

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: P956963

Luminaire Tested: **GALN-SB9B-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36158 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

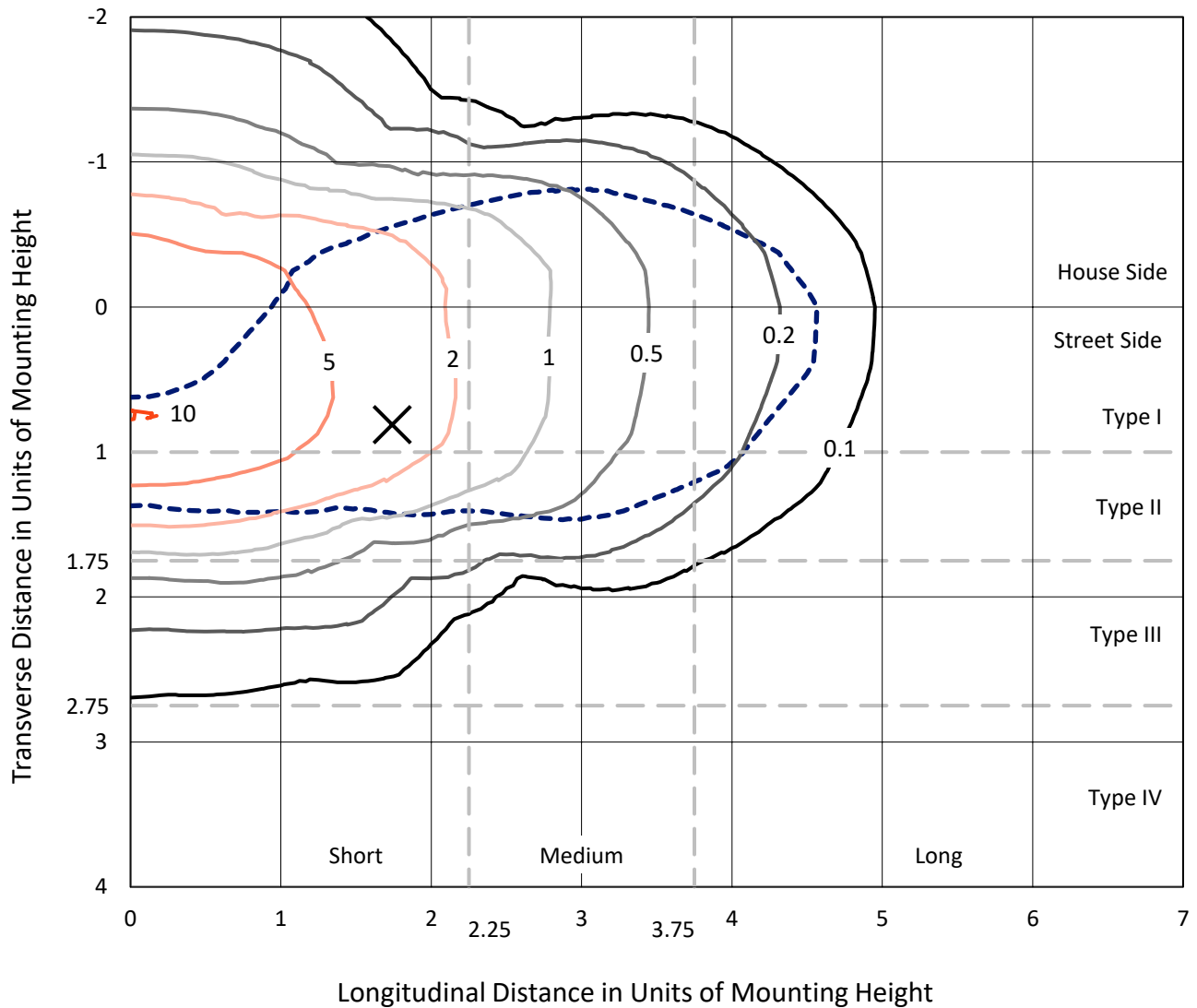
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

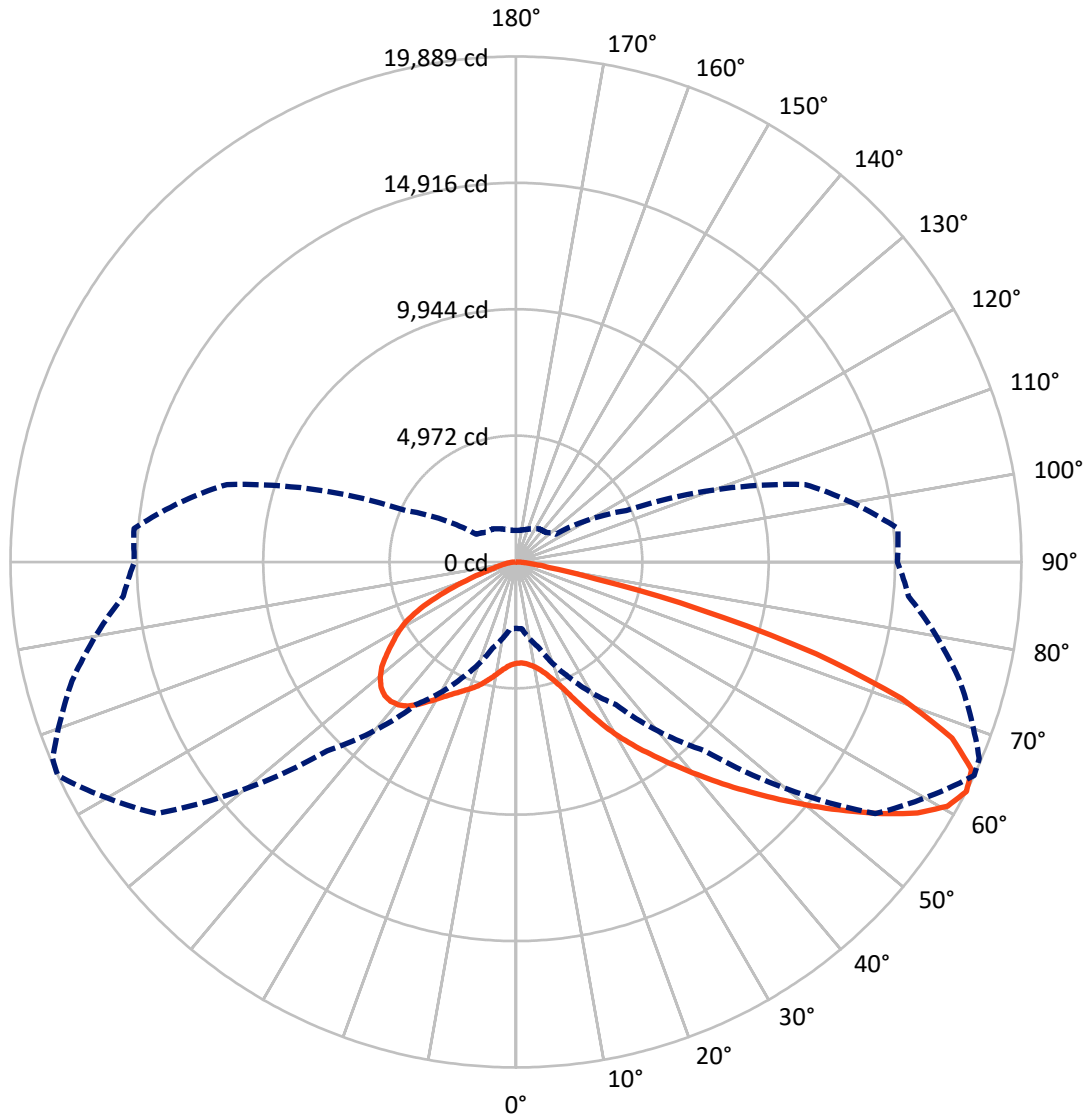
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11409.9	0.0	11409.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24748.1	0.0	24748.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	36158.0	0.0	36158.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.2	1.1
10°-20°	1347.1	3.7
20°-30°	2731.4	7.6
30°-40°	4726.6	13.1
40°-50°	7152.8	19.8
50°-60°	8386.2	23.2
60°-70°	7030.8	19.4
70°-80°	3881.6	10.7
80°-90°	504.2	1.4
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°	36158.0	100.0
0°-180°	36158.0	100.0



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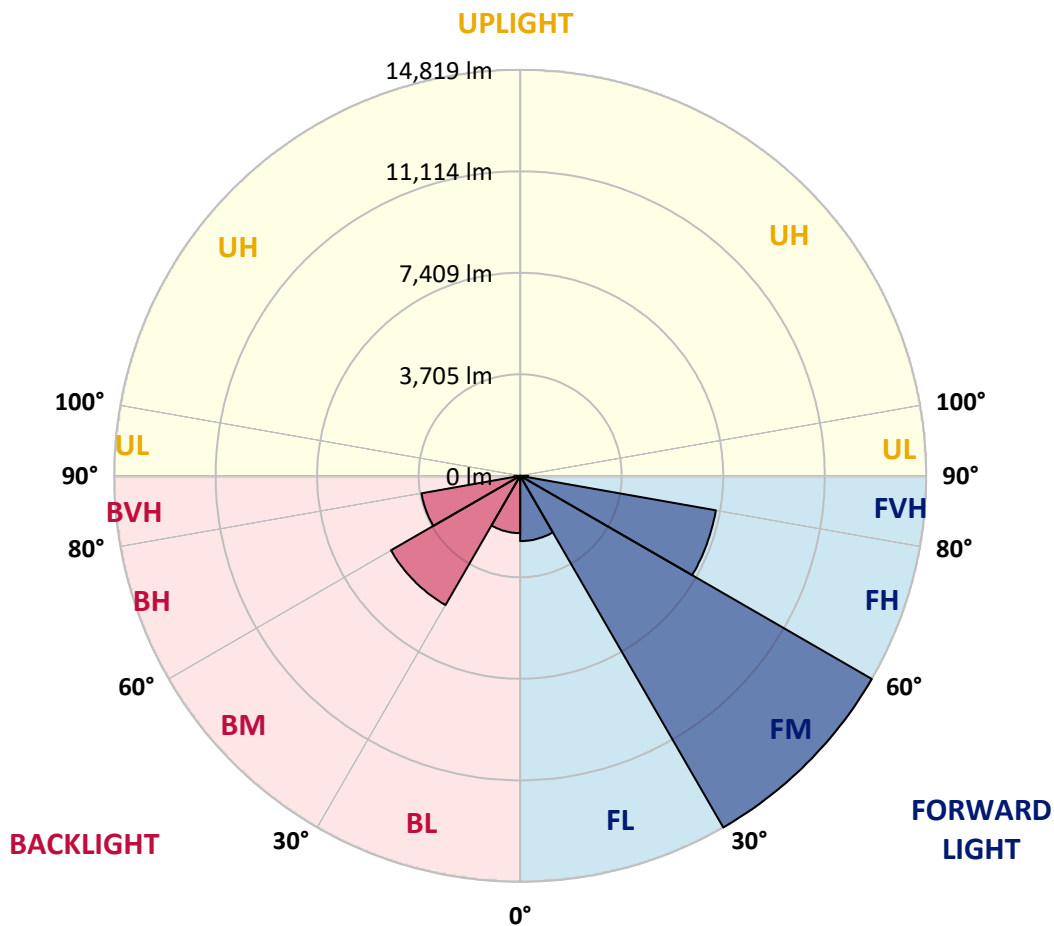
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2383.3	6.6			
FM (30°-60°)	14818.7	41.0			
FH (60°-80°)	7252.2	20.1			G3/7500
FVH (80°-90°)	293.9	0.8			G3/500
BL (0°-30°)	2092.4	5.8	B3/2500		
BM (30°-60°)	5446.9	15.1	B4/8500		
BH (60°-80°)	3660.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	210.3	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5
2.5°	3958.2	3946.9	3956.3	3956.3	3960.1	3958.2	3971.3	3975.1	3980.7	3992.0
5°	3918.8	3916.9	3933.8	3948.8	3963.8	3977.0	3993.8	4018.2	4022.0	4035.1
7.5°	3905.7	3894.4	3920.7	3939.4	3975.1	4007.0	4052.0	4093.3	4110.1	4115.8
10°	4007.0	3988.2	4012.6	4023.8	4053.9	4085.8	4138.3	4203.9	4222.7	4245.2
12.5°	4179.6	4158.9	4194.6	4211.4	4239.6	4267.7	4303.4	4367.1	4376.5	4417.8
15°	4415.9	4391.5	4414.0	4434.7	4481.6	4507.8	4543.5	4605.4	4605.4	4637.3
17.5°	4736.7	4704.8	4721.7	4729.2	4759.2	4798.6	4858.6	4913.0	4941.2	4929.9
20°	5215.1	5175.7	5175.7	5138.1	5126.9	5158.8	5237.6	5312.6	5342.6	5284.5
22.5°	5933.5	5877.3	5845.4	5717.8	5667.2	5670.9	5749.7	5841.6	5866.0	5762.8
25°	6847.1	6758.9	6715.8	6528.2	6413.8	6314.3	6376.3	6494.4	6528.2	6400.6
27.5°	7760.7	7766.3	7725.0	7499.9	7310.5	7128.5	7096.6	7220.4	7256.1	7111.6
30°	9041.9	8908.7	8830.0	8559.8	8289.7	8034.6	7903.3	7953.9	7963.3	7790.7
32.5°	10146.9	10113.1	9944.3	9707.9	9360.8	8961.3	8741.8	8661.1	8646.1	8400.4
35°	11405.6	11386.8	11208.6	10927.2	10552.1	9996.8	9601.0	9370.2	9351.5	9006.3
37.5°	12685.0	12685.0	12510.5	12202.9	11814.5	11120.5	10518.3	10152.5	10092.5	9642.2
40°	13705.5	13643.6	13675.5	13546.0	13101.4	12364.2	11536.9	11006.0	10925.4	10385.1
42.5°	14285.1	14264.5	14455.8	14600.3	14418.3	13829.3	12658.7	11930.9	11818.3	11203.0
45°	14414.6	14392.1	14733.5	15262.5	15517.6	15275.6	13878.1	12904.5	12767.5	12058.4
47.5°	14116.3	14071.3	14572.1	15406.9	16224.8	16650.7	15198.7	13960.6	13761.8	12891.3
50°	13219.6	13176.5	13934.3	15043.0	16463.1	17584.9	16631.9	15080.5	14776.6	13784.3
52.5°	11270.5	11291.2	12478.6	14001.9	16149.8	18166.4	17866.3	16260.5	15894.7	14697.8
55°	8779.3	8824.3	10283.8	11960.9	14896.7	18078.2	18708.6	17476.1	17112.1	15557.0
57.5°	6286.2	6485.1	7852.6	9512.8	12489.9	16680.7	18892.4	18631.6	18279.0	16495.0
60°	4074.5	4110.1	5517.1	7190.4	9510.9	14197.0	18519.1	19507.7	19231.9	17451.7
62.5°	2611.3	2635.7	3493.0	5029.3	6845.2	10503.3	17262.2	19888.5	19804.1	18083.9
65°	1919.1	1900.3	2346.8	3324.1	4611.0	6477.6	14821.6	19704.7	19871.6	18479.7
67.5°	1602.0	1575.8	1795.3	2301.8	3397.3	3678.7	10966.6	18509.7	19121.3	18434.7
70°	1459.5	1437.0	1570.1	1709.0	2650.7	2463.1	5528.3	16091.6	17033.4	17922.5
72.5°	1236.2	1196.8	1378.8	1517.6	2061.6	1889.1	2284.9	12360.4	13508.5	16281.1
75°	958.6	932.3	1088.0	1335.7	1549.5	1474.5	1444.5	7505.6	8758.7	12591.2
77.5°	759.7	724.1	866.7	1041.1	1393.8	1112.4	1052.4	3232.2	4474.1	8038.3
80°	572.2	540.3	658.4	823.5	1071.2	838.5	681.0	1318.8	1686.5	4072.6
82.5°	407.1	378.9	459.6	604.0	720.4	752.2	418.3	739.1	831.0	1570.1
85°	260.8	243.9	307.7	378.9	457.7	484.0	255.1	386.4	424.0	647.2
87.5°	142.6	116.3	165.1	176.3	212.0	193.2	121.9	140.7	151.9	234.5
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°
3984.5	0°	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5	3984.5
3992.0	2.5°	3999.5	4005.1	4023.8	4029.5	4042.6	4059.5	4070.7	4082.0	4082.0	4093.3
4052.0	5°	4053.9	4067.0	4106.4	4127.0	4160.8	4194.6	4215.2	4239.6	4254.6	4262.1
4147.7	7.5°	4158.9	4179.6	4235.8	4271.5	4329.6	4376.5	4408.4	4442.2	4449.7	4470.3
4280.9	10°	4301.5	4325.9	4389.7	4457.2	4526.6	4584.7	4614.8	4639.2	4648.5	4652.3
4451.6	12.5°	4464.7	4500.3	4582.9	4665.4	4738.6	4789.2	4796.7	4791.1	4764.8	4742.3
4661.7	15°	4665.4	4697.3	4789.2	4879.3	4950.6	4959.9	4913.0	4883.0	4851.1	4845.5
4896.2	17.5°	4905.5	4922.4	5006.8	5095.0	5100.6	5068.7	4999.3	4971.2	4941.2	4920.5
5201.9	20°	5185.0	5179.4	5239.4	5277.0	5237.6	5140.0	5035.0	4988.1	4958.1	4933.7
5577.1	22.5°	5519.0	5475.8	5468.3	5458.9	5353.9	5149.4	5006.8	4946.8	4899.9	4866.1
6100.5	25°	6004.8	5839.7	5725.3	5661.5	5425.2	5098.8	4916.8	4783.6	4695.4	4637.3
6740.2	27.5°	6612.6	6335.0	6046.1	5890.4	5425.2	4995.6	4699.2	4483.4	4339.0	4279.0
7359.2	30°	7192.3	6901.5	6475.7	6166.2	5412.0	4826.7	4348.4	4048.2	3879.4	3819.4
7888.2	32.5°	7687.5	7370.5	6931.5	6468.2	5380.1	4552.9	3913.2	3581.1	3417.9	3346.6
8411.6	35°	8147.1	7809.5	7389.3	6800.2	5295.7	4151.4	3434.8	3181.6	2999.6	2885.2
8944.4	37.5°	8618.0	8216.5	7822.6	7100.4	5143.8	3682.4	3067.1	2851.4	2637.5	2483.7
9510.9	40°	9130.1	8649.9	8285.9	7278.6	4894.3	3236.0	2782.0	2585.0	2358.0	2194.8
10163.7	42.5°	9728.5	9169.5	8801.8	7370.5	4552.9	2918.9	2596.3	2403.1	2189.2	2056.0
10863.5	45°	10353.2	9741.7	9272.7	7368.6	4172.0	2770.7	2536.2	2344.9	2108.5	1969.7
11581.9	47.5°	11007.9	10340.1	9679.7	7248.6	3841.9	2791.4	2502.5	2219.2	1958.5	1823.4
12307.9	50°	11664.5	10994.8	10073.7	7023.4	3701.2	2746.3	2376.8	2042.9	1735.2	1613.3
12988.9	52.5°	12315.4	11690.7	10413.2	6702.7	3558.6	2579.4	2215.5	1814.0	1643.3	1558.9
13692.3	55°	12970.1	12379.2	10782.8	6235.6	3202.2	2384.3	1945.3	1727.7	1570.1	1493.2
14380.8	57.5°	13626.7	13174.6	11133.6	5768.5	2753.9	2144.2	1797.1	1622.7	1497.0	1431.3
14956.7	60°	14309.5	14084.4	11495.6	5338.9	2311.1	1836.5	1688.3	1538.3	1410.7	1337.5
15510.1	62.5°	15013.0	15086.2	11778.9	4785.5	1904.1	1648.9	1590.8	1437.0	1313.1	1243.7
15967.8	65°	15722.1	16052.3	11964.6	4018.2	1543.9	1470.7	1485.7	1326.3	1200.6	1140.6
16303.6	67.5°	16256.7	16748.2	11912.1	3040.9	1266.2	1301.9	1354.4	1210.0	1091.8	1044.9
16249.2	70°	16316.8	16665.7	11394.3	2082.3	1059.9	1136.8	1208.1	1095.5	973.6	939.8
15483.8	72.5°	15517.6	15540.1	9951.8	1360.0	896.7	998.0	1054.3	979.2	861.0	827.3
13546.0	75°	13422.2	12851.9	7306.7	896.7	750.4	857.3	909.8	857.3	742.9	750.4
10135.6	77.5°	10169.4	9102.0	4436.6	637.8	626.6	720.4	791.6	754.1	656.6	737.2
5096.9	80°	5239.4	4924.3	1979.1	476.5	495.2	575.9	650.9	602.2	519.6	495.2
1138.7	82.5°	1200.6	1395.7	780.4	341.4	358.3	414.6	497.1	452.1	373.3	315.2
474.6	85°	420.2	459.6	345.2	213.9	210.1	258.9	337.7	302.0	253.2	202.6
200.7	87.5°	133.2	174.5	129.4	86.3	90.0	116.3	155.7	142.6	118.2	76.9
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>
3984.5
4093.3
4265.8
4462.8
4642.9
4742.3
4845.5
4922.4
4935.5
4877.4
4659.8
4309.0
3855.0
3382.3
2922.7
2525.0
2226.7
2082.3
1992.2
1842.2
1620.8
1558.9
1485.7
1420.1
1331.9
1241.9
1138.7
1046.8
941.7
825.4
724.1
649.1
452.1
311.4
213.9
80.7
0.0

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