

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: P949645

Luminaire Tested: **GALN-SB4B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20156 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

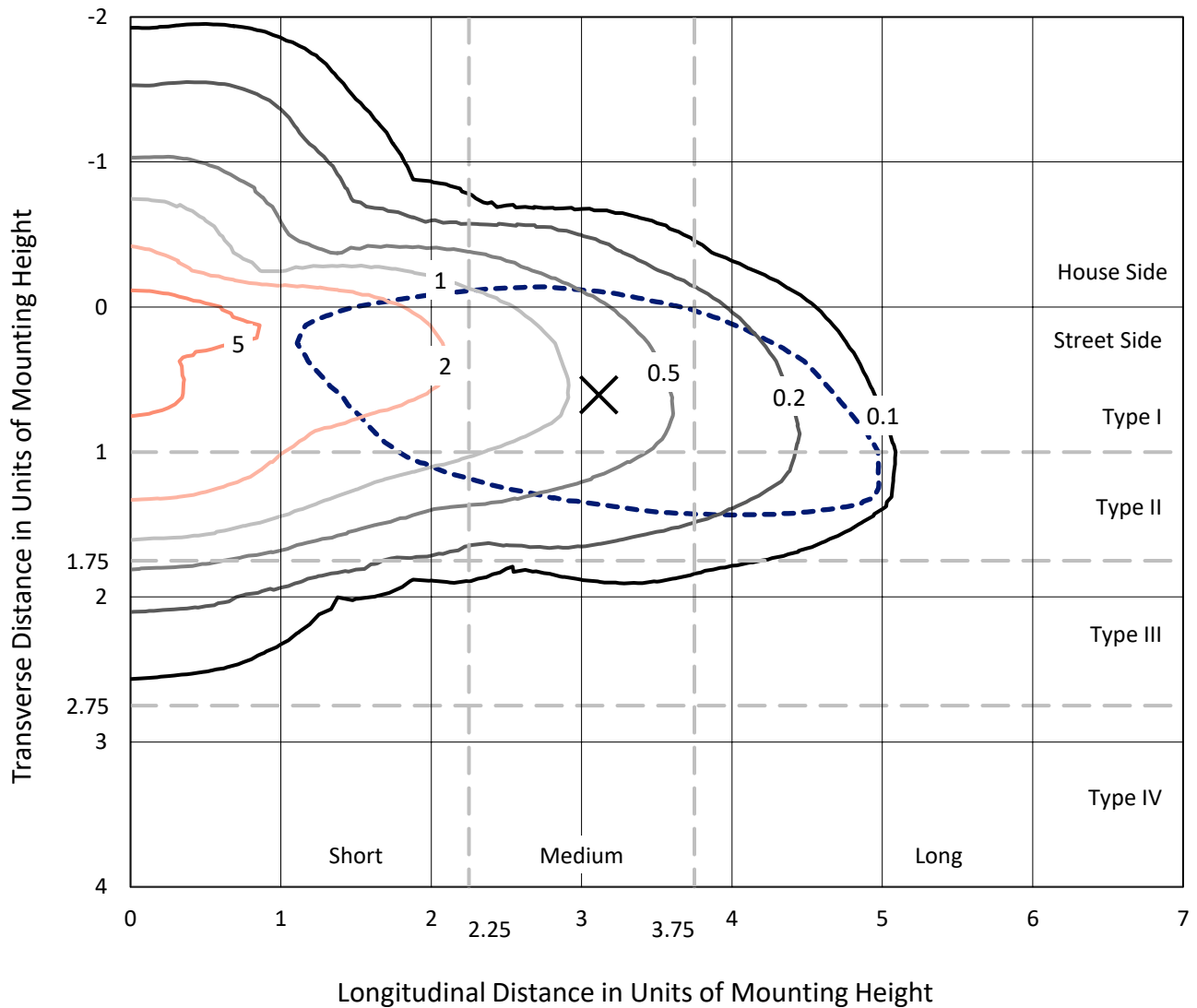
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

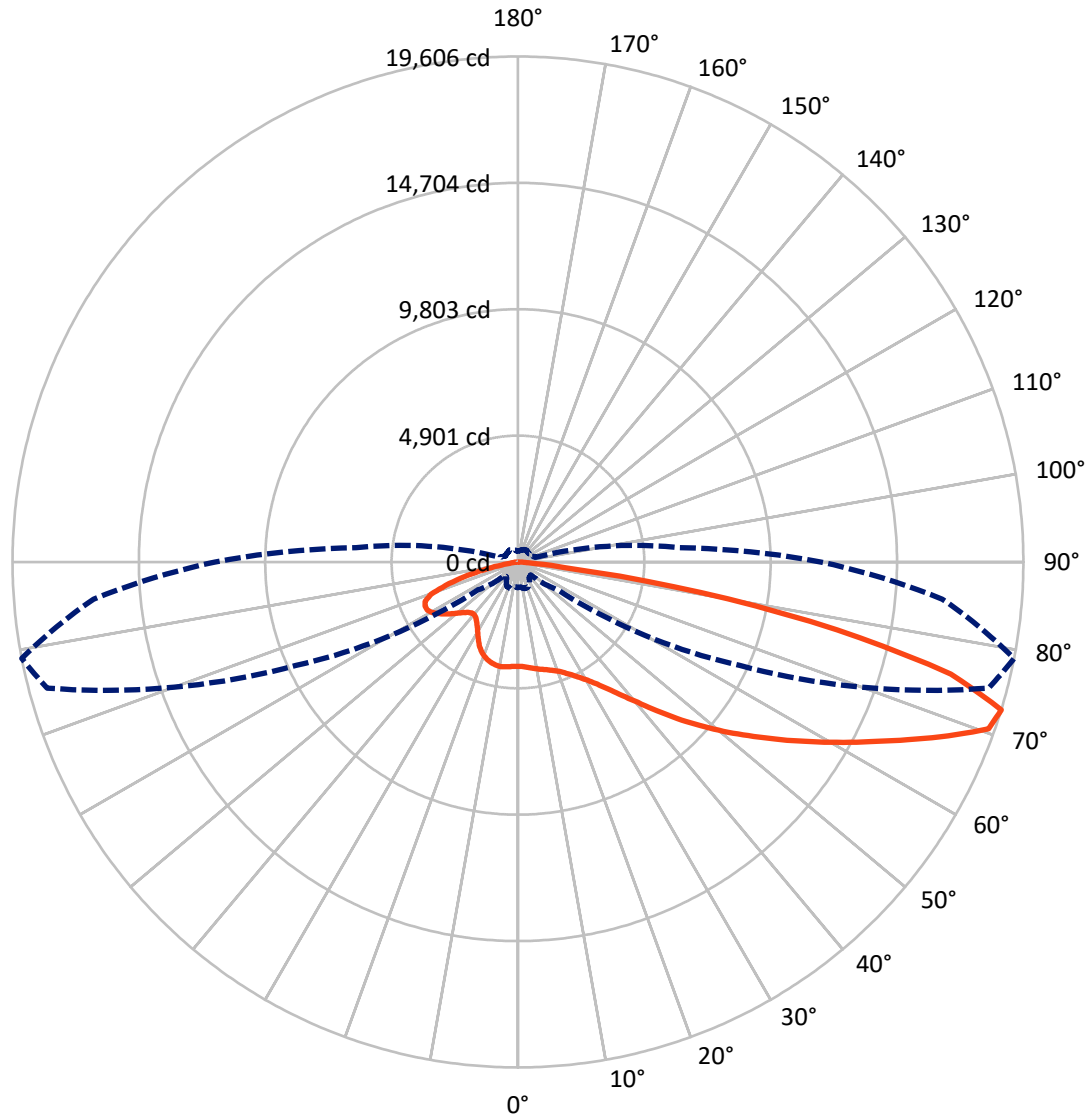
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4435.4	0.0	4435.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15720.6	0.0	15720.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	20156.0	0.0	20156.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.8
10°-20°	960.2	4.8
20°-30°	1549.4	7.7
30°-40°	2325.5	11.5
40°-50°	3298.8	16.4
50°-60°	4165.9	20.7
60°-70°	4231.1	21.0
70°-80°	2883.7	14.3
80°-90°	374.1	1.9
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°	20156.0	100.0
0°-180°	20156.0	100.0



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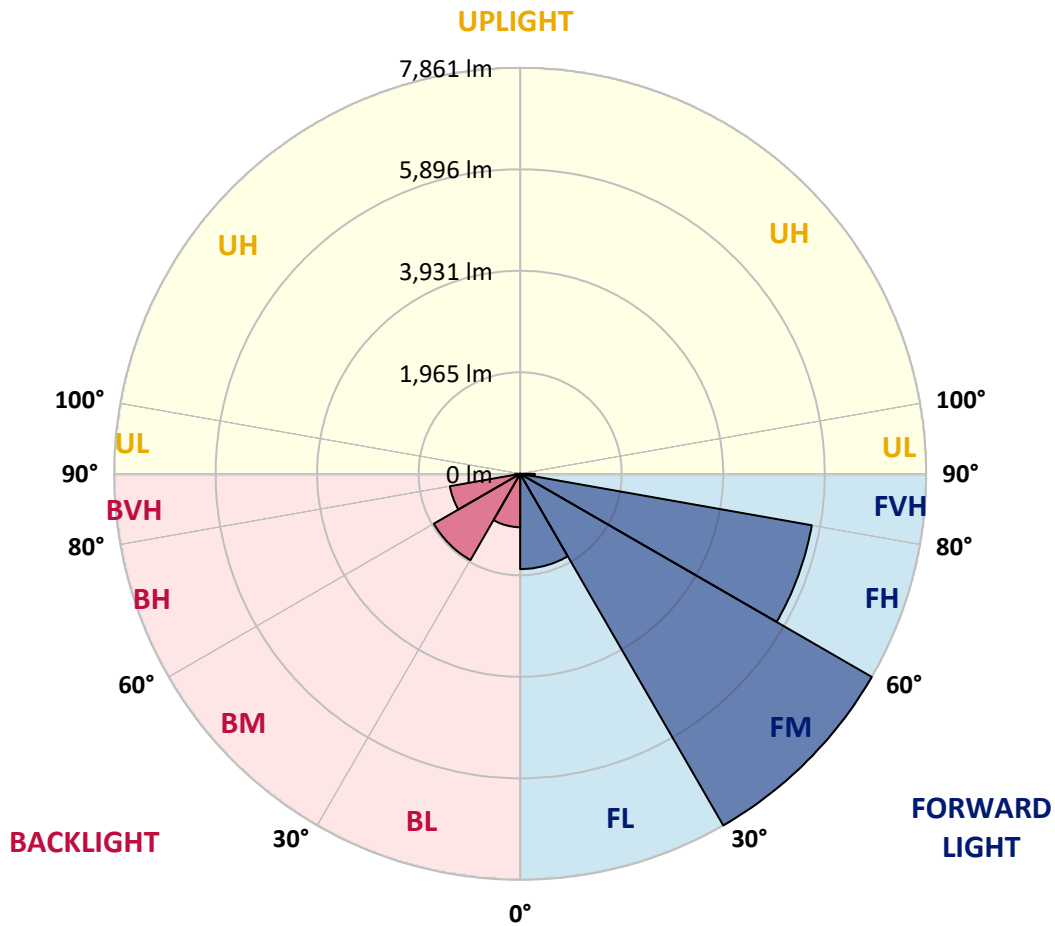
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.8	9.1			
FM (30°-60°)	7861.3	39.0			
FH (60°-80°)	5733.7	28.4			G3/7500
FVH (80°-90°)	281.8	1.4			G3/500
BL (0°-30°)	1033.1	5.1	B3/2500		
BM (30°-60°)	1929.0	9.6	B2/2500		
BH (60°-80°)	1381.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	92.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1
2.5°	4048.3	4029.1	4040.8	4036.5	4041.9	4048.3	4050.4	4053.6	4064.3	4063.2
5°	4039.7	4020.5	4036.5	4031.2	4045.1	4060.0	4072.8	4084.5	4101.6	4109.0
7.5°	4021.6	4008.8	4024.8	4040.8	4066.4	4088.8	4106.9	4133.6	4158.1	4162.3
10°	3916.1	3906.5	3943.8	3985.4	4055.7	4116.5	4155.9	4186.9	4213.5	4217.8
12.5°	3806.2	3794.5	3836.1	3892.6	4006.7	4116.5	4199.7	4240.2	4263.6	4277.5
15°	3788.1	3778.5	3802.0	3851.0	3945.9	4087.7	4229.5	4304.1	4324.4	4340.4
17.5°	3875.5	3857.4	3867.0	3884.1	3939.5	4061.1	4253.0	4376.6	4407.6	4424.6
20°	4078.1	4052.5	4037.6	4003.5	3993.9	4065.3	4250.8	4464.1	4504.6	4525.9
22.5°	4347.9	4330.8	4298.8	4212.4	4118.6	4117.6	4291.3	4576.0	4651.7	4672.0
25°	4674.1	4648.5	4608.0	4490.7	4310.5	4221.0	4359.6	4718.9	4845.8	4851.1
27.5°	5049.4	5011.0	4955.6	4801.0	4557.9	4383.0	4464.1	4883.1	5068.6	5066.5
30°	5444.9	5406.6	5347.9	5160.3	4854.3	4601.6	4609.1	5060.1	5333.0	5321.3
32.5°	5733.9	5705.1	5693.4	5548.4	5195.5	4859.6	4775.4	5256.2	5659.2	5648.6
35°	5955.6	5918.3	5932.2	5858.6	5567.6	5148.5	4979.0	5489.7	6055.9	6054.8
37.5°	6175.3	6142.2	6153.9	6104.9	5911.9	5515.3	5227.4	5775.5	6547.4	6570.8
40°	6375.7	6340.5	6387.4	6341.6	6179.5	5905.5	5510.0	6098.5	7116.7	7161.5
42.5°	6496.2	6468.5	6546.3	6547.4	6412.0	6235.0	5820.2	6454.6	7775.6	7875.8
45°	6537.8	6528.2	6645.5	6670.0	6617.7	6425.8	6099.6	6842.7	8485.7	8664.8
47.5°	6493.0	6474.9	6636.9	6727.5	6769.1	6515.4	6330.9	7262.8	9210.7	9472.9
50°	6267.0	6231.8	6472.7	6663.6	6811.8	6574.0	6564.4	7747.9	10034.8	10321.6
52.5°	5860.8	5834.1	6108.1	6439.7	6718.0	6602.8	6826.7	8277.8	10817.4	11188.4
55°	5341.5	5306.3	5608.1	6040.9	6484.5	6593.2	7089.0	8870.6	11740.7	12117.1
57.5°	4518.4	4448.1	4829.8	5341.5	6103.8	6581.5	7361.9	9460.2	12678.9	13129.9
60°	3317.9	3213.4	3681.5	4288.1	5359.7	6467.4	7699.9	10121.2	13804.8	14211.0
62.5°	1931.9	1871.1	2177.1	2743.3	4039.7	5795.7	7889.7	10889.9	14911.5	15338.0
65°	1500.1	1483.0	1509.7	1553.4	2248.6	4339.3	7304.3	11639.4	16318.8	16617.4
67.5°	1372.2	1359.4	1371.1	1289.0	1140.8	2417.0	5778.7	11829.2	17826.4	18007.7
70°	1219.7	1204.8	1243.2	1172.8	897.7	1099.2	3733.7	11140.4	19025.9	19366.0
72.5°	993.7	976.6	1066.2	1034.2	755.9	705.8	1875.4	9503.9	18900.0	19605.8
75°	763.4	753.8	860.4	887.1	616.2	555.5	899.8	7064.5	16632.3	17343.4
77.5°	592.8	585.3	639.7	736.7	496.8	430.7	553.3	4481.1	12533.9	12658.7
80°	444.6	423.3	473.4	570.4	387.0	314.5	375.3	2613.2	7922.7	7181.7
82.5°	278.3	267.6	309.2	380.6	272.9	216.4	244.2	1443.6	3175.1	1870.1
85°	158.9	154.6	168.5	217.5	148.2	124.7	139.7	637.6	580.0	398.7
87.5°	64.0	61.8	76.8	97.0	54.4	45.8	49.0	153.5	127.9	118.3
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°
4046.1	0°	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1	4046.1
4062.1	2.5°	4057.9	4057.9	4042.9	4019.5	3992.8	3975.8	3948.0	3940.6	3911.8	3903.3
4098.4	5°	4106.9	4098.4	4052.5	3986.4	3895.8	3812.6	3720.9	3663.4	3582.3	3553.6
4169.8	7.5°	4168.7	4145.3	4066.4	3921.4	3731.6	3545.0	3351.0	3203.8	3063.1	3013.0
4228.4	10°	4225.2	4192.2	4057.9	3804.1	3475.7	3152.7	2843.5	2627.0	2462.9	2395.7
4293.5	12.5°	4281.7	4221.0	4001.3	3609.0	3112.2	2674.0	2344.5	2176.1	2074.8	1993.7
4346.8	15°	4335.1	4249.8	3913.9	3347.8	2713.4	2268.8	2025.7	1891.4	1810.4	1757.1
4424.6	17.5°	4396.9	4274.3	3782.8	3016.2	2333.9	1988.4	1790.1	1709.1	1693.1	1686.7
4531.2	20°	4483.3	4296.7	3610.1	2645.2	2054.5	1764.5	1662.2	1654.7	1653.6	1650.4
4659.2	22.5°	4576.0	4323.3	3381.9	2308.3	1816.8	1624.8	1606.7	1591.8	1582.2	1581.1
4813.8	25°	4685.8	4331.9	3096.2	2032.1	1614.2	1558.7	1537.4	1515.0	1508.6	1508.6
4989.7	27.5°	4792.4	4303.1	2763.5	1792.2	1500.1	1498.0	1470.3	1462.8	1461.7	1464.9
5190.1	30°	4899.1	4248.7	2433.0	1570.5	1434.0	1434.0	1424.4	1429.7	1434.0	1444.7
5465.2	32.5°	5043.0	4191.1	2156.9	1406.3	1376.4	1365.8	1375.4	1386.0	1390.3	1404.1
5826.6	35°	5254.1	4150.6	1937.2	1316.7	1316.7	1302.9	1308.2	1306.1	1296.5	1290.1
6263.8	37.5°	5533.4	4148.5	1756.0	1275.1	1266.6	1264.5	1265.5	1251.7	1214.4	1169.6
6792.6	40°	5869.3	4206.1	1616.3	1246.4	1240.0	1252.8	1246.4	1209.0	1106.7	1028.9
7443.0	42.5°	6320.3	4370.2	1526.8	1211.2	1230.4	1246.4	1220.8	1091.8	1022.5	970.2
8183.9	45°	6851.2	4636.8	1480.9	1173.9	1212.2	1231.4	1107.8	1051.2	995.8	932.9
8992.1	47.5°	7452.5	4972.6	1470.3	1138.7	1171.7	1183.5	1059.8	1034.2	971.3	903.0
9804.5	50°	8107.2	5370.3	1499.0	1097.1	1113.1	1072.6	1043.8	1020.3	955.3	888.1
10637.2	52.5°	8784.2	5808.5	1556.6	1040.6	1054.4	1009.7	1037.4	1017.1	945.7	855.1
11497.6	55°	9449.5	6249.9	1612.1	974.5	994.7	953.2	1019.3	1004.3	902.0	799.6
12415.6	57.5°	10125.4	6689.2	1666.4	915.8	937.2	898.8	990.5	970.2	852.9	748.5
13417.8	60°	10828.0	7115.6	1692.0	859.3	874.3	848.7	946.8	911.6	797.5	696.2
14402.9	62.5°	11485.9	7470.7	1650.4	802.8	812.4	801.8	889.2	842.3	742.1	637.6
15429.7	65°	12145.8	7681.8	1522.5	747.4	749.5	744.2	808.2	767.6	677.0	586.4
16328.4	67.5°	12744.0	7800.1	1318.9	687.7	682.4	680.2	732.5	686.6	614.1	535.2
17011.9	70°	12870.8	7499.5	1007.5	617.3	617.3	612.0	649.3	602.4	544.8	480.8
16522.5	72.5°	11755.6	6308.5	715.4	537.4	545.9	535.2	566.1	526.7	474.4	431.8
14239.8	75°	9479.3	4626.1	520.3	455.3	470.2	452.1	480.8	453.1	408.3	407.3
9813.1	77.5°	6513.2	2860.5	377.4	375.3	386.0	362.5	395.6	380.6	340.1	322.0
4271.1	80°	2779.5	1140.8	275.1	290.0	290.0	268.7	307.1	311.3	276.1	267.6
824.2	82.5°	553.3	324.1	193.0	199.4	187.6	181.2	217.5	241.0	332.6	370.0
248.4	85°	166.3	119.4	116.2	108.7	96.0	97.0	127.9	242.0	298.5	170.6
82.1	87.5°	45.8	29.9	30.9	24.5	20.3	26.7	43.7	183.4	100.2	42.6
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>
4046.1
3917.1
3574.9
3019.4
2410.6
2020.4
1766.6
1690.9
1661.1
1592.9
1515.0
1473.5
1452.1
1415.9
1305.0
1170.7
1026.7
968.1
928.6
897.7
880.7
848.7
794.3
746.3
693.0
636.5
580.0
528.8
478.7
419.0
366.8
301.7
267.6
371.0
147.1
36.2
0.0

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