

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: P954466

Luminaire Tested: **GALN-SB7C-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954466
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-SB7C-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38036 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

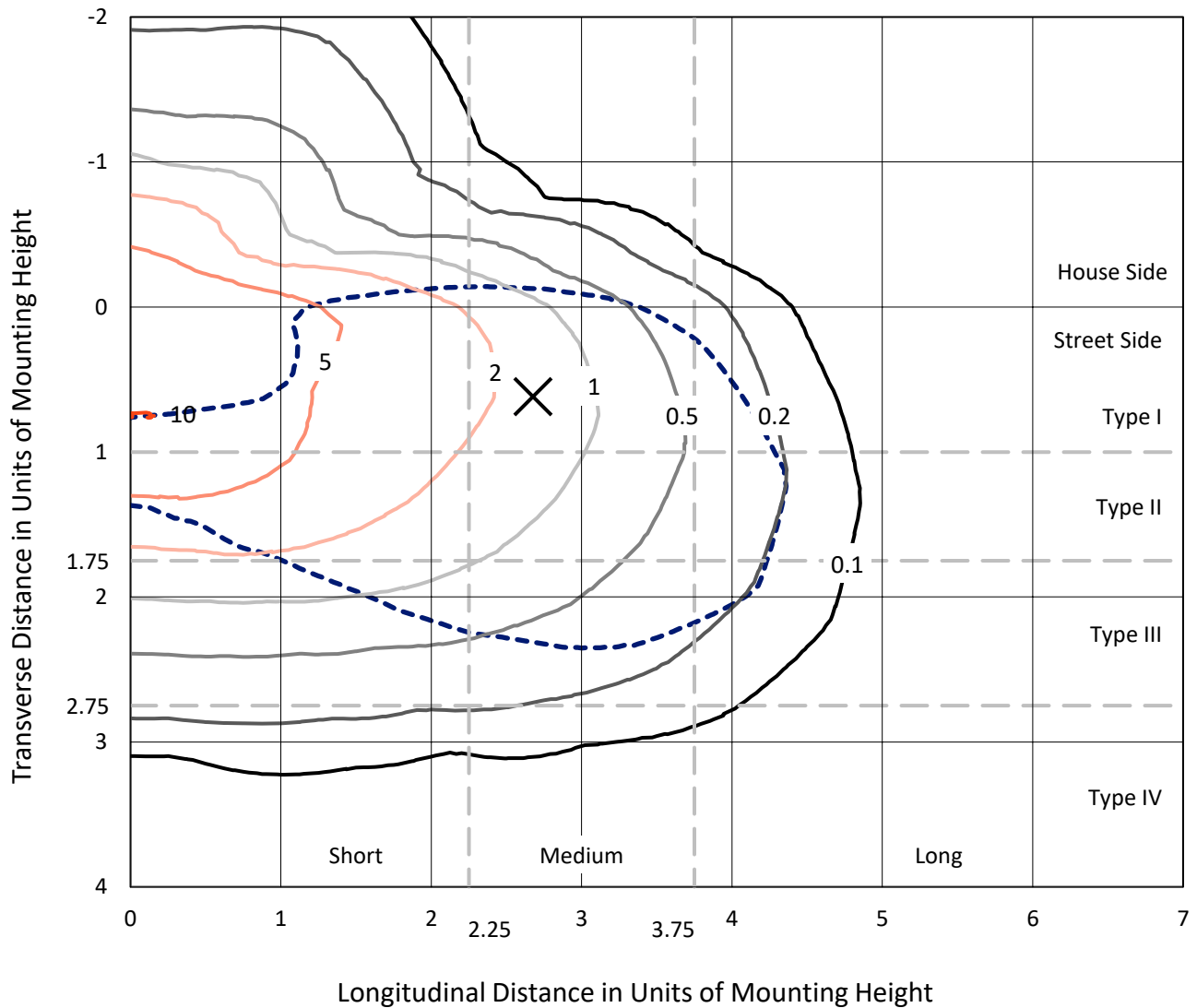
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

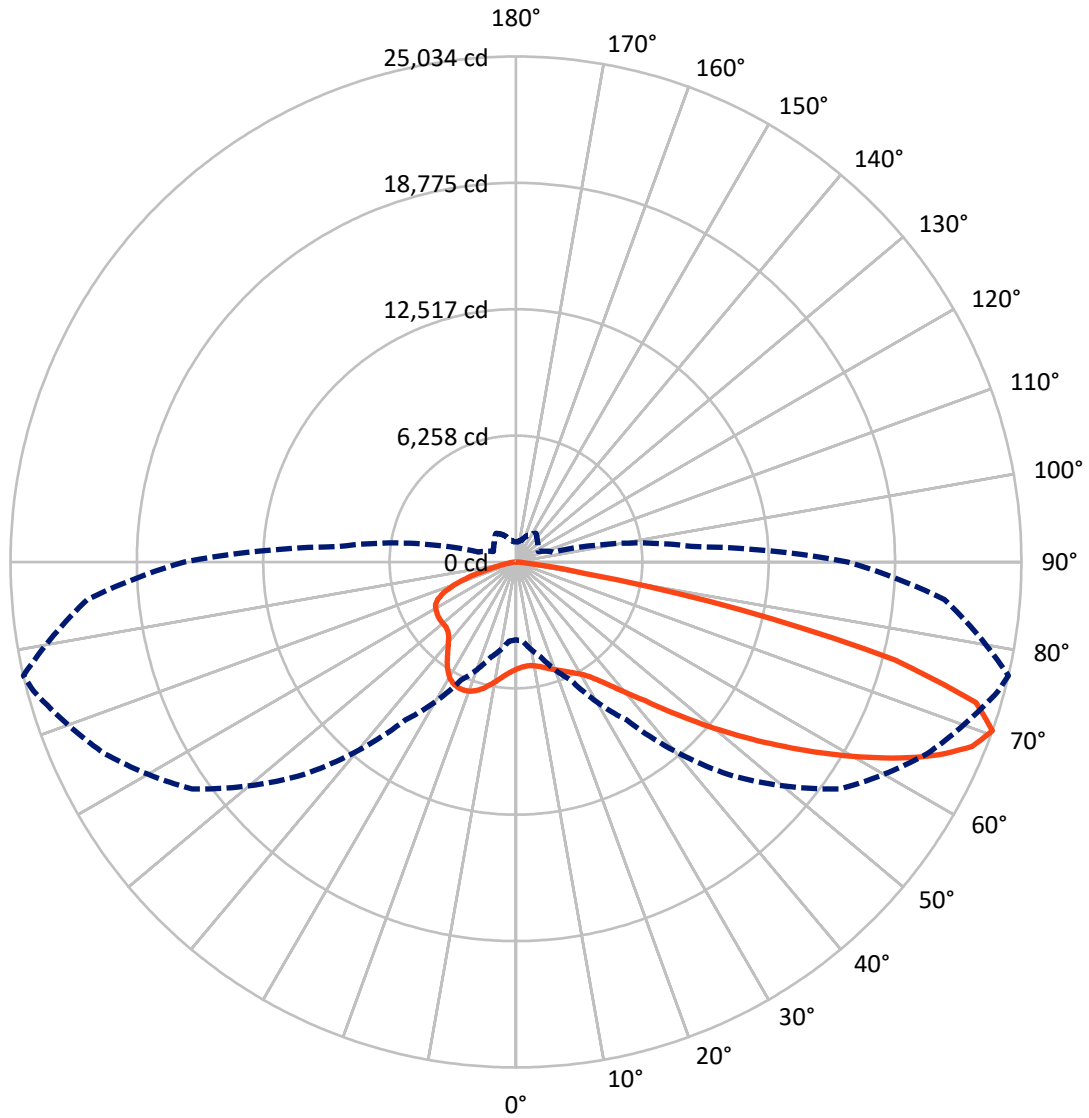
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type 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	8329.3	0.0	8329.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	29706.7	0.0	29706.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	38036.0	0.0	38036.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.1	1.3
10°-20°	1460.6	3.8
20°-30°	2497.8	6.6
30°-40°	4016.8	10.6
40°-50°	6271.3	16.5
50°-60°	8376.9	22.0
60°-70°	8928.5	23.5
70°-80°	5496.3	14.5
80°-90°	481.6	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°	38036.0	100.0
0°-180°	38036.0	100.0



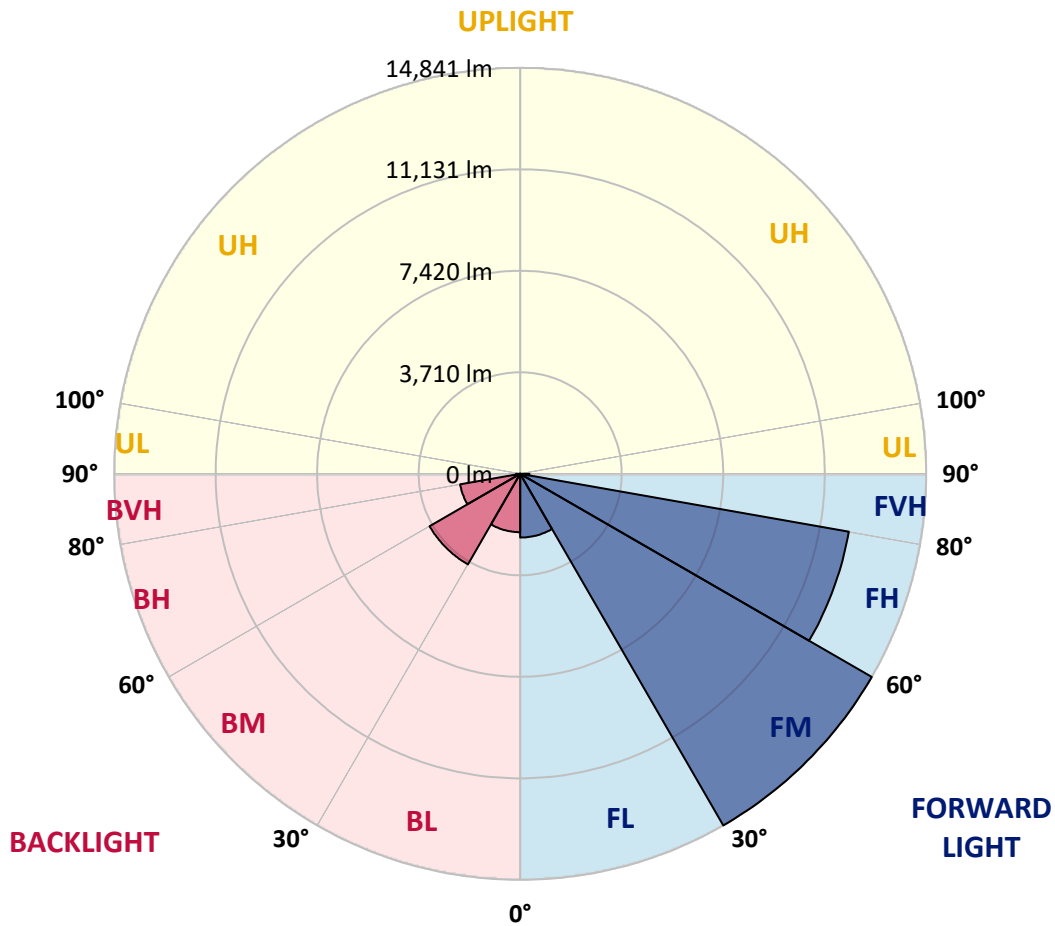
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.3	6.1			
FM (30°-60°)	14840.8	39.0			
FH (60°-80°)	12198.8	32.1			G5
FVH (80°-90°)	336.8	0.9			G3/500
BL (0°-30°)	2134.2	5.6	B3/2500		
BM (30°-60°)	3824.2	10.1	B3/5000		
BH (60°-80°)	2226.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	144.8	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4
2.5°	4891.4	4889.5	4914.8	4922.6	4969.4	5002.5	5064.8	5131.0	5216.8	5226.5
5°	4609.0	4609.0	4638.2	4669.4	4729.8	4796.0	4891.4	5006.4	5154.4	5177.8
7.5°	4369.4	4385.0	4410.3	4470.7	4540.8	4636.3	4782.4	4946.0	5140.8	5177.8
10°	4176.5	4194.1	4225.2	4273.9	4379.1	4511.6	4702.5	4912.9	5173.9	5232.3
12.5°	4116.1	4133.7	4151.2	4188.2	4285.6	4441.5	4669.4	4928.5	5253.8	5312.2
15°	4256.4	4277.8	4264.2	4254.4	4305.1	4447.3	4685.0	4984.9	5353.1	5436.9
17.5°	4579.8	4587.6	4556.4	4464.8	4457.0	4533.0	4759.0	5062.9	5477.8	5569.3
20°	5101.8	5088.2	5023.9	4842.7	4739.5	4723.9	4885.6	5179.7	5606.4	5703.8
22.5°	5810.9	5795.3	5666.8	5380.4	5150.5	4998.6	5068.7	5331.7	5750.5	5859.6
25°	6695.3	6673.9	6484.9	6095.3	5738.8	5362.9	5318.1	5532.3	5927.8	6029.1
27.5°	7727.7	7710.2	7505.7	6991.4	6477.1	5861.6	5627.8	5768.0	6112.8	6227.8
30°	8838.1	8888.8	8526.4	7973.2	7322.6	6512.2	6044.7	6058.3	6352.4	6455.7
32.5°	10143.3	10230.9	9794.6	9093.3	8205.0	7219.3	6570.6	6463.5	6701.1	6786.9
35°	11436.7	11536.1	11173.8	10398.5	9375.8	8053.1	7120.0	6929.1	7164.8	7258.3
37.5°	12554.9	12687.4	12500.4	11826.3	10628.3	9058.2	7836.8	7476.4	7735.5	7852.4
40°	13437.3	13639.9	13626.3	13205.5	12104.9	10277.7	8746.5	8152.4	8444.6	8571.2
42.5°	14154.2	14329.5	14481.5	14460.1	13645.8	11662.7	9816.0	9031.0	9253.0	9399.1
45°	14649.0	14836.0	15163.3	15515.9	15128.2	13145.1	11041.3	10073.1	10275.7	10495.9
47.5°	15091.2	15303.5	15728.2	16287.3	16386.6	14633.4	12383.5	11286.7	11471.8	11699.7
50°	15130.2	15313.3	15971.7	16764.5	17280.8	16063.3	13825.0	12648.4	12821.8	13065.3
52.5°	14189.3	14477.6	15626.9	16750.9	17691.8	17259.3	15256.8	14064.6	14259.4	14551.6
55°	11014.0	11436.7	14615.9	16228.8	17545.7	18032.7	16618.4	15570.4	15819.8	16125.6
57.5°	9486.8	9671.9	11602.3	15278.2	16879.5	18233.3	17767.8	17091.8	17493.1	17828.2
60°	8526.4	8680.3	9821.8	13799.7	16002.9	17915.8	18656.1	18510.0	19203.4	19602.8
62.5°	7497.9	7644.0	8682.3	11522.5	14880.8	17387.9	19217.1	19819.0	20956.7	21393.0
65°	6477.1	6601.8	7597.2	9681.6	13454.9	16860.0	19507.3	20950.8	22579.3	23031.3
67.5°	5339.5	5442.7	6383.6	8168.0	11721.2	16137.3	19651.5	21841.0	23991.6	24379.3
70°	3853.2	3933.0	4905.1	6459.6	9545.2	14894.5	19593.0	22472.2	24724.1	25033.8
72.5°	1821.4	1893.5	3035.0	4194.1	6742.0	12475.0	18410.6	21971.6	23980.0	23826.1
75°	972.1	1034.4	1743.5	2300.6	3561.0	8551.7	15065.9	18926.8	20136.5	19388.5
77.5°	658.4	707.1	1079.2	1381.1	1626.6	4059.6	9683.5	13104.2	12607.5	11372.5
80°	522.1	572.7	884.4	935.0	787.0	1466.8	4001.2	6066.1	4357.7	3485.0
82.5°	401.3	457.8	744.1	677.9	428.6	601.9	1164.9	1918.8	1116.2	849.3
85°	245.4	305.8	584.4	432.5	241.6	274.7	395.4	533.8	340.9	284.4
87.5°	124.7	175.3	296.1	157.8	109.1	64.3	105.2	105.2	89.6	77.9
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°
5306.4	0°	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4	5306.4
5279.1	2.5°	5325.8	5364.8	5431.0	5493.4	5542.1	5588.8	5635.6	5660.9	5668.7	5699.9
5308.3	5°	5388.2	5460.3	5588.8	5709.6	5785.6	5832.3	5865.4	5884.9	5888.8	5898.6
5388.2	7.5°	5503.1	5618.0	5797.3	5918.0	5974.5	5970.6	5957.0	5908.3	5888.8	5871.3
5505.1	10°	5664.8	5816.7	6036.9	6120.6	6085.6	5992.1	5871.3	5729.1	5662.9	5598.6
5664.8	12.5°	5865.4	6058.3	6274.5	6270.6	6097.3	5857.7	5577.1	5359.0	5220.7	5121.3
5861.6	15°	6108.9	6331.0	6496.6	6364.1	5984.3	5553.8	5142.7	4858.3	4733.7	4624.6
6060.2	17.5°	6360.2	6597.9	6673.9	6334.9	5699.9	5103.8	4638.2	4414.2	4291.5	4233.0
6274.5	20°	6605.7	6841.4	6779.1	6167.4	5267.4	4593.4	4178.5	4055.7	4030.4	4044.1
6483.0	22.5°	6864.8	7075.2	6800.5	5844.0	4716.1	4071.3	3843.4	3847.3	3903.8	3944.7
6701.1	25°	7129.7	7271.9	6744.0	5376.5	4123.9	3687.6	3631.1	3693.4	3804.5	3884.3
6946.6	27.5°	7384.9	7447.2	6621.3	4797.9	3615.5	3412.9	3422.6	3551.2	3718.7	3829.8
7244.6	30°	7673.2	7603.1	6385.6	4147.3	3262.9	3177.2	3259.0	3409.0	3576.5	3675.9
7620.6	32.5°	7998.5	7737.5	6011.5	3545.4	3013.6	2988.2	3122.7	3220.1	3294.1	3323.3
8119.3	35°	8403.7	7926.4	5532.3	3122.7	2789.5	2849.9	2978.5	2929.8	2900.6	2885.0
8789.4	37.5°	8929.7	8181.6	4971.3	2848.0	2608.4	2750.6	2803.2	2651.2	2536.3	2479.8
9601.7	40°	9562.8	8555.6	4431.7	2635.7	2493.4	2664.9	2573.3	2390.2	2244.1	2164.2
10515.3	42.5°	10266.0	8947.2	3977.8	2475.9	2429.2	2594.7	2403.8	2185.7	1950.0	1924.6
11604.3	45°	11004.3	9350.4	3668.1	2353.2	2398.0	2534.4	2306.4	1953.9	1786.3	1889.6
12697.1	47.5°	11742.6	9720.6	3481.1	2261.6	2382.4	2466.2	2220.7	1825.3	1706.5	1856.4
13867.9	50°	12564.6	10051.7	3397.3	2195.4	2364.9	2438.9	2092.2	1792.2	1622.7	1722.0
15079.5	52.5°	13380.9	10308.8	3335.0	2129.2	2339.6	2417.5	2029.8	1753.2	1521.4	1527.2
16299.0	55°	14195.1	10476.4	3266.8	2041.5	2283.1	2370.7	2024.0	1710.3	1445.4	1418.1
17588.5	57.5°	15063.9	10571.8	3183.0	1944.1	2185.7	2251.9	2018.1	1677.2	1422.0	1377.2
18907.3	60°	15948.3	10712.1	3074.0	1825.3	2055.1	2109.7	2004.5	1665.5	1408.4	1332.4
20150.2	62.5°	16741.2	10760.8	2943.4	1712.3	1887.6	1969.4	1975.3	1655.8	1371.4	1240.9
21182.6	65°	17261.3	10550.4	2715.5	1583.7	1706.5	1825.3	1918.8	1622.7	1305.2	1174.6
21693.0	67.5°	17239.9	9950.4	2359.0	1418.1	1531.1	1665.5	1837.0	1566.2	1225.3	1092.8
21307.3	70°	16437.3	8766.0	1907.1	1225.3	1338.3	1494.1	1731.8	1482.4	1129.8	1003.2
18946.3	72.5°	14097.7	6860.9	1385.0	999.3	1114.3	1316.9	1595.4	1381.1	1032.4	923.4
14002.3	75°	10071.2	4342.1	938.9	767.5	866.9	1116.2	1425.9	1262.3	942.8	927.3
7012.8	77.5°	5144.7	2074.6	621.4	561.0	603.9	880.5	1198.0	1127.9	956.5	765.6
1994.8	80°	1673.3	765.6	391.5	381.8	401.3	586.3	927.3	925.3	724.7	520.1
483.1	82.5°	533.8	329.2	255.2	245.4	235.7	368.2	646.7	732.5	488.9	329.2
173.4	85°	212.3	196.7	150.0	138.3	99.3	173.4	339.0	487.0	364.3	237.7
44.8	87.5°	77.9	77.9	40.9	29.2	21.4	58.4	91.6	146.1	208.4	122.7
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>
5306.4
5717.4
5914.1
5875.2
5579.1
5097.9
4612.9
4250.5
4038.2
3954.5
3905.8
3857.1
3699.3
3338.9
2900.6
2493.4
2170.1
1950.0
1944.1
1926.6
1796.1
1568.1
1437.6
1383.1
1338.3
1240.9
1174.6
1098.7
<i>1014.9</i>
917.5
874.7
681.8
459.7
327.3
243.5
120.8
0.0

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