

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: P941895

Luminaire Tested: **GALN-SB5C-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941895
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-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22817 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

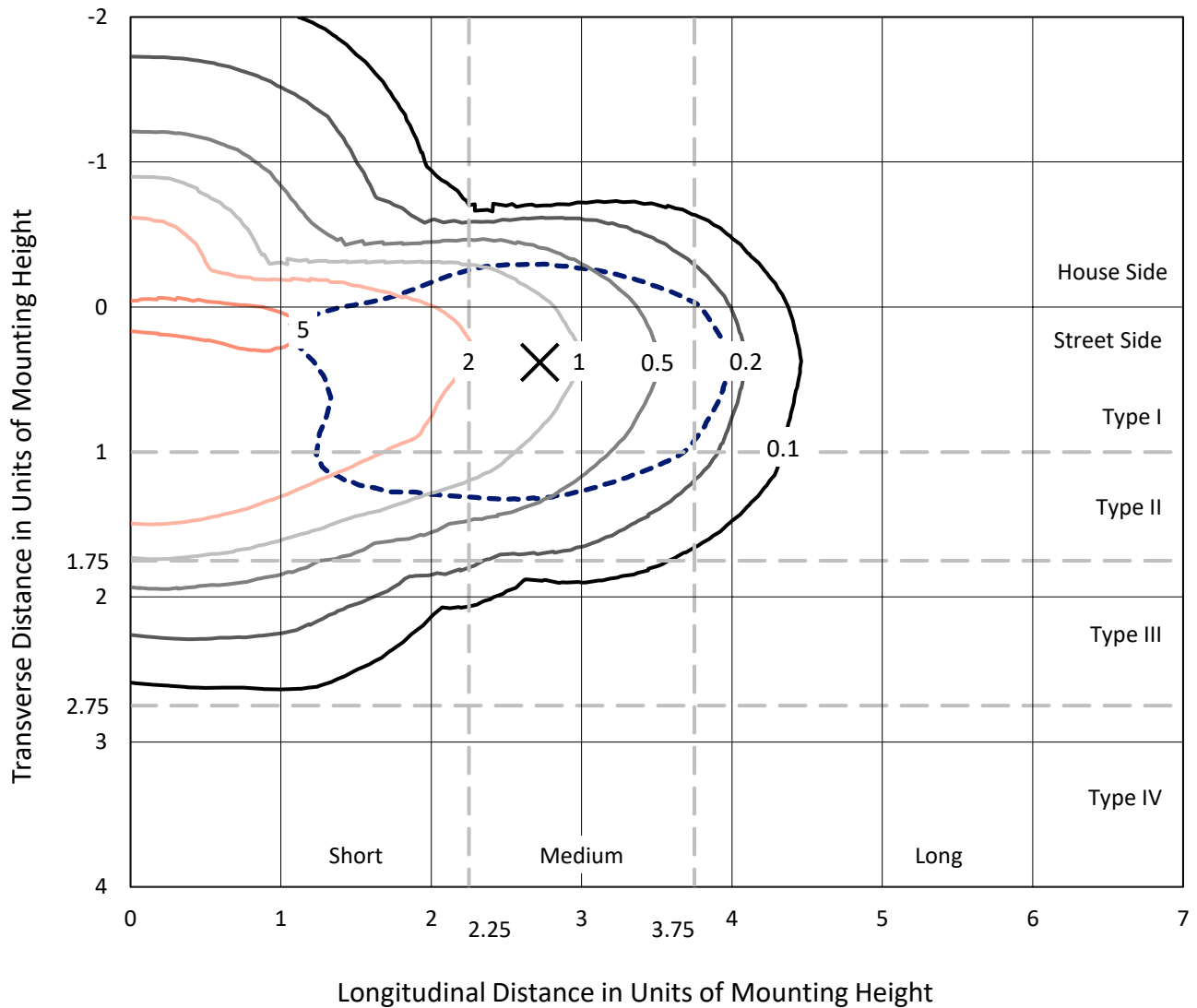
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

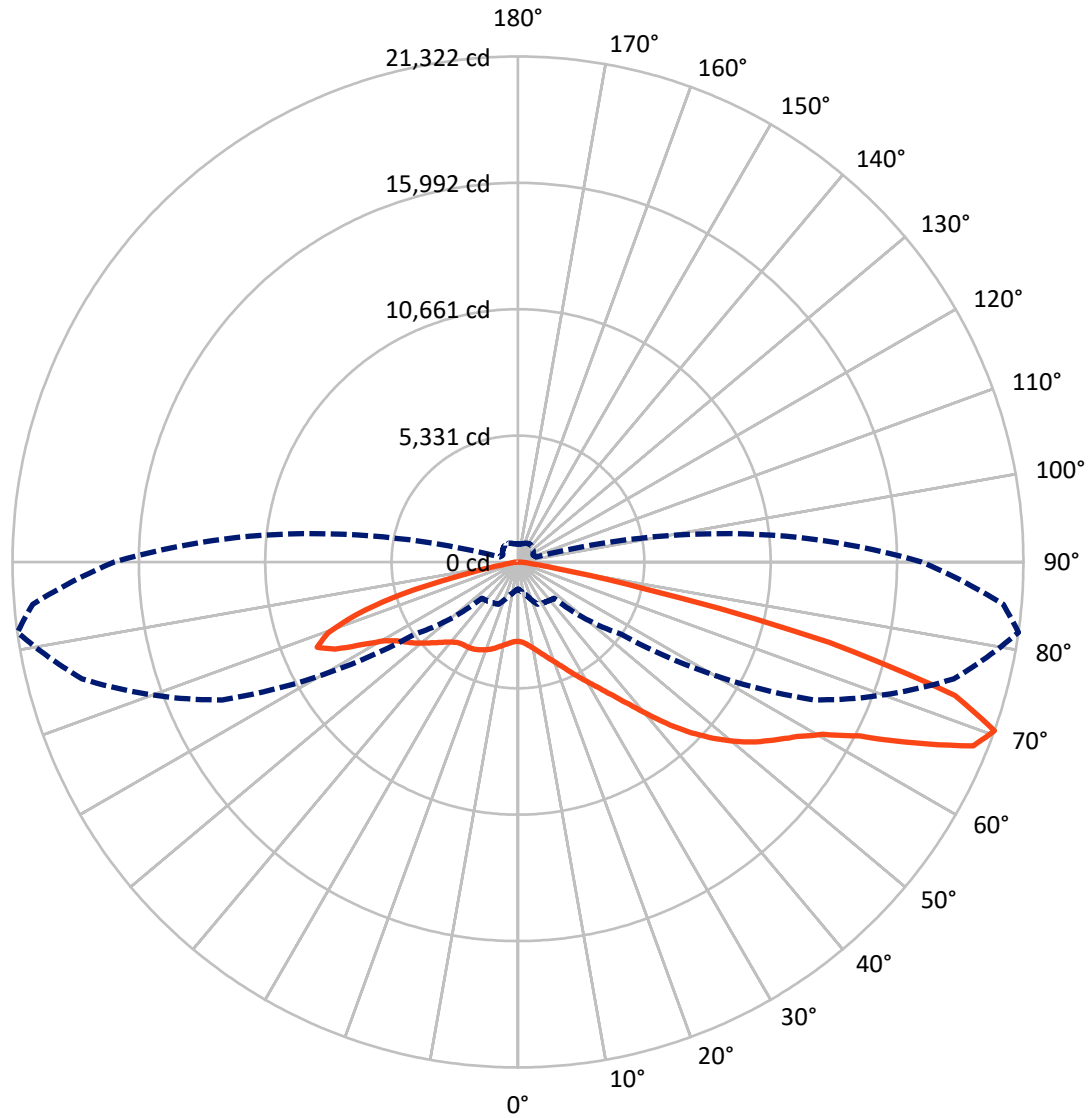
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5625.0	0.0	5625.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	17192.0	0.0	17192.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	22817.0	0.0	22817.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.4
10°-20°	907.5	4.0
20°-30°	1518.1	6.7
30°-40°	2371.6	10.4
40°-50°	3777.1	16.6
50°-60°	5256.3	23.0
60°-70°	5498.4	24.1
70°-80°	2873.7	12.6
80°-90°	298.4	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°	22817.0	100.0
0°-180°	22817.0	100.0



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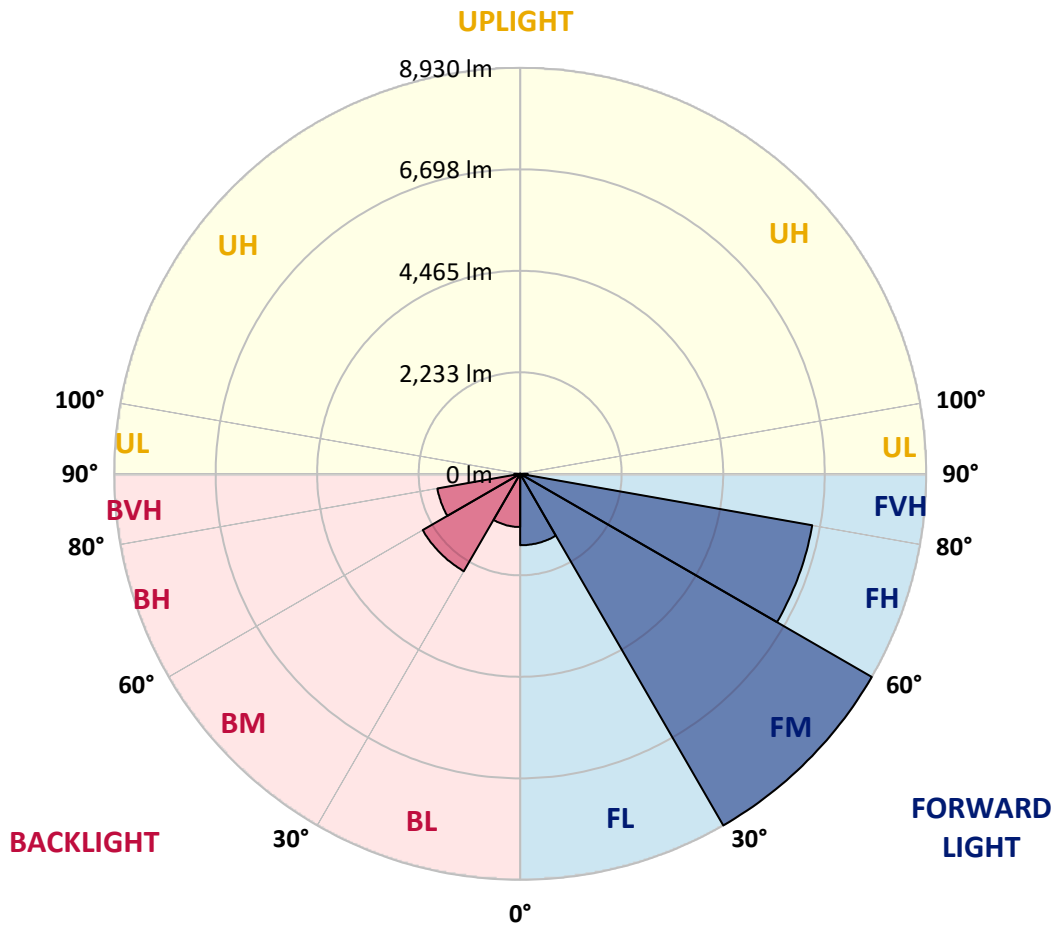
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.2	6.9			
FM (30°-60°)	8930.3	39.1			
FH (60°-80°)	6523.4	28.6			G3/7500
FVH (80°-90°)	167.0	0.7			G2/225
BL (0°-30°)	1170.2	5.1	B3/2500		
BM (30°-60°)	2474.8	10.8	B2/2500		
BH (60°-80°)	1848.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	131.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3
2.5°	3425.2	3444.5	3438.5	3432.4	3432.4	3424.0	3422.7	3410.6	3401.0	3385.2
5°	3468.8	3489.3	3486.9	3491.8	3507.5	3511.1	3514.8	3507.5	3488.1	3468.8
7.5°	3430.0	3453.0	3460.3	3489.3	3537.8	3581.4	3614.0	3627.4	3609.2	3581.4
10°	3299.2	3324.7	3350.1	3419.1	3505.1	3608.0	3695.2	3747.2	3743.6	3717.0
12.5°	3034.1	3060.7	3115.2	3249.6	3407.0	3588.6	3750.9	3859.8	3897.4	3878.0
15°	2822.2	2845.2	2886.4	3024.4	3229.0	3505.1	3771.4	3983.3	4079.0	4068.1
17.5°	2816.2	2825.9	2851.3	2916.7	3074.1	3374.3	3749.6	4104.4	4287.2	4286.0
20°	2922.7	2926.3	2940.9	2954.2	3043.8	3275.0	3693.9	4204.9	4520.9	4520.9
22.5°	3070.4	3068.0	3082.5	3070.4	3114.0	3266.6	3658.8	4293.3	4781.2	4800.6
25°	3292.0	3279.9	3276.2	3248.4	3256.9	3345.3	3697.6	4393.8	5089.9	5129.9
27.5°	3587.4	3568.0	3554.7	3490.5	3468.8	3507.5	3816.2	4514.8	5433.8	5502.8
30°	3972.4	3937.3	3917.9	3806.5	3727.8	3733.9	3995.4	4675.9	5793.4	5904.7
32.5°	4497.9	4443.4	4391.3	4208.5	4064.4	4017.2	4226.7	4898.6	6183.2	6361.2
35°	5086.3	5042.7	4987.0	4704.9	4483.3	4374.4	4539.0	5209.8	6639.7	6921.8
37.5°	5652.9	5615.4	5642.0	5261.8	4976.1	4817.5	4948.3	5627.5	7202.7	7619.1
40°	6238.9	6209.9	6213.5	5850.3	5517.3	5339.3	5444.7	6151.7	7848.0	8448.5
42.5°	6875.8	6854.0	6781.3	6459.3	6085.1	5919.3	6016.1	6757.1	8540.5	9392.9
45°	7588.9	7575.6	7507.8	7138.5	6709.9	6523.4	6654.2	7425.4	9236.7	10281.6
47.5°	8205.1	8216.0	8207.6	7896.4	7452.1	7178.4	7334.6	8122.8	9884.4	11117.0
50°	8501.8	8558.7	8642.2	8545.4	8269.3	7990.8	8021.1	8796.0	10501.9	11900.3
52.5°	8346.8	8454.6	8682.2	8837.1	8943.7	8885.6	8804.5	9464.3	11083.1	12607.4
55°	7769.3	7920.6	8298.4	8672.5	9216.1	9638.7	9745.2	10205.3	11649.7	13229.7
57.5°	6717.2	6962.9	7301.9	8058.6	8974.0	10003.1	10842.1	11233.2	12250.2	13894.4
60°	4913.2	5242.5	5663.8	6789.8	8126.4	9808.2	11775.6	12812.0	13103.8	14755.2
62.5°	3144.3	3347.7	3735.1	4795.7	6332.1	8809.3	12061.3	14785.5	14550.6	16166.9
65°	2152.7	2283.4	2638.2	3233.9	4093.5	6557.3	11296.1	16265.0	16848.6	18404.4
67.5°	1564.3	1663.5	1966.2	2488.1	2667.2	3880.4	8765.7	16197.2	19082.4	20709.6
70°	1140.5	1210.7	1465.0	1966.2	2052.2	2158.7	5310.3	13768.5	19033.9	21322.2
72.5°	845.1	893.5	1064.2	1525.5	1661.1	1457.7	2628.5	10006.7	16355.8	19285.8
75°	611.4	647.7	773.7	1167.1	1329.4	1110.2	1311.2	5847.8	11408.7	13566.3
77.5°	467.3	495.2	577.5	854.8	1064.2	833.0	813.6	2690.3	5409.6	5436.2
80°	375.3	393.5	438.3	601.7	816.0	623.5	530.3	1086.0	1709.6	1446.8
82.5°	276.0	306.3	370.5	422.5	583.6	429.8	323.3	548.5	650.2	559.4
85°	157.4	178.0	224.0	302.7	372.9	262.7	185.2	243.4	302.7	248.2
87.5°	55.7	72.6	78.7	118.7	162.2	109.0	71.4	70.2	99.3	73.9
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°
3345.3	0°	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3	3345.3
3381.6	2.5°	3369.5	3363.4	3339.2	3306.5	3272.6	3239.9	3229.0	3206.0	3190.3	3181.8
3460.3	5°	3437.3	3417.9	3361.0	3288.4	3212.1	3129.7	3071.6	3018.4	2979.6	2943.3
3568.0	7.5°	3534.1	3500.2	3402.2	3275.0	3139.4	3002.6	2900.9	2823.4	2771.4	2737.5
3693.9	10°	3646.7	3594.7	3444.5	3254.5	3045.0	2848.9	2729.0	2662.4	2629.7	2611.6
3838.0	12.5°	3776.3	3702.4	3488.1	3207.2	2900.9	2676.9	2594.6	2575.2	2576.4	2577.7
4019.6	15°	3936.1	3833.2	3523.2	3104.3	2713.3	2545.0	2530.4	2561.9	2594.6	2610.3
4225.5	17.5°	4116.5	3971.2	3529.3	2934.8	2529.2	2460.2	2506.2	2574.0	2623.7	2645.5
4455.5	20°	4310.2	4111.7	3485.7	2695.1	2377.9	2391.2	2473.5	2560.7	2615.2	2643.0
4718.2	22.5°	4531.8	4261.8	3381.6	2443.3	2254.4	2316.1	2413.0	2497.7	2554.6	2582.5
5027.0	25°	4784.8	4430.1	3218.1	2231.4	2147.8	2231.4	2328.2	2398.5	2444.5	2469.9
5372.0	27.5°	5065.7	4605.6	3000.2	2063.1	2054.6	2144.2	2224.1	2278.6	2302.8	2322.2
5738.9	30°	5347.8	4765.4	2736.3	1936.0	1973.5	2058.2	2115.2	2139.4	2146.6	2150.3
6148.1	32.5°	5652.9	4903.5	2459.0	1830.6	1896.0	1974.7	2008.6	2019.5	1985.6	1962.6
6644.5	35°	6022.2	5051.2	2187.8	1747.1	1819.7	1887.5	1898.4	1888.7	1848.8	1801.6
7266.8	37.5°	6478.6	5235.2	1971.1	1687.8	1748.3	1793.1	1779.8	1777.4	1781.0	1725.3
8015.1	40°	7038.0	5474.9	1812.5	1641.8	1690.2	1699.9	1662.3	1682.9	1701.1	1616.3
8835.9	42.5°	7659.1	5764.3	1712.0	1610.3	1641.8	1618.8	1560.6	1583.6	1581.2	1469.8
9660.4	45°	8292.3	6079.1	1676.9	1587.3	1597.0	1551.0	1486.8	1492.8	1442.0	1341.5
10451.1	47.5°	8921.9	6416.9	1698.7	1567.9	1541.3	1489.2	1439.6	1412.9	1337.9	1262.8
11209.0	50°	9539.4	6771.6	1778.6	1529.2	1465.0	1434.7	1398.4	1351.2	1271.3	1207.1
11925.7	52.5°	10112.0	7128.8	1868.2	1465.0	1369.3	1387.5	1364.5	1310.0	1231.3	1165.9
12603.7	55°	10654.5	7486.0	1903.3	1376.6	1279.7	1346.3	1333.0	1232.5	1138.1	1084.8
13313.2	57.5°	11245.3	7915.8	1864.5	1264.0	1207.1	1299.1	1248.3	1136.9	1082.4	1042.4
14237.0	60°	12063.8	8590.2	1781.0	1124.8	1138.1	1228.9	1141.7	1095.7	1036.4	991.6
15622.1	62.5°	13423.4	9848.1	1646.6	986.7	1057.0	1124.8	1090.9	1044.9	984.3	940.7
17990.3	65°	15433.2	11596.4	1393.6	879.0	966.2	1023.1	1036.4	990.4	927.4	881.4
20065.5	67.5°	17128.3	12693.3	1054.5	789.4	872.9	940.7	978.3	933.5	866.9	822.1
20551.0	70°	17035.0	11896.7	805.1	701.0	790.6	859.6	908.1	872.9	801.5	759.1
18667.1	72.5°	15130.5	9952.2	651.4	611.4	707.1	774.9	833.0	806.3	733.7	692.5
13675.2	75°	11115.7	7064.6	520.6	520.6	602.9	686.5	750.7	733.7	667.1	638.1
5741.3	77.5°	4685.5	2963.9	408.0	432.2	501.2	589.6	669.5	675.6	617.5	653.8
1518.3	80°	1245.8	817.2	311.2	340.2	393.5	486.7	582.4	579.9	517.0	483.1
564.2	82.5°	474.6	322.1	221.6	239.7	284.5	372.9	461.3	475.8	412.9	357.2
221.6	85°	182.8	138.0	136.8	144.1	165.9	247.0	348.7	360.8	311.2	263.9
61.7	87.5°	47.2	41.2	50.9	48.4	76.3	132.0	199.8	207.0	190.1	110.2
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>
3345.3
3191.5
2957.8
2744.7
2616.4
2580.1
2609.1
2650.3
2650.3
2589.8
2477.2
2329.5
2158.7
1969.9
1804.0
1728.9
1618.8
1468.6
1345.1
1262.8
1202.3
1167.1
1080.0
1038.8
989.2
940.7
883.8
823.3
762.8
692.5
629.6
593.3
449.2
357.2
272.4
157.4
0.0

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