

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: P954358

Luminaire Tested: **GALN-SB7C-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38934 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

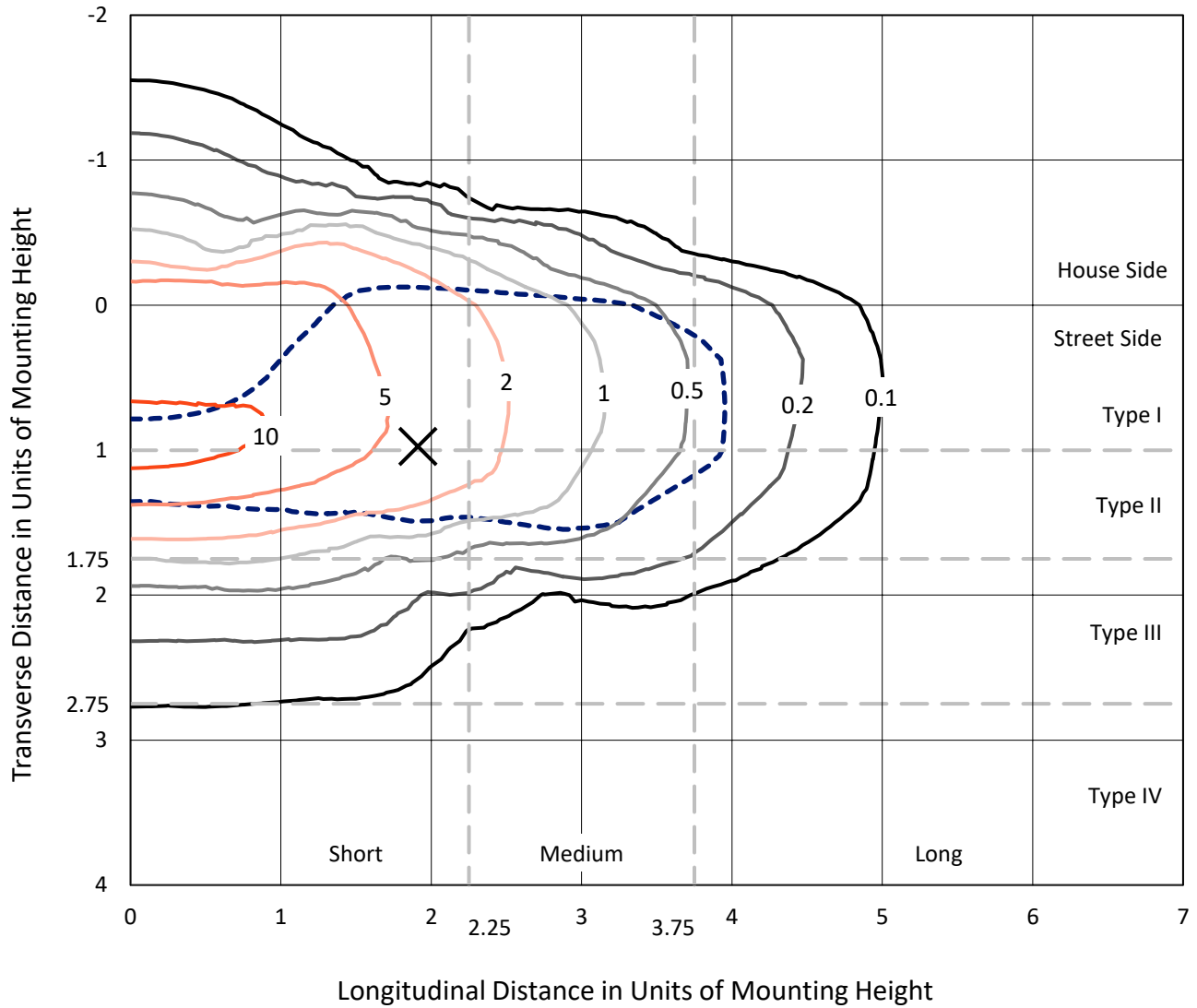
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

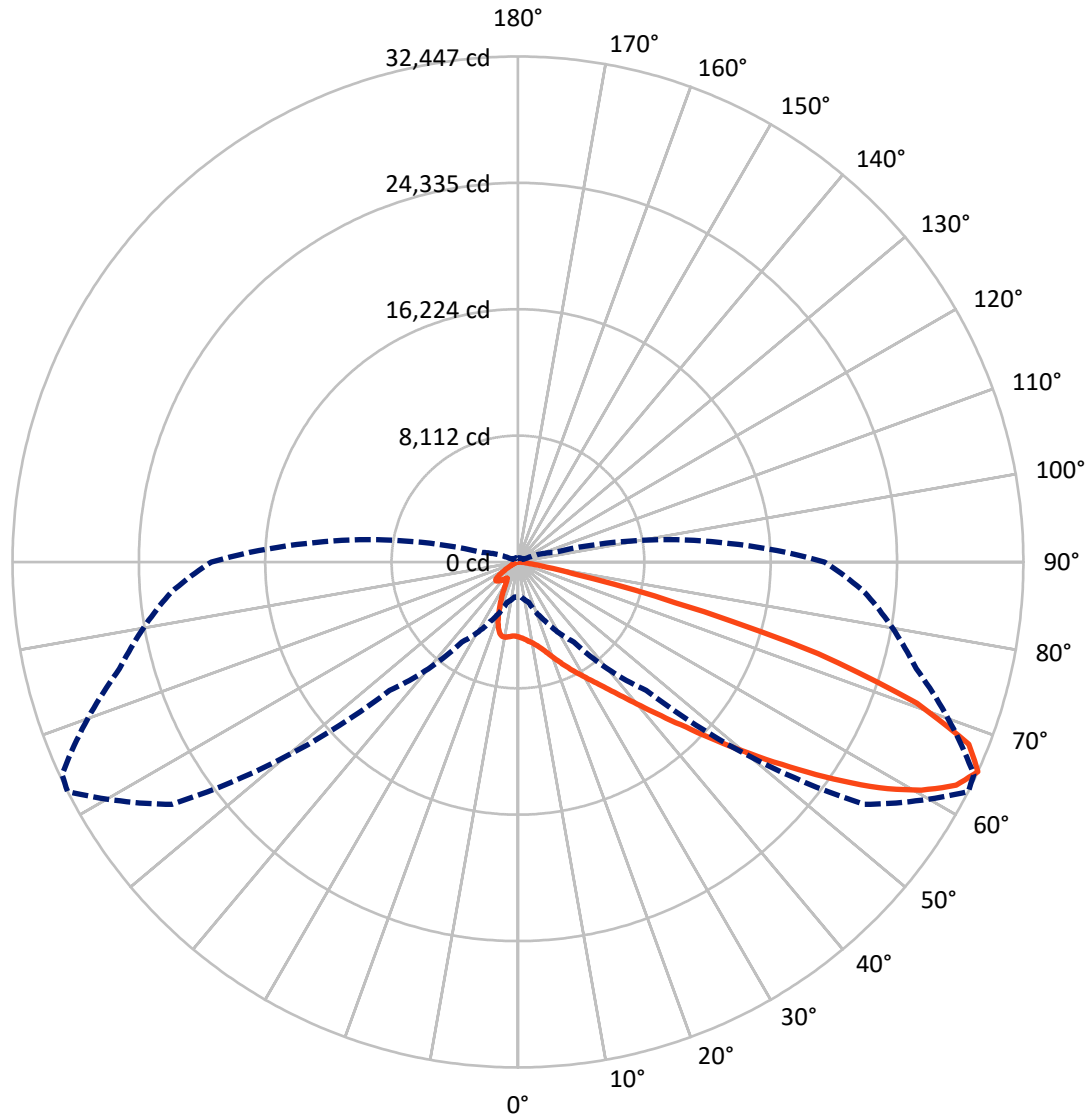
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5723.0	0.0	5723.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	33211.0	0.0	33211.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	38934.0	0.0	38934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.7	1.2
10°-20°	1256.2	3.2
20°-30°	2187.3	5.6
30°-40°	3942.5	10.1
40°-50°	7819.1	20.1
50°-60°	10651.0	27.4
60°-70°	8501.5	21.8
70°-80°	3847.1	9.9
80°-90°	276.5	0.7
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°	38934.0	100.0
0°-180°	38934.0	100.0

Coefficient of Utilization



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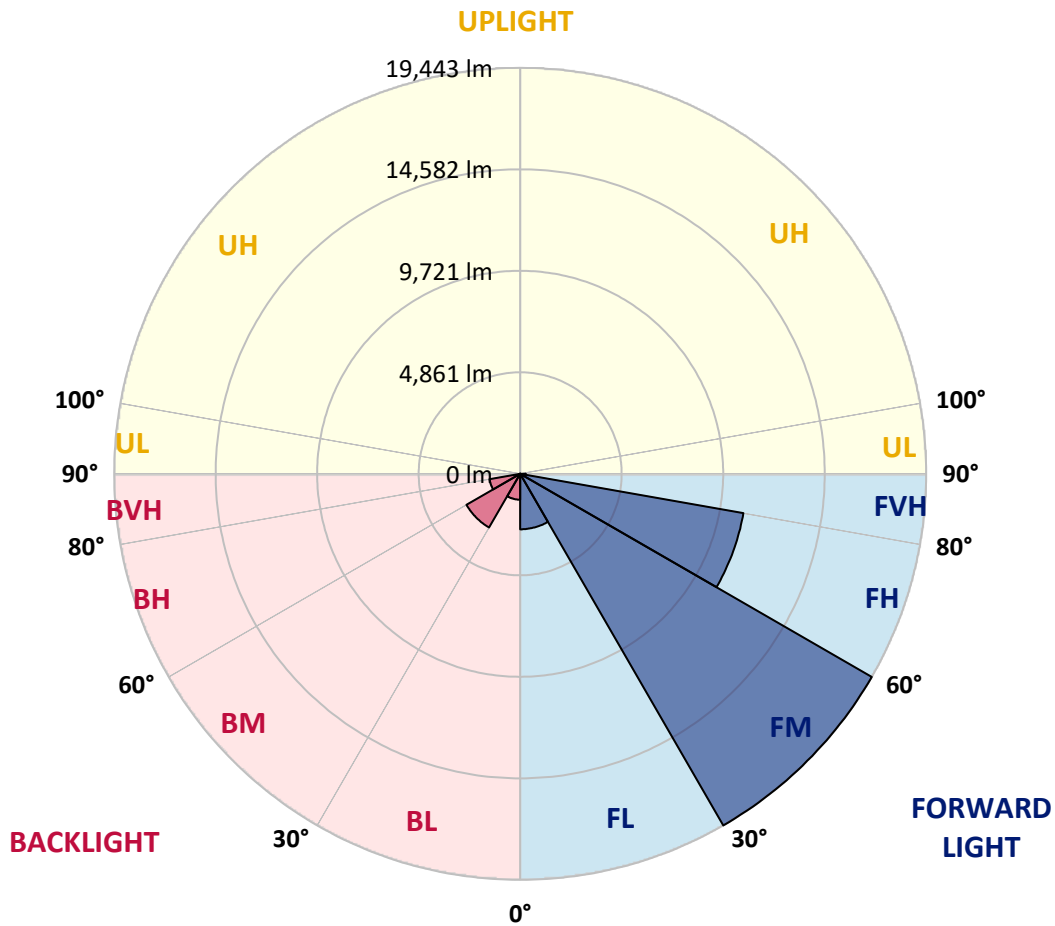
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2657.7	6.8			
FM (30°-60°)	19442.7	49.9			
FH (60°-80°)	10854.6	27.9			G4/12000
FVH (80°-90°)	256.0	0.7			G3/500
BL (0°-30°)	1238.5	3.2	B3/2500		
BM (30°-60°)	2969.9	7.6	B3/5000		
BH (60°-80°)	1494.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	20.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2
2.5°	4917.7	4904.3	4923.0	4915.0	4909.7	4898.9	4893.6	4888.2	4877.5	4869.5
5°	4931.1	4923.0	4941.8	4957.9	4973.9	4990.0	4998.0	5008.8	4998.0	4976.6
7.5°	4818.6	4813.2	4853.4	4901.6	4973.9	5035.5	5102.5	5140.0	5142.7	5134.6
10°	4810.5	4797.2	4837.3	4896.3	4990.0	5099.8	5217.7	5298.0	5308.7	5343.6
12.5°	4936.4	4923.0	4979.3	5043.6	5140.0	5255.2	5399.8	5512.3	5528.4	5576.6
15°	5148.0	5129.3	5193.6	5276.6	5399.8	5531.1	5683.7	5785.5	5798.9	5857.8
17.5°	5394.5	5375.7	5450.7	5539.1	5673.0	5852.5	6029.3	6141.8	6157.8	6195.3
20°	5710.5	5686.4	5745.3	5825.7	5967.7	6181.9	6393.5	6554.2	6551.6	6551.6
22.5°	6077.5	6040.0	6090.9	6155.1	6289.1	6548.9	6830.1	7020.3	7020.3	6945.3
25°	6471.2	6433.7	6490.0	6548.9	6666.7	6961.4	7290.8	7526.5	7537.2	7408.7
27.5°	6964.0	6915.8	6958.7	7028.3	7098.0	7398.0	7789.0	8062.2	8067.6	7869.4
30°	7912.2	7775.6	7641.7	7566.7	7598.8	7896.2	8314.0	8616.7	8643.5	8370.2
32.5°	9647.9	9621.1	9149.7	8533.6	8212.2	8431.9	8900.6	9264.9	9280.9	8930.0
35°	12345.1	12313.0	11555.0	10381.8	9334.5	9149.7	9613.1	10044.3	10033.6	9637.2
37.5°	15564.6	15535.2	14536.1	12966.5	11271.0	10234.5	10531.8	10984.4	11051.4	10531.8
40°	18315.4	18205.6	17573.5	16060.2	13842.4	12034.4	11838.9	12138.9	12208.5	11592.5
42.5°	20399.3	20305.5	19984.1	19038.6	16954.8	14696.8	13379.0	13494.2	13571.9	12832.6
45°	21478.7	21457.3	21585.9	21497.5	20126.1	17964.6	15580.7	15101.3	15130.7	14206.7
47.5°	21631.4	21620.7	22207.3	23037.6	22852.8	21650.1	18406.5	17104.8	17000.3	15757.5
50°	20731.4	20710.0	21835.0	23391.2	24674.1	24746.5	21615.3	19362.7	19132.4	17361.9
52.5°	17857.4	17852.1	19700.2	22290.3	25314.3	27457.1	24786.6	21843.0	21457.3	19060.1
55°	13740.6	13839.7	15958.4	19019.9	24146.5	28761.5	27633.9	24596.5	24004.5	20768.9
57.5°	9733.6	9878.2	11972.8	14699.5	20525.2	27990.1	29559.7	27355.3	26717.8	22472.4
60°	5228.4	5357.0	7454.2	10708.6	15270.0	25113.4	30574.8	29749.9	29147.2	24090.2
62.5°	3115.1	3157.9	4025.8	6913.2	10328.2	19185.9	30143.6	31573.9	31078.4	25448.2
65°	2236.5	2244.6	2681.2	4221.3	6270.3	11656.7	27119.6	32447.1	32294.4	26471.4
67.5°	1883.0	1877.6	2059.8	2804.4	4272.2	5839.1	20785.0	31212.3	31860.5	27119.6
70°	1615.1	1623.2	1837.4	2054.4	3211.5	3305.2	10333.6	27175.8	28557.9	27291.0
72.5°	1202.6	1229.4	1427.6	1872.3	2424.0	2274.0	3567.7	20150.2	22649.2	25713.4
75°	849.1	862.5	1004.4	1574.9	1808.0	1655.3	1821.4	10416.6	13620.1	19713.6
77.5°	653.5	677.7	760.7	1100.9	1781.2	1162.5	1114.2	3605.2	5539.1	11908.5
80°	353.6	396.4	549.1	795.5	1250.8	822.3	551.8	1435.7	1877.6	5568.6
82.5°	182.1	203.6	383.0	573.2	712.5	717.8	273.2	597.3	774.1	1719.6
85°	72.3	88.4	257.1	316.1	367.0	353.6	123.2	241.1	278.6	476.8
87.5°	16.1	26.8	93.7	72.3	69.6	75.0	29.5	56.2	53.6	56.2
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°
4805.2	0°	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2	4805.2
4837.3	2.5°	4834.7	4823.9	4794.5	4762.3	4724.8	4703.4	4690.0	4687.3	4668.6	4655.2
4944.5	5°	4915.0	4904.3	4848.0	4781.1	4708.8	4652.5	4598.9	4550.7	4481.1	4467.7
5099.8	7.5°	5075.7	5046.3	4955.2	4864.1	4727.5	4564.1	4365.9	4138.2	3934.7	3873.1
5306.1	10°	5273.9	5233.7	5118.6	4957.9	4655.2	4210.6	3731.1	3286.5	2932.9	2833.8
5549.8	12.5°	5498.9	5464.1	5311.4	5014.1	4352.5	3546.3	2812.4	2260.6	1917.8	1832.1
5809.6	15°	5766.8	5715.9	5504.3	4928.4	3811.5	2694.5	1931.2	1604.4	1481.2	1465.1
6106.9	17.5°	6050.7	5967.7	5675.7	4620.4	3082.9	1915.1	1491.9	1398.2	1344.6	1328.5
6406.9	20°	6310.5	6203.4	5777.5	4154.3	2303.5	1491.9	1336.6	1275.0	1226.7	1208.0
6706.9	22.5°	6570.3	6417.6	5777.5	3519.5	1727.6	1323.2	1226.7	1170.5	1114.2	1090.1
7028.3	25°	6840.8	6637.3	5675.7	2812.4	1390.1	1213.4	1122.3	1060.7	1012.5	983.0
7333.7	27.5°	7103.3	6822.1	5442.7	2142.8	1237.5	1116.9	1025.9	966.9	921.4	900.0
7665.8	30°	7352.4	7004.2	5115.9	1625.8	1138.4	1023.2	937.5	886.6	841.0	819.6
8097.0	32.5°	7689.9	7234.6	4767.7	1333.9	1052.6	934.8	857.1	808.9	768.7	752.7
8656.8	35°	8158.6	7574.7	4467.7	1309.8	980.3	862.5	784.8	739.3	699.1	685.7
9380.0	37.5°	8822.9	8123.8	4309.7	1470.5	921.4	798.2	725.9	677.7	640.2	629.4
10298.8	40°	9642.5	8868.4	4395.4	1631.2	881.2	741.9	672.3	624.1	591.9	578.6
11354.1	42.5°	10614.8	9787.2	4869.5	1754.4	854.4	693.7	621.4	567.8	546.4	541.1
12551.4	45°	11731.7	10796.9	5595.3	1885.6	811.6	648.2	570.5	530.3	514.3	511.6
13853.1	47.5°	13001.3	11905.8	6436.4	2049.0	768.7	605.3	530.3	503.6	490.2	484.8
15211.1	50°	14260.2	13022.8	7301.5	2140.1	733.9	565.2	498.2	476.8	466.1	463.4
16646.7	52.5°	15578.0	14171.8	8000.6	2054.4	704.4	533.0	471.4	455.3	444.6	441.9
17969.9	55°	16834.2	15101.3	8121.1	1743.7	645.5	500.9	441.9	433.9	420.5	420.5
19311.8	57.5°	17916.3	15567.3	7269.4	1280.3	586.6	452.7	412.5	404.5	393.7	391.1
20522.5	60°	18910.1	15433.4	5611.4	862.5	522.3	404.5	375.0	369.6	358.9	345.5
21575.1	62.5°	19469.9	14844.1	3838.3	562.5	458.0	353.6	332.1	329.5	305.3	278.6
22354.6	65°	19681.5	13633.5	2394.6	409.8	383.0	302.7	286.6	281.2	246.4	217.0
22796.5	67.5°	19496.6	11640.7	1208.0	324.1	302.7	251.8	235.7	235.7	211.6	184.8
22769.7	70°	18757.4	8726.5	508.9	259.8	233.0	192.9	192.9	203.6	179.5	150.0
21588.5	72.5°	17153.0	5871.2	270.5	198.2	174.1	136.6	158.0	166.1	142.0	112.5
17669.9	75°	13636.1	3581.1	187.5	147.3	109.8	96.4	120.5	125.9	96.4	75.0
12114.8	77.5°	9326.5	2057.1	125.9	93.7	69.6	56.2	83.0	77.7	50.9	34.8
4671.3	80°	4095.4	857.1	72.3	42.9	26.8	21.4	29.5	21.4	16.1	10.7
640.2	82.5°	479.4	200.9	26.8	16.1	10.7	5.4	2.7	0.0	0.0	0.0
195.5	85°	99.1	24.1	13.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0
34.8	87.5°	18.7	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4805.2
4668.6
4462.3
3843.6
2796.3
1808.0
1449.1
1320.5
1197.3
1076.7
972.3
900.0
822.3
752.7
685.7
626.8
575.9
541.1
508.9
484.8
463.4
441.9
417.8
388.4
342.8
273.2
214.3
182.1
147.3
112.5
72.3
37.5
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