

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: P953490

Luminaire Tested: **GALN-SB7A-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32986 lumens
Efficiency: N/A
Efficacy: 165.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

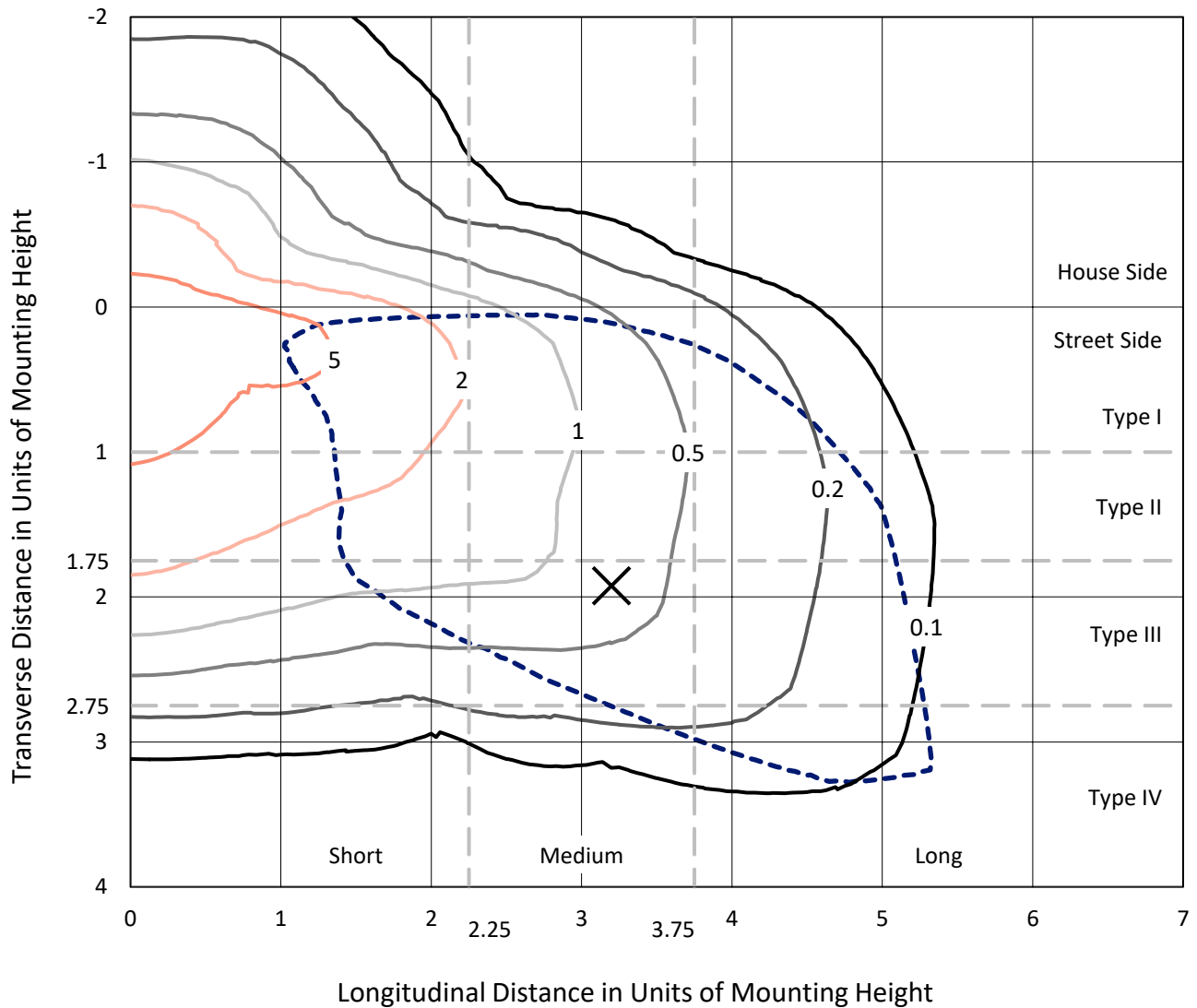
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

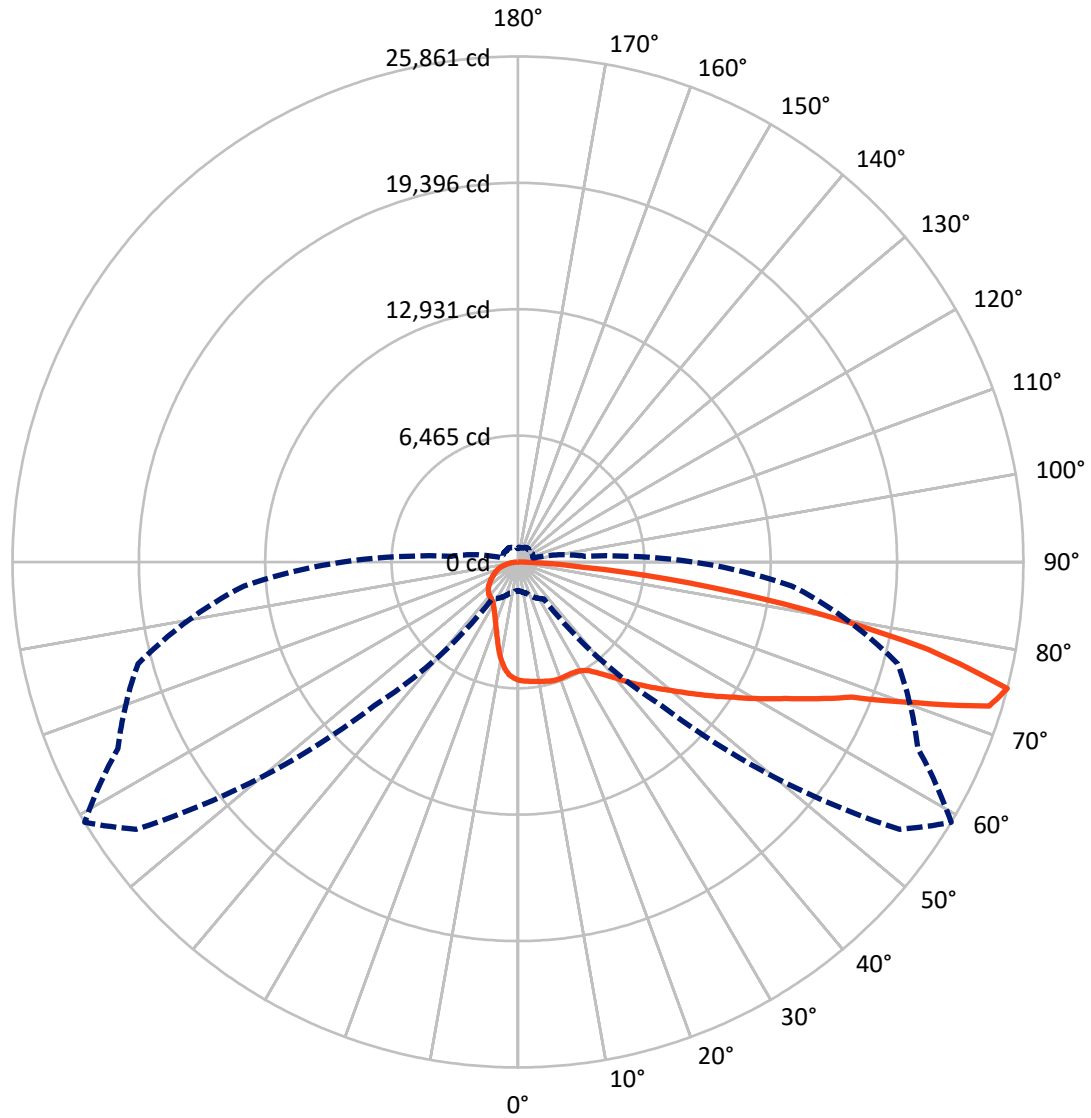
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6186.8	0.0	6186.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26799.2	0.0	26799.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	32986.0	0.0	32986.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.9	1.6
10°-20°	1387.6	4.2
20°-30°	2107.7	6.4
30°-40°	3133.1	9.5
40°-50°	4659.4	14.1
50°-60°	6324.6	19.2
60°-70°	7721.3	23.4
70°-80°	6059.6	18.4
80°-90°	1049.7	3.2
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°	32986.0	100.0
0°-180°	32986.0	100.0



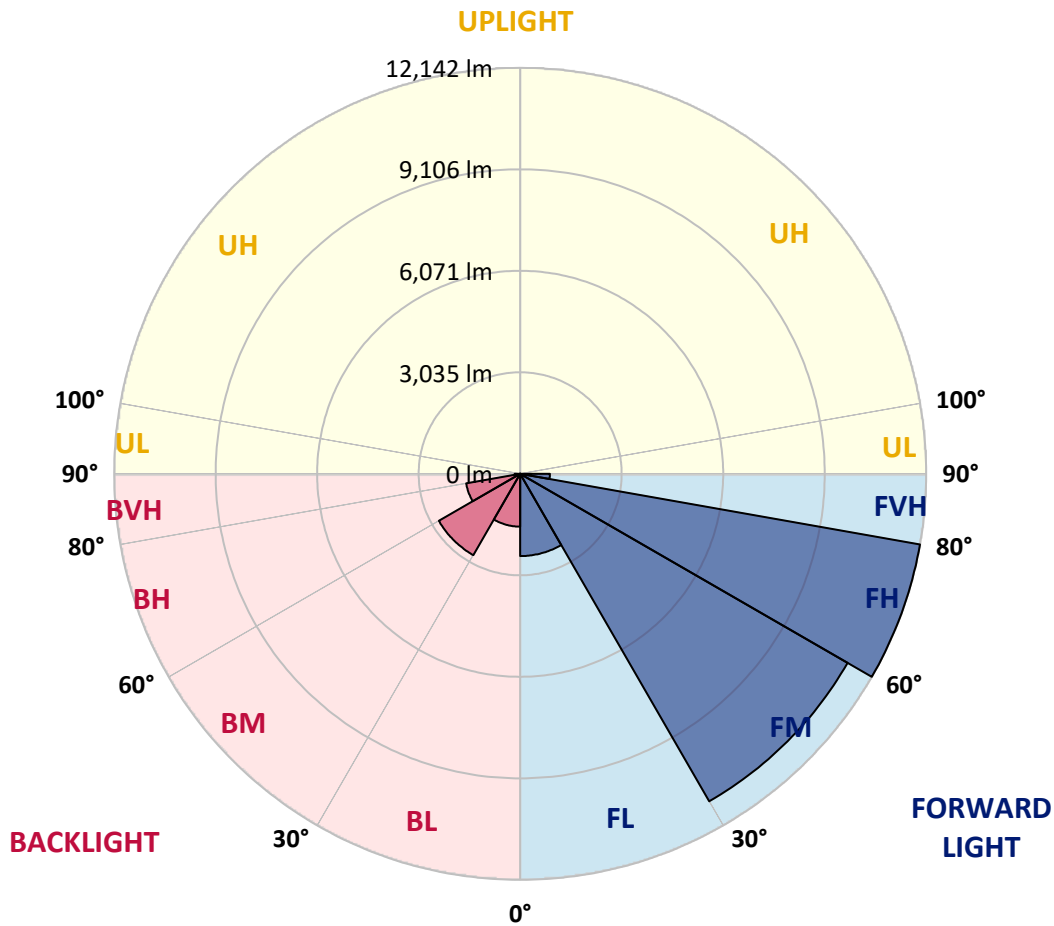
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2459.5	7.5			
FM (30°-60°)	11309.0	34.3			
FH (60°-80°)	12141.8	36.8			G5
FVH (80°-90°)	889.0	2.7			G5
BL (0°-30°)	1578.8	4.8	B3/2500		
BM (30°-60°)	2808.2	8.5	B3/5000		
BH (60°-80°)	1639.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	160.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5
2.5°	6106.0	6084.7	6106.0	6097.1	6093.5	6086.4	6088.2	6100.6	6093.5	6102.4
5°	6065.2	6052.7	6074.0	6068.7	6091.8	6095.3	6118.4	6132.6	6141.5	6143.2
7.5°	5997.7	5985.3	6015.5	6040.3	6090.0	6104.2	6152.1	6175.2	6187.6	6208.9
10°	5751.1	5745.7	5820.3	5914.3	6031.4	6104.2	6176.9	6216.0	6235.5	6292.3
12.5°	5314.6	5321.6	5419.2	5600.2	5834.5	6068.7	6205.3	6262.1	6292.3	6363.3
15°	4897.5	4895.8	5002.2	5195.7	5523.9	5912.5	6219.5	6317.1	6368.6	6473.3
17.5°	4656.2	4649.1	4723.7	4870.9	5176.1	5673.0	6184.0	6347.3	6457.3	6588.6
20°	4611.9	4597.7	4636.7	4709.5	4925.9	5410.4	6091.8	6347.3	6528.3	6698.6
22.5°	4773.3	4750.3	4734.3	4725.4	4821.2	5193.9	5987.1	6326.0	6633.0	6856.6
25°	5098.1	5062.6	4980.9	4901.1	4872.7	5096.3	5894.8	6320.7	6789.1	7069.5
27.5°	5623.3	5578.9	5413.9	5222.3	5050.2	5146.0	5854.0	6352.6	6961.3	7294.9
30°	6274.5	6226.6	6019.0	5724.5	5415.7	5330.5	5905.5	6446.7	7181.3	7594.8
32.5°	6858.3	6805.1	6627.7	6327.8	5910.8	5649.9	6068.7	6625.9	7527.3	8011.8
35°	7376.5	7314.4	7154.7	6877.9	6517.6	6098.9	6363.3	6943.5	8018.9	8689.6
37.5°	7884.0	7811.2	7637.3	7344.5	7092.6	6696.9	6769.6	7351.6	8671.9	9513.0
40°	8451.8	8347.1	8136.0	7846.7	7601.8	7397.8	7303.7	7852.0	9335.5	10432.1
42.5°	9001.9	8902.5	8650.6	8403.9	8096.9	8038.4	7923.0	8437.6	10061.3	11441.8
45°	9594.6	9475.7	9170.5	8858.2	8664.8	8464.2	8522.8	9023.2	10772.8	12471.0
47.5°	10150.0	10016.9	9656.7	9308.9	9202.4	8822.7	9072.9	9667.3	11512.8	13514.4
50°	10449.9	10318.6	10018.7	9704.6	9621.2	9264.5	9669.1	10375.4	12288.2	14554.2
52.5°	10700.1	10558.1	10166.0	9992.1	9967.2	9745.4	10403.7	11184.5	13063.7	15473.4
55°	10966.3	10808.3	10307.9	10151.8	10265.3	10284.9	11275.0	12101.9	13883.5	16369.5
57.5°	11273.2	11072.7	10444.6	10286.6	10556.3	10916.6	12275.8	13053.0	14689.1	17200.0
60°	11562.5	11360.2	10707.2	10501.3	10870.4	11649.4	13423.9	14204.7	15601.2	17939.9
62.5°	11619.3	11452.5	10916.6	10914.8	11296.3	12504.7	14783.1	15366.9	16397.9	18671.0
65°	10636.2	10531.5	10213.9	10898.8	11906.7	13736.2	16296.8	16854.0	17411.1	19309.8
67.5°	8095.2	8109.3	8086.3	9408.3	11413.4	15505.4	18488.2	18445.7	18662.1	20026.7
70°	3701.6	3785.0	4327.9	6494.6	9143.9	15709.4	22111.7	21559.9	20232.6	20954.8
72.5°	1999.8	2063.7	2285.5	3146.1	5497.3	13966.9	24819.6	25211.7	22321.1	21579.4
75°	1467.5	1503.0	1657.4	1999.8	2308.6	10380.7	23848.9	25861.2	22582.0	20122.5
77.5°	1098.4	1114.4	1240.4	1584.6	1181.8	5472.5	19056.1	21417.9	19331.1	16532.8
80°	796.7	814.5	908.5	1188.9	828.7	2001.6	13085.0	15033.3	13239.4	10538.6
82.5°	550.1	557.2	598.0	809.2	578.5	777.2	7424.4	8815.6	7390.7	3698.0
85°	331.8	340.7	358.4	472.0	328.3	369.1	3204.7	3314.7	2209.2	883.7
87.5°	136.6	145.5	159.7	198.7	129.5	102.9	528.8	663.7	413.5	259.1
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°
6054.5	0°	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5	6054.5
6072.3	2.5°	6063.4	6051.0	6017.2	5971.1	5928.5	5875.3	5852.2	5832.7	5815.0	5781.2
6120.2	5°	6100.6	6066.9	5976.4	5859.3	5726.2	5580.7	5438.8	5341.2	5257.8	5195.7
6175.2	7.5°	6157.4	6093.5	5928.5	5689.0	5383.8	5071.4	4789.3	4588.8	4438.0	4383.0
6253.2	10°	6216.0	6139.7	5852.2	5429.9	4902.9	4422.0	4047.6	3841.7	3721.1	3682.0
6345.5	12.5°	6285.2	6173.4	5733.3	5069.7	4365.2	3838.2	3511.7	3391.0	3328.9	3307.6
6459.1	15°	6386.3	6201.8	5554.1	4619.0	3852.4	3412.3	3201.2	3117.8	3085.8	3084.0
6576.2	17.5°	6462.6	6207.1	5275.5	4136.3	3458.5	3155.0	2981.1	2949.2	2970.5	3002.4
6691.5	20°	6547.8	6159.2	4910.0	3696.2	3181.6	2929.7	2856.9	2878.2	2929.7	2975.8
6844.1	22.5°	6608.1	6072.3	4468.1	3353.8	2942.1	2800.1	2796.6	2840.9	2869.3	2892.4
7023.4	25°	6661.4	5925.0	3999.7	3066.3	2745.1	2722.0	2761.1	2746.9	2727.4	2746.9
7202.6	27.5°	6700.4	5692.5	3580.9	2814.3	2606.7	2668.8	2645.7	2613.8	2612.0	2622.7
7413.8	30°	6688.0	5382.0	3236.6	2574.8	2509.1	2569.4	2514.4	2509.1	2503.8	2509.1
7731.4	32.5°	6688.0	5028.9	2972.2	2409.7	2447.0	2423.9	2418.6	2406.2	2384.9	2383.1
8162.6	35°	6725.3	4675.7	2745.1	2321.0	2395.5	2340.5	2344.1	2313.9	2269.6	2248.3
8734.0	37.5°	6801.6	4391.8	2519.8	2278.4	2305.0	2303.3	2289.1	2237.6	2159.5	2092.1
9447.3	40°	6986.1	4308.4	2365.4	2258.9	2262.5	2283.7	2246.5	2147.1	1969.7	1859.6
10171.3	42.5°	7275.3	4448.6	2331.7	2211.0	2234.1	2255.4	2182.6	1951.9	1825.9	1760.3
10930.8	45°	7642.7	4693.5	2404.4	2141.8	2166.6	2203.9	1987.4	1877.4	1820.6	1822.4
11683.1	47.5°	8107.6	4950.8	2539.3	2081.5	2069.0	2090.3	1857.9	1790.4	1712.4	1731.9
12405.4	50°	8645.2	5211.6	2667.0	1999.8	1960.8	1891.6	1774.5	1710.6	1611.2	1565.1
13102.7	52.5°	9227.3	5463.6	2718.5	1900.5	1843.7	1763.8	1717.7	1639.6	1519.0	1442.6
13761.0	55°	9779.1	5692.5	2661.7	1781.6	1726.6	1664.5	1657.4	1609.4	1479.9	1373.4
14346.6	57.5°	10300.8	5884.2	2519.8	1660.9	1607.7	1570.4	1618.3	1595.3	1432.0	1295.4
14900.3	60°	10742.7	6015.5	2313.9	1538.5	1501.2	1481.7	1554.4	1547.3	1364.6	1212.0
15397.1	62.5°	11094.0	6066.9	2086.8	1421.4	1412.5	1377.0	1465.7	1465.7	1279.4	1130.3
15833.6	65°	11369.1	6017.2	1856.1	1306.0	1323.8	1270.5	1357.5	1346.8	1188.9	1057.6
16335.8	67.5°	11612.2	5854.0	1600.6	1192.4	1233.3	1165.8	1243.9	1219.1	1089.5	984.8
16770.6	70°	11720.4	5474.3	1309.6	1078.9	1128.6	1062.9	1130.3	1084.2	977.7	906.8
16293.2	72.5°	10850.9	4549.8	1031.0	960.0	1002.6	949.3	1007.9	954.7	857.1	825.1
14069.8	75°	8977.1	3414.1	793.2	830.5	862.4	821.6	860.6	821.6	732.9	755.9
10393.1	77.5°	6519.4	2305.0	606.9	693.8	708.0	686.7	720.4	676.1	596.2	590.9
5179.7	80°	3242.0	1350.4	475.6	548.3	543.0	528.8	567.8	546.5	479.1	507.5
1398.3	82.5°	938.7	578.5	346.0	385.1	374.4	378.0	406.4	417.0	624.6	619.3
434.7	85°	294.6	227.1	207.6	214.7	204.1	209.4	239.6	475.6	440.1	257.3
134.9	87.5°	76.3	78.1	51.5	55.0	56.8	67.4	76.3	289.2	138.4	90.5
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>
6054.5
5765.3
5144.2
4287.1
3621.7
3312.9
3091.1
3014.8
2991.8
2904.8
2759.3
2640.4
2528.6
2406.2
2269.6
2115.2
1873.8
1760.3
1831.3
1781.6
1577.5
1440.9
1373.4
1288.3
1206.6
1125.0
1050.5
977.7
892.6
798.5
690.3
564.3
502.2
633.5
278.6
95.8
0.0

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