

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: P944479

Luminaire Tested: **GALN-SB9B-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36734 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

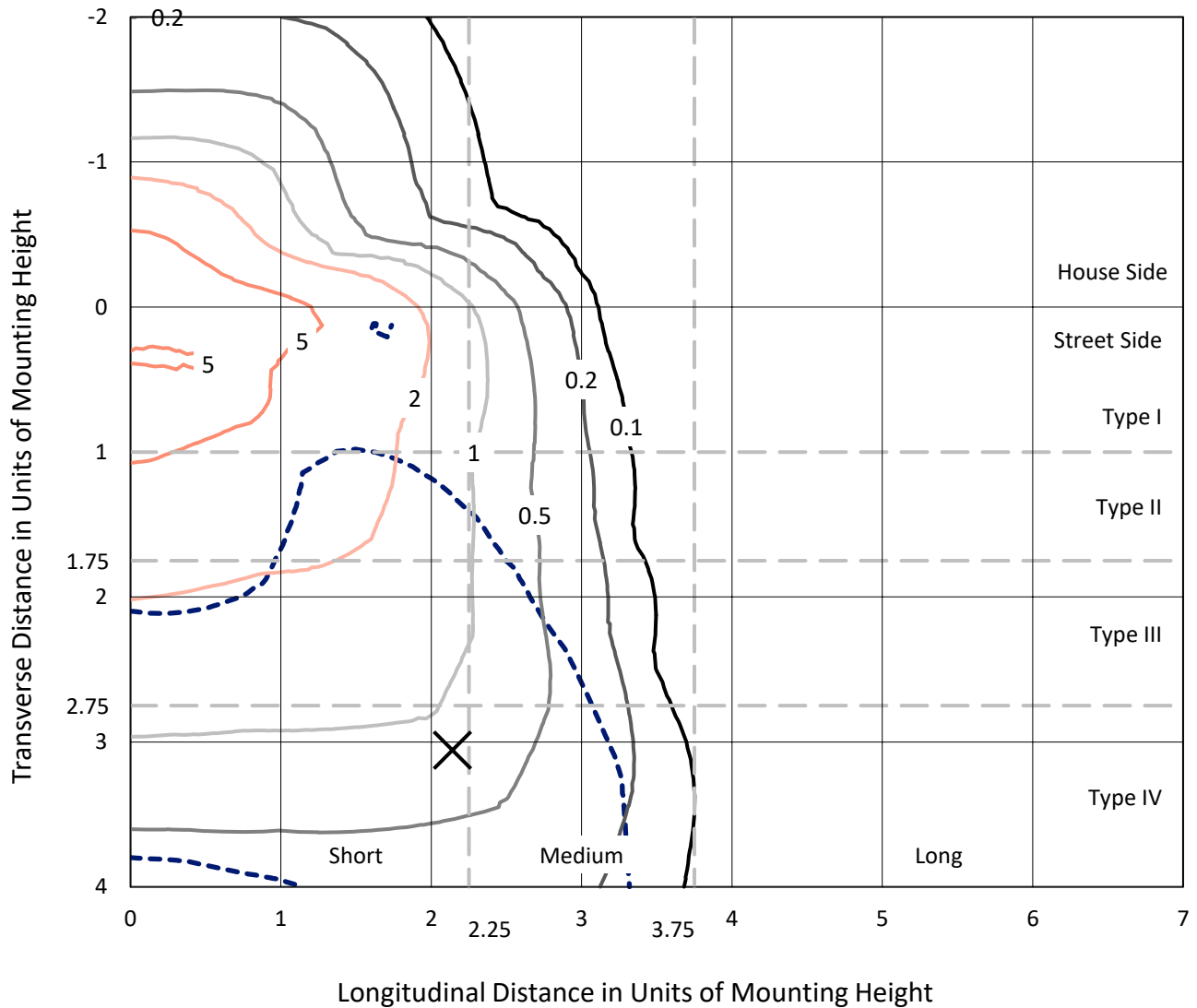
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

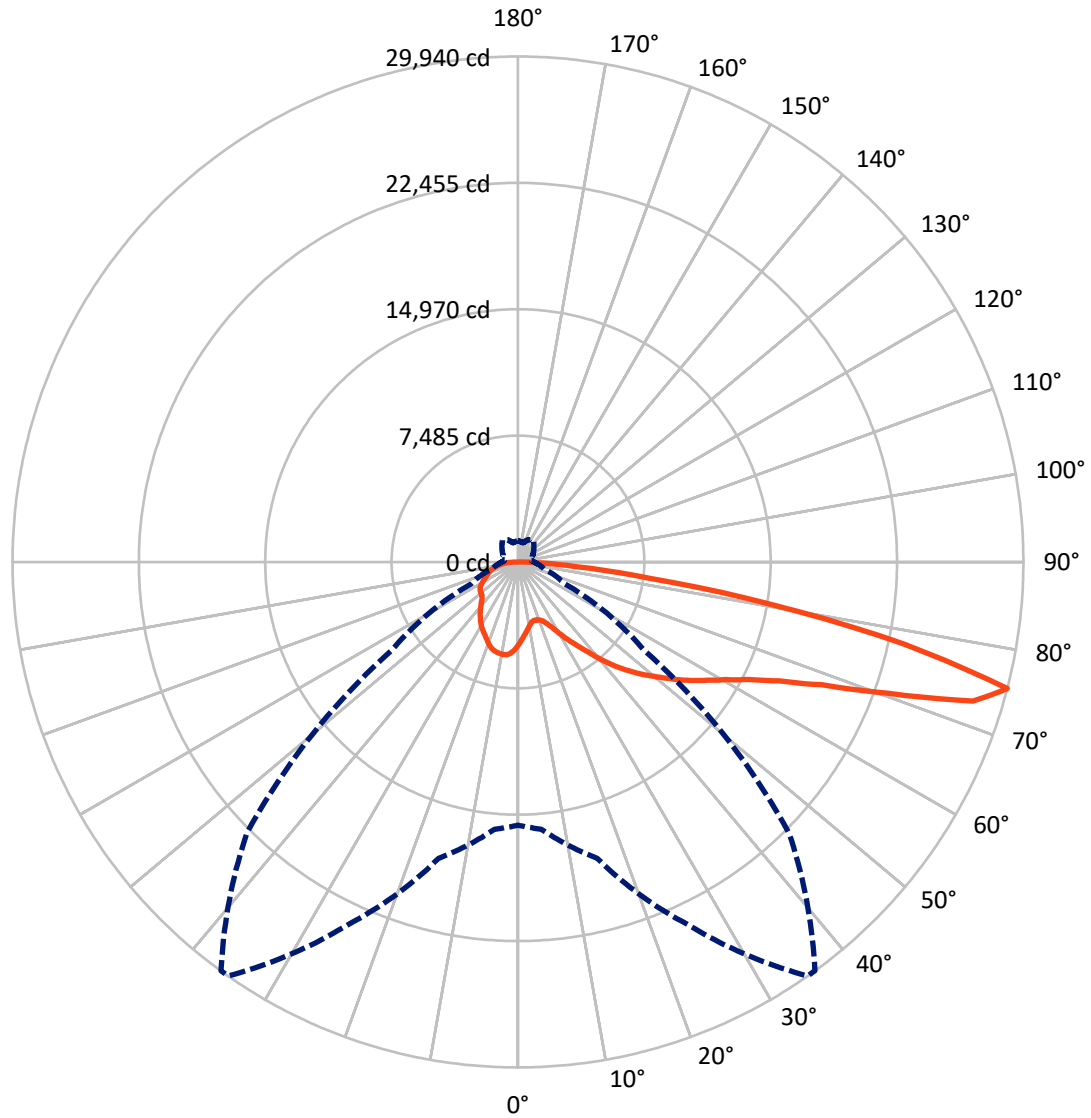
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8741.8	0.0	8741.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27992.2	0.0	27992.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	36734.0	0.0	36734.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	1.3
10°-20°	1336.8	3.6
20°-30°	2244.9	6.1
30°-40°	3488.9	9.5
40°-50°	5178.4	14.1
50°-60°	7149.1	19.5
60°-70°	8673.5	23.6
70°-80°	7168.0	19.5
80°-90°	1031.0	2.8
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°	36734.0	100.0
0°-180°	36734.0	100.0



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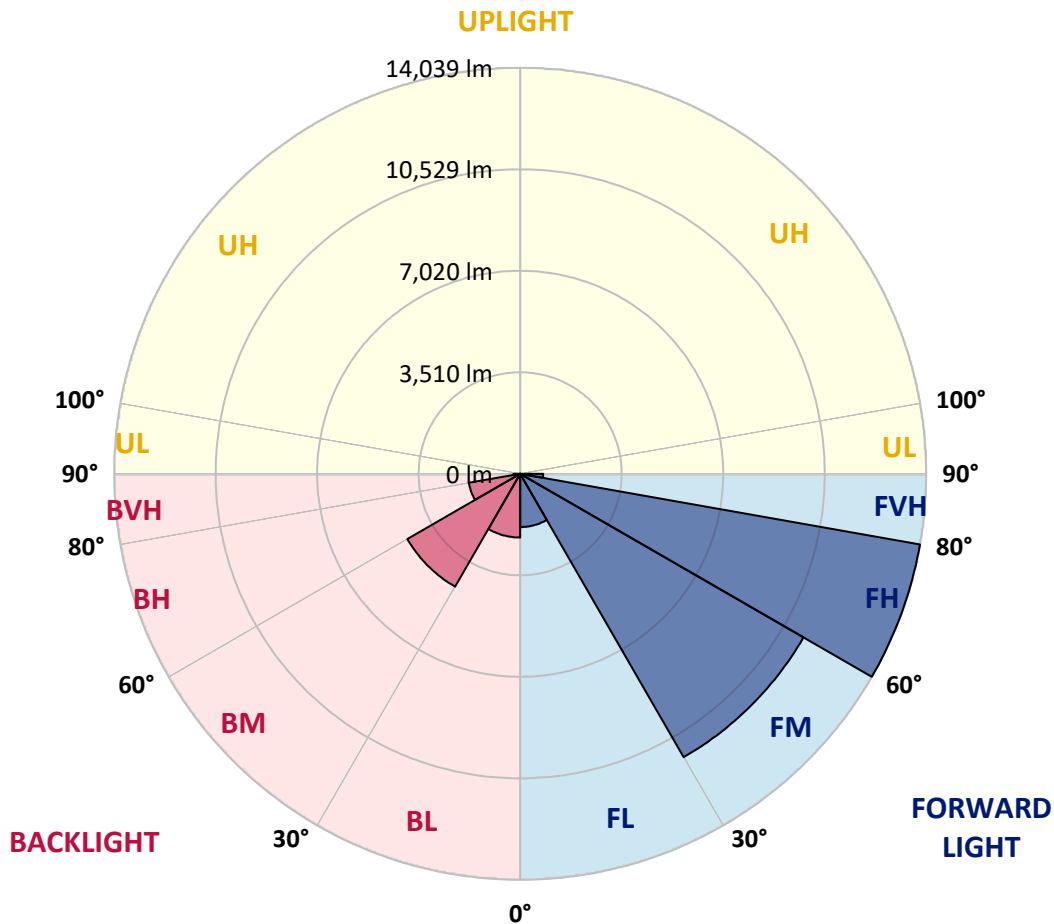
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.1	5.0			
FM (30°-60°)	11312.1	30.8			
FH (60°-80°)	14039.2	38.2			G5
FVH (80°-90°)	798.8	2.2			G5
BL (0°-30°)	2203.0	6.0	B3/2500		
BM (30°-60°)	4504.3	12.3	B3/5000		
BH (60°-80°)	1802.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	232.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1
2.5°	4513.8	4541.6	4553.5	4547.5	4577.3	4573.4	4615.1	4666.7	4738.2	4807.7
5°	4166.3	4196.0	4221.9	4245.7	4303.3	4321.2	4386.7	4486.0	4617.0	4750.1
7.5°	3842.6	3868.4	3908.1	3951.8	4049.1	4067.0	4176.2	4331.1	4513.8	4708.4
10°	3578.5	3604.3	3646.0	3695.6	3816.8	3838.6	3977.6	4184.1	4422.4	4668.7
12.5°	3465.3	3473.2	3497.0	3546.7	3651.9	3665.8	3818.7	4055.1	4333.1	4638.9
15°	3459.3	3475.2	3477.2	3503.0	3590.4	3596.3	3737.3	3971.6	4277.5	4632.9
17.5°	3518.9	3530.8	3512.9	3528.8	3602.3	3612.2	3723.4	3931.9	4259.6	4658.7
20°	3677.7	3687.7	3634.1	3612.2	3665.8	3673.8	3783.0	3957.7	4277.5	4712.4
22.5°	4015.3	4021.3	3890.2	3800.9	3804.8	3808.8	3904.1	4063.0	4347.0	4809.7
25°	4541.6	4537.6	4329.1	4156.3	4057.0	4035.2	4098.7	4233.8	4464.1	4938.7
27.5°	5157.2	5127.4	4918.9	4660.7	4444.3	4412.5	4398.6	4456.2	4630.9	5109.5
30°	5852.2	5824.4	5600.0	5262.4	4962.6	4910.9	4779.9	4750.1	4879.2	5341.9
32.5°	6614.8	6596.9	6328.8	5919.7	5518.6	5459.0	5238.6	5159.2	5260.4	5693.4
35°	7254.2	7238.3	7015.9	6594.9	6104.4	6030.9	5806.5	5717.2	5768.8	6144.1
37.5°	7832.1	7824.1	7633.5	7301.9	6795.5	6706.1	6453.9	6424.1	6414.2	6737.9
40°	8368.3	8348.4	8149.8	7975.1	7599.7	7518.3	7295.9	7270.1	7194.6	7468.7
42.5°	8962.0	8910.4	8622.4	8541.0	8439.7	8372.2	8239.2	8243.2	8076.3	8292.8
45°	9446.6	9416.8	9120.9	9073.2	9182.4	9154.6	9269.8	9299.6	8975.9	9156.6
47.5°	9966.8	9939.0	9688.8	9655.1	9951.0	9958.9	10366.0	10375.9	9853.7	10054.2
50°	10608.3	10568.6	10320.3	10362.0	10693.7	10723.4	11468.1	11400.6	10661.9	10965.7
52.5°	11031.2	11055.1	11001.5	11069.0	11521.7	11549.5	12552.4	12379.6	11462.2	11865.3
55°	11343.0	11390.7	11557.5	11712.4	12395.5	12423.3	13575.1	13311.0	12125.4	12699.3
57.5°	11744.2	11676.6	11988.4	12290.3	13225.6	13299.1	14570.0	14208.6	12713.2	13418.2
60°	12320.0	12272.4	12514.7	12961.5	14154.9	14272.1	15622.5	15016.8	13144.2	13988.1
62.5°	13487.7	13368.6	13406.3	13801.5	15326.6	15481.5	16810.0	15721.8	13358.6	14210.6
65°	15233.2	15028.7	14838.1	15112.1	16976.8	17129.7	18150.4	16275.8	13279.2	13779.6
67.5°	17431.6	17229.0	16994.7	17252.8	19407.4	19528.6	19804.6	16587.6	12653.7	12119.5
70°	19244.6	19169.2	19449.2	20511.6	23289.7	23293.7	21925.5	16329.4	10939.9	8592.7
72.5°	19004.3	18958.7	20434.1	23718.7	28182.8	28077.6	23933.1	14375.4	7369.4	3876.3
75°	15590.7	15886.6	18172.3	23661.1	29940.3	29926.4	22703.9	9138.8	3048.2	1606.5
77.5°	8360.3	8829.0	11797.8	17469.3	23373.1	23724.6	15962.0	3197.2	1308.7	1028.7
80°	2726.5	3135.6	4702.4	8894.5	15187.6	15122.0	6841.2	1255.0	895.6	728.8
82.5°	1157.7	1205.4	2101.0	4200.0	7794.4	7673.2	2178.4	720.9	629.5	498.4
85°	452.8	506.4	927.4	1942.1	3375.9	3302.4	786.4	357.4	403.1	325.7
87.5°	148.9	180.7	331.6	665.3	1050.5	1012.8	192.6	123.1	174.8	148.9
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°
4895.1	0°	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1	4895.1
4909.0	2.5°	4936.8	4968.5	5006.3	5061.9	5109.5	5149.2	5190.9	5216.8	5226.7	5256.5
4916.9	5°	4972.5	5042.0	5135.3	5226.7	5316.0	5369.7	5417.3	5441.2	5463.0	5478.9
4938.7	7.5°	5032.1	5121.4	5268.4	5387.5	5463.0	5506.7	5538.5	5530.5	5538.5	5542.4
4962.6	10°	5083.7	5208.8	5383.6	5496.8	5554.3	5556.3	5548.4	5520.6	5506.7	5508.7
4998.3	12.5°	5145.3	5284.3	5472.9	5568.2	5584.1	5540.4	5506.7	5459.0	5441.2	5433.2
5051.9	15°	5228.7	5387.5	5570.2	5606.0	5566.3	5510.7	5453.1	5375.6	5335.9	5304.1
5143.3	17.5°	5329.9	5504.7	5645.7	5619.9	5534.5	5443.1	5349.8	5232.6	5151.2	5117.5
5268.4	20°	5470.9	5627.8	5703.3	5590.1	5461.0	5322.0	5163.1	5020.2	4944.7	4910.9
5427.3	22.5°	5641.7	5792.6	5758.9	5538.5	5355.8	5133.4	4934.8	4829.5	4791.8	4768.0
5631.8	25°	5846.3	5975.3	5798.6	5463.0	5183.0	4883.1	4730.2	4696.5	4678.6	4660.7
5882.0	27.5°	6112.4	6181.9	5828.4	5351.8	4912.9	4617.0	4561.4	4567.4	4561.4	4531.6
6229.5	30°	6463.9	6450.0	5856.2	5171.1	4603.1	4376.8	4380.7	4406.5	4410.5	4390.7
6714.1	32.5°	6926.6	6785.6	5870.1	4936.8	4307.3	4166.3	4170.2	4198.0	4217.9	4184.1
7347.5	35°	7486.6	7176.8	5848.2	4642.9	4078.9	3965.7	3935.9	3943.8	3949.8	3918.0
8116.1	37.5°	8139.9	7615.6	5750.9	4317.2	3890.2	3769.1	3705.5	3651.9	3620.2	3590.4
8985.8	40°	8856.8	8094.2	5572.2	3999.4	3679.7	3560.6	3465.3	3364.0	3256.7	3217.0
9907.3	42.5°	9607.4	8586.7	5355.8	3695.6	3437.5	3340.2	3238.9	3091.9	2931.1	2849.7
10864.4	45°	10385.9	9091.1	5143.3	3395.8	3189.2	3147.5	3030.4	2853.6	2678.9	2575.6
11823.6	47.5°	11148.4	9567.7	4831.5	3093.9	2956.9	3002.6	2911.2	2748.4	2553.8	2390.9
12774.8	50°	11877.2	10014.5	4321.2	2788.1	2768.2	2958.9	2871.5	2637.2	2414.8	2206.2
13708.1	52.5°	12600.0	10375.9	3667.8	2510.1	2667.0	2947.0	2819.9	2561.7	2289.7	2071.2
14585.9	55°	13213.7	10562.6	3038.3	2271.8	2520.0	2845.7	2758.3	2472.3	2112.9	1880.6
15187.6	57.5°	13563.2	10411.7	2514.1	2037.5	2317.5	2678.9	2653.1	2281.7	1902.4	1723.7
15304.7	60°	13412.2	9800.0	2085.1	1832.9	2124.8	2498.2	2470.4	2093.1	1741.6	1572.8
14677.2	62.5°	12580.2	8634.4	1745.5	1654.2	1950.1	2313.5	2287.7	1948.1	1618.4	1455.6
13011.1	65°	10904.2	7023.9	1481.4	1505.3	1773.3	2091.1	2128.8	1827.0	1521.1	1362.3
10066.1	67.5°	8316.6	5087.7	1274.9	1376.2	1600.6	1872.6	1981.9	1739.6	1439.7	1288.8
5824.4	70°	4740.2	2889.4	1100.1	1251.1	1447.7	1670.1	1868.7	1670.1	1352.3	1227.2
2182.4	72.5°	1797.2	1326.5	951.2	1126.0	1300.7	1499.3	1743.6	1560.9	1251.1	1157.7
1127.9	75°	959.2	808.2	800.3	979.0	1131.9	1332.5	1586.7	1453.6	1175.6	1223.3
780.4	77.5°	653.3	571.9	669.2	838.0	947.2	1147.8	1419.9	1290.8	1018.7	1014.8
540.1	80°	452.8	405.1	544.1	675.2	732.8	965.1	1239.2	1108.1	830.1	774.5
333.6	82.5°	272.1	264.1	407.1	504.4	518.3	744.7	1026.7	929.4	679.2	591.8
198.6	85°	148.9	156.9	260.1	295.9	301.8	520.3	804.3	718.9	522.3	438.9
71.5	87.5°	41.7	53.6	95.3	117.2	145.0	270.1	478.6	427.0	262.1	182.7
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>
4895.1
5254.5
5482.9
5548.4
5512.6
5429.2
5314.1
5119.5
4907.0
4771.9
4660.7
4537.6
4400.6
4200.0
3939.9
3610.2
3234.9
2859.6
2567.7
2373.1
2188.4
2047.4
1860.7
1699.9
1548.9
1429.8
1336.5
1265.0
1211.4
1141.8
<i>1263.0</i>
935.3
740.7
595.7
442.8
182.7
0.0

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