

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: P954003

Luminaire Tested: **GALN-SB7B-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

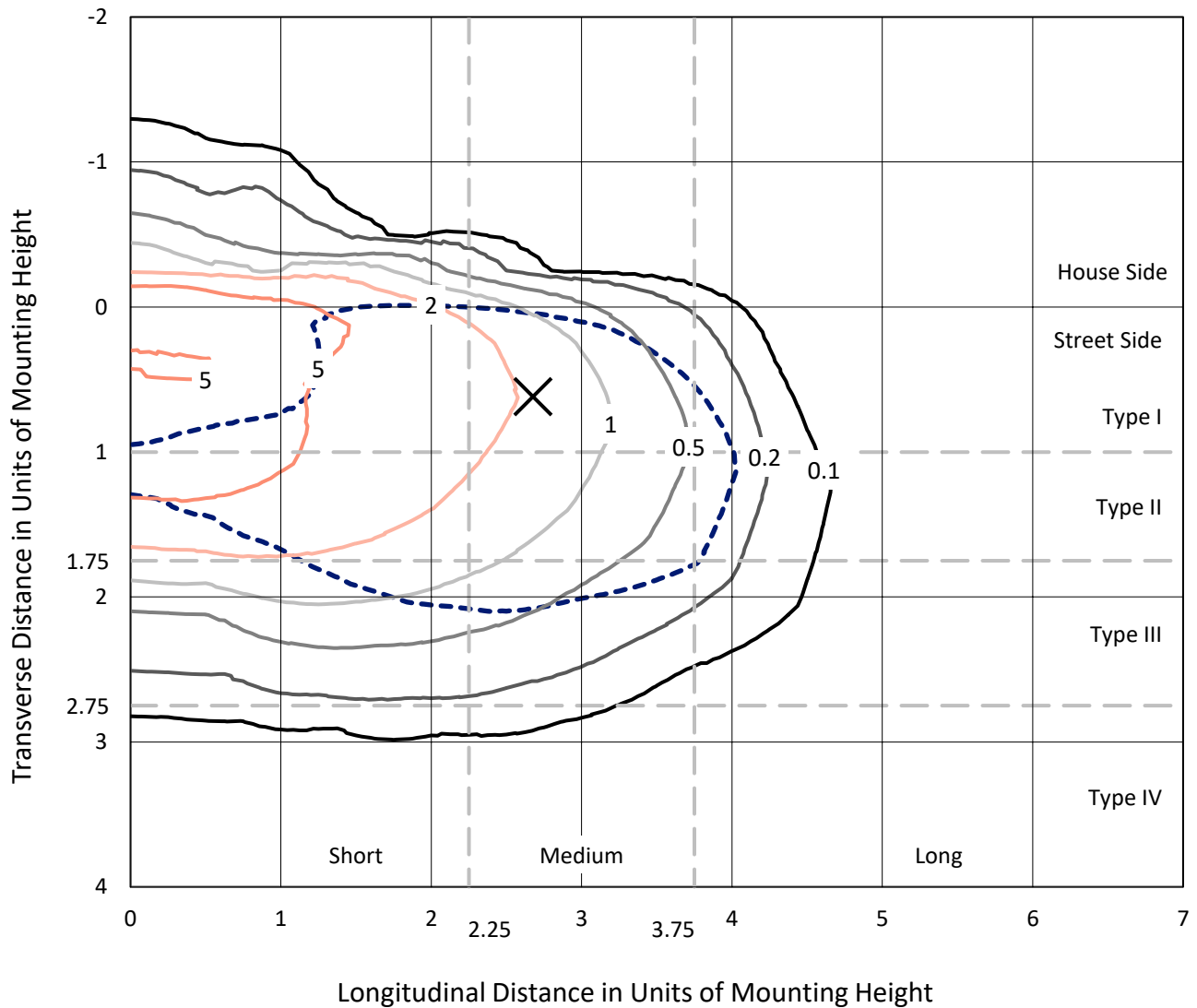
Lumens per Lamp: N/A  
Luminaire Lumens: 31890 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

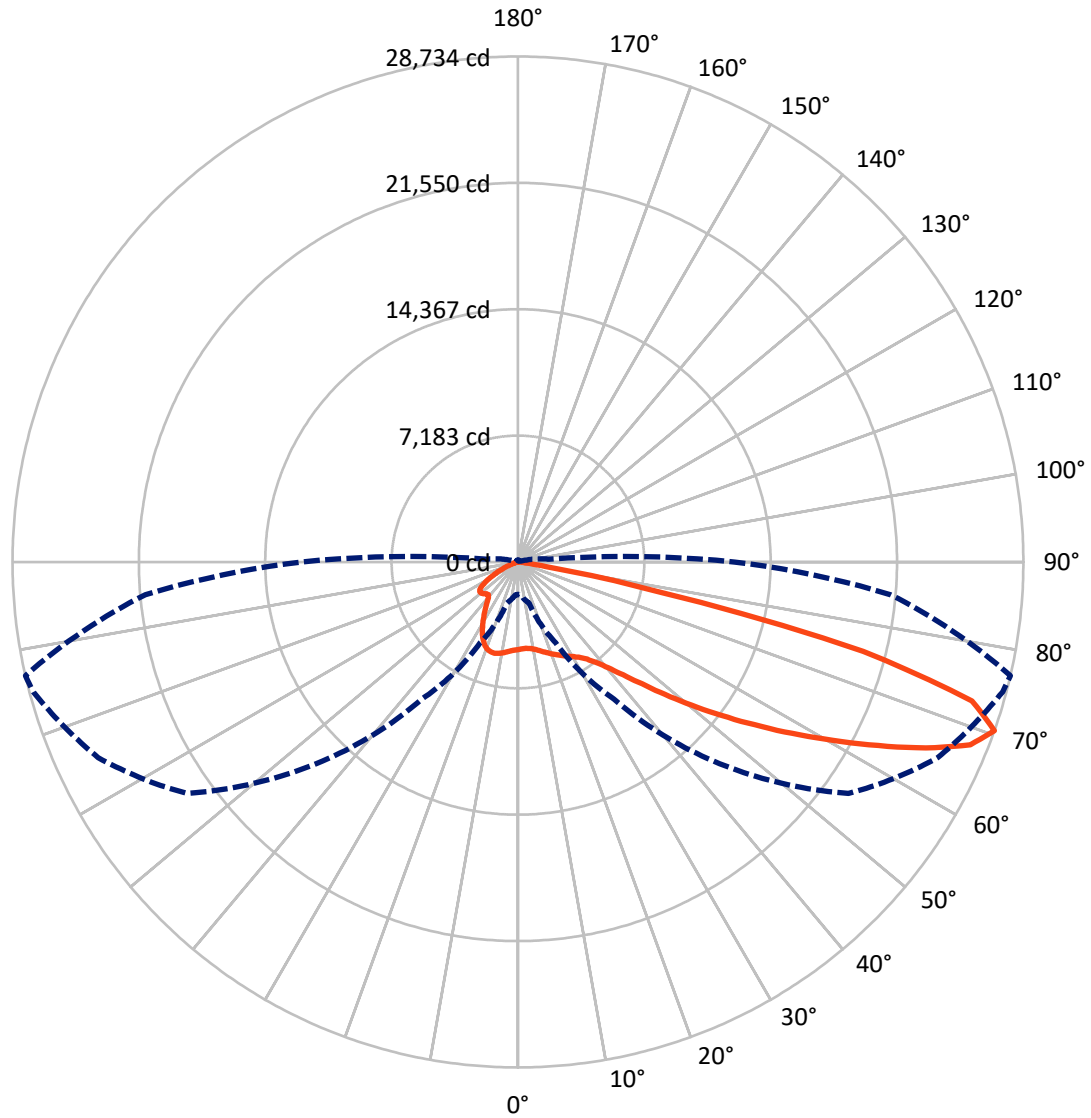
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	3361.7	0.0	3361.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	28528.3	0.0	28528.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	31890.0	0.0	31890.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.7	1.3
10°-20°	1017.7	3.2
20°-30°	1574.1	4.9
30°-40°	2856.3	9.0
40°-50°	5391.5	16.9
50°-60°	7790.3	24.4
60°-70°	8292.6	26.0
70°-80°	4394.5	13.8
80°-90°	144.3	0.5
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°	31890.0	100.0
0°-180°	31890.0	100.0

**Coefficient of Utilization**



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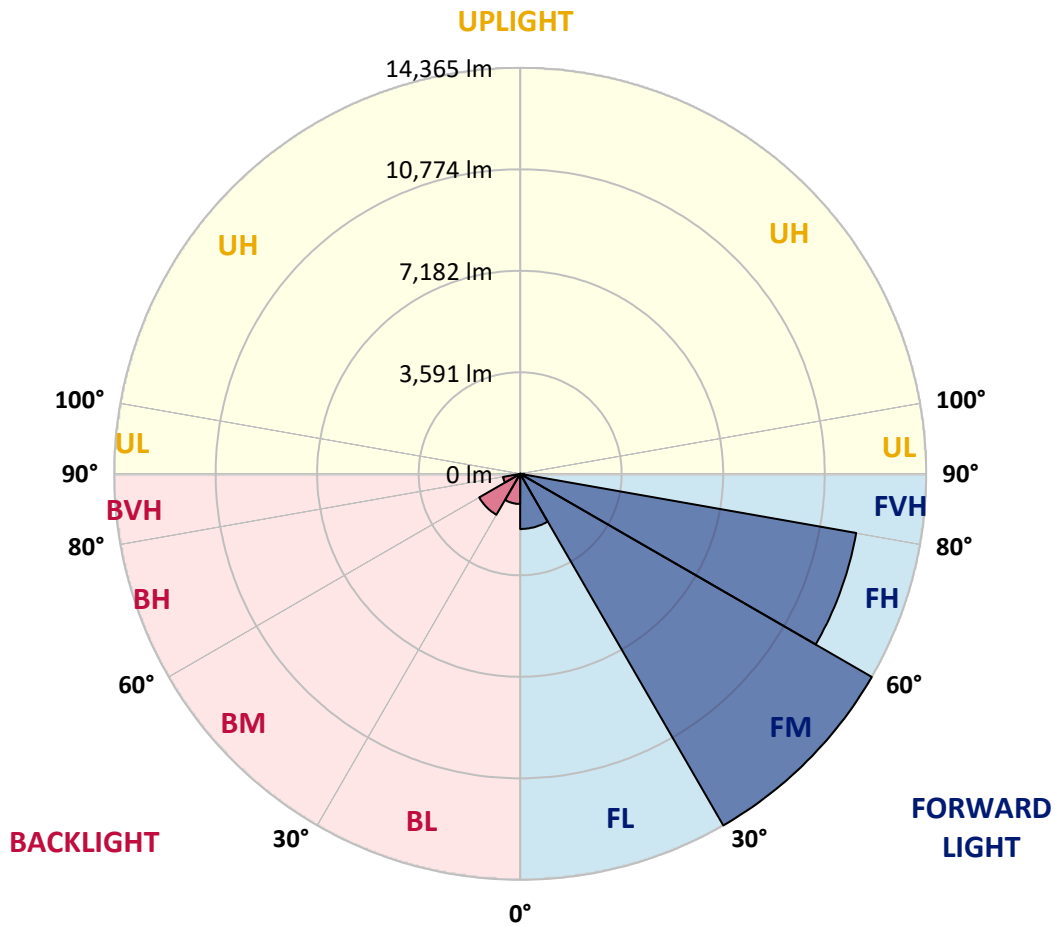
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.4	6.1			
FM (30°-60°)	14364.7	45.0			
FH (60°-80°)	12070.8	37.9			G5
FVH (80°-90°)	140.4	0.4			G2/225
BL (0°-30°)	1068.1	3.3	B3/2500		
BM (30°-60°)	1673.4	5.2	B2/2500		
BH (60°-80°)	616.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3
2.5°	4670.2	4712.5	4706.4	4734.6	4744.7	4785.0	4825.2	4879.6	4940.0	4938.0
5°	4406.4	4448.6	4458.7	4497.0	4545.3	4607.7	4690.3	4799.1	4911.8	4930.0
7.5°	4094.2	4138.5	4164.7	4241.2	4329.8	4458.7	4593.6	4752.7	4940.0	4966.2
10°	3782.1	3822.3	3856.6	3965.3	4106.3	4297.6	4517.1	4746.7	4998.4	5036.7
12.5°	3588.7	3627.0	3665.2	3759.9	3935.1	4168.7	4466.8	4774.9	5095.1	5149.5
15°	3520.2	3554.5	3584.7	3669.3	3832.4	4098.2	4456.7	4833.3	5217.9	5290.4
17.5°	3530.3	3548.4	3568.6	3633.0	3792.1	4066.0	4474.8	4934.0	5362.9	5427.4
20°	3588.7	3598.8	3600.8	3645.1	3786.1	4062.0	4511.1	5030.7	5499.9	5586.5
22.5°	3663.2	3667.3	3663.2	3693.4	3824.3	4092.2	4559.4	5147.5	5652.9	5733.5
25°	4011.6	3935.1	3838.4	3780.0	3888.8	4150.6	4631.9	5304.5	5820.1	5898.6
27.5°	5093.1	4873.6	4527.2	4138.5	4021.7	4235.2	4732.6	5463.6	5989.3	6059.7
30°	6849.2	6561.2	5973.1	5097.1	4448.6	4412.4	4863.5	5622.7	6168.5	6245.0
32.5°	8609.3	8538.8	7860.1	6647.8	5409.3	4807.1	5081.0	5838.2	6406.1	6466.5
35°	10389.6	10246.6	9690.8	8492.5	6889.5	5610.6	5443.5	6120.2	6718.3	6786.7
37.5°	11753.0	11666.4	11322.0	10335.2	8645.6	6851.2	6063.8	6557.2	7171.4	7247.9
40°	12957.3	12917.0	12800.2	12149.7	10609.1	8474.4	7028.4	7233.8	7799.7	7890.4
42.5°	13903.8	13998.4	14064.9	13883.6	12633.0	10327.1	8325.3	8184.4	8675.8	8768.4
45°	14872.4	14904.7	15172.5	15434.3	14642.9	12264.5	9787.4	9298.0	9765.3	9880.1
47.5°	15494.7	15623.6	16094.9	16556.0	16332.5	14185.7	11358.2	10613.1	11028.0	11243.4
50°	15541.1	15784.7	16433.2	17236.7	17563.0	16014.3	13066.0	12111.4	12552.5	12790.1
52.5°	14769.7	15148.3	16153.3	17329.4	18227.6	17563.0	14832.2	13609.7	14175.6	14485.8
55°	11324.0	11819.4	15100.0	16825.9	18253.7	18737.1	16552.0	15170.5	15984.1	16334.5
57.5°	9866.0	10115.7	11871.8	15951.9	17768.4	19210.3	18106.7	16656.7	17951.7	18386.7
60°	8208.5	8536.8	9956.6	14522.0	17109.9	19256.6	19480.2	18573.9	20084.3	20573.7
62.5°	5578.4	5934.9	7346.6	12065.1	16209.7	19234.5	20605.9	20547.5	22454.7	22980.3
65°	3455.8	3679.3	4609.8	9851.9	14951.0	19258.7	21784.1	22944.0	24955.9	25489.6
67.5°	2730.8	2833.5	3318.9	7564.1	12782.0	18714.9	22960.2	25197.6	27310.1	27733.0
70°	1834.6	1897.1	2414.6	5070.9	9509.5	16205.6	22938.0	26329.4	28522.5	28733.9
72.5°	966.7	1015.0	1411.7	2348.2	5743.6	11519.3	19335.2	24976.0	27316.2	26998.0
75°	483.3	563.9	950.5	1192.2	2452.9	6424.3	12006.7	19691.6	21500.1	20267.6
77.5°	366.5	443.1	785.4	785.4	853.9	2162.9	5085.0	10740.0	9906.2	8248.8
80°	233.6	302.1	686.7	594.1	356.5	549.8	1325.1	3008.7	2104.5	1601.0
82.5°	136.9	197.4	571.9	392.7	199.4	203.4	374.6	640.4	545.8	424.9
85°	54.4	128.9	392.7	155.1	78.5	50.3	112.8	136.9	112.8	84.6
87.5°	0.0	30.2	68.5	0.0	6.0	4.0	8.1	10.1	10.1	8.1
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°
4974.3	0°	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3	4974.3
4978.3	2.5°	4996.4	5000.4	5012.5	5014.5	4986.3	4950.1	4936.0	4930.0	4905.8	4903.8
5010.5	5°	5056.8	5075.0	5056.8	5004.5	4879.6	4704.4	4571.5	4462.7	4364.1	4333.9
5121.3	7.5°	5177.7	5195.8	5141.4	4936.0	4621.8	4273.4	3959.3	3737.7	3538.4	3463.9
5256.2	10°	5350.9	5375.0	5203.8	4789.0	4233.2	3673.3	3141.6	2767.1	2475.0	2356.2
5439.5	12.5°	5568.4	5578.4	5238.1	4565.4	3727.7	2928.2	2175.0	1774.2	1514.4	1417.8
5661.0	15°	5808.0	5793.9	5242.1	4261.4	3038.9	2070.3	1419.8	1166.0	1061.3	1029.1
5882.5	17.5°	6059.7	6001.3	5161.6	3822.3	2283.7	1415.8	1053.3	992.8	974.7	966.7
6102.0	20°	6307.4	6176.5	5014.5	3248.4	1639.3	1057.3	956.6	938.5	928.4	924.4
6323.6	22.5°	6533.0	6309.5	4762.8	2581.8	1190.2	934.4	904.2	888.1	870.0	861.9
6539.0	25°	6752.5	6386.0	4408.4	1959.5	952.6	874.0	849.9	819.6	795.5	785.4
6770.6	27.5°	6966.0	6434.3	3965.3	1450.0	849.9	817.6	773.3	731.0	712.9	708.9
7018.3	30°	7193.6	6450.4	3461.8	1081.4	787.4	747.1	682.7	634.4	624.3	626.3
7352.6	32.5°	7471.5	6474.6	2954.4	886.1	735.1	662.6	586.0	535.7	527.6	535.7
7840.0	35°	7803.8	6522.9	2465.0	815.6	688.7	576.0	493.4	451.1	443.1	449.1
8464.3	37.5°	8254.9	6601.5	2007.8	801.5	650.5	503.5	414.9	380.6	380.6	382.6
9229.6	40°	8855.0	6810.9	1599.0	791.5	630.3	449.1	350.4	336.3	342.4	346.4
10204.3	42.5°	9586.0	7256.0	1323.1	779.4	608.2	424.9	318.2	312.2	322.2	326.2
11372.3	45°	10405.7	7819.9	1226.4	759.2	588.1	441.0	304.1	296.0	308.1	310.1
12681.4	47.5°	11253.5	8371.7	1214.4	737.1	567.9	465.2	300.1	281.9	296.0	298.1
14079.0	50°	12111.4	8732.1	1226.4	702.8	535.7	465.2	302.1	267.8	279.9	286.0
15529.0	52.5°	12975.4	8897.3	1218.4	628.3	479.3	437.0	302.1	255.8	267.8	271.9
17095.8	55°	13813.1	8865.1	1095.5	517.6	406.8	386.7	294.0	245.7	253.7	255.8
18576.0	57.5°	14475.7	8416.0	868.0	402.8	330.3	322.2	267.8	233.6	239.7	237.6
19933.3	60°	14822.1	7429.2	620.3	310.1	259.8	253.7	235.6	217.5	221.5	211.5
21083.2	62.5°	14826.1	6124.2	414.9	245.7	207.4	201.4	201.4	195.3	191.3	171.2
21973.4	65°	14509.9	4676.2	275.9	195.3	167.2	157.1	169.2	167.2	153.1	124.9
22245.2	67.5°	13793.0	3065.1	209.4	153.1	128.9	122.8	134.9	141.0	130.9	104.7
21254.4	70°	12318.9	1784.3	173.2	118.8	96.7	90.6	108.7	120.8	108.7	84.6
18167.1	72.5°	10232.5	962.6	141.0	88.6	66.5	60.4	86.6	98.7	86.6	62.4
11656.3	75°	6639.7	515.6	108.7	58.4	34.2	38.3	64.4	72.5	60.4	40.3
3421.6	77.5°	2229.4	227.6	68.5	28.2	16.1	16.1	38.3	44.3	28.2	14.1
622.3	80°	497.4	94.7	28.2	12.1	6.0	6.0	8.1	8.1	4.0	0.0
191.3	82.5°	163.1	38.3	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
48.3	85°	62.4	14.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.1	87.5°	24.2	2.0	0.0	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>
4974.3
4907.8
4315.7
3433.7
2305.9
1387.6
1029.1
964.6
920.3
859.9
781.4
704.9
626.3
533.7
447.1
380.6
346.4
326.2
312.2
300.1
288.0
271.9
255.8
237.6
209.4
165.1
120.8
102.7
80.6
60.4
36.2
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