

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: P953647

Luminaire Tested: **GALN-SB7A-850-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953647  
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-SB7A-850-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

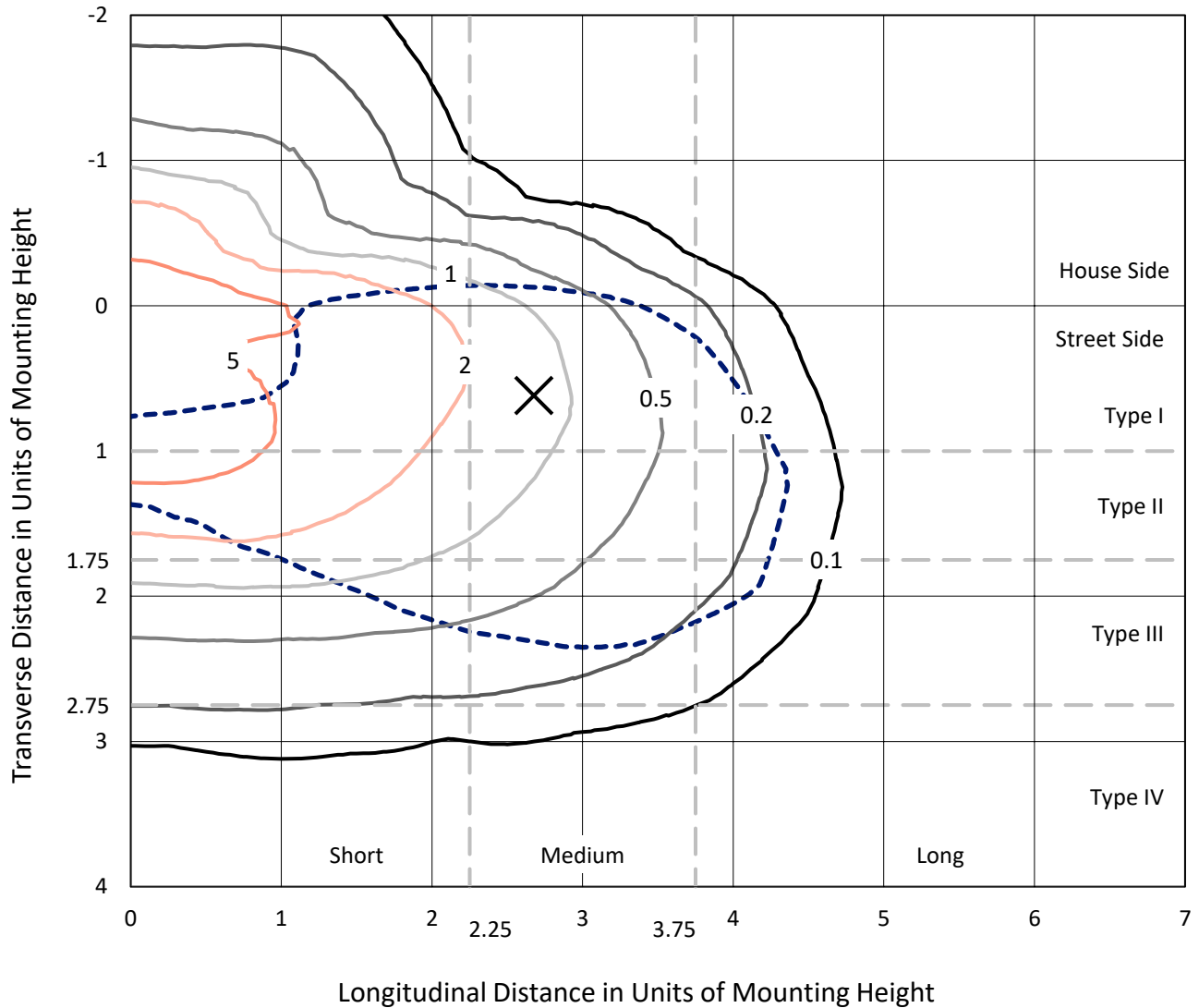
Lumens per Lamp: N/A  
Luminaire Lumens: 31326 lumens  
Efficiency: N/A  
Efficacy: 157.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

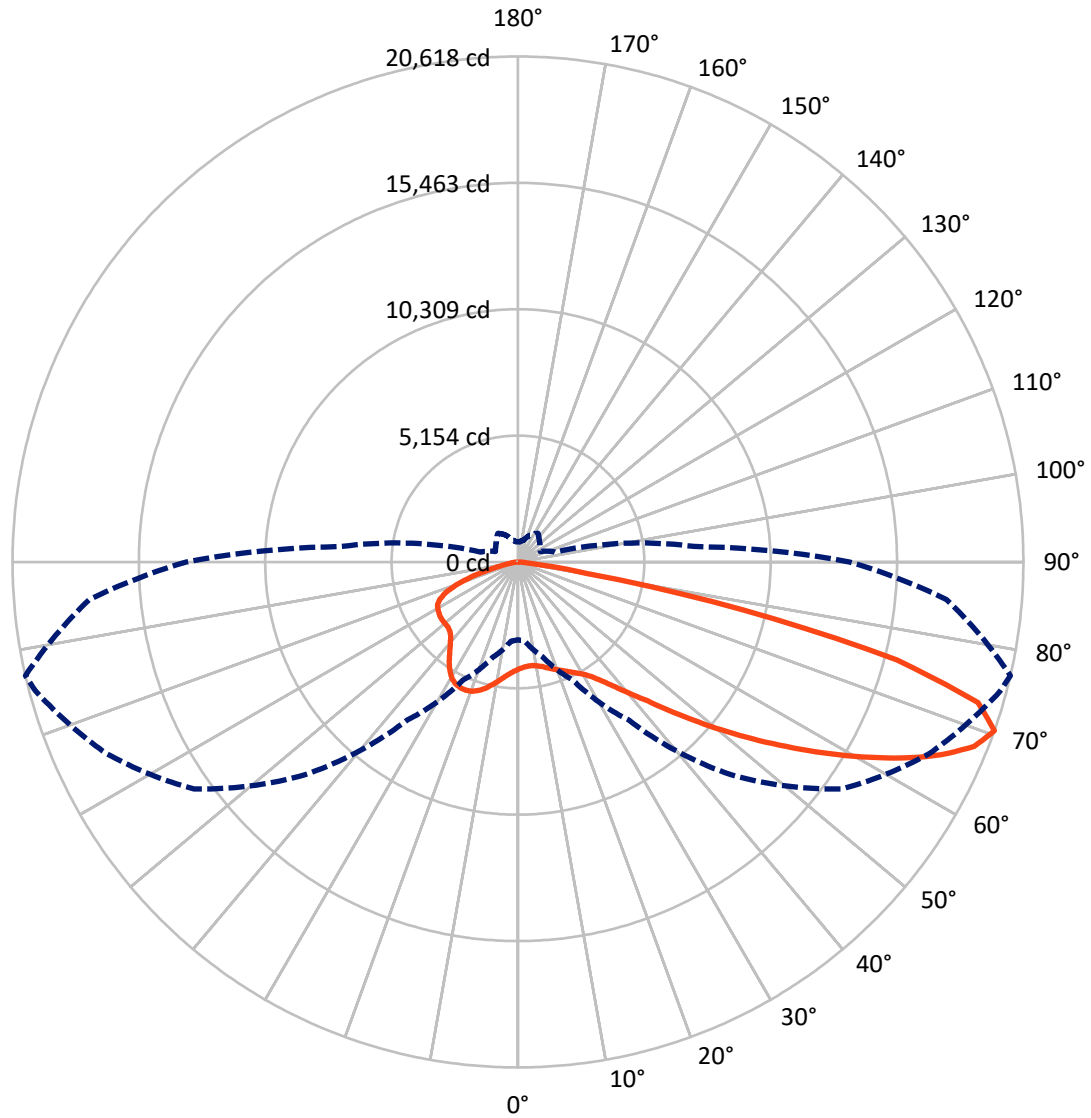
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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
<b>House Side</b>	Lumens	6859.9	0.0	6859.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	24466.1	0.0	24466.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	31326.0	0.0	31326.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.8	1.3
10°-20°	1202.9	3.8
20°-30°	2057.2	6.6
30°-40°	3308.2	10.6
40°-50°	5164.9	16.5
50°-60°	6899.1	22.0
60°-70°	7353.4	23.5
70°-80°	4526.7	14.5
80°-90°	396.7	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°	31326.0	100.0
0°-180°	31326.0	100.0



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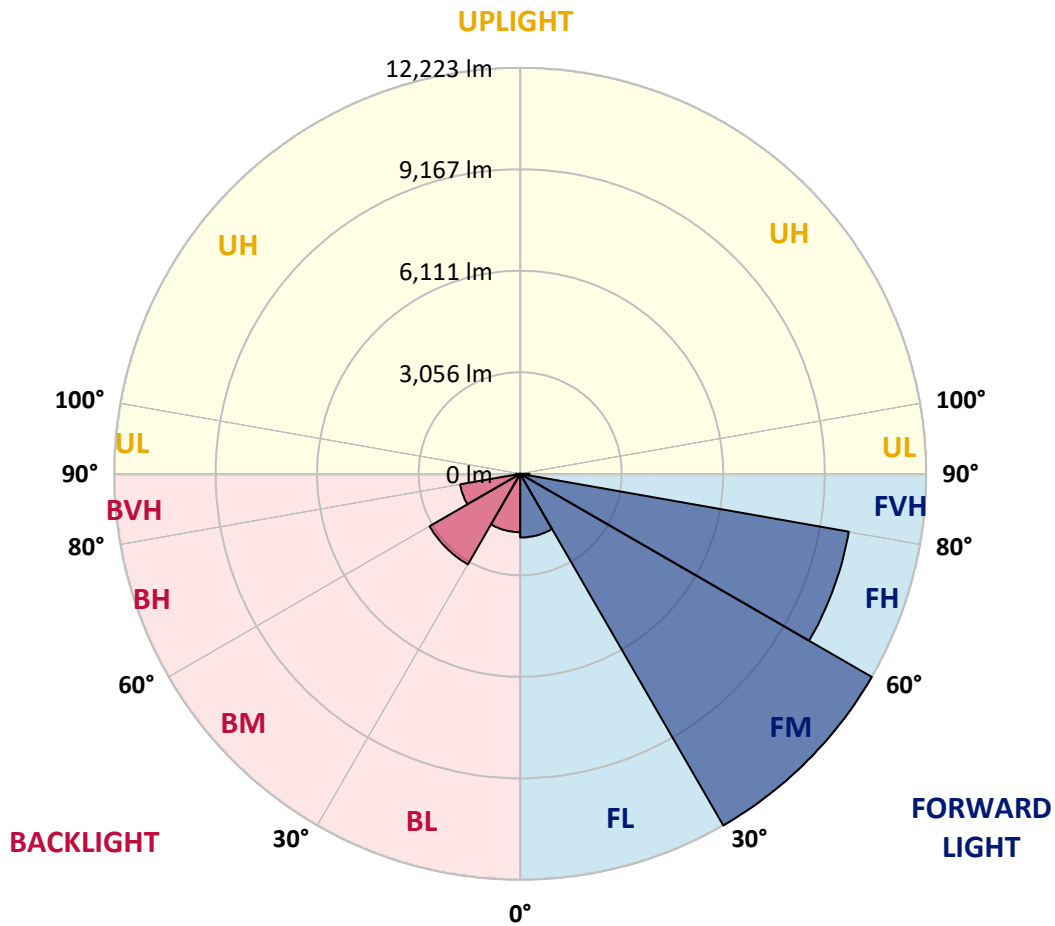
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.2	6.1			
FM (30°-60°)	12222.7	39.0			
FH (60°-80°)	10046.8	32.1			G4/12000
FVH (80°-90°)	277.4	0.9			G3/500
BL (0°-30°)	1757.7	5.6	B3/2500		
BM (30°-60°)	3149.5	10.1	B3/5000		
BH (60°-80°)	1833.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	119.3	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-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3
2.5°	4028.5	4026.9	4047.8	4054.2	4092.7	4120.0	4171.3	4225.9	4296.5	4304.5
5°	3795.9	3795.9	3820.0	3845.6	3895.4	3949.9	4028.5	4123.2	4245.1	4264.4
7.5°	3598.6	3611.4	3632.3	3682.0	3739.8	3818.4	3938.7	4073.5	4233.9	4264.4
10°	3439.7	3454.2	3479.8	3520.0	3606.6	3715.7	3872.9	4046.2	4261.2	4309.3
12.5°	3390.0	3404.4	3418.9	3449.4	3529.6	3657.9	3845.6	4059.0	4326.9	4375.1
15°	3505.5	3523.2	3511.9	3503.9	3545.6	3662.7	3858.5	4105.5	4408.8	4477.8
17.5°	3771.8	3778.3	3752.6	3677.2	3670.8	3733.3	3919.4	4169.7	4511.4	4586.9
20°	4201.8	4190.6	4137.6	3988.4	3903.4	3890.6	4023.7	4266.0	4617.3	4697.6
22.5°	4785.8	4773.0	4667.1	4431.2	4241.9	4116.8	4174.5	4391.1	4736.1	4825.9
25°	5514.2	5496.5	5340.9	5020.0	4726.4	4416.8	4379.9	4556.4	4882.1	4965.5
27.5°	6364.5	6350.0	6181.6	5758.0	5334.5	4827.5	4635.0	4750.5	5034.5	5129.1
30°	7279.0	7320.7	7022.3	6566.6	6030.8	5363.4	4978.3	4989.5	5231.8	5316.8
32.5°	8353.9	8426.1	8066.7	7489.1	6757.5	5945.7	5411.5	5323.2	5519.0	5589.6
35°	9419.2	9501.0	9202.6	8564.0	7721.8	6632.4	5863.9	5706.7	5900.8	5977.8
37.5°	10340.1	10449.2	10295.1	9740.0	8753.4	7460.3	6454.3	6157.5	6370.9	6467.2
40°	11066.8	11233.7	11222.5	10875.9	9969.5	8464.6	7203.6	6714.2	6954.9	7059.2
42.5°	11657.2	11801.6	11926.8	11909.1	11238.5	9605.3	8084.3	7437.8	7620.7	7741.0
45°	12064.7	12218.8	12488.3	12778.7	12459.4	10826.2	9093.5	8296.1	8463.0	8644.3
47.5°	12428.9	12603.8	12953.6	13414.0	13495.8	12051.9	10198.9	9295.6	9448.0	9635.8
50°	12461.0	12611.8	13154.1	13807.1	14232.2	13229.5	11386.1	10417.1	10559.9	10760.4
52.5°	11686.1	11923.6	12870.1	13795.8	14570.8	14214.6	12565.3	11583.4	11743.9	11984.5
55°	9071.0	9419.2	12037.5	13365.9	14450.4	14851.5	13686.8	12823.6	13029.0	13280.8
57.5°	7813.2	7965.6	9555.5	12583.0	13901.7	15016.8	14633.3	14076.6	14407.1	14683.1
60°	7022.3	7149.0	8089.2	11365.3	13179.8	14755.3	15364.9	15244.6	15815.7	16144.6
62.5°	6175.2	6295.5	7150.6	9489.8	12255.7	14320.5	15827.0	16322.7	17259.7	17619.0
65°	5334.5	5437.2	6257.0	7973.6	11081.3	13885.7	16066.0	17254.8	18596.1	18968.3
67.5°	4397.5	4482.6	5257.5	6727.1	9653.4	13290.5	16184.7	17988.0	19759.2	20078.5
70°	3173.4	3239.2	4039.8	5320.0	7861.3	12266.9	16136.6	18507.8	20362.5	20617.6
72.5°	1500.1	1559.4	2499.6	3454.2	5552.7	10274.3	15162.8	18095.5	19749.6	19622.9
75°	800.6	851.9	1435.9	1894.7	2932.8	7043.1	12408.1	15587.9	16584.2	15968.1
77.5°	542.3	582.4	888.8	1137.5	1339.6	3343.5	7975.2	10792.5	10383.4	9366.2
80°	430.0	471.7	728.4	770.1	648.2	1208.1	3295.3	4996.0	3588.9	2870.2
82.5°	330.5	377.0	612.9	558.3	353.0	495.7	959.4	1580.3	919.3	699.5
85°	202.1	251.9	481.3	356.2	198.9	226.2	325.7	439.6	280.8	234.2
87.5°	102.7	144.4	243.9	130.0	89.8	52.9	86.6	86.6	73.8	64.2
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°
4370.3	0°	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3	4370.3
4347.8	2.5°	4386.3	4418.4	4472.9	4524.3	4564.4	4602.9	4641.4	4662.3	4668.7	4694.3
4371.9	5°	4437.6	4497.0	4602.9	4702.4	4764.9	4803.4	4830.7	4846.8	4850.0	4858.0
4437.6	7.5°	4532.3	4627.0	4774.6	4874.0	4920.6	4917.3	4906.1	4866.0	4850.0	4835.5
4533.9	10°	4665.5	4790.6	4971.9	5040.9	5012.0	4935.0	4835.5	4718.4	4663.9	4610.9
4665.5	12.5°	4830.7	4989.5	5167.6	5164.4	5021.6	4824.3	4593.3	4413.6	4299.7	4217.8
4827.5	15°	5031.3	5214.2	5350.5	5241.4	4928.6	4574.0	4235.5	4001.3	3898.6	3808.7
4991.1	17.5°	5238.2	5434.0	5496.5	5217.4	4694.3	4203.4	3820.0	3635.5	3534.4	3486.3
5167.6	20°	5440.4	5634.5	5583.2	5079.4	4338.2	3783.1	3441.3	3340.3	3319.4	3330.6
5339.3	22.5°	5653.7	5827.0	5600.8	4813.1	3884.1	3353.1	3165.4	3168.6	3215.1	3248.8
5519.0	25°	5871.9	5989.1	5554.3	4428.0	3396.4	3037.0	2990.5	3041.9	3133.3	3199.1
5721.1	27.5°	6082.1	6133.4	5453.2	3951.5	2977.7	2810.8	2818.9	2924.7	3062.7	3154.2
5966.6	30°	6319.6	6261.8	5259.1	3415.7	2687.3	2616.7	2684.1	2807.6	2945.6	3027.4
6276.2	32.5°	6587.5	6372.5	4951.0	2919.9	2481.9	2461.1	2571.8	2652.0	2713.0	2737.0
6687.0	35°	6921.2	6528.1	4556.4	2571.8	2297.4	2347.2	2453.1	2412.9	2388.9	2376.0
7238.8	37.5°	7354.4	6738.3	4094.3	2345.6	2148.2	2265.3	2308.7	2183.5	2088.9	2042.3
7907.9	40°	7875.8	7046.3	3649.9	2170.7	2053.6	2194.8	2119.4	1968.5	1848.2	1782.4
8660.3	42.5°	8455.0	7368.8	3276.1	2039.1	2000.6	2137.0	1979.8	1800.1	1606.0	1585.1
9557.1	45°	9063.0	7700.9	3021.0	1938.1	1975.0	2087.3	1899.6	1609.2	1471.2	1556.2
10457.2	47.5°	9671.1	8005.7	2867.0	1862.7	1962.1	2031.1	1829.0	1503.3	1405.4	1529.0
11421.4	50°	10348.1	8278.5	2798.0	1808.1	1947.7	2008.7	1723.1	1476.0	1336.4	1418.2
12419.3	52.5°	11020.3	8490.2	2746.7	1753.6	1926.8	1991.0	1671.7	1443.9	1253.0	1257.8
13423.6	55°	11690.9	8628.2	2690.5	1681.4	1880.3	1952.5	1666.9	1408.6	1190.4	1168.0
14485.7	57.5°	12406.5	8706.8	2621.5	1601.1	1800.1	1854.6	1662.1	1381.3	1171.2	1134.3
15571.9	60°	13134.9	8822.3	2531.7	1503.3	1692.6	1737.5	1650.9	1371.7	1159.9	1097.4
16595.4	62.5°	13787.8	8862.5	2424.2	1410.2	1554.6	1622.0	1626.8	1363.7	1129.5	1022.0
17445.8	65°	14216.2	8689.2	2236.5	1304.3	1405.4	1503.3	1580.3	1336.4	1074.9	967.4
17866.1	67.5°	14198.5	8195.0	1942.9	1168.0	1261.0	1371.7	1512.9	1289.9	1009.1	900.0
17548.4	70°	13537.5	7219.6	1570.7	1009.1	1102.2	1230.5	1426.3	1220.9	930.5	826.2
15604.0	72.5°	11610.7	5650.5	1140.7	823.0	917.7	1084.5	1314.0	1137.5	850.3	760.5
11532.1	75°	8294.5	3576.1	773.3	632.1	713.9	919.3	1174.4	1039.6	776.5	763.7
5775.7	77.5°	4237.1	1708.6	511.8	462.1	497.4	725.2	986.7	928.9	787.7	630.5
1642.9	80°	1378.1	630.5	322.5	314.5	330.5	482.9	763.7	762.1	596.8	428.4
397.9	82.5°	439.6	271.1	210.2	202.1	194.1	303.2	532.6	603.2	402.7	271.1
142.8	85°	174.9	162.0	123.5	113.9	81.8	142.8	279.2	401.1	300.0	195.7
36.9	87.5°	64.2	64.2	33.7	24.1	17.6	48.1	75.4	120.3	171.7	101.1
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>
4370.3
4708.8
4870.8
4838.7
4594.9
4198.6
3799.1
3500.7
3325.8
3256.8
3216.7
3176.6
3046.7
2749.9
2388.9
2053.6
1787.3
1606.0
1601.1
1586.7
1479.2
1291.5
1184.0
1139.1
1102.2
1022.0
967.4
904.9
835.9
755.7
720.4
561.5
378.6
269.5
200.5
99.5
0.0

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