

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: P952923

Luminaire Tested: **GALN-SB6C-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952923
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-SB6C-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42455 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

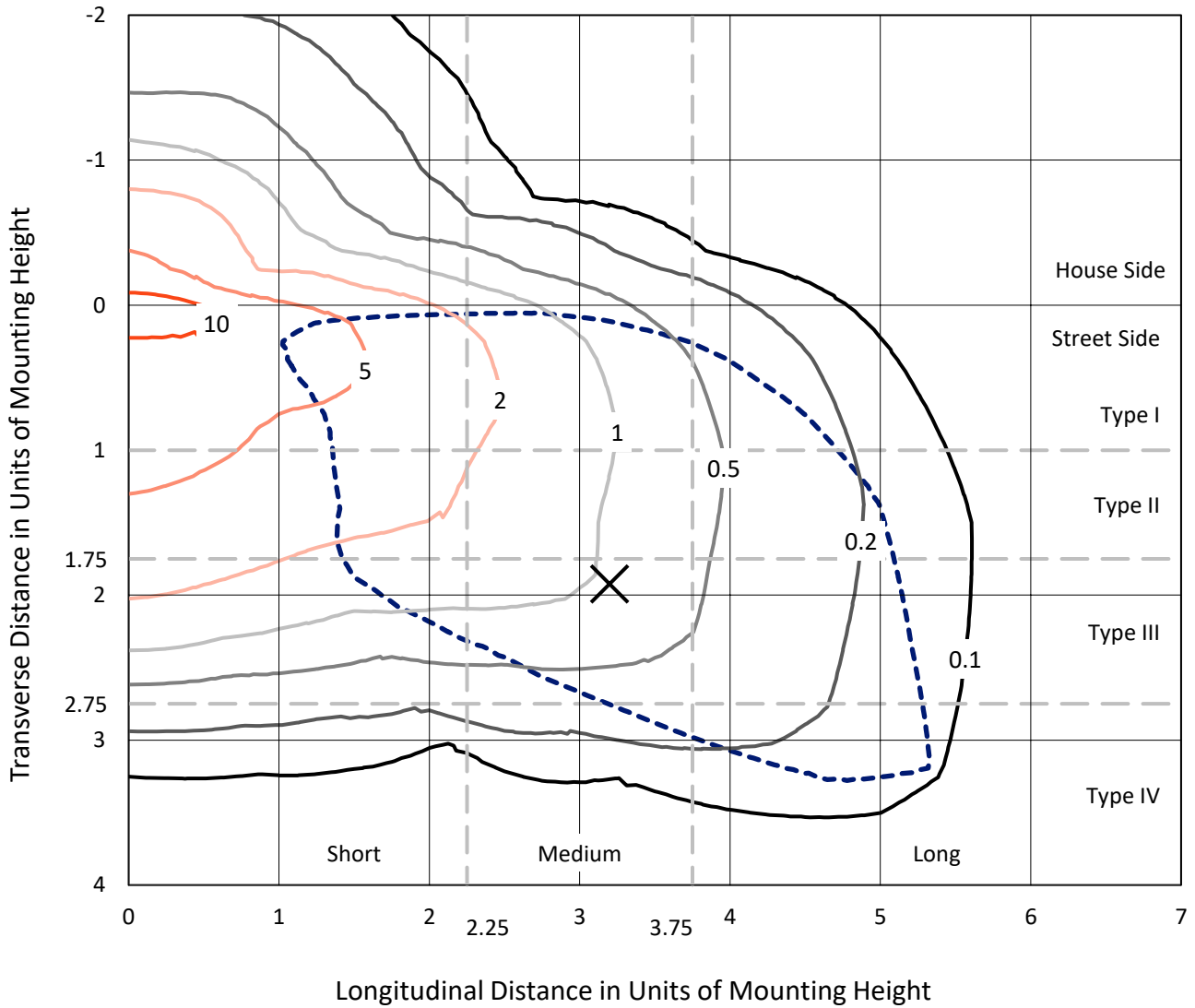
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

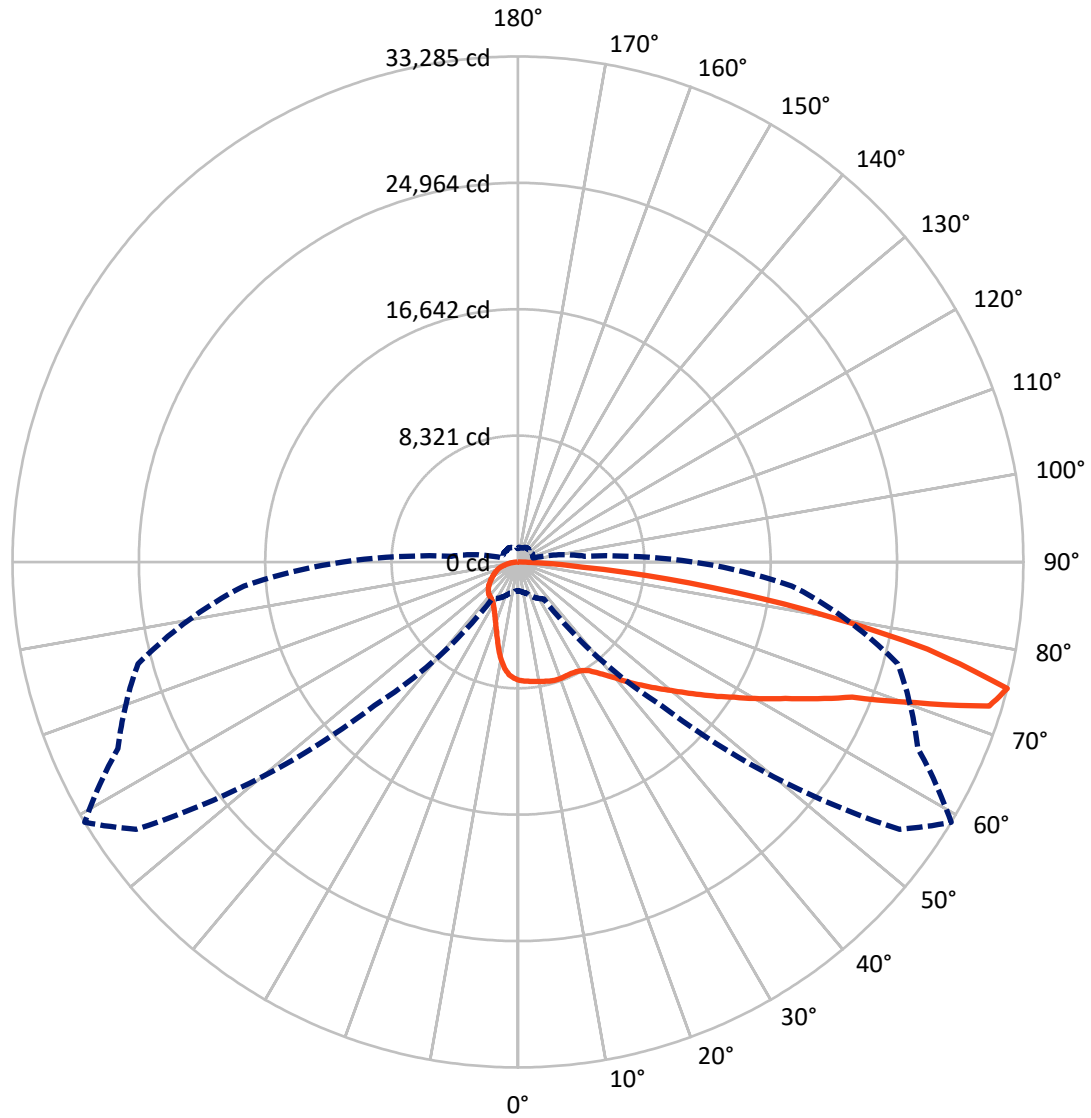
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	7962.7	0.0	7962.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34492.3	0.0	34492.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	42455.0	0.0	42455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.7	1.6
10°-20°	1786.0	4.2
20°-30°	2712.8	6.4
30°-40°	4032.5	9.5
40°-50°	5997.0	14.1
50°-60°	8140.2	19.2
60°-70°	9937.8	23.4
70°-80°	7799.1	18.4
80°-90°	1351.0	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°	42455.0	100.0
0°-180°	42455.0	100.0

Coefficient of Utilization



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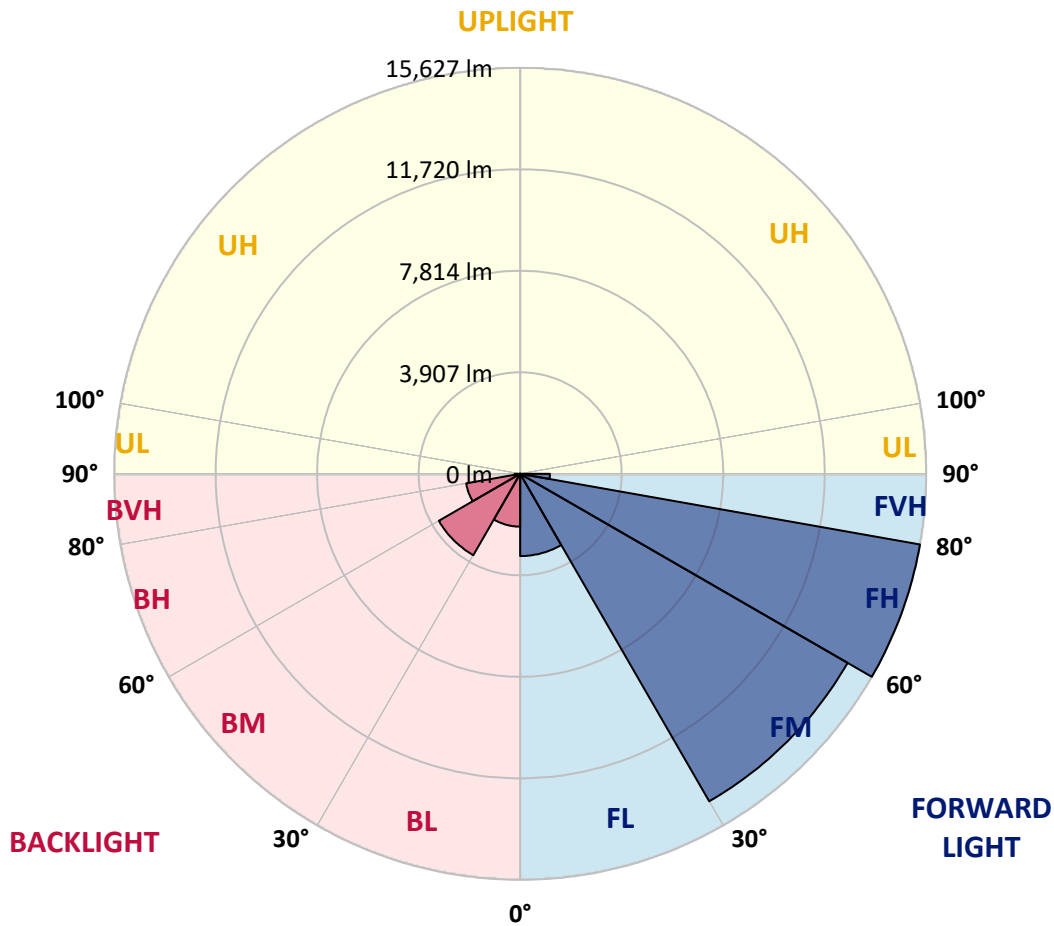
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3165.5	7.5			
FM (30°-60°)	14555.3	34.3			
FH (60°-80°)	15627.3	36.8			G5
FVH (80°-90°)	1144.2	2.7			G5
BL (0°-30°)	2032.0	4.8	B3/2500		
BM (30°-60°)	3614.3	8.5	B3/5000		
BH (60°-80°)	2109.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	206.8	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°	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5
2.5°	7858.8	7831.3	7858.8	7847.3	7842.8	7833.6	7835.9	7851.9	7842.8	7854.2
5°	7806.2	7790.2	7817.6	7810.8	7840.5	7845.0	7874.7	7893.0	7904.4	7906.7
7.5°	7719.4	7703.5	7742.3	7774.2	7838.2	7856.5	7918.1	7947.8	7963.8	7991.2
10°	7402.0	7395.1	7491.1	7612.1	7762.8	7856.5	7950.1	8000.4	8025.5	8098.6
12.5°	6840.2	6849.3	6974.9	7207.9	7509.3	7810.8	7986.6	8059.7	8098.6	8189.9
15°	6303.4	6301.2	6438.2	6687.1	7109.6	7609.8	8004.9	8130.5	8196.8	8331.5
17.5°	5992.8	5983.7	6079.6	6269.2	6662.0	7301.5	7959.2	8169.4	8311.0	8480.0
20°	5935.7	5917.5	5967.7	6061.4	6340.0	6963.5	7840.5	8169.4	8402.3	8621.6
22.5°	6143.6	6113.9	6093.3	6081.9	6205.2	6684.8	7705.7	8142.0	8537.1	8824.8
25°	6561.5	6515.8	6410.8	6308.0	6271.5	6559.2	7587.0	8135.1	8738.0	9098.9
27.5°	7237.5	7180.4	6968.0	6721.4	6499.9	6623.2	7534.4	8176.2	8959.6	9388.9
30°	8075.7	8014.1	7746.8	7367.7	6970.3	6860.7	7600.7	8297.3	9242.8	9774.9
32.5°	8827.1	8758.6	8530.2	8144.2	7607.5	7271.8	7810.8	8527.9	9688.1	10311.6
35°	9494.0	9414.1	9208.5	8852.2	8388.6	7849.6	8189.9	8936.7	10320.8	11184.0
37.5°	10147.2	10053.5	9829.7	9452.9	9128.6	8619.3	8712.9	9462.0	11161.2	12243.8
40°	10878.0	10743.3	10471.5	10099.2	9784.0	9521.4	9400.4	10106.1	12015.4	13426.8
42.5°	11586.0	11458.1	11133.8	10816.3	10421.2	10345.9	10197.4	10859.7	12949.5	14726.3
45°	12348.8	12195.8	11803.0	11401.0	11152.1	10894.0	10969.4	11613.4	13865.3	16050.9
47.5°	13063.7	12892.4	12428.8	11981.1	11844.1	11355.3	11677.4	12442.5	14817.7	17393.9
50°	13449.6	13280.6	12894.7	12490.4	12383.1	11924.0	12444.7	13353.7	15815.7	18732.2
52.5°	13771.7	13589.0	13084.2	12860.4	12828.4	12542.9	13390.3	14395.2	16813.8	19915.2
55°	14114.2	13911.0	13266.9	13065.9	13212.1	13237.2	14511.6	15575.9	17868.9	21068.6
57.5°	14509.3	14251.3	13442.8	13239.5	13586.7	14050.3	15799.7	16800.1	18905.8	22137.4
60°	14881.6	14621.3	13780.8	13515.9	13990.9	14993.5	17277.4	18282.3	20079.7	23089.8
62.5°	14954.7	14740.0	14050.3	14048.0	14539.0	16094.3	19026.8	19778.2	21105.1	24030.7
65°	13689.4	13554.7	13145.9	14027.5	15324.7	17679.3	20974.9	21692.1	22409.2	24852.9
67.5°	10419.0	10437.2	10407.5	12109.0	14689.8	19956.3	23795.5	23740.7	24019.3	25775.6
70°	4764.1	4871.5	5570.3	8358.9	11768.7	20219.0	28459.1	27748.9	26040.5	26970.1
72.5°	2573.9	2656.1	2941.6	4049.3	7075.4	17976.2	31944.3	32449.0	28728.6	27774.0
75°	1888.7	1934.4	2133.1	2573.9	2971.3	13360.6	30695.0	33284.9	29064.4	25898.9
77.5°	1413.7	1434.3	1596.4	2039.5	1521.0	7043.4	24526.3	27566.2	24880.3	21278.7
80°	1025.5	1048.3	1169.3	1530.2	1066.6	2576.2	16841.2	19348.8	17039.9	13563.8
82.5°	708.0	717.1	769.7	1041.4	744.5	1000.3	9555.7	11346.2	9512.3	4759.6
85°	427.1	438.5	461.3	607.5	422.5	475.0	4124.6	4266.2	2843.4	1137.4
87.5°	175.9	187.3	205.5	255.8	166.7	132.5	680.6	854.2	532.1	333.4
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°
7792.5	0°	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5	7792.5
7815.4	2.5°	7803.9	7788.0	7744.6	7685.2	7630.4	7561.9	7532.2	7507.0	7484.2	7440.8
7877.0	5°	7851.9	7808.5	7692.0	7541.3	7370.0	7182.7	7000.0	6874.4	6767.1	6687.1
7947.8	7.5°	7925.0	7842.8	7630.4	7322.0	6929.2	6527.3	6164.1	5906.1	5711.9	5641.1
8048.3	10°	8000.4	7902.1	7532.2	6988.6	6310.3	5691.4	5209.5	4944.6	4789.2	4739.0
8167.1	12.5°	8089.4	7945.5	7379.1	6525.0	5618.3	4940.0	4519.8	4364.5	4284.5	4257.1
8313.2	15°	8219.6	7982.1	7148.5	5944.9	4958.3	4391.9	4120.1	4012.7	3971.6	3969.3
8464.0	17.5°	8317.8	7988.9	6789.9	5323.7	4451.2	4060.7	3836.9	3795.8	3823.2	3864.3
8612.4	20°	8427.4	7927.3	6319.4	4757.3	4095.0	3770.6	3677.0	3704.4	3770.6	3830.0
8808.8	22.5°	8505.1	7815.4	5750.8	4316.5	3786.6	3603.9	3599.4	3656.5	3693.0	3722.7
9039.5	25°	8573.6	7625.8	5147.8	3946.5	3533.1	3503.4	3553.7	3535.4	3510.3	3535.4
9270.2	27.5°	8623.8	7326.6	4608.8	3622.2	3355.0	3434.9	3405.2	3364.1	3361.8	3375.5
9542.0	30°	8607.9	6926.9	4165.8	3313.9	3229.4	3307.0	3236.2	3229.4	3222.5	3229.4
9950.8	32.5°	8607.9	6472.5	3825.5	3101.5	3149.4	3119.7	3112.9	3096.9	3069.5	3067.2
10505.7	35°	8655.8	6018.0	3533.1	2987.3	3083.2	3012.4	3017.0	2978.1	2921.1	2893.6
11241.1	37.5°	8754.0	5652.5	3243.1	2932.5	2966.7	2964.4	2946.2	2879.9	2779.5	2692.7
12159.3	40°	8991.5	5545.2	3044.4	2907.4	2911.9	2939.3	2891.4	2763.5	2535.1	2393.5
13091.1	42.5°	9363.8	5725.6	3001.0	2845.7	2875.4	2902.8	2809.1	2512.2	2350.1	2265.6
14068.6	45°	9836.6	6040.8	3094.6	2756.6	2788.6	2836.6	2557.9	2416.3	2343.2	2345.5
15036.9	47.5°	10434.9	6372.0	3268.2	2679.0	2663.0	2690.4	2391.2	2304.4	2203.9	2229.0
15966.4	50°	11127.0	6707.7	3432.6	2573.9	2523.7	2434.6	2283.9	2201.6	2073.7	2014.4
16864.0	52.5°	11876.1	7032.0	3498.9	2446.0	2372.9	2270.2	2210.8	2110.3	1955.0	1856.8
17711.3	55°	12586.3	7326.6	3425.8	2293.0	2222.2	2142.3	2133.1	2071.5	1904.7	1767.7
18465.0	57.5°	13257.8	7573.3	3243.1	2137.7	2069.2	2021.2	2082.9	2053.2	1843.1	1667.2
19177.5	60°	13826.5	7742.3	2978.1	1980.1	1932.1	1907.0	2000.7	1991.5	1756.3	1559.9
19817.0	62.5°	14278.7	7808.5	2685.8	1829.4	1818.0	1772.3	1886.5	1886.5	1646.7	1454.8
20378.9	65°	14632.7	7744.6	2388.9	1680.9	1703.8	1635.2	1747.2	1733.4	1530.2	1361.2
21025.2	67.5°	14945.6	7534.4	2060.0	1534.8	1587.3	1500.5	1601.0	1569.0	1402.3	1267.5
21584.7	70°	15084.9	7045.7	1685.5	1388.6	1452.5	1368.0	1454.8	1395.4	1258.4	1167.1
20970.4	72.5°	13965.8	5855.8	1326.9	1235.6	1290.4	1221.9	1297.2	1228.7	1103.1	1062.0
18108.7	75°	11554.0	4394.1	1020.9	1068.8	1110.0	1057.4	1107.7	1057.4	943.2	972.9
13376.6	77.5°	8390.9	2966.7	781.1	893.0	911.3	883.9	927.2	870.1	767.4	760.5
6666.6	80°	4172.6	1738.0	612.1	705.7	698.9	680.6	730.8	703.4	616.6	653.2
1799.7	82.5°	1208.2	744.5	445.4	495.6	481.9	486.5	523.0	536.7	803.9	797.1
559.5	85°	379.1	292.3	267.2	276.3	262.6	269.5	308.3	612.1	566.4	331.2
173.6	87.5°	98.2	100.5	66.2	70.8	73.1	86.8	98.2	372.3	178.1	116.5
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>
7792.5
7420.3
6620.9
5517.8
4661.4
4264.0
3978.5
3880.3
3850.6
3738.7
3551.4
3398.4
3254.5
3096.9
2921.1
2722.4
2411.8
2265.6
2356.9
2293.0
2030.3
1854.5
1767.7
1658.1
1553.0
1448.0
1352.0
1258.4
1148.8
1027.7
888.4
726.3
646.3
815.3
358.6
123.3
0.0

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