

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: P954265

Luminaire Tested: **GALN-SB7C-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46033 lumens
Efficiency: N/A
Efficacy: 131.3 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

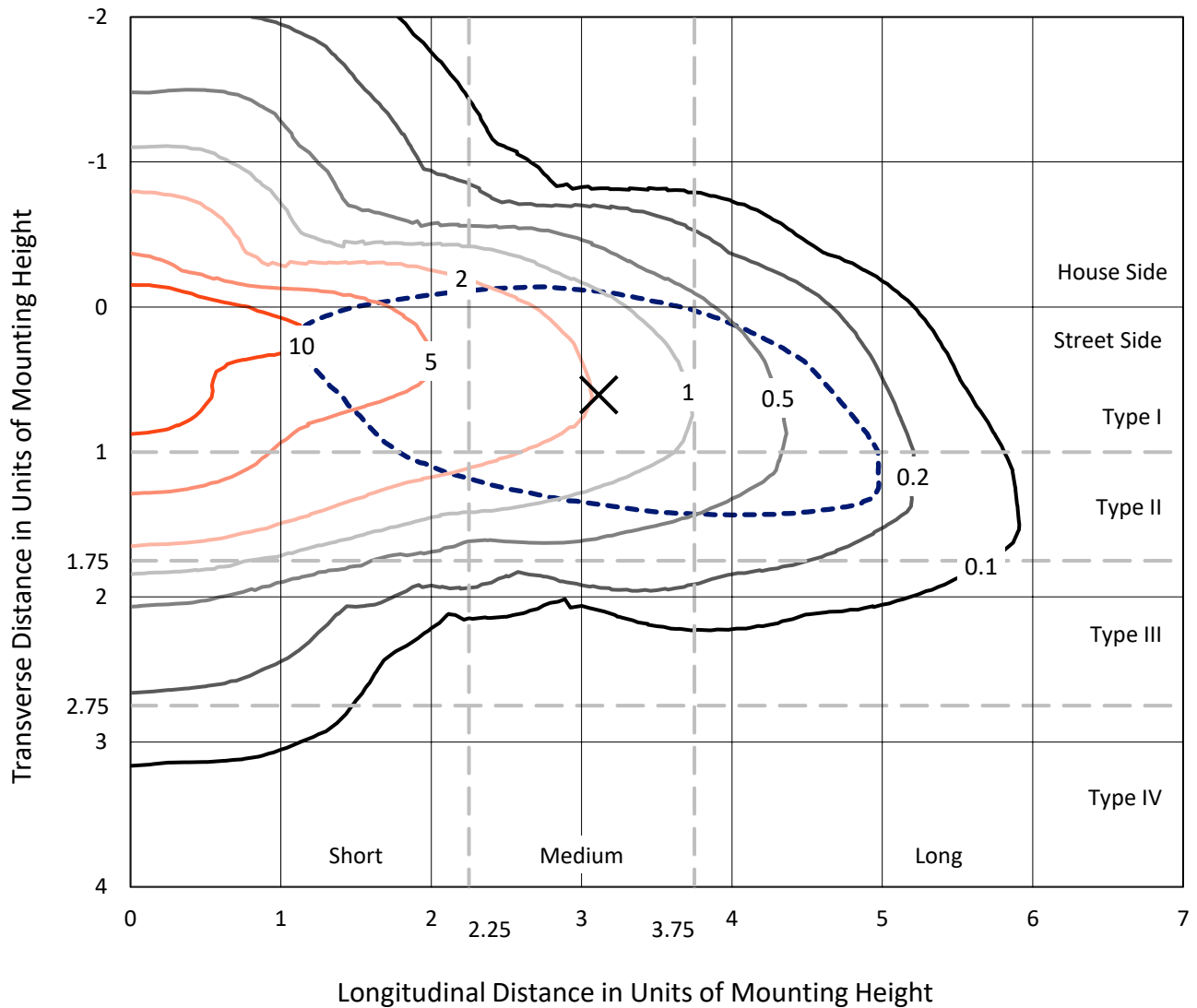
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

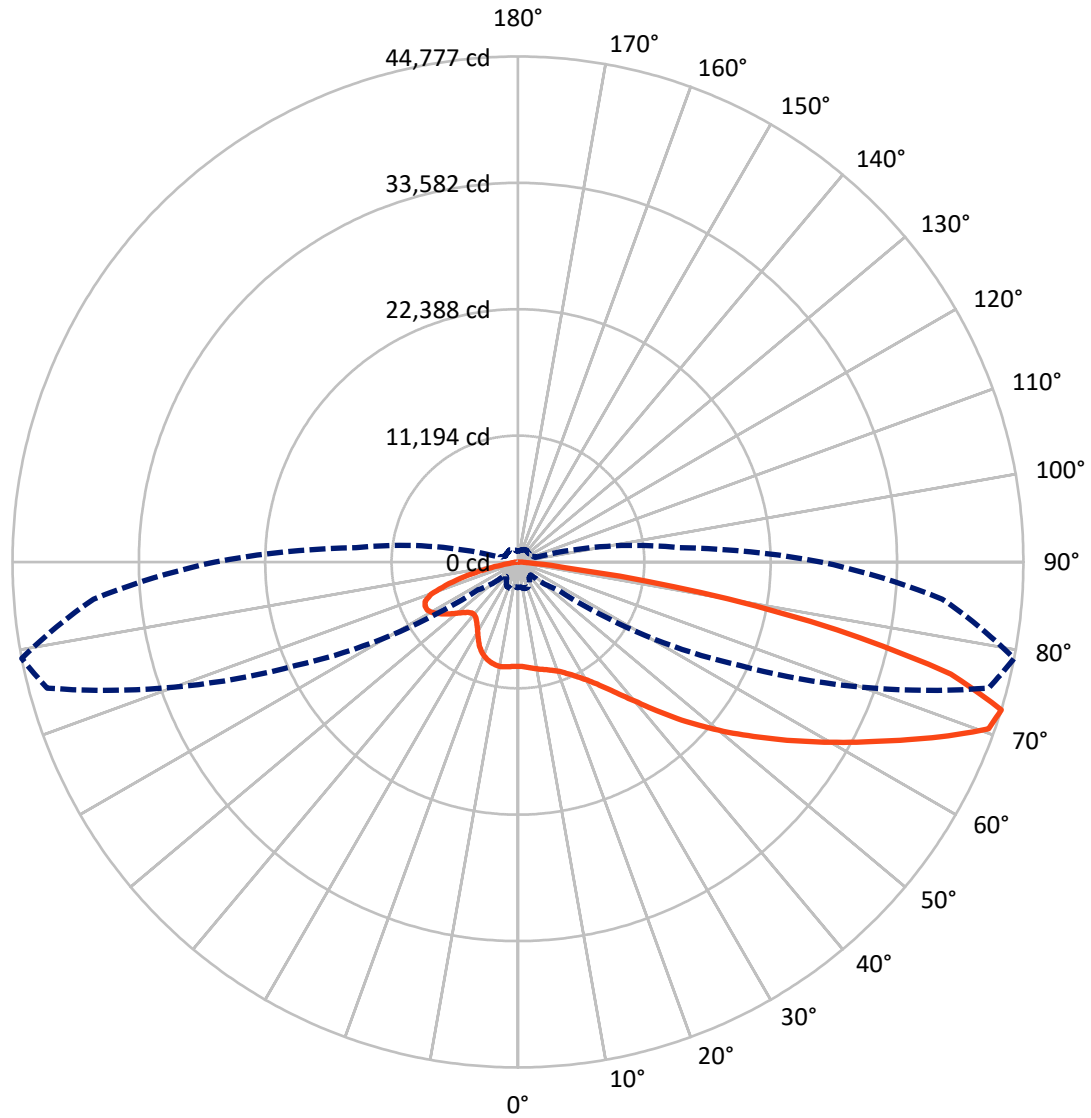
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10129.8	0.0	10129.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	35903.2	0.0	35903.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	46033.0	0.0	46033.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.8	1.8
10°-20°	2193.0	4.8
20°-30°	3538.6	7.7
30°-40°	5311.0	11.5
40°-50°	7533.9	16.4
50°-60°	9514.3	20.7
60°-70°	9663.1	21.0
70°-80°	6585.8	14.3
80°-90°	854.5	1.9
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°	46033.0	100.0
0°-180°	46033.0	100.0

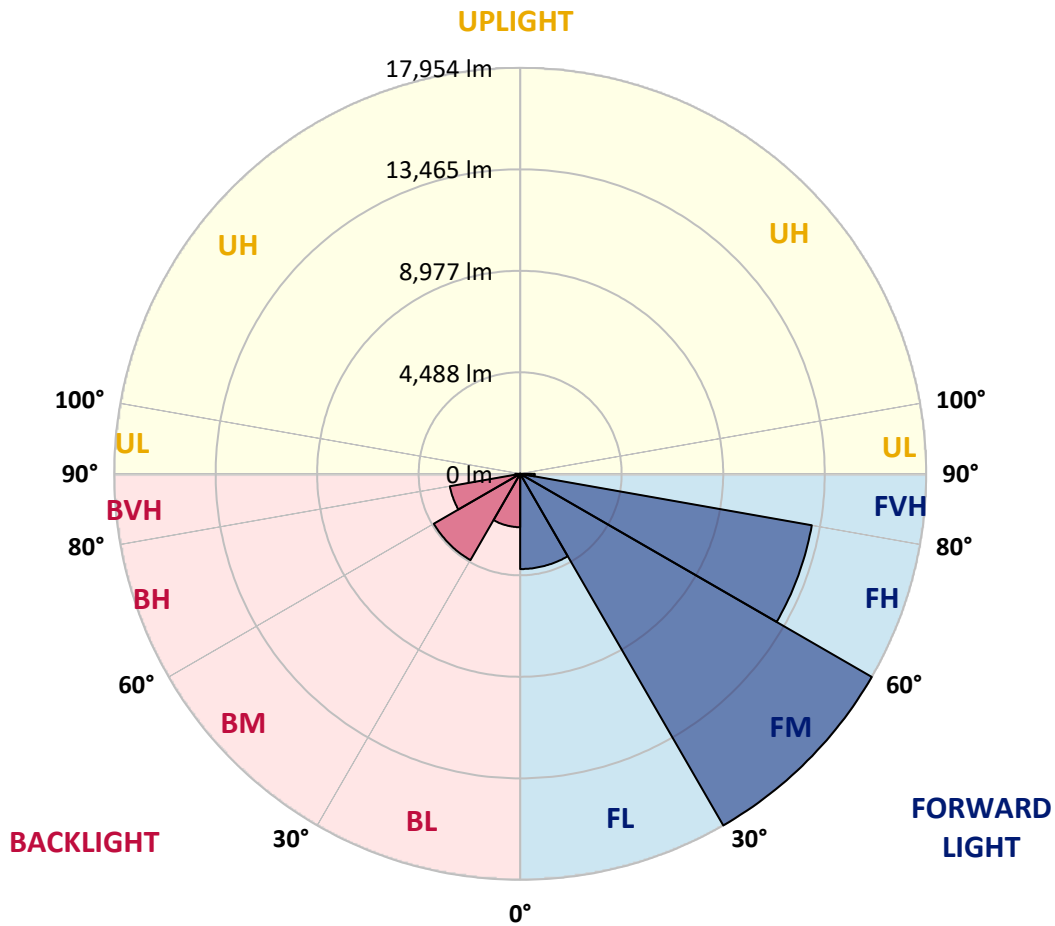


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4210.9	9.1			
FM (30°-60°)	17953.8	39.0			
FH (60°-80°)	13094.8	28.4			G5
FVH (80°-90°)	643.7	1.4			G4/750
BL (0°-30°)	2359.5	5.1	B3/2500		
BM (30°-60°)	4405.4	9.6	B3/5000		
BH (60°-80°)	3154.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	210.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7
2.5°	9245.6	9201.7	9228.5	9218.8	9230.9	9245.6	9250.4	9257.7	9282.1	9279.6
5°	9226.1	9182.2	9218.8	9206.6	9238.3	9272.3	9301.6	9328.3	9367.3	9384.3
7.5°	9184.7	9155.5	9192.0	9228.5	9287.0	9338.1	9379.5	9440.4	9496.4	9506.1
10°	8943.6	8921.7	9006.9	9101.9	9262.6	9401.4	9491.5	9562.1	9623.0	9632.7
12.5°	8692.8	8666.0	8761.0	8890.1	9150.6	9401.4	9591.3	9683.9	9737.4	9769.1
15°	8651.4	8629.5	8683.1	8795.1	9011.8	9335.7	9659.5	9829.9	9876.2	9912.7
17.5°	8851.1	8809.7	8831.6	8870.6	8997.2	9274.8	9713.1	9995.5	10066.1	10105.1
20°	9313.7	9255.3	9221.2	9143.3	9121.4	9284.5	9708.2	10195.2	10287.7	10336.4
22.5°	9929.8	9890.8	9817.8	9620.5	9406.3	9403.8	9800.7	10450.9	10623.7	10670.0
25°	10674.9	10616.4	10523.9	10256.1	9844.6	9640.0	9956.6	10777.1	11066.9	11079.1
27.5°	11532.0	11444.3	11317.7	10964.6	10409.5	10010.1	10195.2	11152.1	11575.8	11570.9
30°	12435.4	12347.7	12213.8	11785.2	11086.4	10509.3	10526.3	11556.3	12179.7	12152.9
32.5°	13095.2	13029.5	13002.7	12671.6	11865.6	11098.6	10906.2	12004.4	12924.8	12900.4
35°	13601.7	13516.5	13548.1	13380.1	12715.4	11758.4	11371.3	12537.6	13830.6	13828.2
37.5°	14103.3	14027.8	14054.6	13942.6	13501.9	12596.1	11938.6	13190.2	14953.1	15006.7
40°	14561.1	14480.7	14587.9	14483.2	14113.0	13487.3	12583.9	13928.0	16253.4	16355.7
42.5°	14836.2	14772.9	14950.7	14953.1	14643.9	14239.7	13292.5	14741.3	17758.2	17987.1
45°	14931.2	14909.3	15177.1	15233.1	15113.8	14675.5	13930.4	15627.6	19379.9	19788.9
47.5°	14828.9	14787.5	15157.6	15364.6	15459.6	14880.1	14458.8	16587.0	21035.7	21634.7
50°	14312.7	14232.4	14782.7	15218.5	15557.0	15014.0	14992.1	17694.9	22917.9	23572.9
52.5°	13385.0	13324.1	13949.9	14707.2	15342.7	15079.7	15591.1	18905.1	24705.1	25552.5
55°	12199.2	12118.8	12807.9	13796.5	14809.4	15057.8	16190.1	20258.9	26813.8	27673.4
57.5°	10319.4	10158.7	11030.4	12199.2	13940.2	15031.0	16813.4	21605.4	28956.6	29986.6
60°	7577.6	7339.0	8407.9	9793.4	12240.6	14770.5	17585.3	23115.1	31527.9	32455.6
62.5°	4412.2	4273.4	4972.2	6265.2	9226.1	13236.5	18018.7	24870.7	34055.4	35029.4
65°	3426.0	3387.0	3447.9	3547.7	5135.3	9910.3	16681.9	26582.5	37269.6	37951.3
67.5°	3133.8	3104.6	3131.4	2943.9	2605.4	5520.1	13197.5	27015.9	40712.6	41126.5
70°	2785.6	2751.5	2839.2	2678.5	2050.2	2510.4	8527.2	25442.9	43451.9	44228.7
72.5°	2269.4	2230.4	2435.0	2361.9	1726.4	1611.9	4283.1	21705.3	43164.6	44776.5
75°	1743.4	1721.5	1965.0	2025.9	1407.4	1268.6	2055.1	16134.1	37985.4	39609.6
77.5°	1353.8	1336.8	1461.0	1682.6	1134.7	983.7	1263.7	10234.2	28625.4	28910.3
80°	1015.4	966.7	1081.1	1302.7	883.9	718.3	857.1	5968.1	18094.2	16401.9
82.5°	635.5	611.2	706.1	869.3	623.4	494.3	557.6	3296.9	7251.3	4270.9
85°	362.8	353.1	384.7	496.7	338.5	284.9	319.0	1456.1	1324.6	910.7
87.5°	146.1	141.2	175.3	221.6	124.2	104.7	112.0	350.6	292.2	270.3
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°
9240.7	0°	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7
9277.2	2.5°	9267.5	9267.5	9233.4	9179.8	9118.9	9080.0	9016.7	8999.6	8933.9	8914.4
9360.0	5°	9379.5	9360.0	9255.3	9104.3	8897.4	8707.4	8498.0	8366.5	8181.5	8115.7
9523.1	7.5°	9520.7	9467.1	9287.0	8955.8	8522.4	8096.3	7653.1	7317.1	6995.7	6881.2
9657.1	10°	9649.8	9574.3	9267.5	8688.0	7938.0	7200.2	6494.0	5999.8	5624.8	5471.4
9805.6	12.5°	9778.8	9640.0	9138.4	8242.4	7107.7	6106.9	5354.5	4969.8	4738.4	4553.4
9927.3	15°	9900.6	9705.8	8938.8	7645.8	6197.0	5181.6	4626.4	4319.6	4134.6	4012.8
10105.1	17.5°	10041.8	9761.8	8639.3	6888.5	5330.1	4541.2	4088.3	3903.2	3866.7	3852.1
10348.6	20°	10239.0	9812.9	8244.8	6041.1	4692.2	4029.9	3796.1	3779.1	3776.6	3769.3
10640.8	22.5°	10450.9	9873.8	7723.7	5271.7	4149.2	3710.9	3669.5	3635.4	3613.5	3611.1
10993.9	25°	10701.7	9893.3	7071.1	4641.0	3686.5	3559.9	3511.2	3460.1	3445.5	3445.5
11395.6	27.5°	10945.2	9827.5	6311.4	4093.2	3426.0	3421.1	3357.8	3340.8	3338.3	3345.6
11853.4	30°	11188.7	9703.3	5556.6	3586.7	3275.0	3275.0	3253.1	3265.3	3275.0	3299.4
12481.6	32.5°	11517.4	9571.8	4925.9	3211.7	3143.5	3119.2	3141.1	3165.5	3175.2	3206.8
13307.1	35°	11999.5	9479.3	4424.3	3007.2	3007.2	2975.5	2987.7	2982.8	2960.9	2946.3
14305.4	37.5°	12637.5	9474.4	4010.4	2912.2	2892.7	2887.9	2890.3	2858.6	2773.4	2671.2
15513.2	40°	13404.5	9605.9	3691.4	2846.5	2831.9	2861.1	2846.5	2761.2	2527.5	2349.7
16998.5	42.5°	14434.5	9980.9	3486.9	2766.1	2809.9	2846.5	2788.0	2493.4	2335.1	2215.8
18690.8	45°	15647.1	10589.7	3382.2	2680.9	2768.6	2812.4	2529.9	2400.9	2274.3	2130.6
20536.5	47.5°	17020.4	11356.7	3357.8	2600.5	2676.0	2702.8	2420.4	2361.9	2218.3	2062.4
22391.9	50°	18515.5	12264.9	3423.6	2505.6	2542.1	2449.6	2383.8	2330.3	2181.7	2028.3
24293.6	52.5°	20061.7	13265.7	3555.0	2376.5	2408.2	2305.9	2369.2	2323.0	2159.8	1952.8
26258.6	55°	21581.1	14273.8	3681.7	2225.6	2271.8	2176.9	2327.8	2293.7	2060.0	1826.2
28355.2	57.5°	23124.8	15277.0	3805.8	2091.6	2140.3	2052.7	2262.1	2215.8	1948.0	1709.3
30644.0	60°	24729.5	16250.9	3864.3	1962.6	1996.7	1938.2	2162.2	2081.9	1821.4	1590.0
32893.9	62.5°	26231.9	17061.8	3769.3	1833.5	1855.4	1831.1	2030.8	1923.6	1694.7	1456.1
35238.8	65°	27739.1	17543.9	3477.1	1706.9	1711.8	1699.6	1845.7	1753.2	1546.2	1339.2
37291.5	67.5°	29105.1	17814.2	3012.1	1570.6	1558.4	1553.5	1672.8	1568.1	1402.5	1222.4
38852.3	70°	29394.9	17127.5	2301.0	1409.8	1409.8	1397.7	1482.9	1375.8	1244.3	1098.2
37734.6	72.5°	26847.9	14407.7	1633.9	1227.2	1246.7	1222.4	1293.0	1202.9	1083.6	986.2
32521.4	75°	21649.3	10565.3	1188.3	1039.7	1073.8	1032.4	1098.2	1034.9	932.6	930.2
22411.4	77.5°	14875.2	6533.0	862.0	857.1	881.5	827.9	903.4	869.3	776.8	735.4
9754.5	80°	6348.0	2605.4	628.2	662.3	662.3	613.6	701.3	711.0	630.7	611.2
1882.2	82.5°	1263.7	740.2	440.7	455.3	428.6	413.9	496.7	550.3	759.7	844.9
567.3	85°	379.9	272.7	265.4	248.4	219.1	221.6	292.2	552.7	681.8	389.6
187.5	87.5°	104.7	68.2	70.6	56.0	46.3	60.9	99.8	418.8	228.9	97.4
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>
9240.7
8946.1
8164.4
6895.8
5505.5
4614.3
4034.7
3861.9
3793.7
3637.8
3460.1
3365.1
3316.4
3233.6
2980.4
2673.6
2344.9
2210.9
2120.9
2050.2
2011.3
1938.2
1814.0
1704.5
1582.7
1453.7
1324.6
1207.7
1093.3
956.9
837.6
689.1
611.2
847.4
336.0
82.8
0.0

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