

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: P941885

Luminaire Tested: **GALN-SB5C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941885
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-SB5C-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35855 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

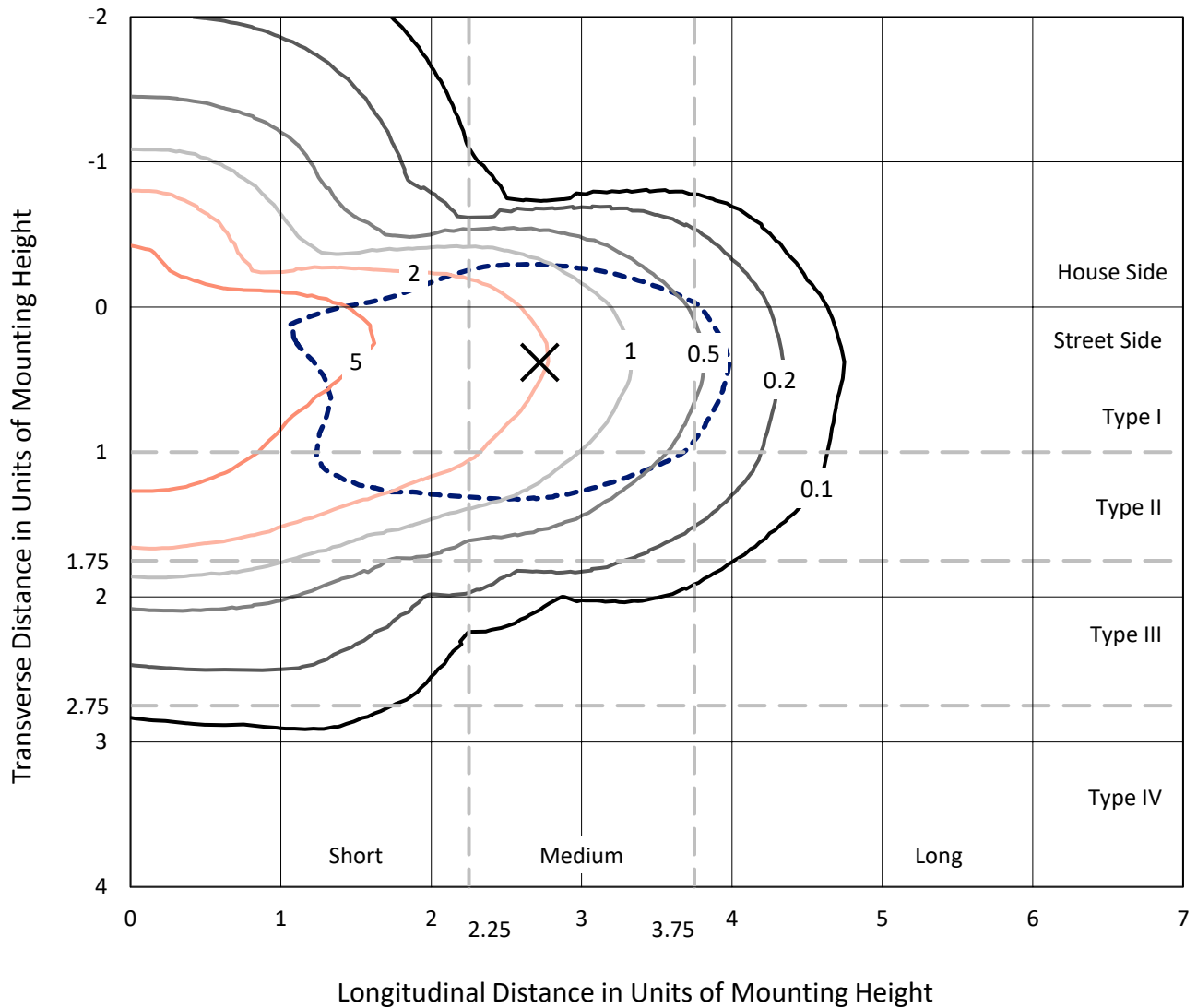
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

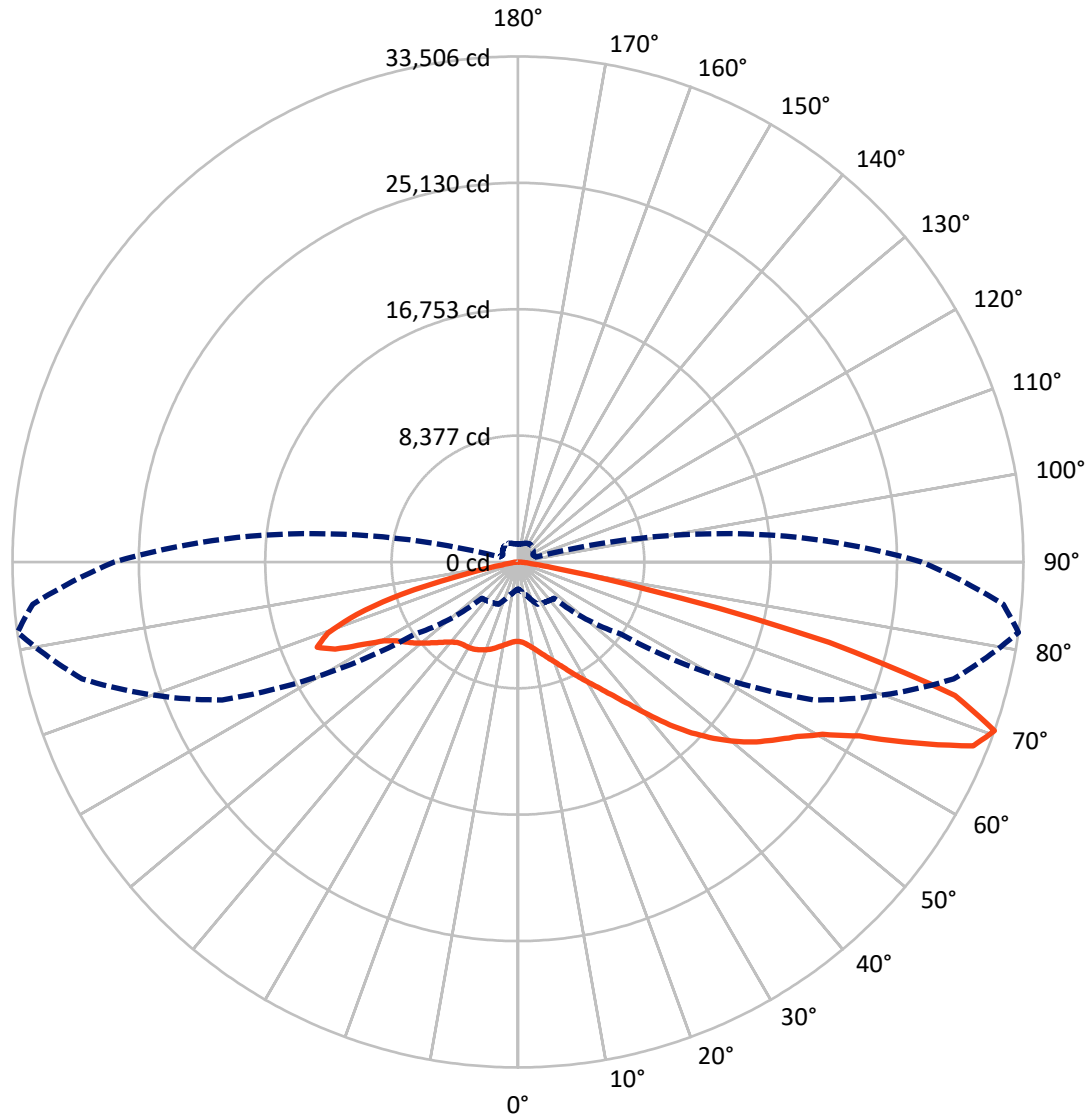
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	8839.1	0.0	8839.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27015.9	0.0	27015.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	35855.0	0.0	35855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.3	1.4
10°-20°	1426.0	4.0
20°-30°	2385.6	6.7
30°-40°	3726.8	10.4
40°-50°	5935.4	16.6
50°-60°	8259.9	23.0
60°-70°	8640.2	24.1
70°-80°	4515.8	12.6
80°-90°	468.9	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°	35855.0	100.0
0°-180°	35855.0	100.0

Coefficient of Utilization



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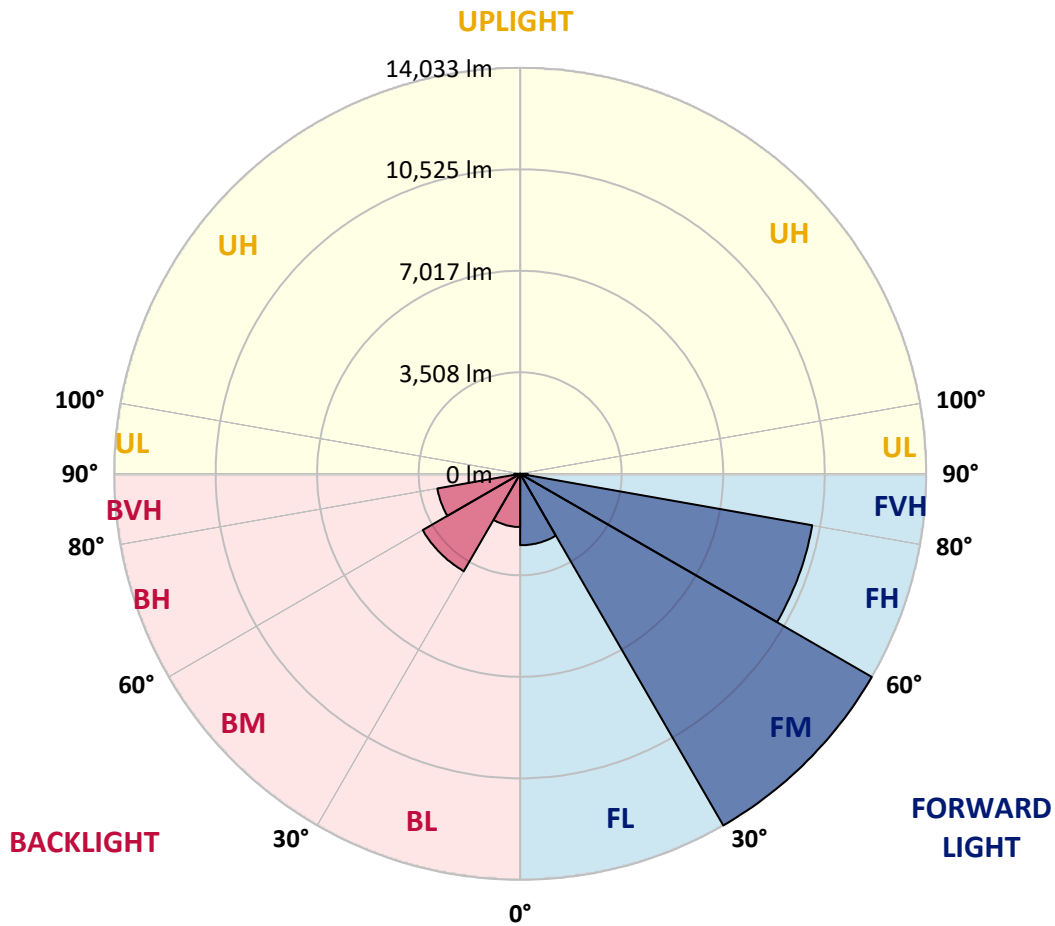
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2469.0	6.9			
FM (30°-60°)	14033.3	39.1			
FH (60°-80°)	10251.1	28.6			G4/12000
FVH (80°-90°)	262.5	0.7			G3/500
BL (0°-30°)	1838.9	5.1	B3/2500		
BM (30°-60°)	3888.9	10.8	B3/5000		
BH (60°-80°)	2905.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	206.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8
2.5°	5382.4	5412.8	5403.3	5393.8	5393.8	5380.5	5378.6	5359.5	5344.3	5319.6
5°	5450.9	5483.2	5479.4	5487.0	5511.7	5517.4	5523.2	5511.7	5481.3	5450.9
7.5°	5390.0	5426.1	5437.5	5483.2	5559.3	5627.8	5679.2	5700.1	5671.6	5627.8
10°	5184.5	5224.4	5264.4	5372.8	5507.9	5669.6	5806.6	5888.4	5882.7	5840.9
12.5°	4767.8	4809.7	4895.3	5106.5	5353.8	5639.2	5894.2	6065.4	6124.4	6093.9
15°	4434.9	4471.0	4535.7	4752.6	5074.1	5507.9	5926.5	6259.4	6409.7	6392.6
17.5°	4425.4	4440.6	4480.5	4583.3	4830.6	5302.5	5892.2	6449.7	6737.0	6735.1
20°	4592.8	4598.5	4621.3	4642.3	4783.1	5146.4	5804.7	6607.6	7104.2	7104.2
22.5°	4824.9	4821.1	4843.9	4824.9	4893.4	5133.1	5749.6	6746.5	7513.2	7543.7
25°	5173.1	5154.1	5148.3	5104.6	5117.9	5256.8	5810.4	6904.4	7998.4	8061.2
27.5°	5637.3	5606.9	5585.9	5485.1	5450.9	5511.7	5996.9	7094.7	8538.7	8647.2
30°	6242.3	6187.1	6156.7	5981.7	5858.0	5867.5	6278.5	7347.7	9103.8	9278.8
32.5°	7068.0	6982.4	6900.6	6613.3	6386.9	6312.7	6641.9	7697.8	9716.4	9996.1
35°	7992.7	7924.2	7836.7	7393.4	7045.2	6874.0	7132.7	8186.7	10433.7	10877.0
37.5°	8883.1	8824.1	8866.0	8268.6	7819.5	7570.3	7775.8	8843.1	11318.4	11972.9
40°	9803.9	9758.3	9764.0	9193.2	8670.0	8390.3	8555.8	9666.9	12332.4	13276.1
42.5°	10804.7	10770.4	10656.3	10150.2	9562.3	9301.6	9453.9	10618.2	13420.7	14760.1
45°	11925.3	11904.4	11797.8	11217.5	10544.0	10251.0	10456.5	11668.4	14514.7	16156.6
47.5°	12893.7	12910.8	12897.5	12408.5	11710.3	11280.3	11525.7	12764.3	15532.6	17469.4
50°	13359.8	13449.2	13580.5	13428.3	12994.5	12556.9	12604.5	13822.1	16502.9	18700.3
52.5°	13116.3	13285.6	13643.3	13886.8	14054.3	13962.9	13835.5	14872.4	17416.1	19811.4
55°	12208.8	12446.6	13040.2	13628.1	14482.3	15146.3	15313.8	16036.7	18306.5	20789.3
57.5°	10555.4	10941.7	11474.4	12663.5	14101.8	15719.0	17037.5	17652.0	19250.2	21833.9
60°	7720.6	8238.1	8900.2	10669.6	12770.0	15412.7	18504.4	20133.0	20591.5	23186.6
62.5°	4941.0	5260.6	5869.4	7536.1	9950.4	13843.1	18953.4	23234.1	22865.0	25405.0
65°	3382.8	3588.2	4145.7	5081.8	6432.6	10304.3	17750.9	25559.1	26476.1	28920.9
67.5°	2458.1	2614.1	3089.8	3909.8	4191.4	6097.7	13774.6	25452.5	29986.4	32543.4
70°	1792.2	1902.6	2302.1	3089.8	3224.9	3392.3	8344.7	21636.0	29910.2	33506.1
72.5°	1328.0	1404.1	1672.4	2397.2	2610.3	2290.7	4130.5	15724.7	25701.8	30306.0
75°	960.8	1017.9	1215.7	1834.1	2089.0	1744.7	2060.5	9189.4	17927.9	21318.3
77.5°	734.4	778.1	907.5	1343.2	1672.4	1309.0	1278.5	4227.5	8500.7	8542.5
80°	589.8	618.3	688.7	945.6	1282.3	979.8	833.3	1706.6	2686.4	2273.6
82.5°	433.8	481.3	582.2	664.0	917.0	675.4	508.0	861.9	1021.7	879.0
85°	247.3	279.7	352.0	475.6	586.0	412.9	291.1	382.4	475.6	390.0
87.5°	87.5	114.2	123.7	186.5	254.9	171.2	112.3	110.3	156.0	116.1
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°
5256.8	0°	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8	5256.8
5313.9	2.5°	5294.8	5285.3	5247.3	5195.9	5142.6	5091.3	5074.1	5038.0	5013.3	4999.9
5437.5	5°	5401.4	5370.9	5281.5	5167.4	5047.5	4918.1	4826.8	4743.1	4682.2	4625.1
5606.9	7.5°	5553.6	5500.3	5346.2	5146.4	4933.4	4718.4	4558.5	4436.8	4355.0	4301.7
5804.7	10°	5730.5	5648.7	5412.8	5114.1	4785.0	4476.7	4288.4	4183.7	4132.4	4103.8
6031.1	12.5°	5934.1	5818.0	5481.3	5039.9	4558.5	4206.6	4077.2	4046.8	4048.7	4050.6
6316.5	15°	6185.2	6023.5	5536.5	4878.2	4263.7	3999.2	3976.4	4025.8	4077.2	4101.9
6640.0	17.5°	6468.7	6240.4	5546.0	4611.8	3974.5	3866.0	3938.3	4044.9	4122.9	4157.1
7001.4	20°	6773.1	6461.1	5477.5	4235.1	3736.6	3757.6	3886.9	4023.9	4109.5	4153.3
7414.3	22.5°	7121.3	6697.0	5313.9	3839.4	3542.6	3639.6	3791.8	3925.0	4014.4	4058.2
7899.5	25°	7518.9	6961.5	5057.0	3506.4	3375.2	3506.4	3658.6	3769.0	3841.3	3881.2
8441.7	27.5°	7960.3	7237.4	4714.6	3242.0	3228.7	3369.4	3495.0	3580.6	3618.7	3649.1
9018.2	30°	8403.6	7488.5	4299.8	3042.2	3101.2	3234.4	3323.8	3361.8	3373.3	3379.0
9661.2	32.5°	8883.1	7705.4	3864.1	2876.7	2979.4	3103.1	3156.4	3173.5	3120.2	3084.1
10441.3	35°	9463.4	7937.5	3437.9	2745.4	2859.6	2966.1	2983.2	2968.0	2905.2	2831.0
11419.2	37.5°	10180.6	8226.7	3097.4	2652.2	2747.3	2817.7	2796.8	2793.0	2798.7	2711.2
12595.0	40°	11059.6	8603.4	2848.1	2579.9	2656.0	2671.2	2612.2	2644.6	2673.1	2539.9
13884.9	42.5°	12035.6	9058.1	2690.2	2530.4	2579.9	2543.7	2452.4	2488.6	2484.8	2309.7
15180.6	45°	13030.7	9552.8	2635.1	2494.3	2509.5	2437.2	2336.4	2345.9	2266.0	2108.0
16423.0	47.5°	14020.0	10083.6	2669.3	2463.8	2422.0	2340.2	2262.2	2220.3	2102.3	1984.4
17614.0	50°	14990.3	10641.1	2794.9	2402.9	2302.1	2254.5	2197.5	2123.3	1997.7	1896.9
18740.3	52.5°	15890.2	11202.3	2935.7	2302.1	2151.8	2180.3	2144.2	2058.6	1934.9	1832.2
19805.7	55°	16742.6	11763.6	2990.8	2163.2	2011.0	2115.7	2094.7	1936.8	1788.4	1704.7
20920.6	57.5°	17671.0	12439.0	2930.0	1986.3	1896.9	2041.5	1961.5	1786.5	1700.9	1638.1
22372.3	60°	18957.2	13498.7	2798.7	1767.5	1788.4	1931.1	1794.1	1721.8	1628.6	1558.2
24548.8	62.5°	21093.8	15475.5	2587.5	1550.6	1660.9	1767.5	1714.2	1641.9	1546.8	1478.3
28270.2	65°	24252.0	18222.8	2189.9	1381.3	1518.2	1607.7	1628.6	1556.3	1457.4	1385.1
31531.2	67.5°	26915.6	19946.5	1657.1	1240.5	1371.8	1478.3	1537.3	1466.9	1362.2	1291.8
32294.2	70°	26769.1	18694.6	1265.2	1101.6	1242.4	1350.8	1426.9	1371.8	1259.5	1192.9
29333.8	72.5°	23776.4	15639.1	1023.6	960.8	1111.1	1217.6	1309.0	1267.1	1153.0	1088.3
21489.5	75°	17467.5	11101.5	818.1	818.1	947.5	1078.8	1179.6	1153.0	1048.3	1002.7
9022.0	77.5°	7362.9	4657.5	641.2	679.2	787.7	926.5	1052.1	1061.6	970.3	1027.4
2385.8	80°	1957.7	1284.2	489.0	534.6	618.3	764.8	915.1	911.3	812.4	759.1
886.6	82.5°	745.8	506.1	348.2	376.7	447.1	586.0	724.9	747.7	648.8	561.3
348.2	85°	287.3	216.9	215.0	226.4	260.7	388.1	547.9	567.0	489.0	414.8
97.0	87.5°	74.2	64.7	79.9	76.1	119.9	207.4	313.9	325.3	298.7	173.1
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>
5256.8
5015.2
4648.0
4313.1
4111.4
4054.4
4100.0
4164.7
4164.7
4069.6
3892.7
3660.5
3392.3
3095.5
2834.8
2716.9
2543.7
2307.8
2113.8
1984.4
1889.2
1834.1
1697.1
1632.4
1554.4
1478.3
1388.9
1293.7
<i>1198.6</i>
1088.3
989.3
932.3
705.9
561.3
428.1
247.3
0.0

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