

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: P941135

Luminaire Tested: **GALN-SB4C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941135
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-SB4C-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31464 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

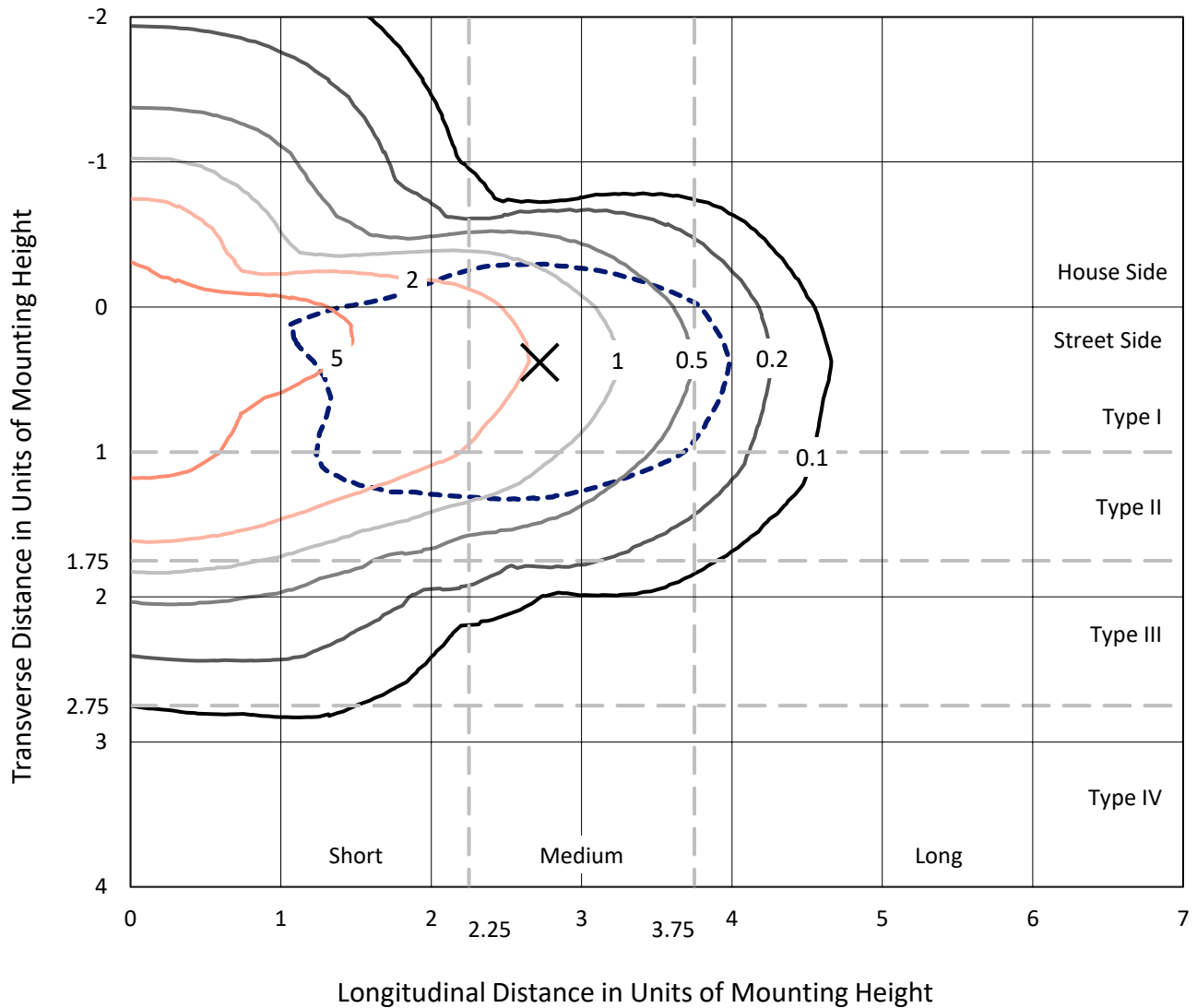
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

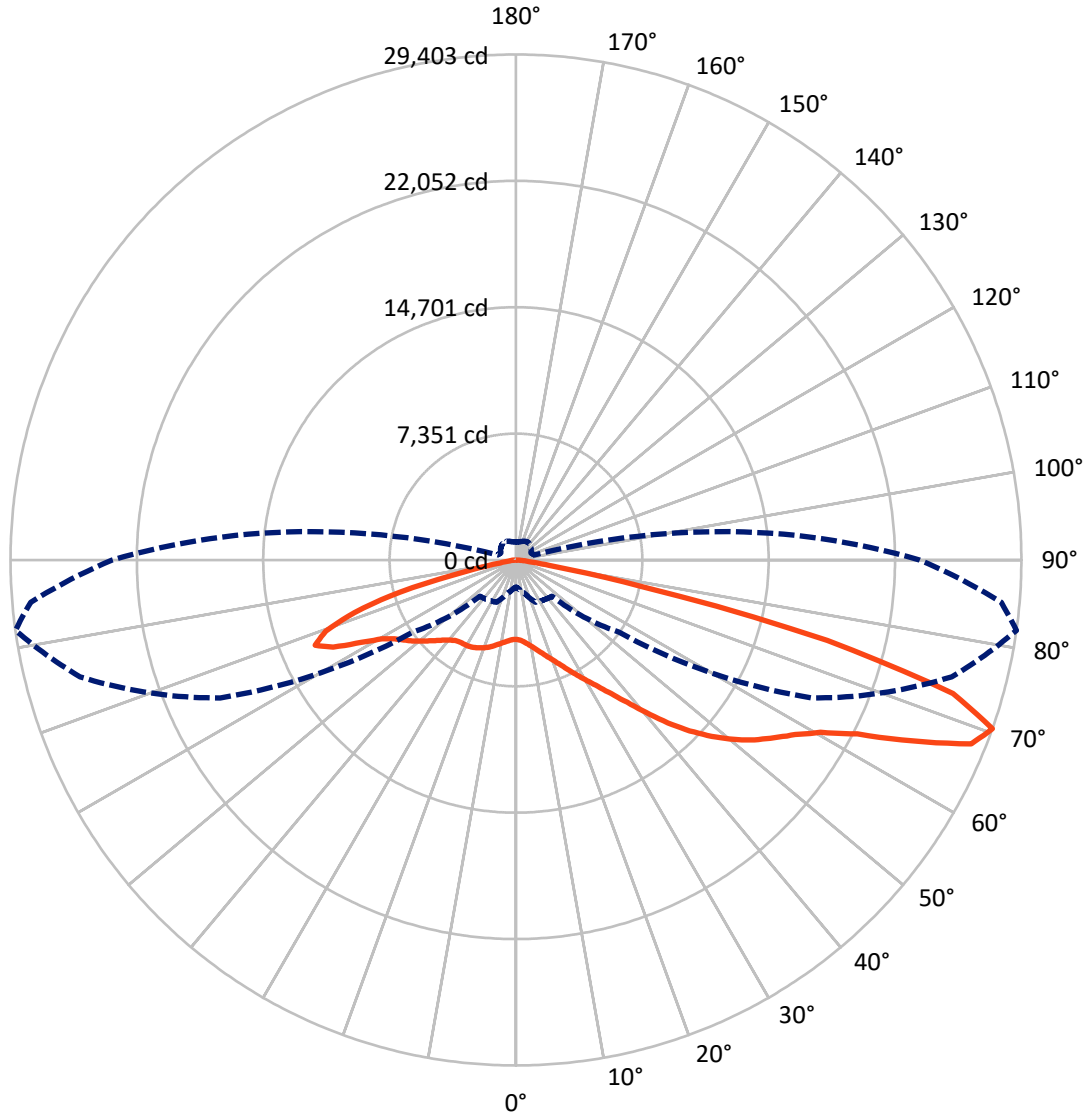
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	7756.6	0.0	7756.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	23707.4	0.0	23707.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	31464.0	0.0	31464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.6	1.4
10°-20°	1251.4	4.0
20°-30°	2093.4	6.7
30°-40°	3270.4	10.4
40°-50°	5208.5	16.6
50°-60°	7248.3	23.0
60°-70°	7582.1	24.1
70°-80°	3962.8	12.6
80°-90°	411.5	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°	31464.0	100.0
0°-180°	31464.0	100.0

Coefficient of Utilization



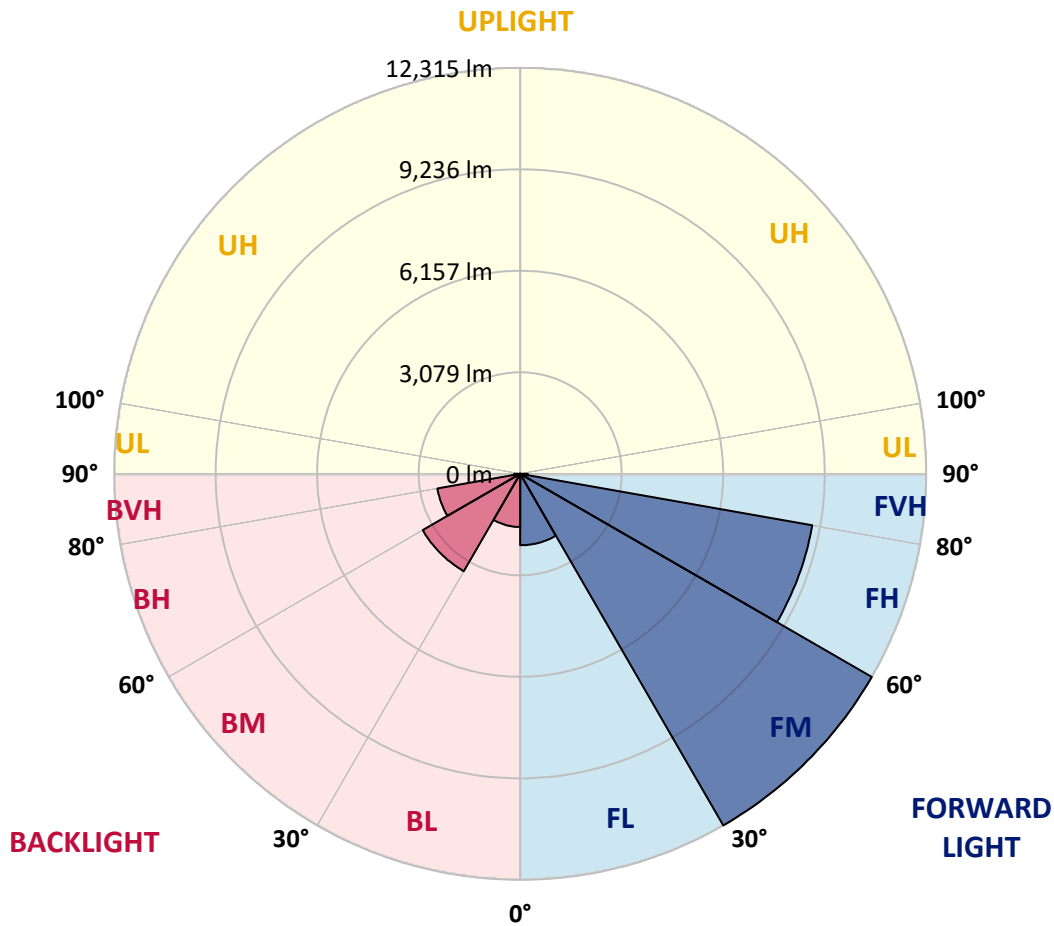
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2166.6	6.9			
FM (30°-60°)	12314.7	39.1			
FH (60°-80°)	8995.7	28.6			G4/12000
FVH (80°-90°)	230.4	0.7			G3/500
BL (0°-30°)	1613.7	5.1	B3/2500		
BM (30°-60°)	3412.6	10.8	B3/5000		
BH (60°-80°)	2549.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	181.1	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°	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0
2.5°	4723.2	4749.9	4741.6	4733.2	4733.2	4721.5	4719.9	4703.2	4689.8	4668.1
5°	4783.3	4811.7	4808.4	4815.0	4836.7	4841.7	4846.8	4836.7	4810.0	4783.3
7.5°	4729.9	4761.6	4771.6	4811.7	4878.5	4938.6	4983.7	5002.0	4977.0	4938.6
10°	4549.6	4584.6	4619.7	4714.9	4833.4	4975.3	5095.5	5167.3	5162.3	5125.6
12.5°	4183.9	4220.7	4295.8	4481.1	4698.2	4948.6	5172.3	5322.6	5374.3	5347.6
15°	3891.8	3923.5	3980.2	4170.6	4452.7	4833.4	5200.7	5492.9	5624.8	5609.7
17.5°	3883.4	3896.8	3931.8	4022.0	4239.0	4653.1	5170.7	5659.8	5911.9	5910.3
20°	4030.3	4035.3	4055.4	4073.7	4197.3	4516.2	5093.9	5798.4	6234.2	6234.2
22.5°	4234.0	4230.7	4250.7	4234.0	4294.1	4504.5	5045.4	5920.3	6593.1	6619.8
25°	4539.6	4522.9	4517.9	4479.5	4491.1	4613.0	5098.9	6058.9	7018.9	7074.0
27.5°	4946.9	4920.2	4901.9	4813.4	4783.3	4836.7	5262.5	6225.8	7493.0	7588.2
30°	5477.9	5429.4	5402.7	5249.1	5140.6	5148.9	5509.6	6447.9	7988.9	8142.5
32.5°	6202.4	6127.3	6055.5	5803.4	5604.7	5539.6	5828.5	6755.1	8526.5	8771.9
35°	7013.9	6953.7	6876.9	6487.9	6182.4	6032.1	6259.2	7184.2	9155.9	9544.9
37.5°	7795.2	7743.5	7780.2	7255.9	6861.9	6643.2	6823.5	7760.2	9932.3	10506.6
40°	8603.3	8563.2	8568.2	8067.4	7608.2	7362.8	7508.0	8483.1	10822.1	11650.2
42.5°	9481.5	9451.4	9351.2	8907.1	8391.2	8162.5	8296.1	9317.9	11777.1	12952.5
45°	10464.9	10446.5	10353.0	9843.8	9252.7	8995.6	9175.9	10239.5	12737.1	14178.0
47.5°	11314.7	11329.7	11318.0	10888.9	10276.2	9898.9	10114.2	11201.1	13630.4	15330.0
50°	11723.7	11802.2	11917.4	11783.8	11403.1	11019.1	11060.9	12129.4	14481.8	16410.2
52.5°	11510.0	11658.6	11972.5	12186.2	12333.1	12253.0	12141.1	13051.0	15283.2	17385.2
55°	10713.6	10922.3	11443.2	11959.1	12708.8	13291.4	13438.4	14072.8	16064.6	18243.4
57.5°	9262.8	9601.7	10069.2	11112.6	12374.8	13794.0	14951.0	15490.3	16892.7	19160.0
60°	6775.1	7229.2	7810.2	9362.9	11206.1	13525.2	16238.2	17667.4	18069.7	20347.0
62.5°	4335.9	4616.4	5150.6	6613.2	8731.8	12147.8	16632.2	20388.8	20064.9	22293.7
65°	2968.5	3148.8	3638.0	4459.4	5644.8	9042.4	15577.1	22429.0	23233.7	25379.1
67.5°	2157.1	2294.0	2711.4	3431.0	3678.1	5351.0	12087.7	22335.5	26314.1	28558.0
70°	1572.7	1669.6	2020.2	2711.4	2829.9	2976.8	7322.7	18986.3	26247.3	29402.8
72.5°	1165.4	1232.1	1467.6	2103.7	2290.6	2010.2	3624.6	13799.0	22554.2	26594.5
75°	843.1	893.2	1066.9	1609.5	1833.2	1531.0	1808.1	8064.0	15732.3	18707.5
77.5°	644.5	682.9	796.4	1178.7	1467.6	1148.7	1121.9	3709.8	7459.6	7496.4
80°	517.6	542.6	604.4	829.8	1125.3	859.8	731.3	1497.6	2357.4	1995.1
82.5°	380.7	422.4	510.9	582.7	804.7	592.7	445.8	756.3	896.6	771.3
85°	217.0	245.4	308.9	417.4	514.2	362.3	255.4	335.6	417.4	342.3
87.5°	76.8	100.2	108.5	163.6	223.7	150.3	98.5	96.8	136.9	101.8
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°
4613.0	0°	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0	4613.0
4663.1	2.5°	4646.4	4638.1	4604.7	4559.6	4512.8	4467.8	4452.7	4421.0	4399.3	4387.6
4771.6	5°	4739.9	4713.2	4634.7	4534.5	4429.4	4315.8	4235.7	4162.2	4108.8	4058.7
4920.2	7.5°	4873.5	4826.7	4691.5	4516.2	4329.2	4140.5	4000.3	3893.4	3821.6	3774.9
5093.9	10°	5028.7	4956.9	4749.9	4487.8	4199.0	3928.5	3763.2	3671.4	3626.3	3601.3
5292.5	12.5°	5207.4	5105.5	4810.0	4422.7	4000.3	3691.4	3577.9	3551.2	3552.8	3554.5
5543.0	15°	5427.8	5285.9	4858.4	4280.8	3741.5	3509.4	3489.4	3532.8	3577.9	3599.6
5826.8	17.5°	5676.5	5476.2	4866.8	4047.0	3487.7	3392.6	3456.0	3549.5	3618.0	3648.0
6144.0	20°	5943.7	5669.9	4806.7	3716.5	3279.0	3297.4	3410.9	3531.1	3606.3	3644.7
6506.3	22.5°	6249.2	5876.9	4663.1	3369.2	3108.7	3193.9	3327.4	3444.3	3522.8	3561.2
6932.0	25°	6598.1	6108.9	4437.7	3077.0	2961.8	3077.0	3210.6	3307.4	3370.9	3405.9
7407.9	27.5°	6985.5	6351.0	4137.2	2844.9	2833.3	2956.8	3067.0	3142.1	3175.5	3202.2
7913.8	30°	7374.5	6571.4	3773.2	2669.6	2721.4	2838.3	2916.7	2950.1	2960.1	2965.2
8478.1	32.5°	7795.2	6761.7	3390.9	2524.4	2614.5	2723.1	2769.8	2784.8	2738.1	2706.4
9162.6	35°	8304.4	6965.4	3016.9	2409.2	2509.4	2602.9	2617.9	2604.5	2549.4	2484.3
10020.7	37.5°	8933.9	7219.2	2718.1	2327.4	2410.9	2472.6	2454.3	2450.9	2455.9	2379.1
11052.5	40°	9705.2	7549.8	2499.3	2263.9	2330.7	2344.1	2292.3	2320.7	2345.7	2228.9
12184.5	42.5°	10561.7	7948.8	2360.8	2220.5	2263.9	2232.2	2152.1	2183.8	2180.5	2026.9
13321.5	45°	11434.9	8382.9	2312.4	2188.8	2202.2	2138.7	2050.2	2058.6	1988.5	1849.9
14411.7	47.5°	12303.0	8848.7	2342.4	2162.1	2125.4	2053.6	1985.1	1948.4	1844.9	1741.4
15456.9	50°	13154.5	9337.9	2452.6	2108.7	2020.2	1978.4	1928.4	1863.2	1753.0	1664.6
16445.2	52.5°	13944.2	9830.4	2576.1	2020.2	1888.3	1913.3	1881.6	1806.5	1698.0	1607.8
17380.2	55°	14692.2	10322.9	2624.6	1898.3	1764.7	1856.6	1838.2	1699.6	1569.4	1495.9
18358.6	57.5°	15506.9	10915.6	2571.1	1743.0	1664.6	1791.4	1721.3	1567.7	1492.6	1437.5
19632.4	60°	16635.6	11845.6	2455.9	1551.0	1569.4	1694.6	1574.4	1511.0	1429.2	1367.4
21542.4	62.5°	18510.5	13580.3	2270.6	1360.7	1457.5	1551.0	1504.3	1440.8	1357.4	1297.3
24808.1	65°	21282.0	15991.1	1921.7	1212.1	1332.3	1410.8	1429.2	1365.7	1278.9	1215.4
27669.7	67.5°	23619.4	17503.7	1454.2	1088.6	1203.8	1297.3	1349.0	1287.2	1195.4	1133.6
28339.2	70°	23490.8	16405.2	1110.3	966.7	1090.2	1185.4	1252.2	1203.8	1105.3	1046.8
25741.4	72.5°	20864.6	13723.8	898.2	843.1	975.0	1068.5	1148.7	1111.9	1011.8	955.0
18857.8	75°	15328.3	9741.9	717.9	717.9	831.4	946.6	1035.1	1011.8	919.9	879.9
7917.1	77.5°	6461.2	4087.1	562.6	596.0	691.2	813.1	923.3	931.6	851.5	901.6
2093.6	80°	1718.0	1127.0	429.1	469.1	542.6	671.2	803.1	799.7	712.9	666.2
778.0	82.5°	654.5	444.1	305.5	330.6	392.3	514.2	636.1	656.1	569.3	492.5
305.5	85°	252.1	190.3	188.7	198.7	228.7	340.6	480.8	497.5	429.1	364.0
85.1	87.5°	65.1	56.8	70.1	66.8	105.2	182.0	275.5	285.5	262.1	151.9
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>
4613.0
4401.0
4078.8
3784.9
3607.9
3557.8
3597.9
3654.7
3654.7
3571.2
3415.9
3212.2
2976.8
2716.4
2487.7
2384.1
2232.2
2025.2
1854.9
1741.4
1657.9
1609.5
1489.3
1432.5
1364.0
1297.3
1218.8
1135.3
<i>1051.8</i>
955.0
868.2
818.1
619.4
492.5
375.7
217.0
0.0

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