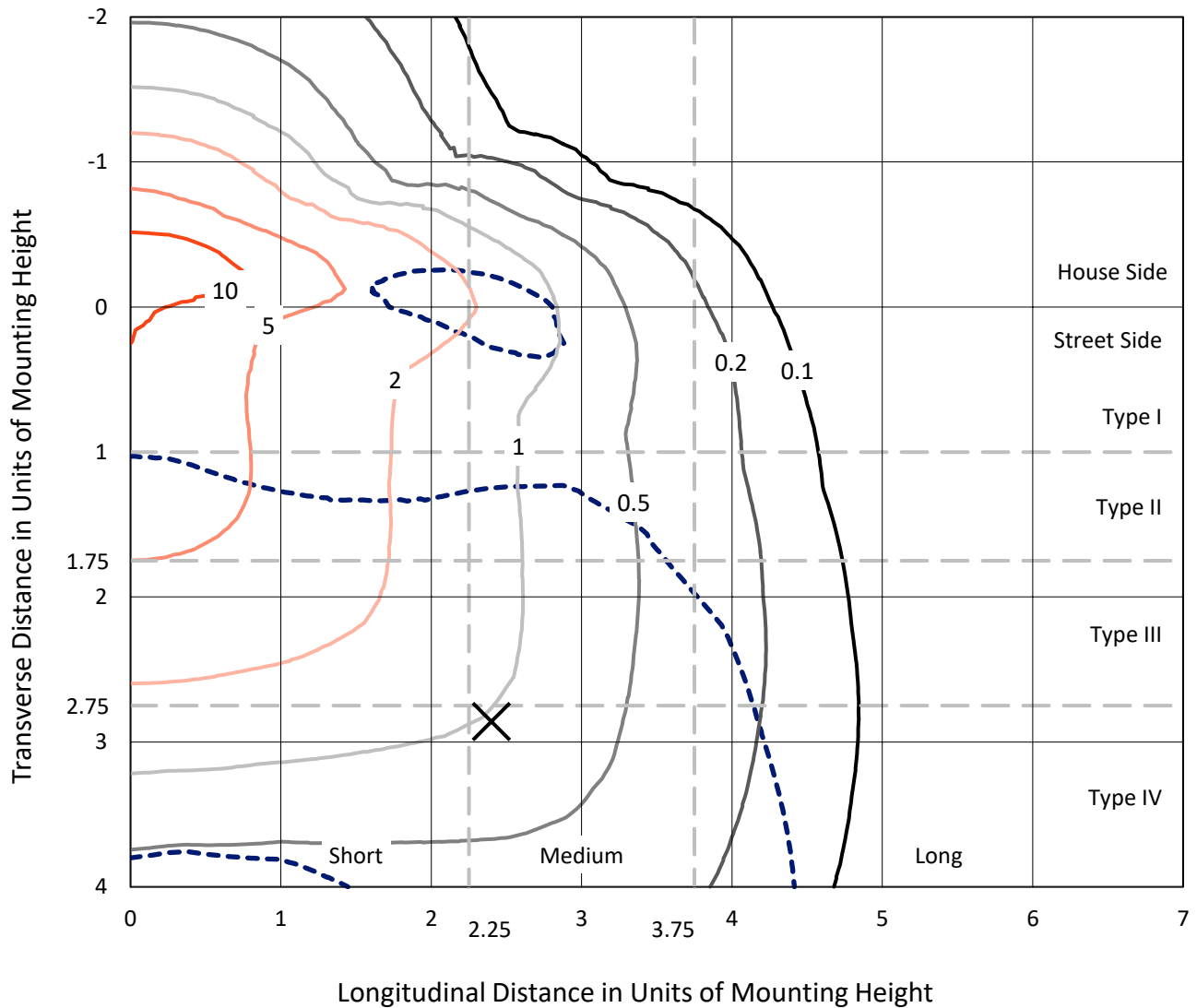
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

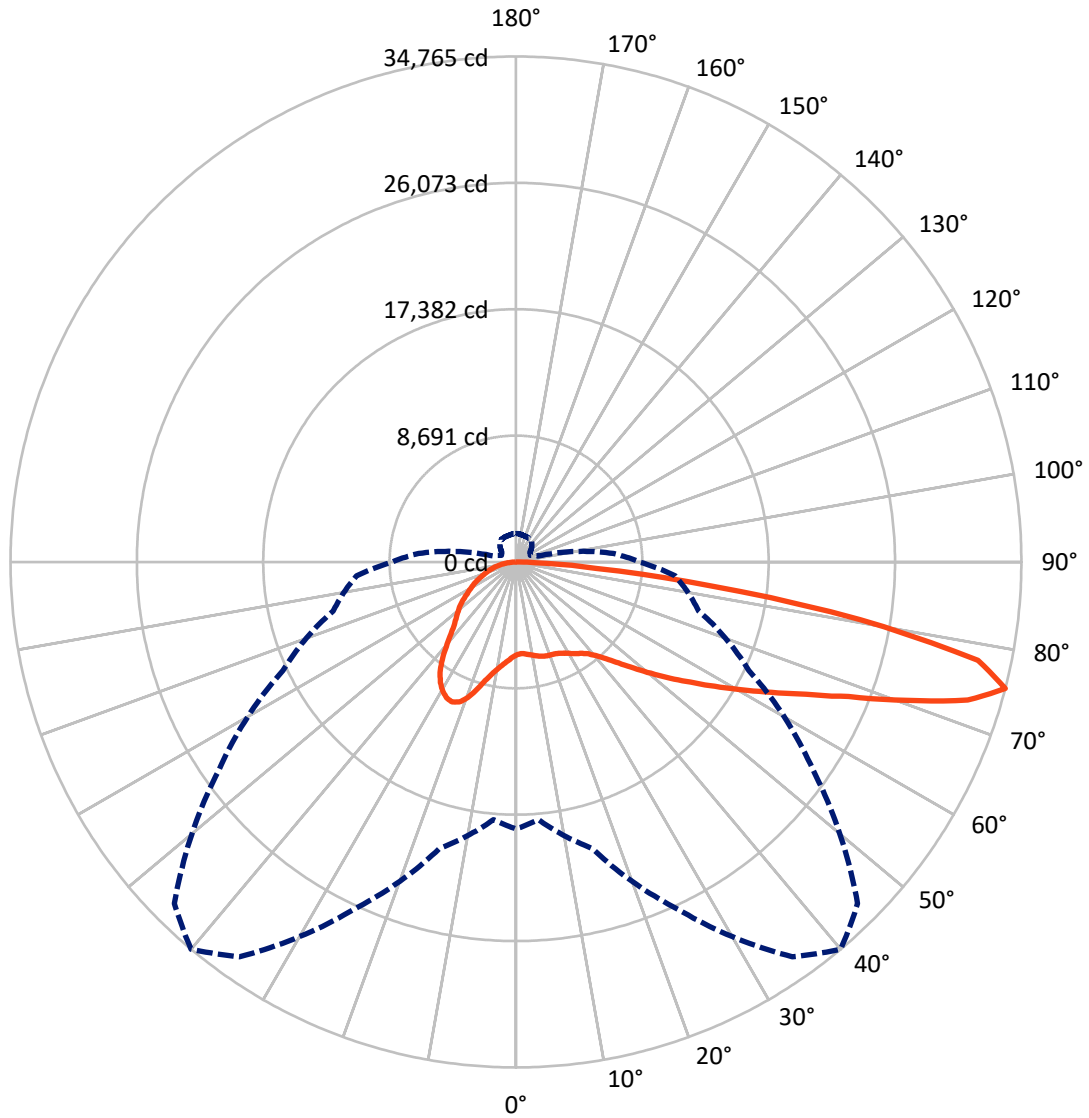
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17305.7	0.0	17305.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	38549.3	0.0	38549.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	55855.0	0.0	55855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.6	1.1
10°-20°	2140.6	3.8
20°-30°	3908.5	7.0
30°-40°	5543.3	9.9
40°-50°	7485.1	13.4
50°-60°	10069.5	18.0
60°-70°	12780.5	22.9
70°-80°	11599.1	20.8
80°-90°	1690.8	3.0
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°	55855.0	100.0
0°-180°	55855.0	100.0

Coefficient of Utilization



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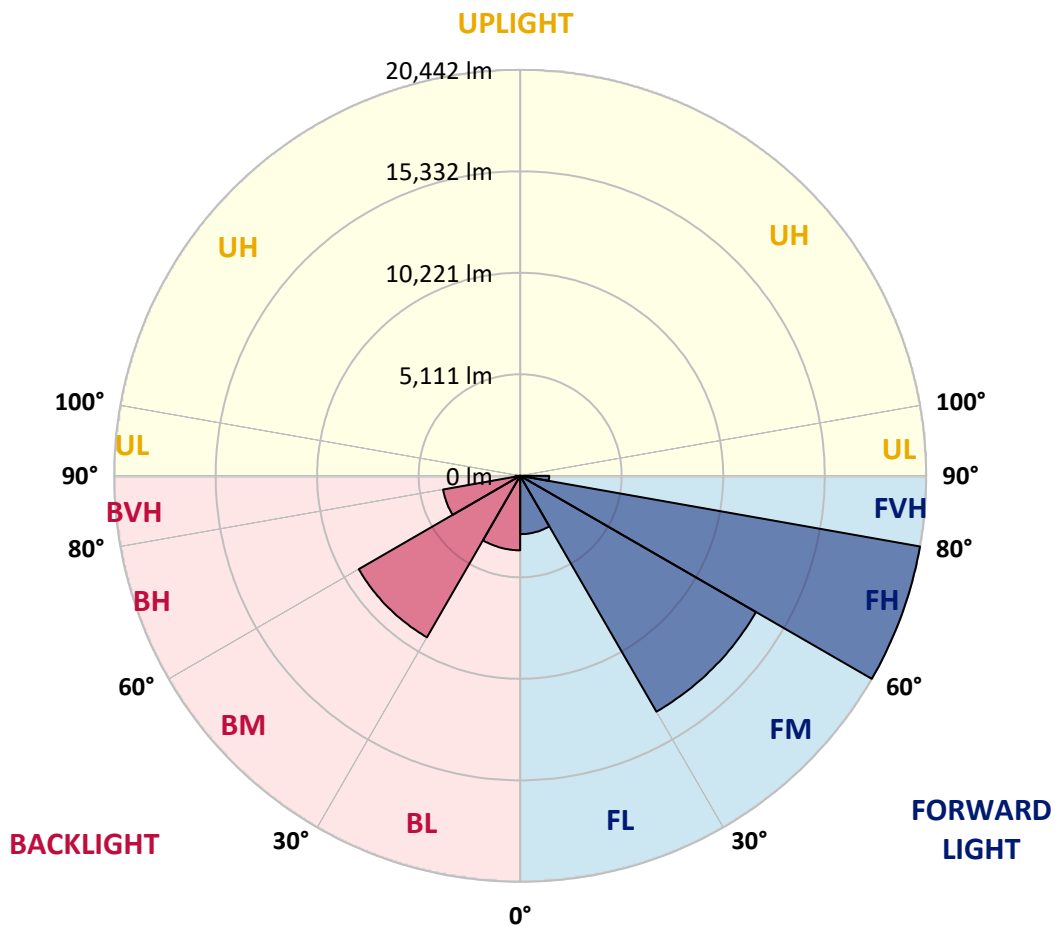
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2938.0	5.3			
FM (30°-60°)	13711.1	24.5			
FH (60°-80°)	20442.1	36.6			G5
FVH (80°-90°)	1458.0	2.6			G5
BL (0°-30°)	3748.6	6.7	B4/5000		
BM (30°-60°)	9386.8	16.8	B5		
BH (60°-80°)	3937.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	232.8	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1
2.5°	6289.3	6324.9	6316.0	6304.1	6304.1	6307.1	6304.1	6324.9	6345.6	6366.4
5°	6354.5	6390.1	6372.3	6357.5	6345.6	6342.7	6333.8	6330.8	6342.7	6369.3
7.5°	6481.9	6517.4	6490.8	6464.1	6440.4	6428.6	6416.7	6398.9	6390.1	6404.9
10°	6624.1	6659.6	6627.1	6579.7	6541.1	6526.3	6514.5	6496.7	6484.9	6493.7
12.5°	6766.3	6801.8	6757.4	6692.2	6641.9	6633.0	6618.2	6612.2	6609.3	6606.3
15°	6899.6	6929.2	6872.9	6795.9	6742.6	6727.8	6713.0	6721.9	6736.7	6754.4
17.5°	7003.3	7032.9	6950.0	6849.2	6798.9	6793.0	6784.1	6813.7	6855.2	6899.6
20°	7098.1	7127.7	7021.1	6884.8	6825.5	6825.5	6828.5	6890.7	6950.0	7015.1
22.5°	7231.4	7255.1	7124.7	6938.1	6852.2	6858.1	6881.8	6944.0	7018.1	7107.0
25°	7429.9	7447.7	7287.7	7038.8	6941.1	6958.9	6979.6	7009.2	7080.3	7184.0
27.5°	7749.8	7764.6	7554.3	7216.6	7068.5	7098.1	7127.7	7107.0	7139.6	7228.4
30°	8200.1	8209.0	7942.4	7495.1	7284.7	7299.5	7305.5	7219.5	7157.3	7228.4
32.5°	8733.4	8730.4	8413.4	7832.8	7530.6	7515.8	7465.4	7296.6	7151.4	7213.6
35°	9559.9	9527.3	9118.5	8306.8	7809.1	7717.2	7598.7	7382.5	7181.0	7198.8
37.5°	10928.6	10827.8	10262.0	9082.9	8223.8	7989.8	7815.0	7521.7	7246.2	7192.9
40°	12472.0	12344.6	11722.5	10146.5	8845.9	8469.7	8188.3	7720.2	7352.9	7219.5
42.5°	14302.8	14122.1	13452.6	11399.6	9634.0	9088.9	8665.2	7972.0	7509.9	7305.5
45°	16551.3	16311.4	15363.4	12812.7	10626.4	9900.6	9334.8	8354.2	7749.8	7471.4
47.5°	18823.6	18882.8	17534.9	14430.2	11817.3	10901.9	10173.1	8928.9	8099.4	7738.0
50°	21238.0	21279.4	19694.5	16222.5	13168.2	12033.6	11115.2	9571.8	8585.2	8117.2
52.5°	23122.1	23128.0	21655.7	18097.8	14575.4	13277.8	12131.3	10306.4	9148.1	8620.8
55°	24301.2	24286.4	23030.3	19872.3	16192.9	14584.3	13257.1	11141.9	9835.4	9213.3
57.5°	25157.3	25112.9	23978.3	21397.9	17917.0	16127.7	14530.9	12089.9	10647.1	9918.4
60°	25483.2	25456.5	24621.1	22716.2	19730.1	17834.1	16000.3	13150.4	11568.5	10750.8
62.5°	25607.6	25658.0	25252.1	23993.1	21670.5	19724.2	17614.9	14418.4	12605.3	11692.9
65°	26046.1	26137.9	26055.0	25663.9	23862.7	21937.1	19756.7	15926.3	13737.0	12703.1
67.5°	26914.1	27005.9	27041.5	27663.6	26540.8	24695.2	22428.9	17804.5	15061.2	13751.8
70°	26893.3	26866.7	27494.7	29254.4	29894.3	28513.8	26031.3	20115.2	16640.2	14622.8
72.5°	24478.9	24265.6	25749.8	29236.7	32685.0	32501.3	30430.5	23095.4	18003.0	14729.4
75°	18364.4	17795.6	20417.4	26348.2	33150.1	34764.6	33227.1	24944.0	17680.0	13014.1
77.5°	7853.5	7281.8	10371.6	19504.9	29669.2	32498.3	30661.6	21762.3	14113.2	8606.0
80°	2056.0	2053.0	3134.3	8843.0	20177.4	23999.0	21054.3	14054.0	8063.9	3075.0
82.5°	850.2	829.5	1152.4	3439.4	9859.1	13467.4	10990.8	6268.6	2912.1	832.5
85°	317.0	314.0	559.9	1188.0	3477.9	5554.6	4020.1	1602.7	725.8	405.9
87.5°	88.9	85.9	121.5	411.8	847.3	1285.7	687.3	263.7	204.4	160.0
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°
6387.1	0°	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1	6387.1
6398.9	2.5°	6407.8	6422.6	6449.3	6470.0	6496.7	6526.3	6567.8	6594.5	6621.1	6638.9
6413.8	5°	6434.5	6467.1	6535.2	6603.4	6683.3	6757.4	6843.3	6905.5	6955.9	6970.7
6467.1	7.5°	6493.7	6547.1	6662.6	6778.1	6905.5	7027.0	7151.4	7258.1	7344.0	7376.6
6561.9	10°	6597.4	6668.5	6831.5	6994.4	7163.3	7349.9	7509.9	7663.9	7785.4	7835.7
6674.5	12.5°	6727.8	6816.7	7030.0	7255.1	7489.1	7746.9	7954.2	8143.8	8294.9	8363.1
6831.5	15°	6896.6	7012.2	7284.7	7586.9	7930.5	8289.0	8552.7	8763.0	8931.9	9014.8
6994.4	17.5°	7080.3	7234.4	7578.0	8034.2	8526.0	8997.0	9305.1	9459.2	9634.0	9714.0
7145.5	20°	7258.1	7447.7	7939.4	8603.0	9257.7	9758.4	10007.2	10048.7	10060.6	10069.4
7287.7	22.5°	7441.7	7696.5	8392.7	9319.9	10022.0	10368.7	10404.2	10226.5	9977.6	9862.1
7426.9	25°	7643.2	7980.9	8985.2	10110.9	10679.7	10721.2	10448.6	10016.1	9545.1	9328.8
7539.5	27.5°	7838.7	8309.7	9696.2	10866.4	11153.7	10789.3	10202.8	9589.5	9020.7	8792.6
7619.5	30°	8034.2	8686.0	10481.2	11527.0	11370.0	10620.5	9814.7	9130.3	8558.6	8318.6
7690.6	32.5°	8232.7	9124.4	11384.8	12003.9	11331.5	10262.0	9331.8	8614.9	8111.3	7859.4
7752.8	35°	8457.9	9663.6	12240.9	12264.6	11073.7	9734.7	8694.9	7998.7	7560.2	7358.8
7826.9	37.5°	8751.1	10347.9	12996.4	12329.8	10623.4	8961.5	7903.9	7269.9	6908.5	6816.7
7936.5	40°	9115.5	11171.5	13574.1	12226.1	9956.9	8022.4	7038.8	6532.3	6327.8	6348.6
8084.6	42.5°	9589.5	12092.8	13979.9	11959.5	9029.6	7053.7	6280.4	6055.3	6153.1	6236.0
8306.8	45°	10205.7	13049.7	14231.7	11506.2	7980.9	6233.0	5833.1	5886.4	5960.5	5969.4
8665.2	47.5°	10993.7	14018.4	14397.6	10821.9	6911.5	5655.4	5548.7	5560.6	5545.8	5483.5
9201.4	50°	11977.3	14960.5	14545.7	9915.4	6002.0	5293.9	5151.7	5110.3	4905.9	4704.4
9915.4	52.5°	13097.1	15825.5	14608.0	8789.7	5293.9	4991.8	4760.7	4500.0	4117.8	4055.6
10813.0	55°	14341.3	16625.4	14448.0	7406.2	4698.5	4603.7	4254.1	3940.1	3898.6	3845.3
11995.1	57.5°	15828.5	17487.5	14122.1	5862.7	4088.2	4150.4	3809.7	3845.3	3771.2	3688.3
13514.8	60°	17454.9	18379.2	13550.4	4455.6	3457.2	3584.6	3694.2	3691.2	3670.5	3602.4
15117.5	62.5°	18918.4	18965.8	12424.6	3412.8	2903.2	3146.1	3445.4	3442.4	3424.6	3386.1
16791.3	65°	19789.3	18876.9	10546.4	2687.0	2447.0	2784.7	3107.6	3131.3	3134.3	3131.3
18050.4	67.5°	19635.3	17837.1	7969.1	2138.9	2070.8	2417.4	2772.9	2805.5	2829.2	2835.1
18210.3	70°	17893.3	15553.0	5196.2	1706.4	1736.0	2094.5	2455.9	2488.5	2509.2	2532.9
15801.8	72.5°	13947.3	11435.1	2974.3	1380.5	1442.7	1816.0	2141.9	2180.4	2192.2	2236.7
10996.7	75°	8499.3	6724.8	1605.7	1087.2	1185.0	1552.3	1830.8	1875.2	1896.0	1949.3
5400.6	77.5°	4040.8	2912.1	915.4	847.3	953.9	1267.9	1546.4	1596.8	1540.5	1570.1
1490.1	80°	1365.7	1081.3	577.7	645.8	728.8	989.5	1238.3	1288.7	1170.2	1164.3
494.7	82.5°	477.0	438.4	367.3	429.6	471.0	708.0	936.1	1001.3	871.0	868.0
222.2	85°	186.6	177.7	204.4	234.0	281.4	435.5	616.2	648.8	536.2	432.5
65.2	87.5°	38.5	41.5	50.4	53.3	85.9	151.1	222.2	272.5	216.3	183.7
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>
6387.1
6627.1
6976.6
7379.5
7838.7
8363.1
9008.9
9711.0
10093.1
9894.7
9361.4
8819.3
8345.3
7892.0
7403.2
6881.8
6419.7
6313.0
6028.6
5530.9
4731.1
4076.4
3854.2
3673.5
3578.7
3371.3
3131.3
2841.0
2544.8
2254.4
1955.2
1546.4
1152.4
826.5
426.6
168.9
0.0

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