

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: P953939

Luminaire Tested: **GALN-SB7B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36466 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

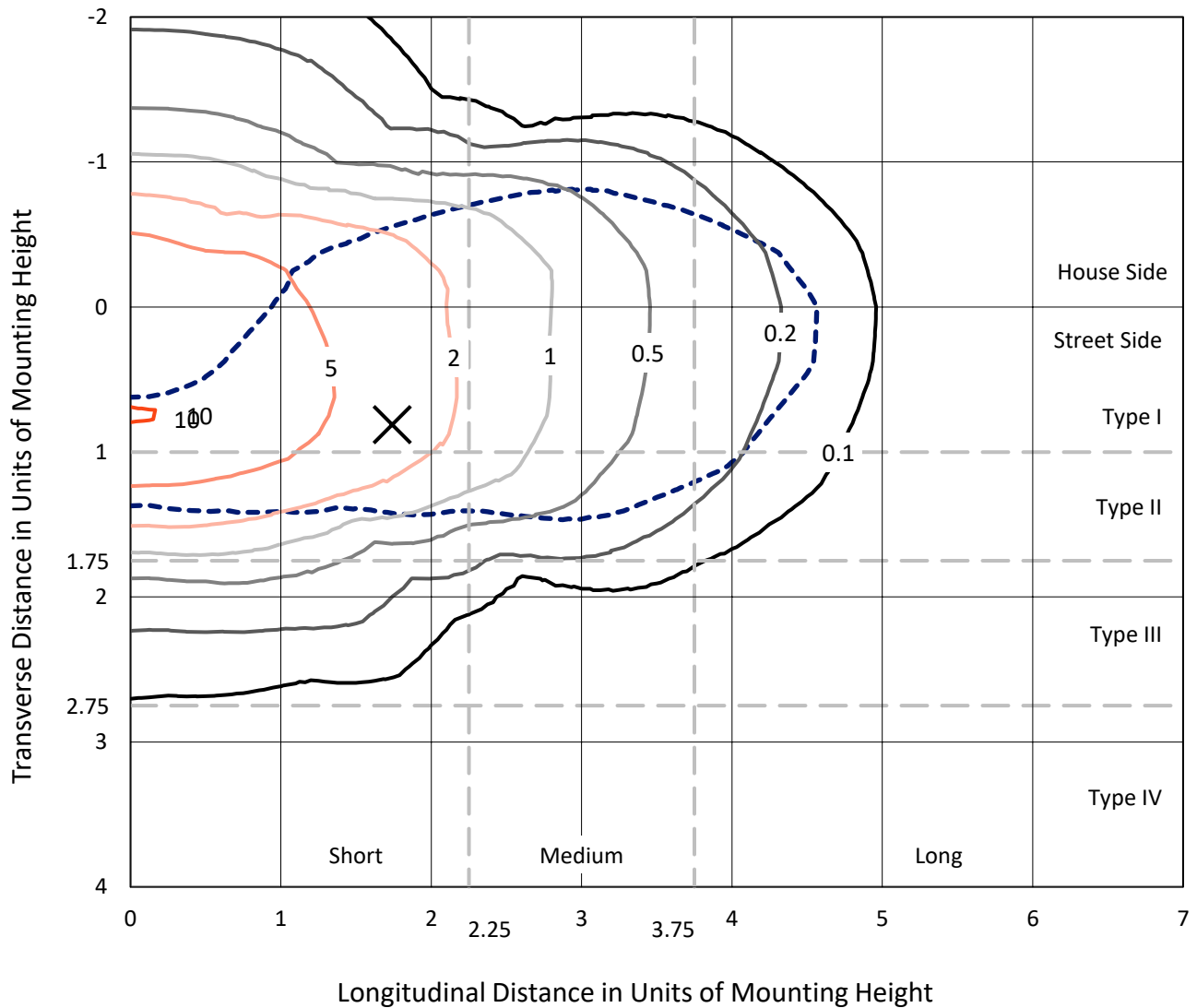
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

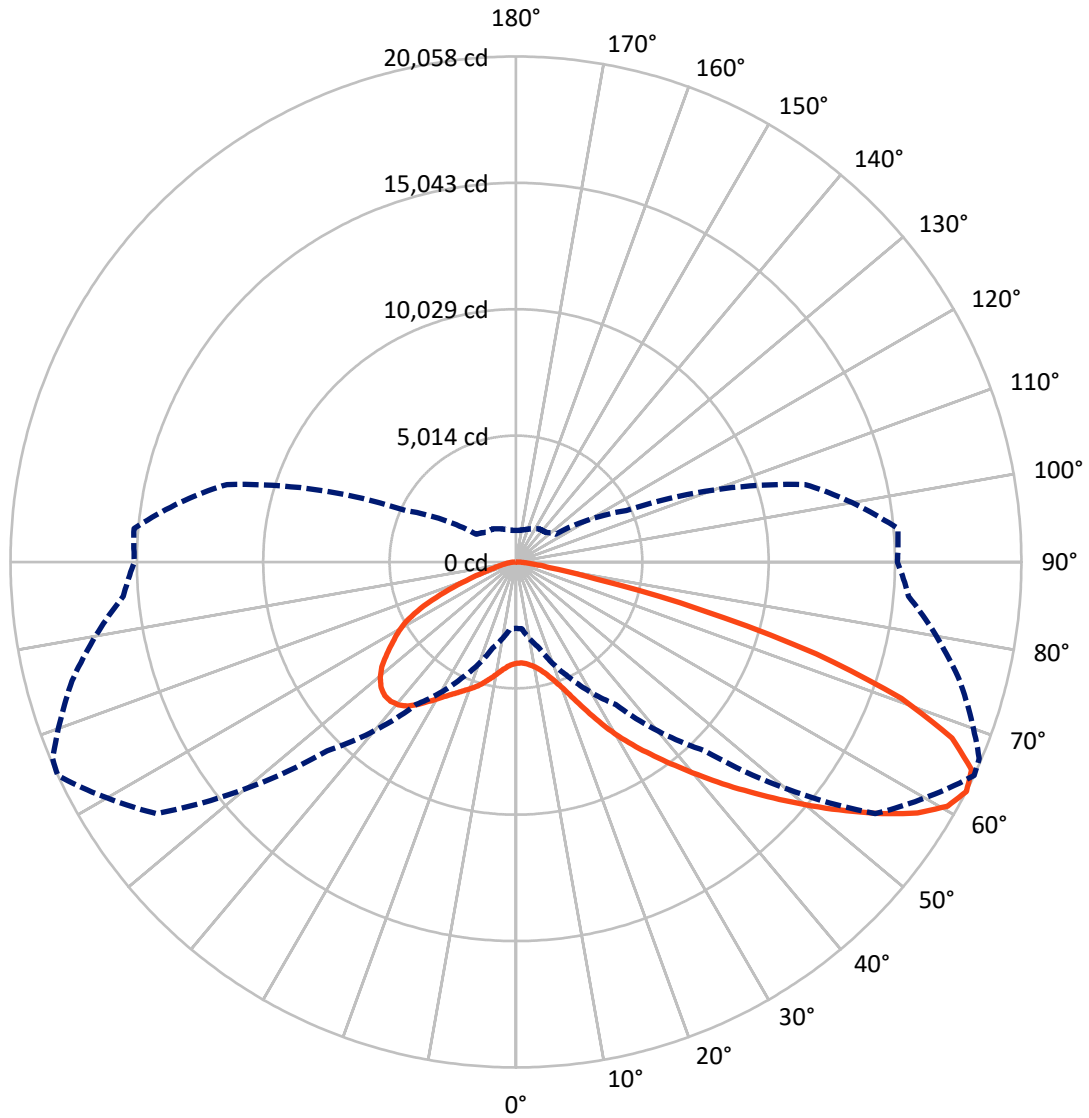
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11507.1	0.0	11507.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24958.9	0.0	24958.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	36466.0	0.0	36466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	1.1
10°-20°	1358.6	3.7
20°-30°	2754.7	7.6
30°-40°	4766.9	13.1
40°-50°	7213.7	19.8
50°-60°	8457.7	23.2
60°-70°	7090.7	19.4
70°-80°	3914.7	10.7
80°-90°	508.5	1.4
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°	36466.0	100.0
0°-180°	36466.0	100.0

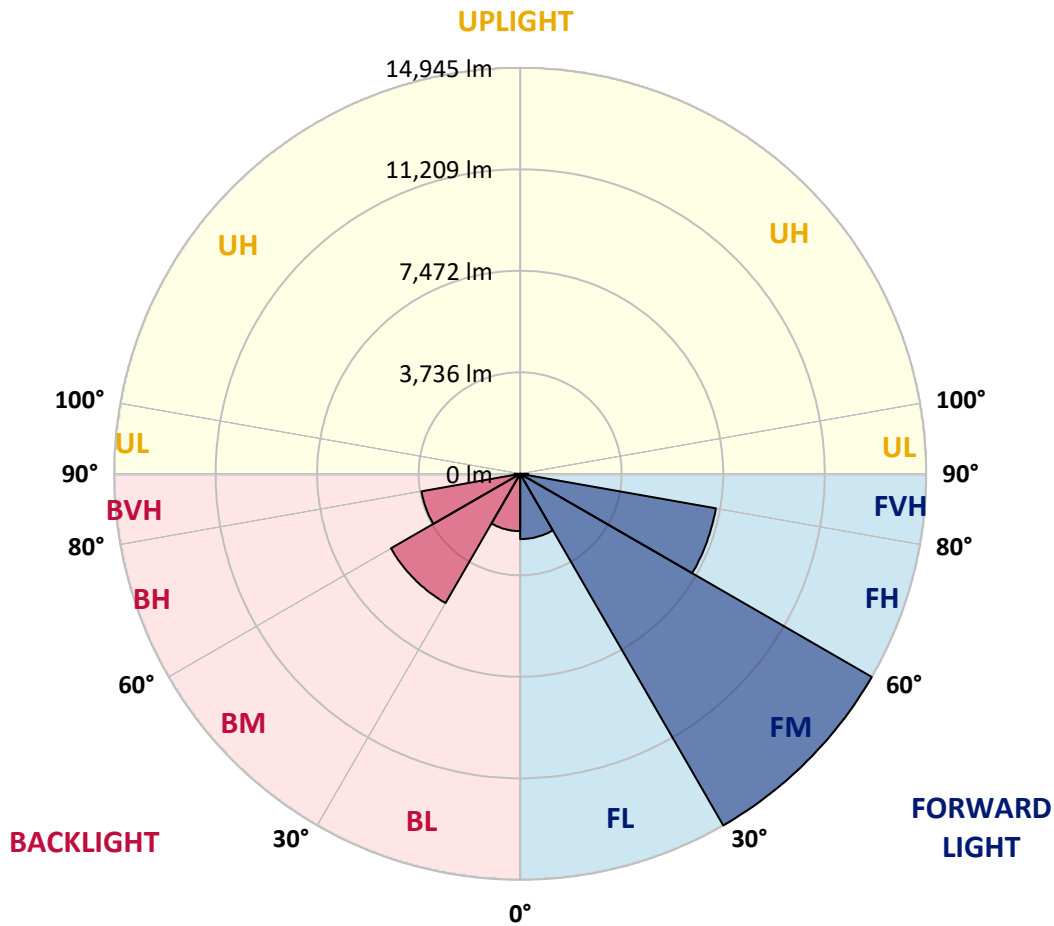


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2403.6	6.6			
FM (30°-60°)	14945.0	41.0			
FH (60°-80°)	7314.0	20.1			G3/7500
FVH (80°-90°)	296.4	0.8			G3/500
BL (0°-30°)	2110.3	5.8	B3/2500		
BM (30°-60°)	5493.3	15.1	B4/8500		
BH (60°-80°)	3691.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	212.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4
2.5°	3991.9	3980.6	3990.0	3990.0	3993.8	3991.9	4005.2	4008.9	4014.6	4026.0
5°	3952.2	3950.3	3967.3	3982.4	3997.6	4010.8	4027.9	4052.4	4056.2	4069.5
7.5°	3938.9	3927.6	3954.1	3973.0	4008.9	4041.1	4086.5	4128.1	4145.2	4150.8
10°	4041.1	4022.2	4046.8	4058.1	4088.4	4120.6	4173.5	4239.7	4258.7	4281.4
12.5°	4215.2	4194.3	4230.3	4247.3	4275.7	4304.1	4340.0	4404.3	4413.8	4455.4
15°	4453.5	4428.9	4451.6	4472.5	4519.7	4546.2	4582.2	4644.6	4644.6	4676.8
17.5°	4777.0	4744.9	4761.9	4769.5	4799.7	4839.5	4900.0	4954.9	4983.3	4971.9
20°	5259.5	5219.8	5219.8	5181.9	5170.6	5202.7	5282.2	5357.9	5388.1	5329.5
22.5°	5984.1	5927.3	5895.2	5766.5	5715.4	5719.2	5798.7	5891.4	5916.0	5811.9
25°	6905.4	6816.5	6773.0	6583.8	6468.4	6368.1	6430.6	6549.8	6583.8	6455.2
27.5°	7826.8	7832.5	7790.8	7563.8	7372.7	7189.2	7157.1	7281.9	7317.9	7172.2
30°	9119.0	8984.6	8905.2	8632.7	8360.3	8103.0	7970.6	8021.7	8031.1	7857.1
32.5°	10233.3	10199.2	10029.0	9790.6	9440.6	9037.6	8816.3	8734.9	8719.8	8471.9
35°	11502.8	11483.8	11304.1	11020.3	10641.9	10081.9	9682.7	9450.0	9431.1	9083.0
37.5°	12793.0	12793.0	12617.1	12306.8	11915.2	11215.2	10607.9	10239.0	10178.4	9724.4
40°	13822.2	13759.8	13791.9	13661.4	13213.0	12469.5	11635.2	11099.8	11018.4	10473.6
42.5°	14406.8	14386.0	14579.0	14724.7	14541.1	13947.1	12766.5	12032.5	11919.0	11298.4
45°	14537.4	14514.7	14859.0	15392.5	15649.8	15405.7	13996.3	13014.4	12876.3	12161.1
47.5°	14236.5	14191.1	14696.3	15538.2	16363.0	16792.5	15328.2	14079.5	13879.0	13001.1
50°	13332.2	13288.7	14053.0	15171.1	16603.3	17734.7	16773.6	15209.0	14902.5	13901.7
52.5°	11366.5	11387.3	12584.9	14121.1	16287.4	18321.2	18018.5	16399.0	16030.1	14823.0
55°	8854.1	8899.5	10371.4	12062.8	15023.6	18232.2	18867.9	17624.9	17257.9	15689.5
57.5°	6339.8	6540.3	7919.5	9593.8	12596.3	16822.8	19053.3	18790.3	18434.7	16635.5
60°	4109.2	4145.2	5564.1	7251.7	9591.9	14317.9	18676.8	19673.9	19395.8	17600.3
62.5°	2633.5	2658.1	3522.7	5072.2	6903.5	10592.7	17409.3	20057.9	19972.8	18237.9
65°	1935.4	1916.5	2366.8	3352.4	4650.3	6532.7	14947.9	19872.5	20040.9	18637.1
67.5°	1615.7	1589.2	1810.5	2321.4	3426.2	3710.0	11060.0	18667.4	19284.1	18591.7
70°	1471.9	1449.2	1583.5	1723.5	2673.3	2484.1	5575.4	16228.7	17178.4	18075.2
72.5°	1246.8	1207.0	1390.5	1530.5	2079.2	1905.1	2304.3	12465.7	13623.6	16419.8
75°	966.8	940.3	1097.3	1347.0	1562.7	1487.0	1456.8	7569.5	8833.3	12698.4
77.5°	766.2	730.3	874.1	1050.0	1405.7	1121.9	1061.4	3259.7	4512.2	8106.8
80°	577.0	544.9	664.1	830.5	1080.3	845.7	686.8	1330.0	1700.8	4107.3
82.5°	410.5	382.2	463.5	609.2	726.5	758.7	421.9	745.4	838.1	1583.5
85°	263.0	245.9	310.3	382.2	461.6	488.1	257.3	389.7	427.6	652.7
87.5°	143.8	117.3	166.5	177.8	213.8	194.9	123.0	141.9	153.2	236.5
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°
4018.4	0°	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4	4018.4
4026.0	2.5°	4033.5	4039.2	4058.1	4063.8	4077.0	4094.1	4105.4	4116.8	4116.8	4128.1
4086.5	5°	4088.4	4101.6	4141.4	4162.2	4196.2	4230.3	4251.1	4275.7	4290.8	4298.4
4183.0	7.5°	4194.3	4215.2	4271.9	4307.9	4366.5	4413.8	4446.0	4480.0	4487.6	4508.4
4317.3	10°	4338.1	4362.7	4427.0	4495.2	4565.2	4623.8	4654.1	4678.7	4688.1	4691.9
4489.5	12.5°	4502.7	4538.7	4621.9	4705.2	4778.9	4830.0	4837.6	4831.9	4805.4	4782.7
4701.4	15°	4705.2	4737.3	4830.0	4920.8	4992.7	5002.2	4954.9	4924.6	4892.5	4886.8
4937.9	17.5°	4947.3	4964.3	5049.5	5138.4	5144.1	5111.9	5041.9	5013.5	4983.3	4962.5
5246.2	20°	5229.2	5223.5	5284.1	5321.9	5282.2	5183.8	5077.9	5030.6	5000.3	4975.7
5624.6	22.5°	5566.0	5522.5	5514.9	5505.4	5399.5	5193.3	5049.5	4988.9	4941.6	4907.6
6152.5	25°	6056.0	5889.5	5774.1	5709.8	5471.4	5142.2	4958.7	4824.3	4735.4	4676.8
6797.6	27.5°	6668.9	6388.9	6097.6	5940.6	5471.4	5038.1	4739.2	4521.6	4376.0	4315.4
7421.9	30°	7253.5	6960.3	6530.8	6218.7	5458.1	4867.9	4385.4	4082.7	3912.4	3851.9
7955.4	32.5°	7753.0	7433.3	6990.6	6523.3	5426.0	4591.6	3946.5	3611.6	3447.0	3375.1
8483.3	35°	8216.5	7876.0	7452.2	6858.1	5340.8	4186.8	3464.1	3208.7	3025.1	2909.7
9020.6	37.5°	8691.4	8286.5	7889.2	7160.8	5187.6	3713.8	3093.3	2875.7	2660.0	2504.9
9591.9	40°	9207.9	8723.5	8356.5	7340.6	4936.0	3263.5	2805.7	2607.0	2378.1	2213.5
10250.3	42.5°	9811.4	9247.6	8876.8	7433.3	4591.6	2943.8	2618.4	2423.5	2207.8	2073.5
10956.0	45°	10441.4	9824.6	9351.7	7431.4	4207.6	2794.3	2557.8	2364.9	2126.5	1986.5
11680.6	47.5°	11101.7	10428.2	9762.2	7310.3	3874.6	2815.1	2523.8	2238.1	1975.1	1838.9
12412.8	50°	11763.8	11088.4	10159.5	7083.3	3732.7	2769.7	2397.0	2060.3	1750.0	1627.0
13099.5	52.5°	12420.3	11790.3	10501.9	6759.8	3588.9	2601.4	2234.3	1829.5	1657.3	1572.2
13809.0	55°	13080.6	12484.6	10874.6	6288.7	3229.5	2404.6	1961.9	1742.4	1583.5	1506.0
14503.3	57.5°	13742.8	13286.8	11228.4	5817.6	2777.3	2162.4	1812.4	1636.5	1509.7	1443.5
15084.1	60°	14431.4	14204.4	11593.6	5384.3	2330.8	1852.2	1702.7	1551.4	1422.7	1348.9
15642.2	62.5°	15140.9	15214.7	11879.2	4826.2	1920.3	1663.0	1604.3	1449.2	1324.3	1254.3
16103.9	65°	15856.0	16189.0	12066.5	4052.4	1557.0	1483.2	1498.4	1337.6	1210.8	1150.3
16442.5	67.5°	16395.2	16890.9	12013.6	3066.8	1277.0	1313.0	1366.0	1220.3	1101.1	1053.8
16387.6	70°	16455.7	16807.6	11491.4	2100.0	1068.9	1146.5	1218.4	1104.9	981.9	947.8
15615.7	72.5°	15649.8	15672.5	10036.5	1371.6	904.3	1006.5	1063.2	987.6	868.4	834.3
13661.4	75°	13536.5	12961.4	7368.9	904.3	756.8	864.6	917.6	864.6	749.2	756.8
10221.9	77.5°	10256.0	9179.5	4474.3	643.2	631.9	726.5	798.4	760.5	662.2	743.5
5140.3	80°	5284.1	4966.2	1996.0	480.5	499.5	580.8	656.5	607.3	524.1	499.5
1148.4	82.5°	1210.8	1407.6	787.0	344.3	361.4	418.1	501.4	455.9	376.5	317.8
478.7	85°	423.8	463.5	348.1	215.7	211.9	261.1	340.5	304.6	255.4	204.3
202.4	87.5°	134.3	175.9	130.5	87.0	90.8	117.3	157.0	143.8	119.2	77.6
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>
4018.4
4128.1
4302.2
4500.8
4682.5
4782.7
4886.8
4964.3
4977.6
4918.9
4699.5
4345.7
3887.9
3411.1
2947.6
2546.5
2245.7
2100.0
2009.2
1857.8
1634.6
1572.2
1498.4
1432.2
1343.2
1252.4
1148.4
1055.7
949.7
832.4
730.3
654.6
455.9
314.1
215.7
81.4
0.0

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