

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: P955873

Luminaire Tested: **GALN-SB8C-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955873
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-SB8C-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45050 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

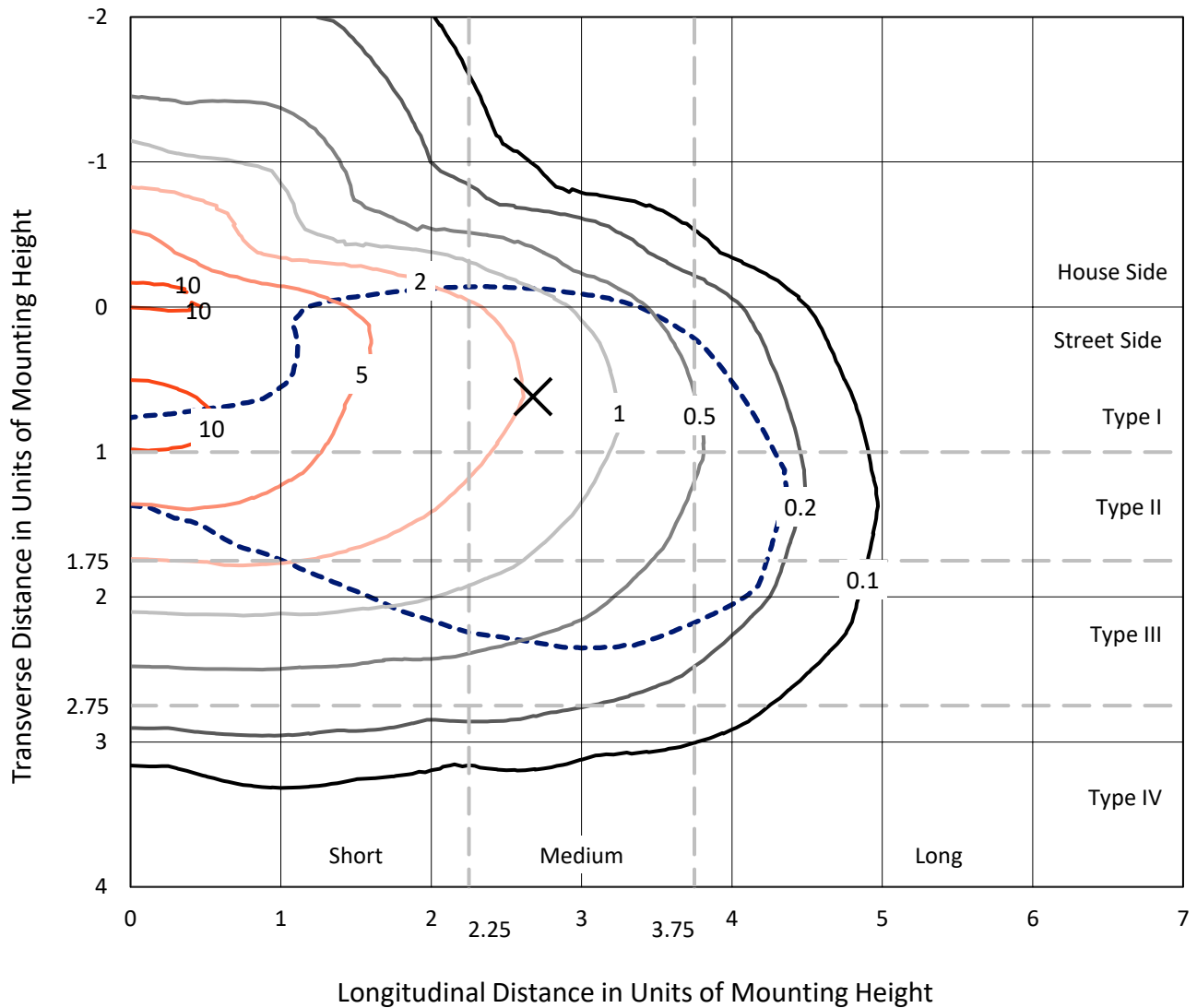
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

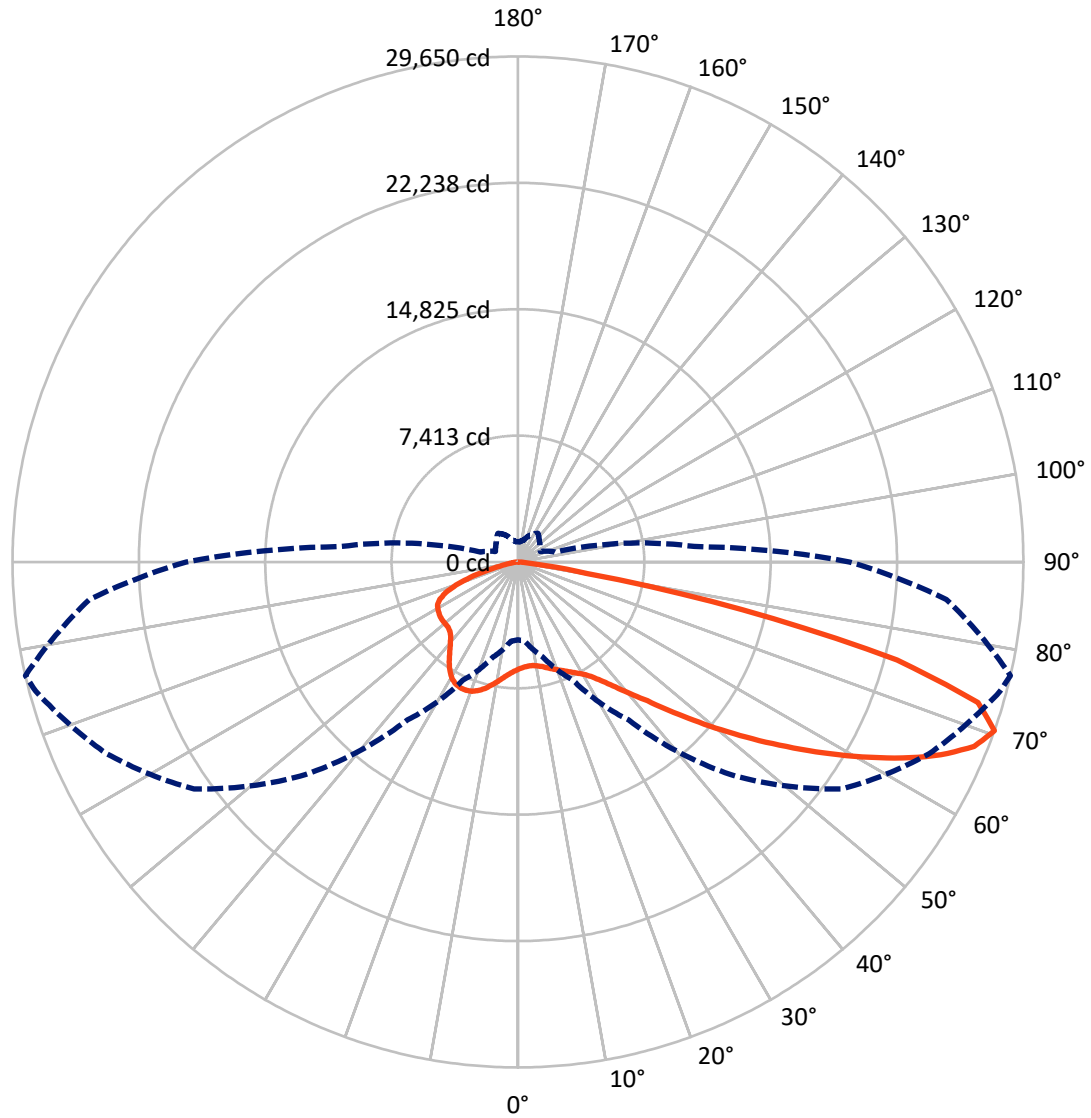
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	9865.2	0.0	9865.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	35184.7	0.0	35184.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	45050.0	0.0	45050.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.4	1.3
10°-20°	1730.0	3.8
20°-30°	2958.5	6.6
30°-40°	4757.5	10.6
40°-50°	7427.7	16.5
50°-60°	9921.7	22.0
60°-70°	10575.0	23.5
70°-80°	6509.9	14.5
80°-90°	570.4	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°	45050.0	100.0
0°-180°	45050.0	100.0

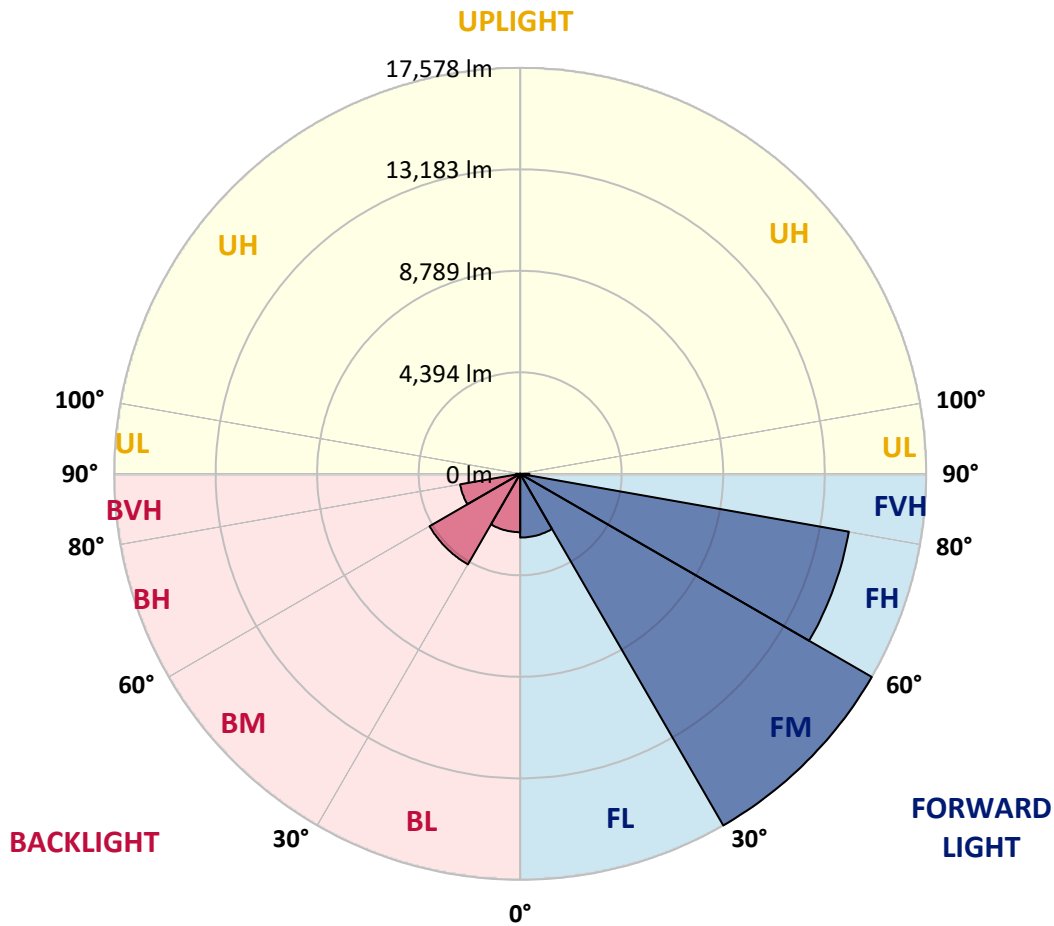


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.0	6.1			
FM (30°-60°)	17577.5	39.0			
FH (60°-80°)	14448.3	32.1			G5
FVH (80°-90°)	398.9	0.9			G3/500
BL (0°-30°)	2527.8	5.6	B4/5000		
BM (30°-60°)	4529.3	10.1	B3/5000		
BH (60°-80°)	2636.5	5.9	B4/5000		G4/5000
BVH (80°-90°)	171.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9
2.5°	5793.4	5791.1	5821.1	5830.4	5885.7	5925.0	5998.8	6077.2	6178.8	6190.3
5°	5458.9	5458.9	5493.5	5530.4	5601.9	5680.4	5793.4	5929.6	6104.9	6132.6
7.5°	5175.1	5193.6	5223.6	5295.1	5378.1	5491.2	5664.2	5858.0	6088.8	6132.6
10°	4946.7	4967.5	5004.4	5062.1	5186.6	5343.5	5569.6	5818.8	6128.0	6197.2
12.5°	4875.2	4895.9	4916.7	4960.5	5075.9	5260.5	5530.4	5837.3	6222.6	6291.8
15°	5041.3	5066.7	5050.5	5039.0	5099.0	5267.4	5548.9	5904.2	6340.3	6439.5
17.5°	5424.3	5433.5	5396.6	5288.2	5278.9	5368.9	5636.6	5996.5	6487.9	6596.4
20°	6042.6	6026.5	5950.3	5735.8	5613.5	5595.0	5786.5	6134.9	6640.2	6755.6
22.5°	6882.5	6864.0	6711.7	6372.6	6100.3	5920.3	6003.4	6314.9	6810.9	6940.1
25°	7929.9	7904.6	7680.8	7219.3	6797.1	6351.8	6298.7	6552.5	7020.9	7140.9
27.5°	9152.8	9132.0	8889.7	8280.6	7671.5	6942.4	6665.6	6831.7	7240.1	7376.2
30°	10467.9	10527.9	10098.7	9443.5	8672.9	7713.1	7159.3	7175.5	7523.9	7646.1
32.5°	12013.7	12117.6	11600.7	10770.1	9718.0	8550.6	7782.3	7655.4	7936.9	8038.4
35°	13545.7	13663.4	13234.3	12316.0	11104.7	9538.1	8432.9	8206.8	8486.0	8596.7
37.5°	14870.1	15027.0	14805.5	14007.2	12588.2	10728.6	9282.0	8855.1	9162.0	9300.4
40°	15915.3	16155.2	16139.1	15640.7	14337.1	12172.9	10359.4	9655.7	10001.8	10151.8
42.5°	16764.3	16972.0	17151.9	17126.5	16162.1	13813.4	11626.1	10696.3	10959.3	11132.4
45°	17350.3	17571.8	17959.5	18377.1	17917.9	15569.2	13077.4	11930.7	12170.6	12431.3
47.5°	17874.1	18125.6	18628.5	19290.7	19408.4	17331.9	14667.0	13368.1	13587.3	13857.2
50°	17920.2	18137.1	18917.0	19856.0	20467.4	19025.4	16374.4	14980.8	15186.2	15474.6
52.5°	16805.8	17147.3	18508.6	19839.8	20954.2	20442.0	18070.2	16658.2	16888.9	17235.0
55°	13045.1	13545.7	17311.1	19221.5	20781.2	21358.0	19683.0	18441.7	18737.0	19099.2
57.5°	11236.2	11455.4	13741.8	18095.6	19992.1	21595.6	21044.2	20243.6	20718.9	21115.7
60°	10098.7	10281.0	11633.0	16344.4	18953.9	21219.6	22096.3	21923.3	22744.6	23217.6
62.5°	8880.5	9053.6	10283.3	13647.2	17624.9	20594.3	22760.8	23473.7	24821.1	25338.0
65°	7671.5	7819.2	8998.2	11466.9	15936.0	19969.0	23104.6	24814.2	26743.1	27278.3
67.5°	6324.1	6446.4	7560.8	9674.2	13882.6	19113.1	23275.3	25868.6	28415.8	28874.9
70°	4563.7	4658.3	5809.6	7650.8	11305.4	17641.1	23206.1	26616.2	29283.3	29650.2
72.5°	2157.3	2242.6	3594.7	4967.5	7985.3	14775.5	21805.6	26023.2	28402.0	28219.7
75°	1151.3	1225.1	2065.0	2724.8	4217.6	10128.7	17844.1	22417.0	23849.8	22963.8
77.5°	779.8	837.5	1278.2	1635.8	1926.5	4808.3	11469.2	15520.7	14932.4	13469.6
80°	618.3	678.3	1047.5	1107.5	932.1	1737.3	4739.0	7184.7	5161.3	4127.6
82.5°	475.3	542.2	881.4	802.9	507.6	712.9	1379.7	2272.6	1322.0	1006.0
85°	290.7	362.2	692.2	512.2	286.1	325.3	468.4	632.2	403.8	336.9
87.5°	147.7	207.7	350.7	186.9	129.2	76.1	124.6	124.6	106.1	92.3
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°
6284.9	0°	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9	6284.9
6252.6	2.5°	6308.0	6354.1	6432.5	6506.4	6564.1	6619.4	6674.8	6704.8	6714.0	6750.9
6287.2	5°	6381.8	6467.2	6619.4	6762.5	6852.5	6907.8	6947.1	6970.1	6974.7	6986.3
6381.8	7.5°	6517.9	6654.0	6866.3	7009.4	7076.3	7071.7	7055.5	6997.8	6974.7	6954.0
6520.2	10°	6709.4	6889.4	7150.1	7249.3	7207.8	7097.0	6954.0	6785.6	6707.1	6631.0
6709.4	12.5°	6947.1	7175.5	7431.6	7427.0	7221.6	6937.8	6605.6	6347.2	6183.4	6065.7
6942.4	15°	7235.5	7498.5	7694.6	7537.7	7087.8	6577.9	6091.1	5754.2	5606.6	5477.4
7177.8	17.5°	7533.1	7814.6	7904.6	7503.1	6750.9	6044.9	5493.5	5228.2	5082.8	5013.6
7431.6	20°	7823.8	8103.0	8029.1	7304.7	6238.7	5440.4	4949.0	4803.6	4773.7	4789.8
7678.5	22.5°	8130.7	8379.8	8054.5	6921.7	5585.8	4822.1	4552.2	4556.8	4623.7	4672.1
7936.9	25°	8444.5	8612.9	7987.6	6367.9	4884.4	4367.6	4300.7	4374.5	4506.0	4600.6
8227.6	27.5°	8746.7	8820.5	7842.3	5682.7	4282.2	4042.3	4053.8	4206.1	4404.5	4536.0
8580.6	30°	9088.2	9005.1	7563.1	4912.1	3864.6	3763.1	3860.0	4037.6	4236.1	4353.7
9025.9	32.5°	9473.5	9164.3	7120.1	4199.2	3569.3	3539.3	3698.5	3813.8	3901.5	3936.1
9616.5	35°	9953.4	9388.1	6552.5	3698.5	3303.9	3375.5	3527.7	3470.1	3435.5	3417.0
10410.2	37.5°	10576.3	9690.4	5888.0	3373.2	3089.4	3257.8	3320.1	3140.1	3004.0	2937.1
11372.3	40°	11326.2	10133.3	5248.9	3121.7	2953.3	3156.3	3047.8	2831.0	2657.9	2563.3
12454.4	42.5°	12159.1	10597.1	4711.4	2932.5	2877.1	3073.2	2847.1	2588.7	2309.5	2279.5
13744.2	45°	13033.5	11074.7	4344.5	2787.1	2840.2	3001.7	2731.8	2314.1	2115.7	2238.0
15038.5	47.5°	13908.0	11513.1	4123.0	2678.7	2821.7	2920.9	2630.2	2161.9	2021.1	2198.8
16425.1	50°	14881.6	11905.3	4023.8	2600.2	2801.0	2888.6	2478.0	2122.6	1921.9	2039.6
17860.2	52.5°	15848.3	12209.8	3950.0	2521.8	2771.0	2863.3	2404.1	2076.5	1801.9	1808.9
19304.6	55°	16812.8	12408.3	3869.2	2418.0	2704.1	2807.9	2397.2	2025.7	1712.0	1679.7
20832.0	57.5°	17841.8	12521.3	3770.0	2302.6	2588.7	2667.2	2390.3	1986.5	1684.3	1631.2
22393.9	60°	18889.3	12687.4	3640.8	2161.9	2434.1	2498.7	2374.1	1972.7	1668.1	1578.1
23866.0	62.5°	19828.3	12745.1	3486.2	2028.1	2235.7	2332.6	2339.5	1961.1	1624.3	1469.7
25088.8	65°	20444.3	12495.9	3216.3	1875.8	2021.1	2161.9	2272.6	1921.9	1545.8	1391.3
25693.3	67.5°	20419.0	11785.3	2794.1	1679.7	1813.5	1972.7	2175.7	1855.0	1451.2	1294.4
25236.4	70°	19468.4	10382.5	2258.8	1451.2	1585.1	1769.6	2051.1	1755.8	1338.2	1188.2
22440.1	72.5°	16697.4	8126.1	1640.4	1183.6	1319.7	1559.7	1889.6	1635.8	1222.8	1093.6
16584.3	75°	11928.4	5142.8	1112.1	909.0	1026.7	1322.0	1688.9	1495.1	1116.7	1098.2
8306.0	77.5°	6093.4	2457.2	736.0	664.5	715.2	1042.9	1418.9	1335.9	1132.8	906.7
2362.6	80°	1981.9	906.7	463.8	452.2	475.3	694.5	1098.2	1095.9	858.3	616.0
572.2	82.5°	632.2	389.9	302.2	290.7	279.2	436.1	766.0	867.5	579.1	389.9
205.3	85°	251.5	233.0	177.7	163.8	117.7	205.3	401.5	576.8	431.5	281.5
53.1	87.5°	92.3	92.3	48.5	34.6	25.4	69.2	108.4	173.0	246.9	145.4
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>
6284.9
6771.7
7004.7
6958.6
6607.9
6038.0
5463.5
5034.4
4782.9
4683.7
4626.0
4568.3
4381.4
3954.6
3435.5
2953.3
2570.3
2309.5
2302.6
2281.8
2127.3
1857.3
1702.7
1638.1
1585.1
1469.7
1391.3
1301.3
<i>1202.1</i>
1086.7
1035.9
807.5
544.5
387.6
288.4
143.0
0.0

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