

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: P942777

Luminaire Tested: **GALN-SB6D-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44746 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

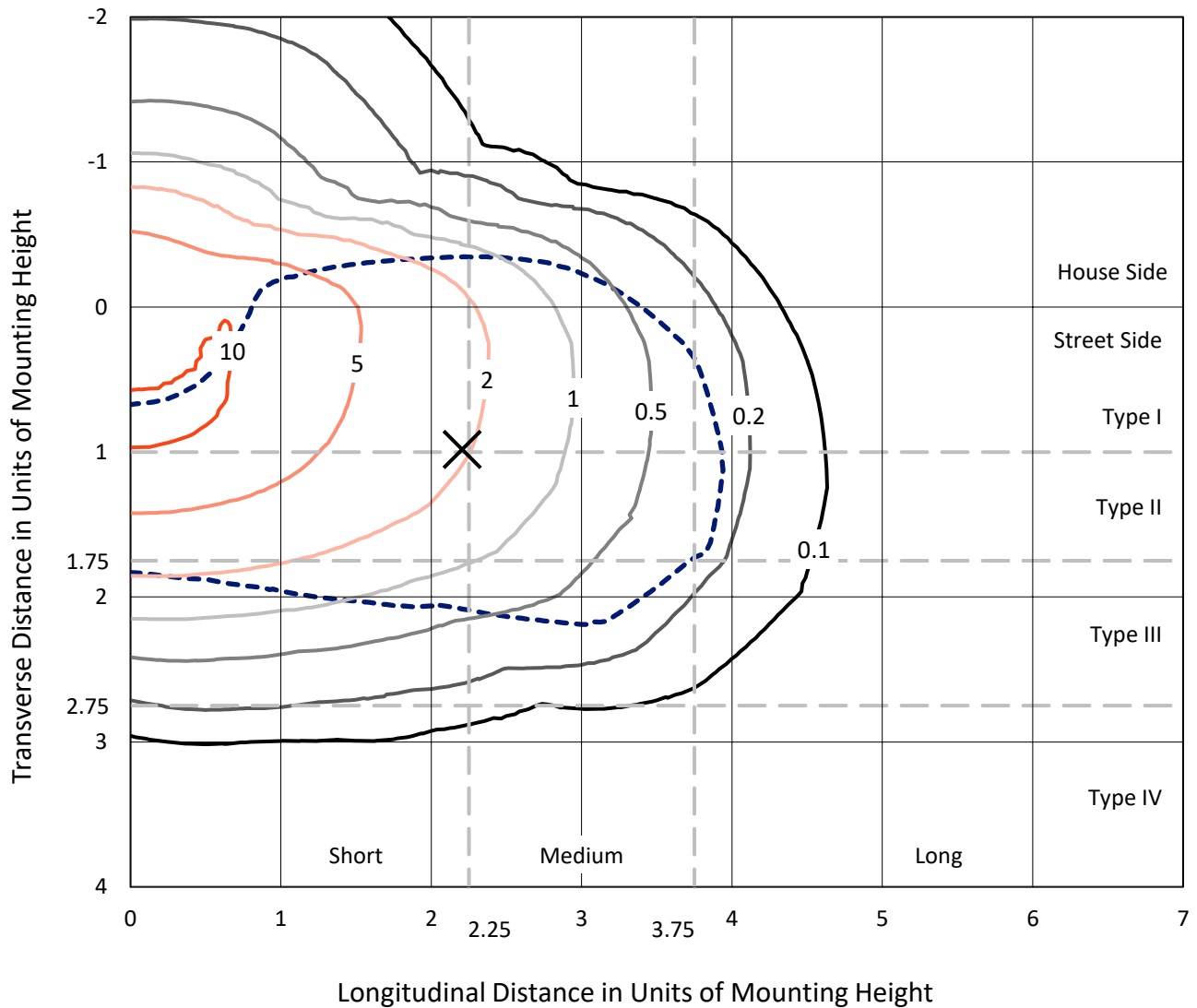
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

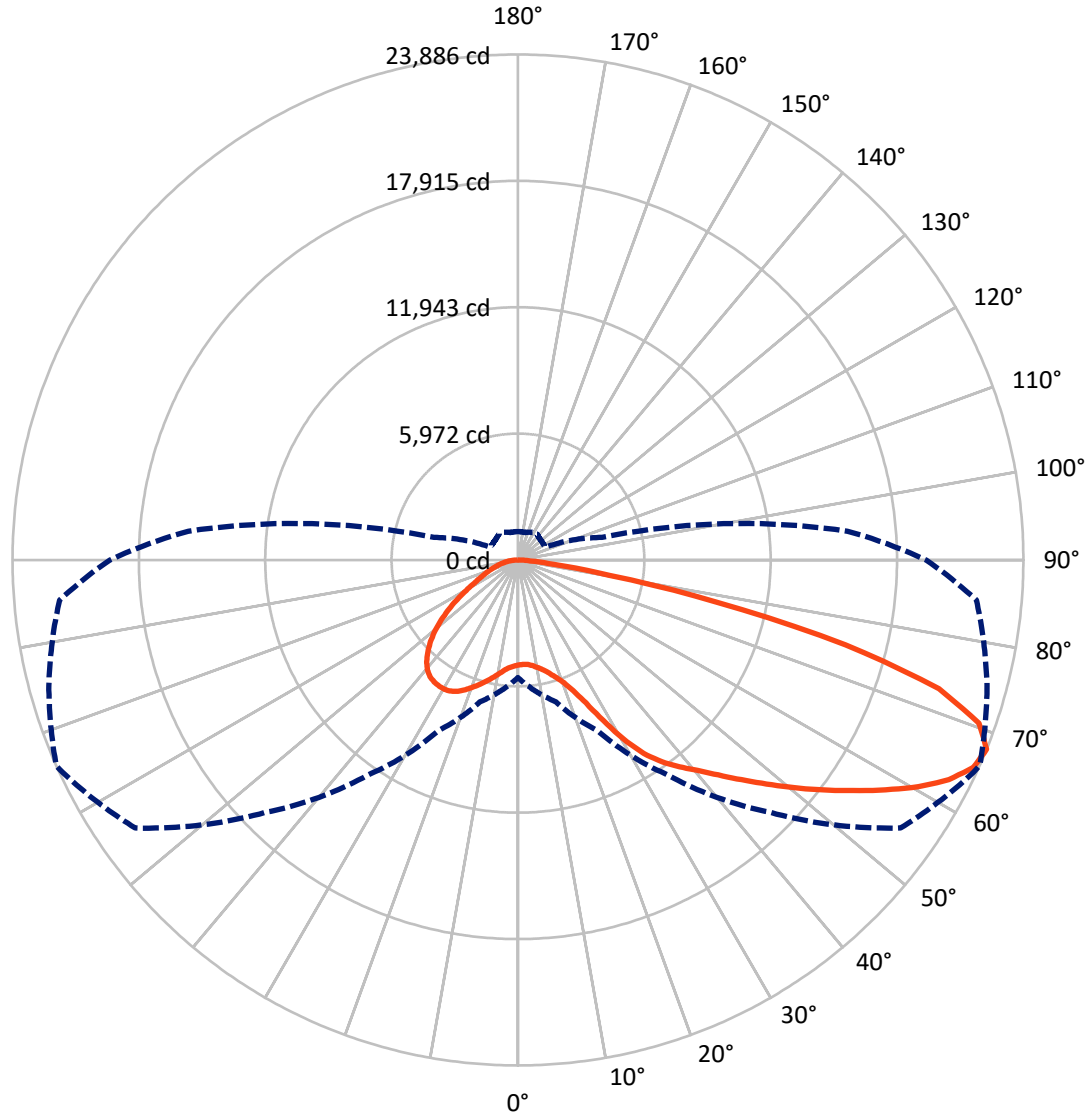
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11126.0	0.0	11126.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	33620.0	0.0	33620.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	44746.0	0.0	44746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.1	1.1
10°-20°	1625.7	3.6
20°-30°	3133.4	7.0
30°-40°	5494.0	12.3
40°-50°	8167.8	18.3
50°-60°	10353.5	23.1
60°-70°	10130.6	22.6
70°-80°	4832.4	10.8
80°-90°	516.5	1.2
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°	44746.0	100.0
0°-180°	44746.0	100.0

Coefficient of Utilization



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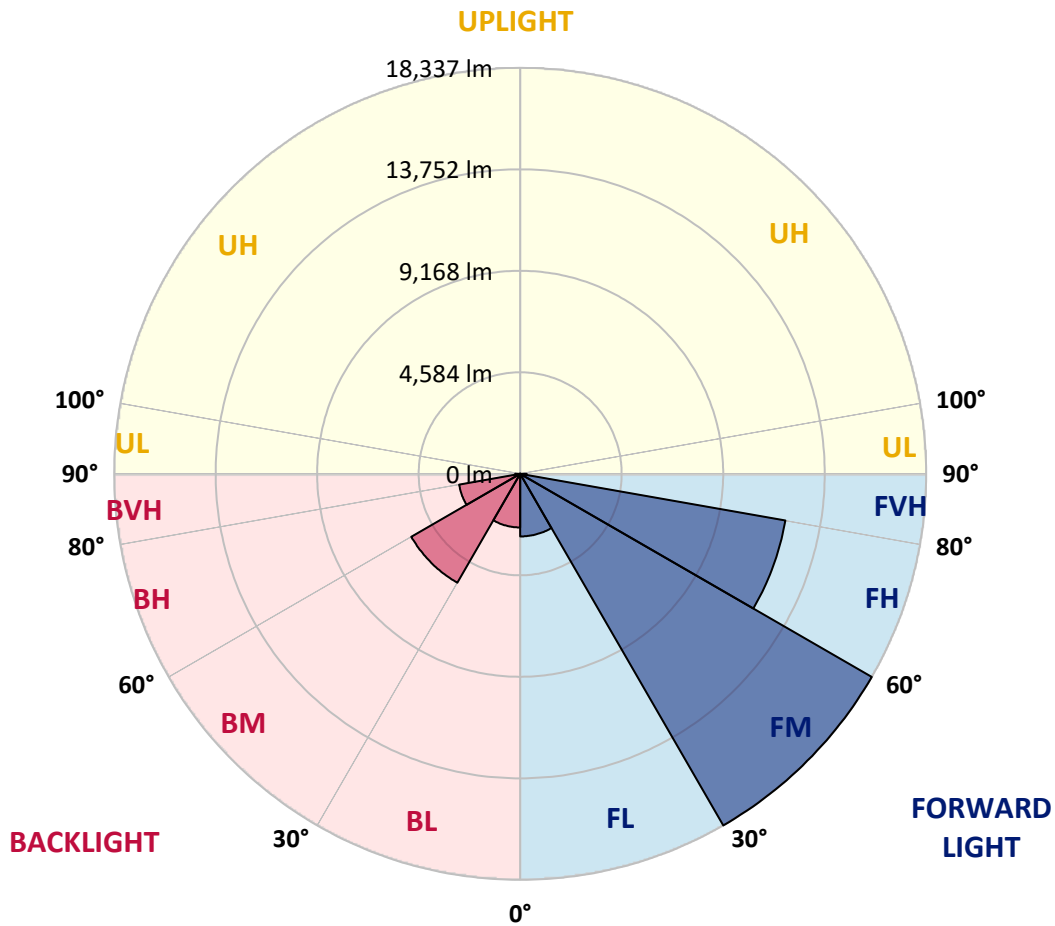
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.5	6.3			
FM (30°-60°)	18336.5	41.0			
FH (60°-80°)	12163.2	27.2			G5
FVH (80°-90°)	292.8	0.7			G3/500
BL (0°-30°)	2423.6	5.4	B3/2500		
BM (30°-60°)	5678.8	12.7	B4/8500		
BH (60°-80°)	2799.9	6.3	B4/5000		G4/5000
BVH (80°-90°)	223.6	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9
2.5°	4911.2	4939.4	4932.4	4920.6	4918.3	4923.0	4930.0	4937.1	4934.7	4946.5
5°	4897.1	4925.3	4923.0	4923.0	4932.4	4951.2	4962.9	4974.7	4962.9	4977.0
7.5°	4906.5	4927.7	4937.1	4946.5	4970.0	5005.2	5033.5	5059.3	5045.2	5061.7
10°	5026.4	5042.9	5052.3	5052.3	5068.7	5108.7	5136.9	5183.9	5172.2	5198.0
12.5°	5245.0	5261.5	5261.5	5252.1	5263.8	5289.7	5299.1	5350.8	5329.7	5372.0
15°	5513.1	5546.0	5520.1	5503.6	5508.4	5534.2	5531.9	5571.8	5550.7	5585.9
17.5°	5809.3	5851.6	5809.3	5806.9	5797.5	5825.7	5828.1	5863.3	5825.7	5851.6
20°	6159.6	6218.3	6183.1	6194.8	6173.7	6185.4	6197.2	6248.9	6190.1	6208.9
22.5°	6653.3	6723.8	6686.2	6730.9	6716.8	6707.4	6705.0	6796.7	6705.0	6712.1
25°	7372.7	7457.3	7391.5	7452.6	7452.6	7483.2	7518.4	7636.0	7483.2	7438.5
27.5°	8435.3	8520.0	8390.7	8428.3	8416.5	8491.7	8454.1	8745.7	8581.1	8508.2
30°	9714.3	9864.7	9620.2	9610.8	9599.1	9719.0	9773.0	9965.8	9798.9	9726.0
32.5°	11096.6	11254.2	10962.6	10878.0	10833.3	10906.2	10861.5	11016.7	10901.5	10788.7
35°	12558.9	12714.1	12436.7	12272.1	12093.5	11940.6	11780.8	11820.7	11712.6	11541.0
37.5°	13941.3	14225.8	13931.9	13755.6	13426.5	13127.9	12681.2	12495.5	12394.4	12236.9
40°	15349.6	15511.8	15288.4	15138.0	14780.6	14312.8	13598.1	13205.5	13069.1	12916.3
42.5°	16386.3	16541.5	16421.6	16318.2	16038.4	15495.3	14571.4	14080.0	13882.5	13710.9
45°	17209.2	17324.4	17249.2	17286.8	17166.9	16640.2	15580.0	15018.1	14813.5	14604.3
47.5°	17540.7	17662.9	17782.8	18006.2	18210.7	17822.8	16663.8	16033.7	15817.4	15603.5
50°	17503.1	17627.7	17975.6	18450.5	19085.3	18956.0	17806.3	17115.1	16915.3	16670.8
52.5°	17202.1	17343.2	17789.9	18579.8	19590.7	19804.7	18970.1	18231.9	18043.8	17752.3
55°	16412.2	16496.8	17166.9	18285.9	19710.6	20397.1	20110.3	19421.5	19233.4	18826.7
57.5°	14947.5	15069.8	16045.5	17493.7	19409.7	20799.1	21111.8	20672.2	20491.2	19905.8
60°	13036.2	13231.3	14348.0	16163.0	18643.3	20796.8	22021.6	21901.7	21751.3	20968.4
62.5°	10873.3	11099.0	12173.4	14282.2	17303.2	20206.7	22590.6	22931.5	22853.9	21948.8
65°	8350.7	8505.9	9575.5	11848.9	15217.9	18939.5	22656.4	23634.4	23648.5	22694.0
67.5°	5560.1	6006.8	6935.4	8891.4	12424.9	16868.3	22078.1	23749.6	23886.0	22950.3
70°	2713.0	3300.8	4210.6	5778.7	8891.4	13692.1	20566.4	22804.5	23107.8	22202.7
72.5°	1126.1	1316.5	1812.6	2851.7	5104.0	9239.4	17528.9	20242.0	20803.8	19673.0
75°	759.4	822.8	1036.8	1462.3	2325.1	4556.2	12641.2	15093.3	15998.4	14858.2
77.5°	585.4	625.4	754.7	1022.7	1382.4	1723.3	6766.1	9095.9	9563.8	8853.8
80°	460.8	491.4	564.2	745.3	980.4	921.6	2306.3	4121.3	4391.6	3684.0
82.5°	399.7	411.4	404.4	505.5	651.2	538.4	757.0	1521.1	1678.6	1217.8
85°	289.2	322.1	336.2	312.7	345.6	272.7	310.3	538.4	592.4	529.0
87.5°	117.5	174.0	213.9	202.2	127.0	77.6	96.4	157.5	181.0	197.5
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°
4962.9	0°	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9	4962.9
4965.3	2.5°	4967.6	4984.1	4995.8	5009.9	5019.3	5033.5	5061.7	5078.1	5080.5	5092.2
5002.9	5°	5012.3	5035.8	5061.7	5099.3	5141.6	5176.9	5230.9	5268.6	5282.7	5294.4
5094.6	7.5°	5108.7	5141.6	5188.6	5254.4	5315.6	5362.6	5428.4	5473.1	5517.8	5534.2
5240.3	10°	5252.1	5299.1	5367.3	5456.6	5522.5	5583.6	5651.8	5689.4	5734.0	5752.9
5414.3	12.5°	5430.8	5480.1	5569.5	5694.1	5755.2	5797.5	5821.0	5811.6	5821.0	5837.5
5623.5	15°	5635.3	5689.4	5790.5	5924.5	5966.8	5929.2	5877.5	5830.4	5823.4	5828.1
5877.5	17.5°	5877.5	5917.4	6035.0	6147.8	6117.3	5962.1	5849.2	5774.0	5736.4	5724.6
6201.9	20°	6216.0	6216.0	6312.4	6382.9	6178.4	5915.1	5738.7	5616.5	5538.9	5506.0
6643.9	22.5°	6627.4	6589.8	6650.9	6601.6	6166.6	5783.4	5538.9	5327.3	5209.8	5162.8
7262.2	25°	7149.3	7104.7	7088.2	6782.6	6082.0	5574.2	5176.9	4920.6	4817.2	4791.3
8153.2	27.5°	7936.9	7824.1	7610.1	6881.3	5926.8	5245.0	4753.7	4516.2	4457.5	4459.8
9298.1	30°	8985.5	8759.8	8235.5	6897.8	5672.9	4779.5	4321.1	4151.8	4123.6	4135.4
10259.7	32.5°	9956.4	9742.5	8875.0	6822.5	5282.7	4323.5	3933.2	3820.3	3778.0	3792.1
10993.2	35°	10718.1	10659.4	9467.4	6716.8	4803.1	3895.6	3585.2	3488.9	3406.6	3387.8
11684.4	37.5°	11437.5	11414.0	9911.7	6568.6	4328.2	3592.3	3305.5	3178.5	3058.6	2992.8
12448.4	40°	12227.5	12203.9	10203.3	6340.6	3907.3	3329.0	3053.9	2887.0	2738.9	2619.0
13313.6	42.5°	13116.1	12977.4	10342.0	6013.8	3550.0	3105.6	2849.4	2623.7	2428.6	2318.1
14291.6	45°	14087.1	13774.4	10339.6	5597.7	3249.1	2901.1	2630.7	2311.0	2130.0	2026.5
15295.5	47.5°	15116.8	14536.1	10212.7	5136.9	2957.5	2675.4	2292.2	2047.7	1927.8	1864.3
16386.3	50°	16179.5	15248.5	9996.4	4607.9	2659.0	2419.2	2080.6	1913.7	1822.0	1763.2
17467.8	52.5°	17178.6	15895.0	9735.4	4008.4	2355.7	2170.0	1986.6	1857.3	1760.9	1695.1
18516.3	55°	18107.3	16452.2	9366.3	3394.8	2108.8	2003.0	1941.9	1833.8	1723.3	1645.7
19581.3	57.5°	18932.5	16814.2	8729.2	2818.8	1932.5	1887.8	1894.9	1793.8	1666.8	1601.0
20629.9	60°	19618.9	17079.9	7786.5	2285.2	1789.1	1775.0	1822.0	1718.6	1570.5	1495.2
21516.2	62.5°	20030.4	17075.2	6629.8	1871.4	1666.8	1671.5	1725.6	1624.5	1474.1	1403.5
21979.3	65°	19995.1	16656.7	5360.2	1601.0	1549.3	1554.0	1624.5	1521.1	1394.1	1351.8
21746.6	67.5°	19287.5	15636.4	4111.9	1424.7	1420.0	1441.2	1523.4	1450.6	1344.8	1340.1
20359.5	70°	17371.4	13518.1	2962.2	1283.6	1286.0	1316.5	1424.7	1405.9	1318.9	1328.3
17117.5	72.5°	13929.6	10306.7	1988.9	1135.5	1137.9	1187.2	1330.7	1370.6	1293.0	1417.6
12145.2	75°	9277.0	6427.6	1278.9	978.0	980.4	1043.8	1248.4	1302.4	1222.5	1412.9
6319.4	77.5°	4457.5	2889.4	926.3	822.8	822.8	881.6	1079.1	1166.1	1041.5	1097.9
2031.2	80°	1539.9	1086.2	728.8	663.0	648.9	688.8	909.8	1010.9	898.1	827.5
663.0	82.5°	606.6	564.2	585.4	514.9	467.8	493.7	707.6	834.6	660.6	597.1
373.8	85°	347.9	366.8	413.8	340.9	270.4	303.3	519.6	599.5	498.4	439.6
122.3	87.5°	94.0	129.3	190.4	176.3	122.3	129.3	246.9	331.5	286.8	221.0
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>
4962.9
5089.9
5292.1
5536.6
5762.3
5842.2
5844.5
5741.1
5498.9
5155.7
4796.0
4466.9
4175.3
3810.9
3401.9
2995.2
2630.7
2325.1
2021.8
1850.2
1742.1
1666.8
1615.1
1558.7
1462.3
1382.4
1349.5
1347.1
1326.0
1436.4
1424.7
1006.2
775.8
594.8
449.0
228.0
0.0

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