

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: P944614

Luminaire Tested: **GALN-SB9C-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30320 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

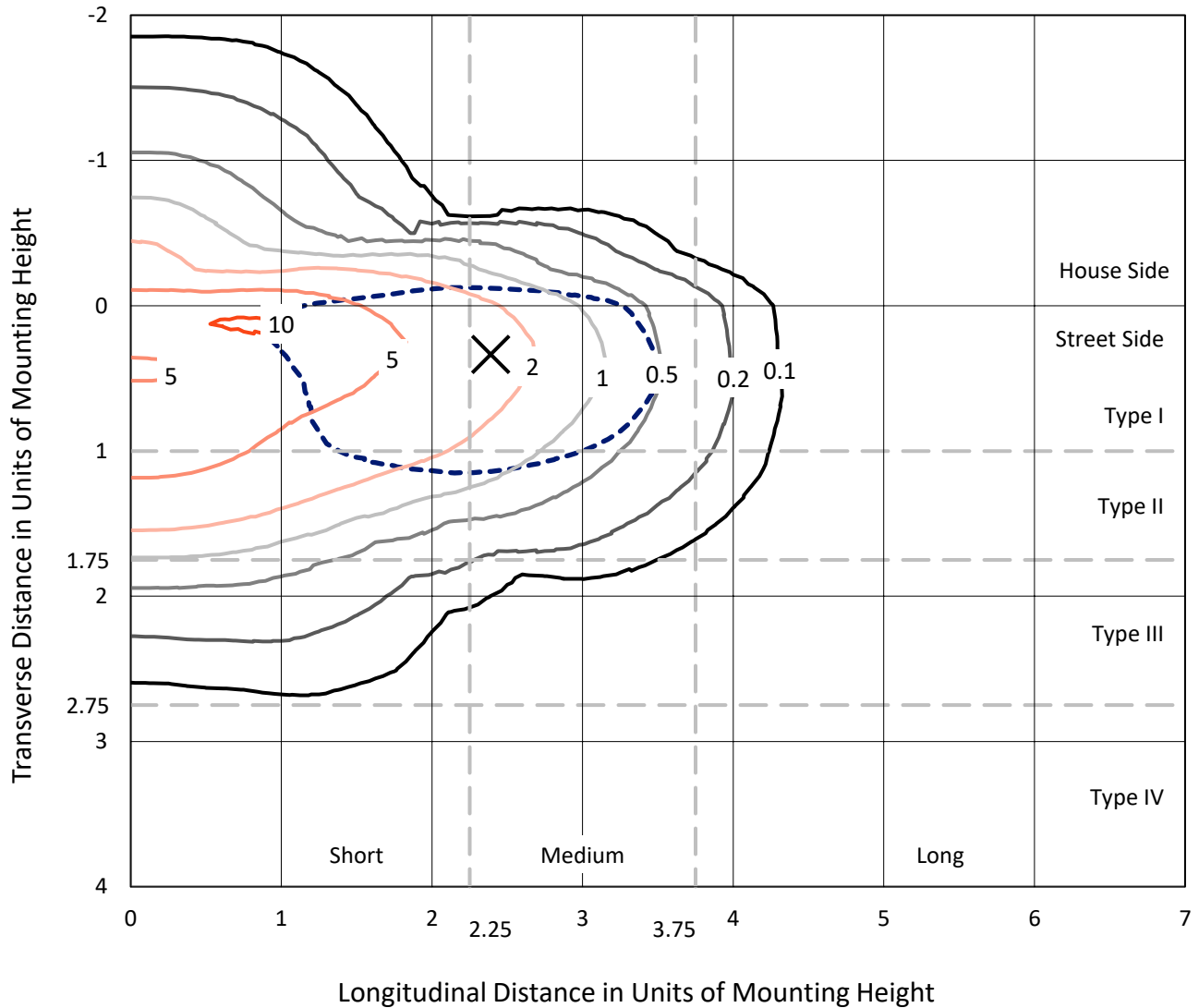
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

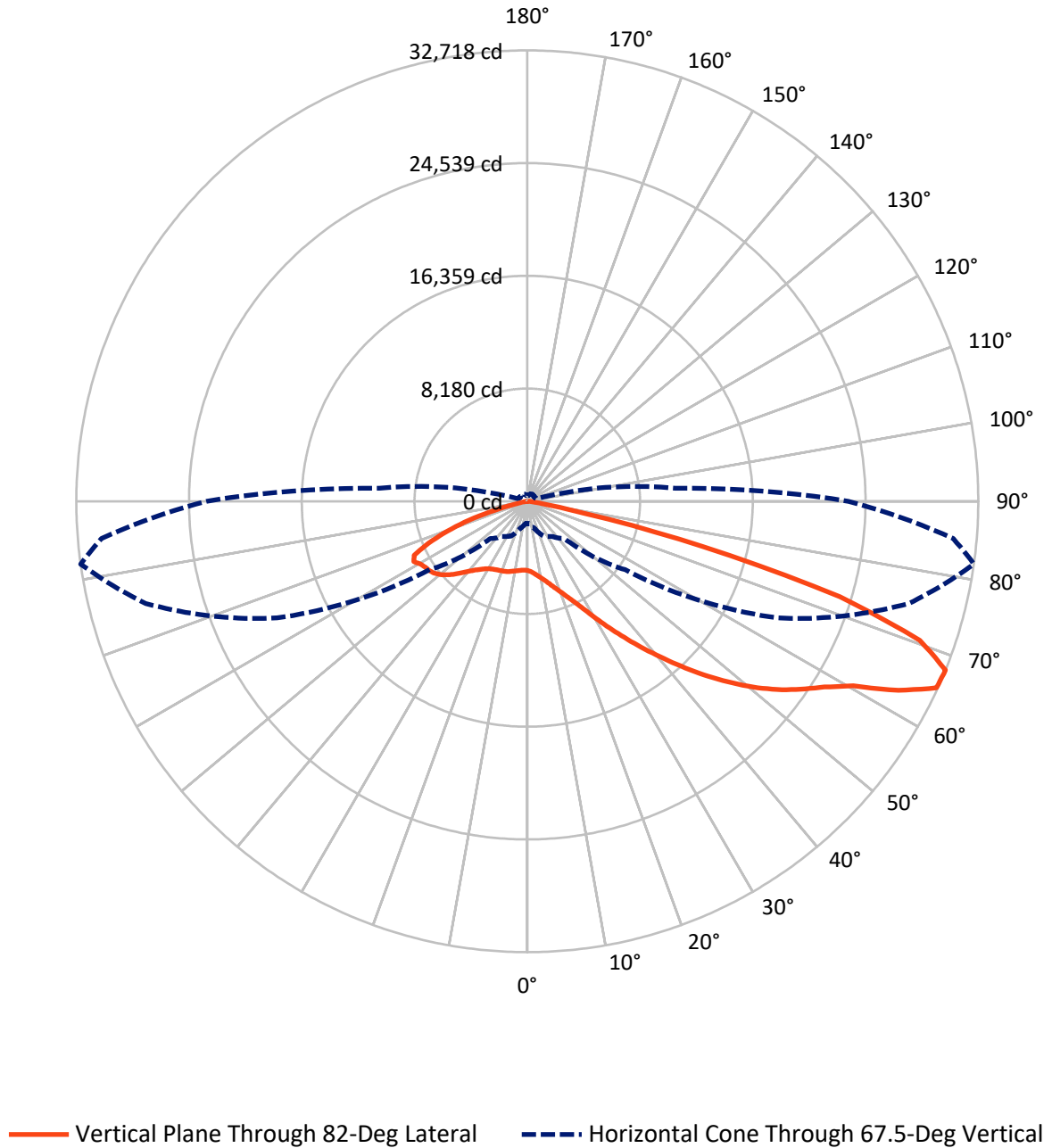
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5492.2	0.0	5492.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24827.8	0.0	24827.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	30320.0	0.0	30320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.5	1.5
10°-20°	1162.9	3.8
20°-30°	1862.6	6.1
30°-40°	3293.6	10.9
40°-50°	5770.8	19.0
50°-60°	7696.6	25.4
60°-70°	7165.2	23.6
70°-80°	2750.0	9.1
80°-90°	170.8	0.6
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°	30320.0	100.0
0°-180°	30320.0	100.0

Coefficient of Utilization



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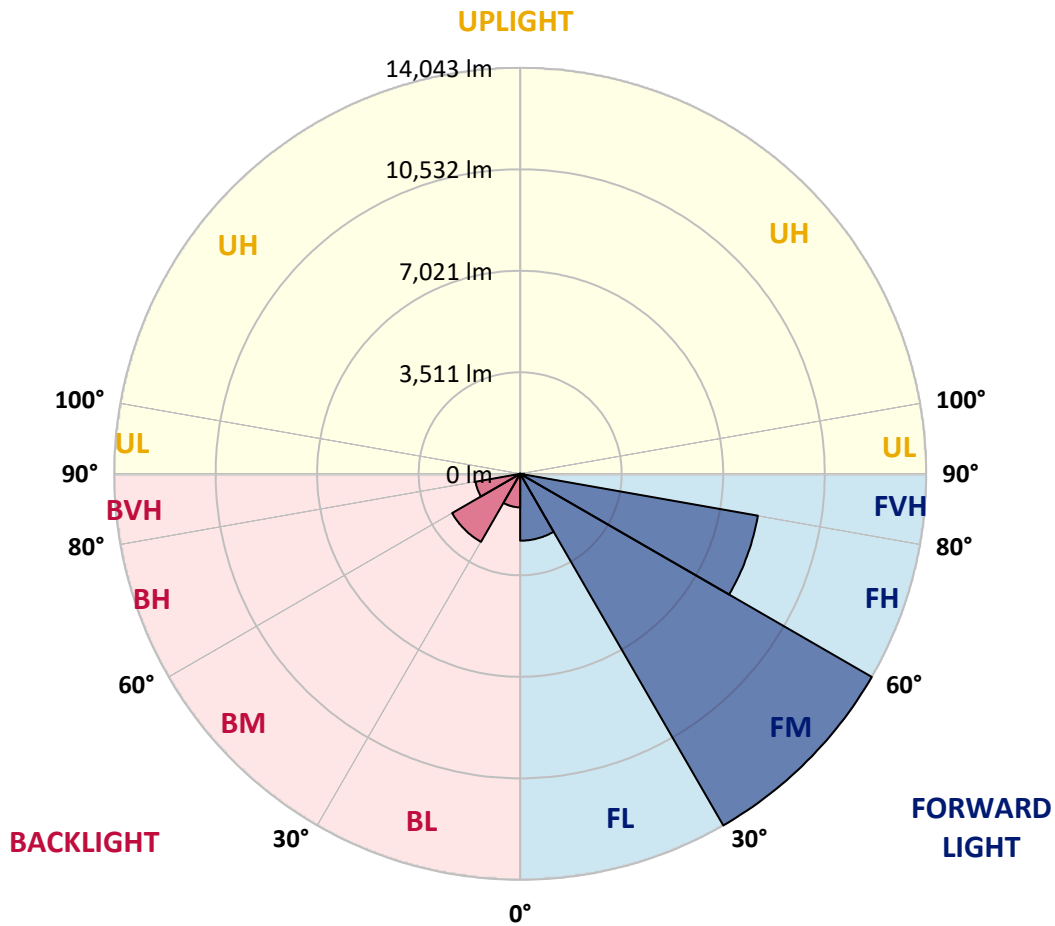
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2313.1	7.6			
FM (30°-60°)	14043.0	46.3			
FH (60°-80°)	8347.6	27.5			G4/12000
FVH (80°-90°)	124.2	0.4			G2/225
BL (0°-30°)	1159.9	3.8	B3/2500		
BM (30°-60°)	2718.1	9.0	B3/5000		
BH (60°-80°)	1567.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	46.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0
2.5°	5309.0	5339.5	5322.1	5313.3	5298.1	5276.2	5258.8	5204.2	5147.4	5110.3
5°	5415.9	5446.5	5444.3	5453.0	5464.0	5470.5	5466.1	5405.0	5324.2	5260.9
7.5°	5324.2	5359.2	5387.6	5431.2	5507.6	5588.4	5627.7	5614.6	5531.6	5444.3
10°	5064.5	5101.6	5169.3	5271.9	5433.4	5608.0	5754.3	5822.0	5769.6	5673.5
12.5°	4588.6	4625.7	4758.9	4981.5	5252.2	5555.6	5835.1	6016.2	6029.3	5933.3
15°	4053.8	4090.9	4232.8	4512.2	4924.8	5411.6	5878.7	6221.4	6337.1	6254.2
17.5°	3722.0	3754.7	3861.7	4086.5	4516.6	5123.4	5863.4	6439.7	6703.9	6638.4
20°	3621.5	3649.9	3700.1	3857.3	4215.3	4824.3	5763.0	6644.9	7099.0	7061.9
22.5°	3728.5	3754.7	3770.0	3839.8	4064.7	4627.9	5636.4	6854.5	7557.4	7561.8
25°	3975.2	4001.4	3983.9	4027.6	4125.8	4566.8	5588.4	7101.2	8133.7	8181.7
27.5°	4381.2	4383.4	4341.9	4339.7	4355.0	4658.4	5638.6	7365.3	8860.6	8950.1
30°	5195.5	5162.7	5003.4	4830.9	4752.3	4933.5	5778.3	7677.5	9718.6	9877.9
32.5°	6450.7	6402.6	6110.1	5697.5	5282.8	5376.6	6029.3	8033.3	10652.9	10941.0
35°	7812.8	7799.7	7494.1	6880.7	6156.0	6007.5	6437.6	8500.5	11672.3	12130.7
37.5°	9078.9	9072.4	8897.8	8175.2	7293.3	6887.2	7092.4	9111.7	12763.8	13427.4
40°	10235.9	10255.6	10080.9	9434.8	8546.3	8015.8	7983.1	9867.0	13977.5	14839.8
42.5°	11235.7	11257.5	11080.7	10602.7	9784.0	9264.5	9076.8	10792.6	15162.9	16356.9
45°	11914.6	12050.0	12023.8	11641.7	11054.5	10515.3	10390.9	11953.9	16514.1	17965.8
47.5°	12106.7	12231.1	12427.6	12480.0	12122.0	11591.5	11740.0	13353.2	17880.7	19576.8
50°	11633.0	11748.7	12156.9	12700.5	12949.3	12785.6	13051.9	14852.9	19279.9	21183.5
52.5°	10698.7	10816.6	11331.8	12191.8	13206.9	13722.1	14368.3	16330.7	20635.5	22705.0
55°	9347.4	9471.9	10133.3	11106.9	12715.8	14108.5	15466.3	17806.4	21877.7	24073.7
57.5°	7509.4	7601.1	8288.7	9650.9	11480.2	13724.3	16276.2	19417.5	23047.7	25418.4
60°	4894.2	4975.0	5773.9	7293.3	9432.6	12440.7	16437.7	21214.0	24602.0	27167.0
62.5°	3254.8	3309.4	3783.1	4898.6	6642.8	9976.1	15492.5	22648.2	26881.0	30210.0
65°	2233.2	2287.7	2761.4	3538.6	4291.7	6599.1	12774.7	22458.3	28946.1	32626.6
67.5°	1593.6	1639.4	2041.1	2774.5	3106.4	3833.3	8659.8	20030.9	28649.2	32718.2
70°	1141.7	1167.9	1499.7	2161.1	2468.9	2303.0	4815.6	15320.0	25084.4	30212.2
72.5°	799.0	807.7	1041.3	1646.0	1988.7	1680.9	2292.1	10214.1	18972.1	23713.5
75°	541.4	552.3	700.7	1207.2	1595.7	1283.6	1213.7	5477.1	11137.5	13126.2
77.5°	331.8	336.2	451.9	825.2	1194.1	978.0	781.5	2320.5	4309.2	4230.6
80°	187.7	187.7	288.2	513.0	814.2	630.9	547.9	986.7	1364.4	1198.4
82.5°	104.8	107.0	209.6	318.7	539.2	373.3	301.2	456.2	589.4	521.7
85°	43.7	48.0	128.8	150.6	257.6	185.6	122.2	192.1	218.3	194.3
87.5°	4.4	6.5	39.3	28.4	30.6	37.1	17.5	37.1	30.6	30.6
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°
5023.0	0°	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0	5023.0
5097.2	2.5°	5055.7	5023.0	4940.0	4844.0	4717.4	4656.3	4573.3	4516.6	4468.5	4472.9
5223.8	5°	5154.0	5071.0	4885.5	4654.1	4365.9	4160.7	3942.4	3791.8	3669.6	3643.4
5398.5	7.5°	5289.3	5158.3	4833.1	4416.1	3929.3	3560.4	3230.8	3019.0	2868.4	2820.4
5610.2	10°	5464.0	5274.0	4765.4	4117.1	3416.3	2947.0	2593.4	2427.5	2324.9	2289.9
5859.1	12.5°	5667.0	5407.2	4675.9	3752.5	2888.1	2436.2	2211.3	2128.4	2095.6	2084.7
6164.7	15°	5922.4	5573.1	4540.6	3320.3	2440.6	2124.0	2028.0	2017.1	2021.4	2017.1
6531.4	17.5°	6225.8	5754.3	4320.1	2875.0	2139.3	1964.7	1929.7	1938.5	1949.4	1947.2
6941.8	20°	6557.6	5933.3	4038.5	2479.8	1934.1	1851.2	1831.5	1840.2	1849.0	1844.6
7415.5	22.5°	6935.3	6125.4	3726.3	2172.0	1796.6	1746.4	1724.5	1726.7	1726.7	1718.0
8015.8	25°	7387.1	6337.1	3398.9	1953.8	1691.8	1652.5	1626.3	1617.6	1604.5	1578.3
8744.9	27.5°	7926.3	6562.0	3084.5	1800.9	1608.8	1571.7	1541.2	1519.3	1486.6	1442.9
9620.3	30°	8533.2	6834.9	2818.2	1704.9	1543.4	1506.2	1471.3	1438.6	1390.5	1336.0
10626.7	32.5°	9247.0	7127.4	2623.9	1641.6	1484.4	1445.1	1403.6	1364.4	1312.0	1257.4
11757.4	35°	10098.4	7481.0	2510.4	1597.9	1438.6	1386.2	1340.3	1296.7	1257.4	1209.4
12986.4	37.5°	11021.8	7856.5	2475.5	1576.1	1408.0	1327.2	1274.9	1244.3	1239.9	1211.5
14315.9	40°	12032.5	8301.8	2501.7	1563.0	1375.3	1270.5	1213.7	1207.2	1218.1	1167.9
15737.0	42.5°	13102.1	8830.1	2545.3	1547.7	1329.4	1213.7	1159.2	1159.2	1150.4	1080.6
17238.9	45°	14259.1	9439.1	2589.0	1510.6	1274.9	1157.0	1115.5	1100.2	1063.1	995.4
18749.5	47.5°	15424.8	10059.1	2621.7	1442.9	1209.4	1108.9	1071.8	1036.9	982.3	921.2
20231.7	50°	16531.6	10615.7	2586.8	1342.5	1135.1	1063.1	1023.8	975.8	916.8	875.4
21635.3	52.5°	17520.5	11098.2	2438.4	1224.6	1056.6	1015.1	980.2	929.9	881.9	838.3
22901.5	55°	18380.5	11488.9	2176.4	1113.3	986.7	973.6	938.7	875.4	809.9	772.8
24156.7	57.5°	19205.7	11785.8	1849.0	1021.6	923.4	927.8	875.4	818.6	757.5	718.2
25848.5	60°	20303.7	12183.1	1517.2	936.5	855.7	868.8	812.1	770.6	694.2	644.0
28749.6	62.5°	22058.8	12800.9	1205.0	831.7	777.1	781.5	757.5	707.3	615.6	556.7
30899.8	65°	23451.6	12573.9	949.6	718.2	687.6	694.2	694.2	639.6	541.4	473.7
31015.5	67.5°	23294.4	10766.4	757.5	606.9	602.5	606.9	622.1	576.3	480.3	425.7
28653.6	70°	21458.5	8563.8	606.9	504.3	523.9	513.0	556.7	526.1	432.2	377.7
22213.8	72.5°	17509.5	6169.1	462.8	416.9	401.7	419.1	502.1	473.7	360.2	299.1
11766.2	75°	10231.5	3291.9	344.9	329.6	290.3	349.3	445.3	403.8	275.1	220.5
3606.3	77.5°	3331.2	1148.2	253.2	242.3	216.1	281.6	379.8	340.5	224.8	174.6
1056.6	80°	892.8	347.1	172.5	159.4	139.7	209.6	301.2	270.7	161.5	113.5
454.1	82.5°	358.0	146.3	100.4	89.5	76.4	144.1	237.9	218.3	120.1	72.0
141.9	85°	115.7	48.0	37.1	28.4	34.9	89.5	141.9	148.4	85.1	37.1
21.8	87.5°	15.3	6.5	6.5	8.7	6.5	15.3	43.7	41.5	24.0	4.4
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>
5023.0
4429.2
3584.4
2772.4
2263.7
2078.2
2014.9
1942.8
1842.4
1713.6
1573.9
1438.6
1331.6
1259.6
1205.0
1209.4
1170.1
1080.6
993.2
919.0
868.8
833.9
768.4
713.8
637.4
552.3
467.2
416.9
371.1
292.5
213.9
168.1
111.3
72.0
28.4
0.0
0.0

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