

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: P954046

Luminaire Tested: **GALN-SB7B-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28599 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

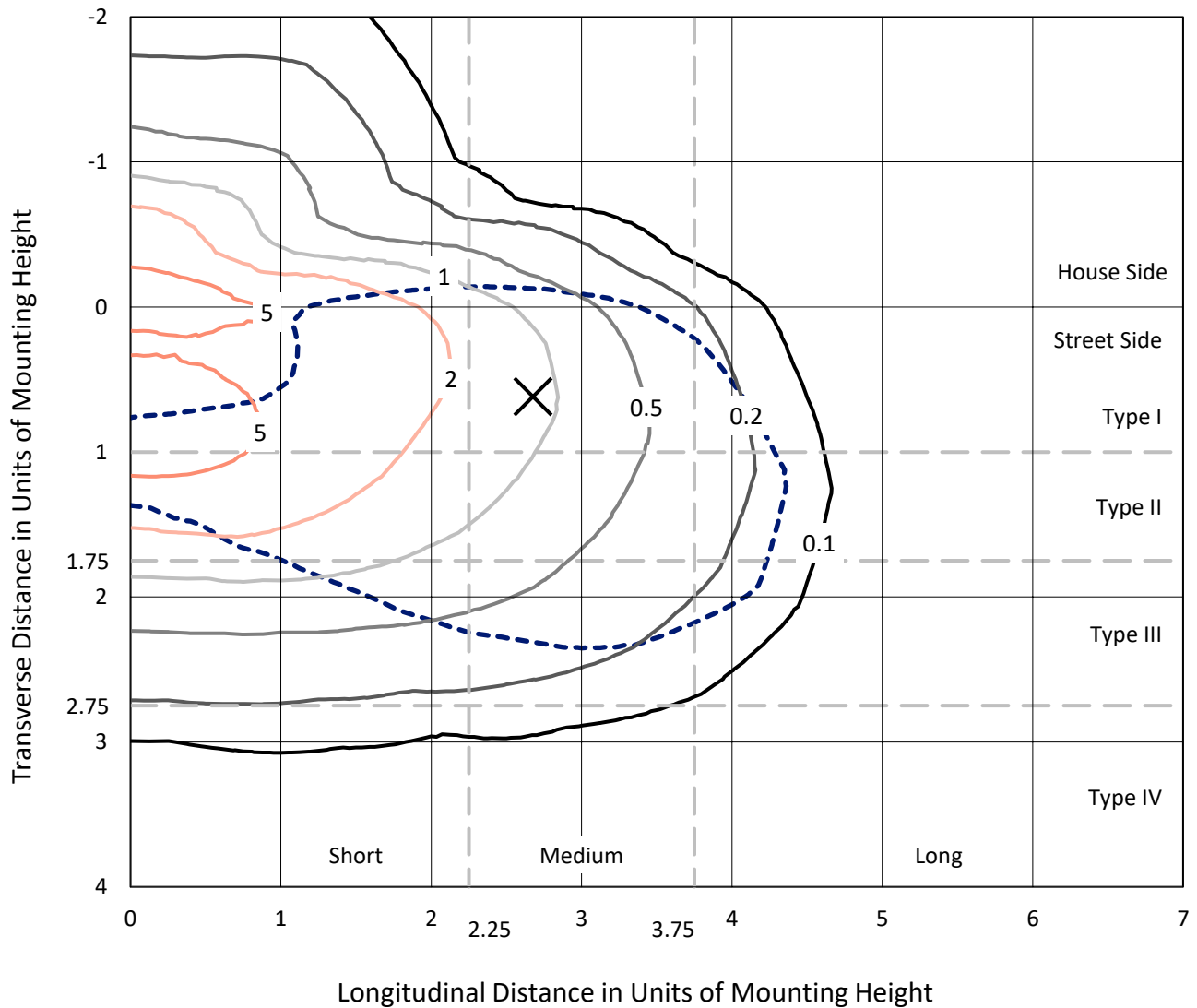
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

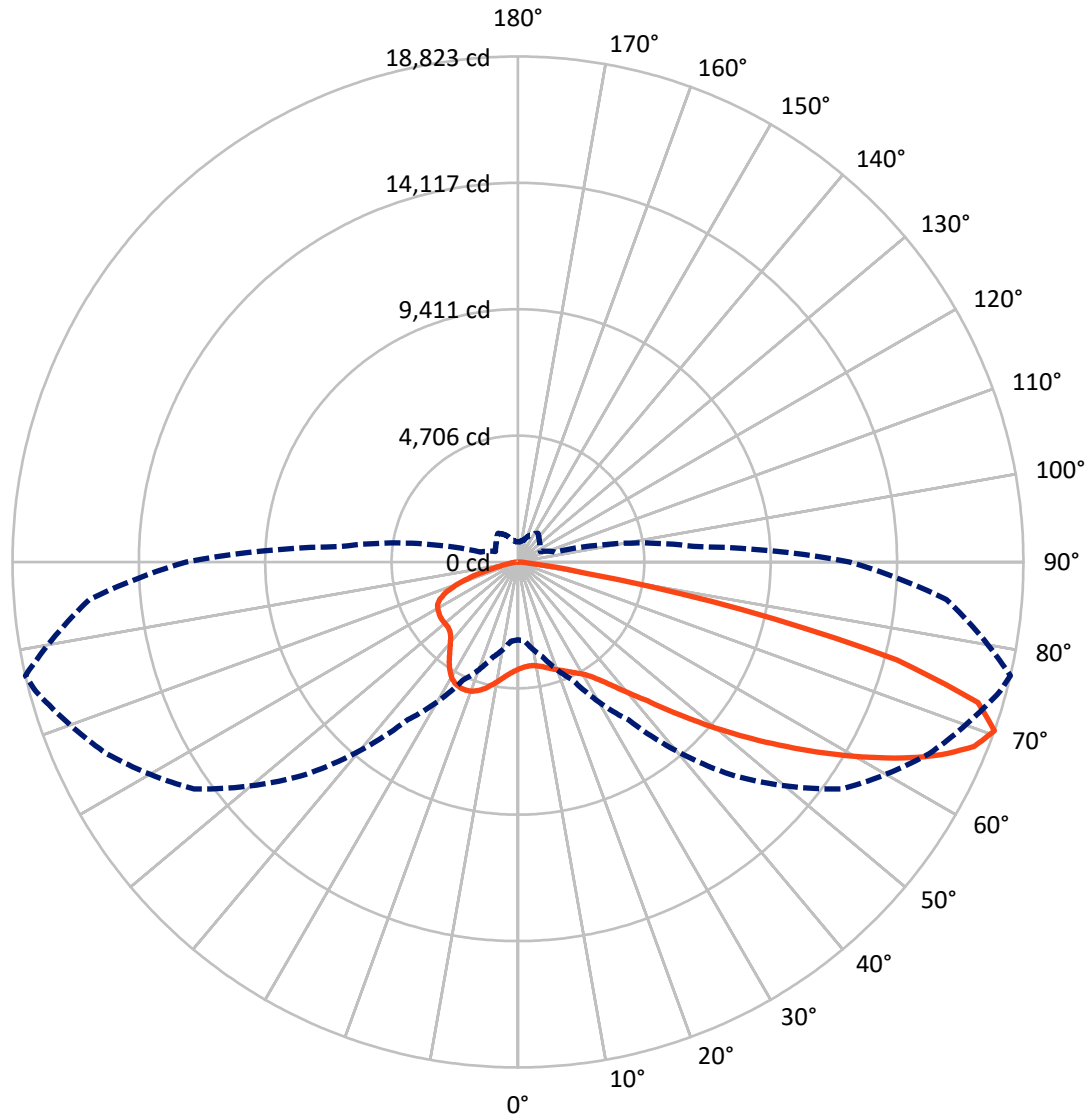
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6262.7	0.0	6262.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22336.3	0.0	22336.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	28599.0	0.0	28599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.5	1.3
10°-20°	1098.2	3.8
20°-30°	1878.1	6.6
30°-40°	3020.2	10.6
40°-50°	4715.3	16.5
50°-60°	6298.6	22.0
60°-70°	6713.3	23.5
70°-80°	4132.7	14.5
80°-90°	362.1	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°	28599.0	100.0
0°-180°	28599.0	100.0



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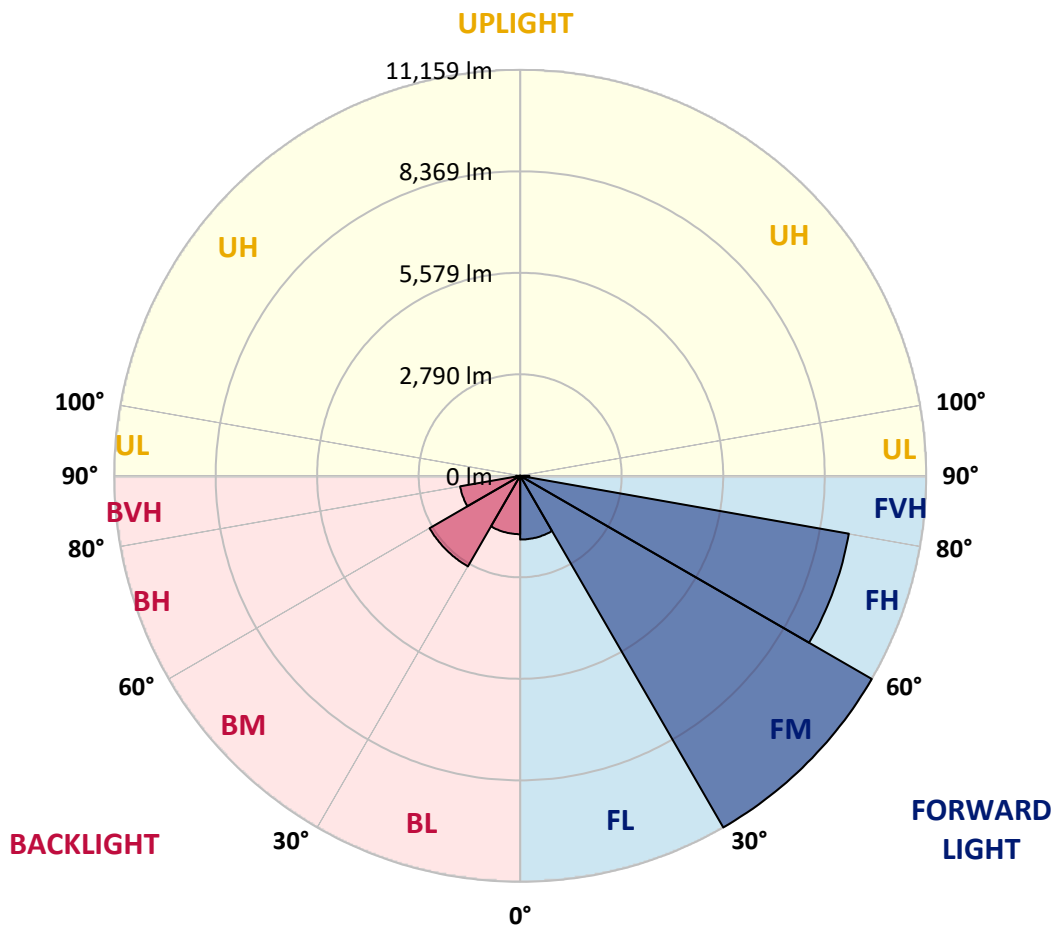
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.2	6.1			
FM (30°-60°)	11158.7	39.0			
FH (60°-80°)	9172.2	32.1			G4/12000
FVH (80°-90°)	253.2	0.9			G3/500
BL (0°-30°)	1604.7	5.6	B3/2500		
BM (30°-60°)	2875.4	10.1	B3/5000		
BH (60°-80°)	1673.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	108.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8
2.5°	3677.8	3676.4	3695.4	3701.3	3736.4	3761.3	3808.2	3858.0	3922.4	3929.8
5°	3465.5	3465.5	3487.4	3510.9	3556.3	3606.1	3677.8	3764.3	3875.6	3893.2
7.5°	3285.3	3297.0	3316.1	3361.5	3414.2	3486.0	3595.8	3718.9	3865.3	3893.2
10°	3140.3	3153.5	3176.9	3213.5	3292.6	3392.2	3535.8	3694.0	3890.2	3934.2
12.5°	3094.9	3108.1	3121.3	3149.1	3222.3	3339.5	3510.9	3705.7	3950.3	3994.2
15°	3200.4	3216.5	3206.2	3198.9	3237.0	3343.9	3522.6	3748.1	4025.0	4088.0
17.5°	3443.5	3449.3	3425.9	3357.1	3351.2	3408.3	3578.2	3806.7	4118.7	4187.6
20°	3836.0	3825.8	3777.4	3641.2	3563.6	3551.9	3673.4	3894.6	4215.4	4288.6
22.5°	4369.2	4357.5	4260.8	4045.5	3872.6	3758.4	3811.1	4008.9	4323.8	4405.8
25°	5034.1	5018.0	4876.0	4583.0	4315.0	4032.3	3998.6	4159.7	4457.1	4533.2
27.5°	5810.4	5797.3	5643.5	5256.8	4870.1	4407.3	4231.5	4337.0	4596.2	4682.6
30°	6645.3	6683.4	6411.0	5995.0	5505.8	4896.5	4544.9	4555.2	4776.4	4854.0
32.5°	7626.7	7692.6	7364.5	6837.2	6169.3	5428.1	4940.4	4859.8	5038.5	5103.0
35°	8599.2	8673.9	8401.5	7818.5	7049.6	6055.0	5353.4	5209.9	5387.1	5457.4
37.5°	9439.9	9539.5	9398.9	8892.1	7991.4	6810.8	5892.5	5621.5	5816.3	5904.2
40°	10103.4	10255.8	10245.5	9929.1	9101.6	7727.7	6576.5	6129.7	6349.4	6444.6
42.5°	10642.5	10774.3	10888.5	10872.4	10260.2	8769.1	7380.6	6790.3	6957.3	7067.1
45°	11014.5	11155.1	11401.2	11666.3	11374.8	9883.7	8301.9	7573.9	7726.3	7891.8
47.5°	11347.0	11506.6	11825.9	12246.3	12321.0	11002.8	9311.0	8486.4	8625.6	8796.9
50°	11376.3	11513.9	12009.0	12605.1	12993.3	12077.9	10394.9	9510.2	9640.6	9823.7
52.5°	10668.8	10885.6	11749.8	12594.9	13302.3	12977.2	11471.5	10575.1	10721.5	10941.3
55°	8281.4	8599.2	10989.6	12202.4	13192.5	13558.7	12495.3	11707.3	11894.8	12124.7
57.5°	7133.1	7272.2	8723.7	11487.6	12691.6	13709.5	13359.5	12851.2	13152.9	13404.9
60°	6411.0	6526.7	7385.0	10375.9	12032.4	13470.8	14027.4	13917.5	14438.9	14739.2
62.5°	5637.6	5747.5	6528.1	8663.7	11188.8	13073.8	14449.2	14901.8	15757.2	16085.2
65°	4870.1	4963.8	5712.3	7279.5	10116.6	12676.9	14667.4	15752.8	16977.2	17317.1
67.5°	4014.7	4092.3	4799.8	6141.5	8813.1	12133.5	14775.8	16422.1	18039.1	18330.6
70°	2897.2	2957.2	3688.1	4856.9	7177.0	11199.0	14731.9	16896.7	18589.9	18822.8
72.5°	1369.5	1423.7	2282.0	3153.5	5069.3	9379.9	13842.8	16520.3	18030.4	17914.6
75°	730.9	777.8	1310.9	1729.8	2677.5	6430.0	11327.9	14230.9	15140.5	14578.1
77.5°	495.1	531.7	811.4	1038.5	1223.0	3052.4	7281.0	9853.0	9479.5	8550.9
80°	392.5	430.6	665.0	703.1	591.7	1102.9	3008.5	4561.1	3276.5	2620.3
82.5°	301.7	344.2	559.5	509.7	322.2	452.6	875.9	1442.7	839.3	638.6
85°	184.6	230.0	439.4	325.2	181.6	206.5	297.3	401.3	256.3	213.8
87.5°	93.7	131.8	222.6	118.6	82.0	48.3	79.1	79.1	67.4	58.6
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°
3989.8	0°	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8	3989.8
3969.3	2.5°	4004.5	4033.8	4083.6	4130.4	4167.0	4202.2	4237.4	4256.4	4262.3	4285.7
3991.3	5°	4051.3	4105.5	4202.2	4293.0	4350.1	4385.3	4410.2	4424.8	4427.8	4435.1
4051.3	7.5°	4137.8	4224.2	4358.9	4449.7	4492.2	4489.3	4479.0	4442.4	4427.8	4414.6
4139.2	10°	4259.3	4373.6	4539.1	4602.1	4575.7	4505.4	4414.6	4307.7	4257.9	4209.5
4259.3	12.5°	4410.2	4555.2	4717.8	4714.8	4584.5	4404.3	4193.4	4029.4	3925.4	3850.7
4407.3	15°	4593.3	4760.2	4884.7	4785.1	4499.5	4175.8	3866.8	3652.9	3559.2	3477.2
4556.7	17.5°	4782.2	4960.9	5018.0	4763.2	4285.7	3837.5	3487.4	3319.0	3226.7	3182.8
4717.8	20°	4966.8	5144.0	5097.1	4637.2	3960.5	3453.7	3141.8	3049.5	3030.4	3040.7
4874.5	22.5°	5161.6	5319.8	5113.2	4394.1	3546.0	3061.2	2889.8	2892.8	2935.2	2966.0
5038.5	25°	5360.8	5467.7	5070.8	4042.6	3100.8	2772.7	2730.2	2777.1	2860.5	2920.6
5223.1	27.5°	5552.6	5599.5	4978.5	3607.5	2718.5	2566.1	2573.5	2670.1	2796.1	2879.6
5447.2	30°	5769.4	5716.7	4801.3	3118.3	2453.4	2388.9	2450.4	2563.2	2689.2	2763.9
5729.9	32.5°	6014.0	5817.8	4520.0	2665.7	2265.9	2246.8	2347.9	2421.1	2476.8	2498.8
6104.8	35°	6318.7	5959.8	4159.7	2347.9	2097.4	2142.8	2239.5	2202.9	2180.9	2169.2
6608.7	37.5°	6714.1	6151.7	3737.9	2141.4	1961.2	2068.1	2107.7	1993.4	1907.0	1864.6
7219.5	40°	7190.2	6432.9	3332.2	1981.7	1874.8	2003.7	1934.9	1797.2	1687.3	1627.3
7906.4	42.5°	7718.9	6727.3	2990.9	1861.6	1826.5	1951.0	1807.4	1643.4	1466.2	1447.1
8725.2	45°	8274.0	7030.5	2758.0	1769.3	1803.0	1905.6	1734.2	1469.1	1343.1	1420.8
9546.9	47.5°	8829.2	7308.8	2617.4	1700.5	1791.3	1854.3	1669.7	1372.4	1283.1	1395.9
10427.1	50°	9447.3	7557.8	2554.4	1650.7	1778.1	1833.8	1573.1	1347.5	1220.1	1294.8
11338.2	52.5°	10061.0	7751.2	2507.6	1600.9	1759.1	1817.7	1526.2	1318.2	1143.9	1148.3
12255.1	55°	10673.2	7877.1	2456.3	1535.0	1716.6	1782.5	1521.8	1286.0	1086.8	1066.3
13224.7	57.5°	11326.5	7948.9	2393.3	1461.8	1643.4	1693.2	1517.4	1261.1	1069.2	1035.5
14216.3	60°	11991.4	8054.3	2311.3	1372.4	1545.3	1586.3	1507.2	1252.3	1059.0	1001.8
15150.8	62.5°	12587.6	8091.0	2213.1	1287.5	1419.3	1480.8	1485.2	1245.0	1031.1	933.0
15927.1	65°	12978.6	7932.8	2041.8	1190.8	1283.1	1372.4	1442.7	1220.1	981.3	883.2
16310.8	67.5°	12962.5	7481.6	1773.7	1066.3	1151.2	1252.3	1381.2	1177.6	921.3	821.7
16020.8	70°	12359.1	6591.1	1433.9	921.3	1006.2	1123.4	1302.1	1114.6	849.5	754.3
14245.6	72.5°	10600.0	5158.6	1041.4	751.4	837.8	990.1	1199.6	1038.5	776.3	694.3
10528.2	75°	7572.5	3264.8	706.0	577.1	651.8	839.3	1072.2	949.1	708.9	697.2
5272.9	77.5°	3868.3	1559.9	467.2	421.8	454.1	662.0	900.8	848.1	719.2	575.6
1499.8	80°	1258.2	575.6	294.4	287.1	301.7	440.9	697.2	695.7	544.9	391.1
363.2	82.5°	401.3	247.5	191.9	184.6	177.2	276.8	486.3	550.7	367.6	247.5
130.4	85°	159.7	147.9	112.8	104.0	74.7	130.4	254.9	366.2	273.9	178.7
33.7	87.5°	58.6	58.6	30.8	22.0	16.1	43.9	68.8	109.9	156.7	92.3
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>
3989.8
4298.9
4446.8
4417.5
4194.9
3833.1
3468.4
3196.0
3036.3
2973.3
2936.7
2900.1
2781.5
2510.5
2180.9
1874.8
1631.7
1466.2
1461.8
1448.6
1350.4
1179.1
1080.9
1039.9
1006.2
933.0
883.2
826.1
763.1
689.9
657.6
512.6
345.7
246.1
183.1
90.8
0.0

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