

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: P954442

Luminaire Tested: **GALN-SB7C-940-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954442  
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-940-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

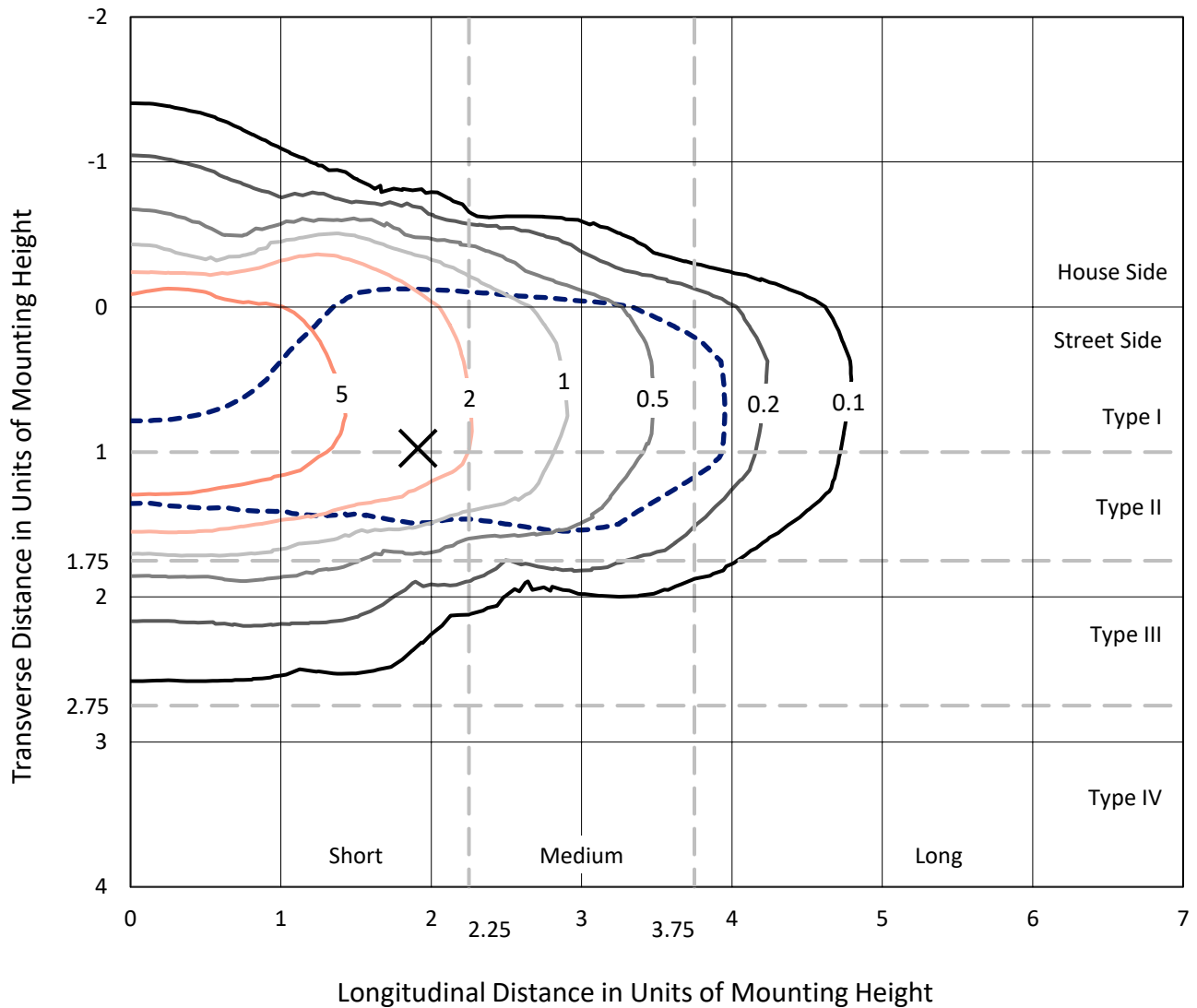
Lumens per Lamp: N/A  
Luminaire Lumens: 29495 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

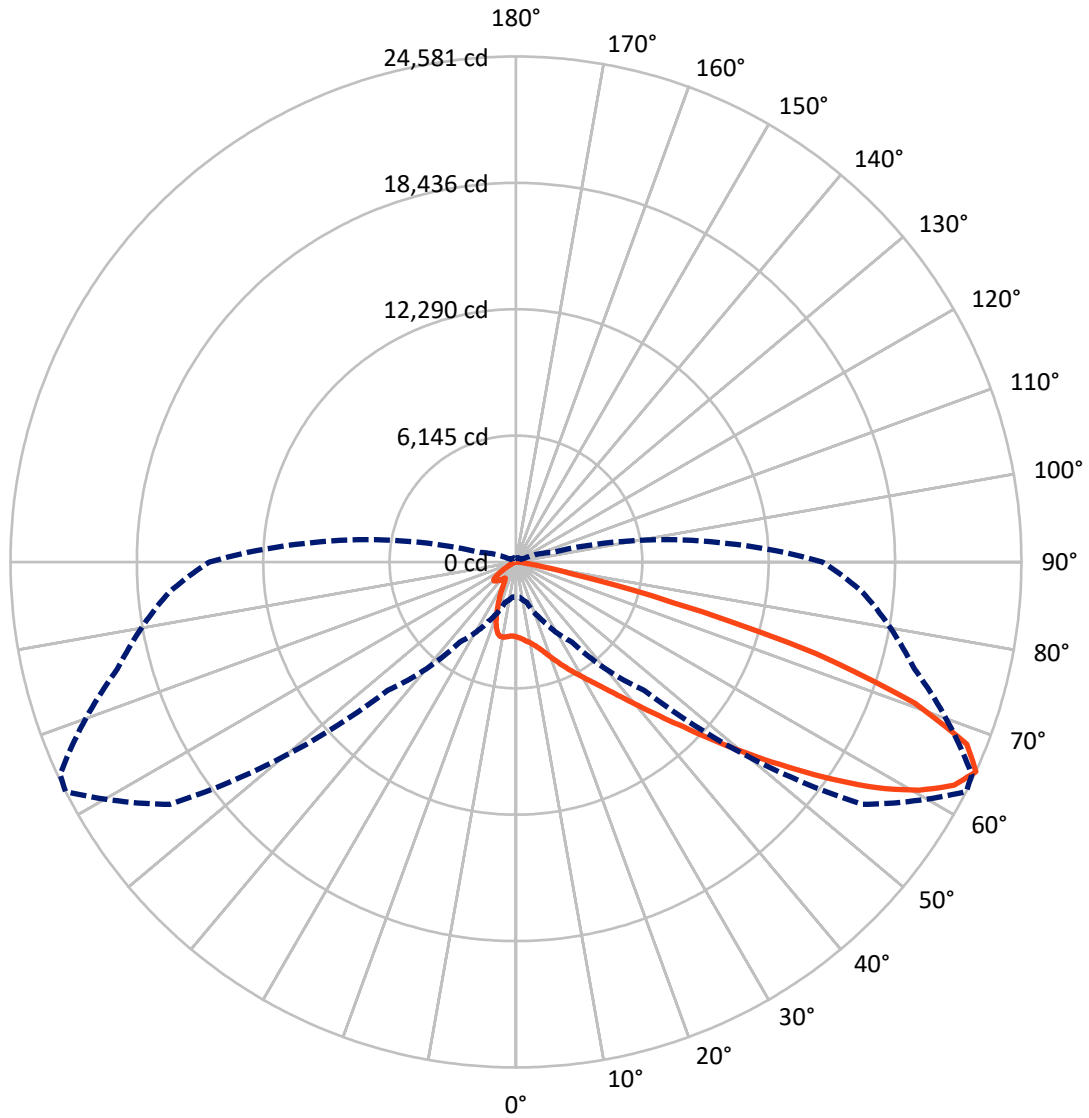
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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
<b>House Side</b>	Lumens	4335.5	0.0	4335.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	25159.5	0.0	25159.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	29495.0	0.0	29495.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.0	1.2
10°-20°	951.6	3.2
20°-30°	1657.1	5.6
30°-40°	2986.7	10.1
40°-50°	5923.5	20.1
50°-60°	8068.8	27.4
60°-70°	6440.4	21.8
70°-80°	2914.4	9.9
80°-90°	209.5	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°	29495.0	100.0
0°-180°	29495.0	100.0

**Coefficient of Utilization**



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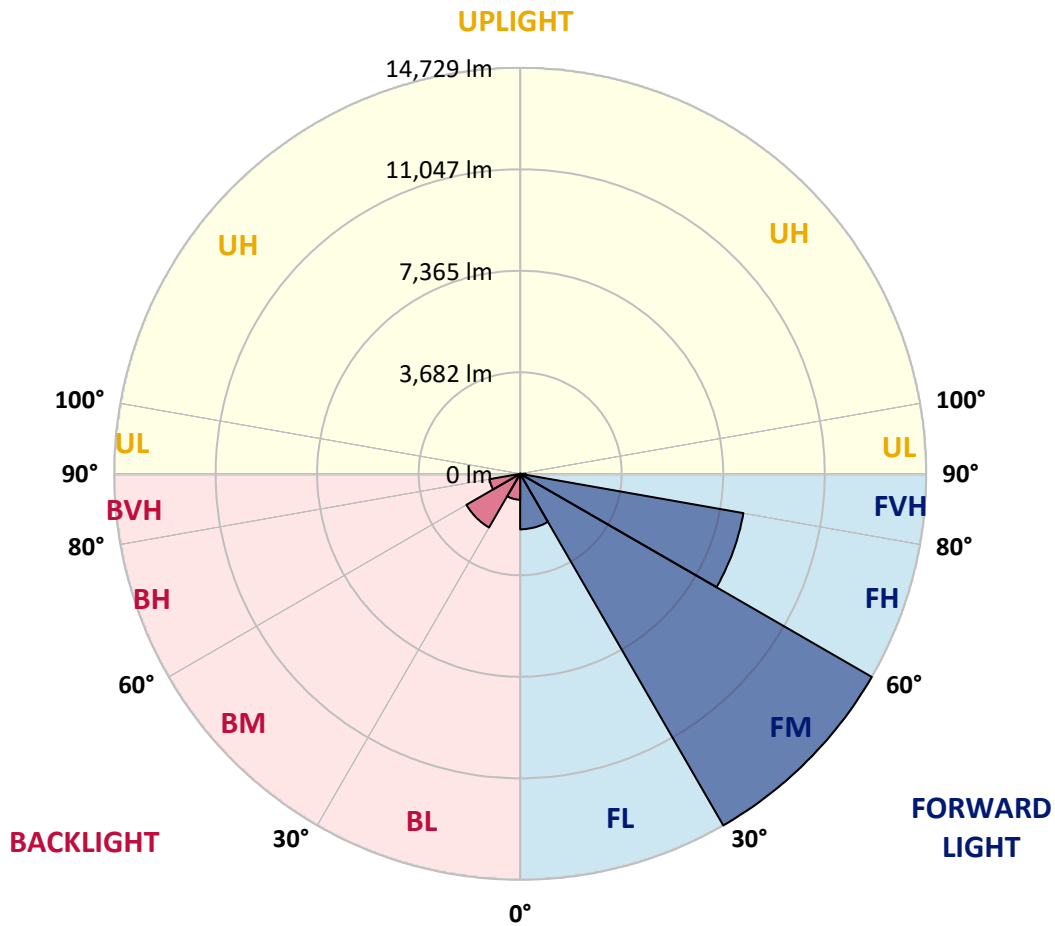
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.4	6.8			
FM (30°-60°)	14729.1	49.9			
FH (60°-80°)	8223.1	27.9			G4/12000
FVH (80°-90°)	193.9	0.7			G2/225
BL (0°-30°)	938.3	3.2	B2/1000		
BM (30°-60°)	2249.9	7.6	B2/2500		
BH (60°-80°)	1131.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.5	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°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
2.5°	3725.5	3715.3	3729.5	3723.4	3719.4	3711.3	3707.2	3703.1	3695.0	3688.9
5°	3735.6	3729.5	3743.7	3755.9	3768.1	3780.2	3786.3	3794.5	3786.3	3770.1
7.5°	3650.4	3646.3	3676.8	3713.3	3768.1	3814.7	3865.5	3893.9	3895.9	3889.8
10°	3644.3	3634.2	3664.6	3709.2	3780.2	3863.4	3952.7	4013.6	4021.7	4048.1
12.5°	3739.7	3729.5	3772.1	3820.8	3893.9	3981.1	4090.7	4175.9	4188.1	4224.6
15°	3900.0	3885.8	3934.5	3997.4	4090.7	4190.1	4305.8	4382.9	4393.0	4437.7
17.5°	4086.6	4072.4	4129.3	4196.2	4297.7	4433.6	4567.5	4652.8	4664.9	4693.4
20°	4326.1	4307.8	4352.5	4413.3	4520.9	4683.2	4843.5	4965.3	4963.2	4963.2
22.5°	4604.1	4575.7	4614.2	4662.9	4764.4	4961.2	5174.3	5318.3	5318.3	5261.5
25°	4902.4	4873.9	4916.6	4961.2	5050.5	5273.7	5523.3	5701.8	5709.9	5612.5
27.5°	5275.7	5239.2	5271.7	5324.4	5377.2	5604.4	5900.7	6107.6	6111.7	5961.6
30°	5994.0	5890.5	5789.1	5732.3	5756.6	5981.8	6298.4	6527.7	6548.0	6341.0
32.5°	7308.9	7288.6	6931.5	6464.8	6221.3	6387.7	6742.8	7018.7	7030.9	6765.1
35°	9352.2	9327.9	8753.6	7864.9	7071.5	6931.5	7282.5	7609.2	7601.1	7300.8
37.5°	11791.2	11768.9	11012.0	9823.0	8538.5	7753.3	7978.5	8321.4	8372.1	7978.5
40°	13875.1	13791.9	13313.1	12166.6	10486.5	9116.8	8968.7	9196.0	9248.7	8782.0
42.5°	15453.8	15382.8	15139.3	14423.0	12844.3	11133.8	10135.5	10222.7	10281.5	9721.5
45°	16271.5	16255.3	16352.7	16285.7	15246.8	13609.3	11803.4	11440.2	11462.5	10762.4
47.5°	16387.2	16379.1	16823.4	17452.5	17312.4	16401.4	13944.1	12958.0	12878.8	11937.3
50°	15705.4	15689.2	16541.4	17720.3	18692.2	18747.0	16375.0	14668.5	14494.0	13152.8
52.5°	13528.1	13524.1	14924.2	16886.3	19177.2	20800.5	18777.5	16547.5	16255.3	14439.2
55°	10409.4	10484.5	12089.5	14408.8	18292.5	21788.7	20934.4	18633.4	18185.0	15733.8
57.5°	7373.8	7483.4	9070.2	11135.8	15549.1	21204.3	22393.4	20723.4	20240.5	17024.3
60°	3960.8	4058.2	5647.0	8112.4	11568.0	19025.0	23162.4	22537.4	22080.9	18249.9
62.5°	2359.9	2392.3	3049.8	5237.2	7824.3	14534.6	22835.7	23919.3	23543.9	19278.7
65°	1694.3	1700.4	2031.1	3197.9	4750.2	8830.7	20544.8	24580.8	24465.1	20053.8
67.5°	1426.5	1422.4	1560.4	2124.5	3236.4	4423.5	15746.0	23645.3	24136.4	20544.8
70°	1223.6	1229.6	1392.0	1556.3	2432.9	2503.9	7828.3	20587.4	21634.5	20674.7
72.5°	911.1	931.4	1081.5	1418.4	1836.4	1722.7	2702.8	15265.1	17158.2	19479.5
75°	643.2	653.4	760.9	1193.1	1369.7	1254.0	1379.8	7891.2	10318.1	14934.3
77.5°	495.1	513.4	576.3	834.0	1349.4	880.6	844.1	2731.2	4196.2	9021.5
80°	267.8	300.3	416.0	602.6	947.6	622.9	418.0	1087.6	1422.4	4218.5
82.5°	138.0	154.2	290.2	434.2	539.7	543.8	207.0	452.5	586.4	1302.7
85°	54.8	67.0	194.8	239.4	278.0	267.8	93.3	182.6	211.0	361.2
87.5°	12.2	20.3	71.0	54.8	52.8	56.8	22.3	42.6	40.6	42.6
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°
3640.2	0°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
3664.6	2.5°	3662.6	3654.4	3632.1	3607.8	3579.4	3563.1	3553.0	3551.0	3536.8	3526.6
3745.8	5°	3723.4	3715.3	3672.7	3622.0	3567.2	3524.6	3484.0	3447.5	3394.7	3384.6
3863.4	7.5°	3845.2	3822.9	3753.9	3684.9	3581.4	3457.6	3307.5	3135.0	2980.8	2934.1
4019.7	10°	3995.3	3964.9	3877.6	3755.9	3526.6	3189.8	2826.6	2489.7	2221.9	2146.8
4204.3	12.5°	4165.8	4139.4	4023.7	3798.5	3297.3	2686.6	2130.6	1712.6	1452.8	1387.9
4401.2	15°	4368.7	4330.1	4169.8	3733.6	2887.4	2041.3	1463.0	1215.4	1122.1	1109.9
4626.4	17.5°	4583.8	4520.9	4299.7	3500.2	2335.5	1450.8	1130.2	1059.2	1018.6	1006.4
4853.7	20°	4780.6	4699.4	4376.8	3147.2	1745.0	1130.2	1012.5	965.9	929.3	915.1
5080.9	22.5°	4977.4	4861.8	4376.8	2666.3	1308.8	1002.4	929.3	886.7	844.1	825.9
5324.4	25°	5182.4	5028.2	4299.7	2130.6	1053.1	919.2	850.2	803.5	767.0	744.7
5555.7	27.5°	5381.2	5168.2	4123.2	1623.3	937.5	846.1	777.2	732.5	698.0	681.8
5807.3	30°	5569.9	5306.1	3875.6	1231.7	862.4	775.1	710.2	671.6	637.1	620.9
6134.0	32.5°	5825.6	5480.7	3611.8	1010.5	797.4	708.2	649.3	612.8	582.4	570.2
6558.1	35°	6180.7	5738.3	3384.6	992.2	742.7	653.4	594.5	560.0	529.6	519.5
7106.0	37.5°	6683.9	6154.3	3264.9	1114.0	698.0	604.7	549.9	513.4	485.0	476.8
7802.0	40°	7304.8	6718.4	3329.8	1235.7	667.6	562.1	509.3	472.8	448.4	438.3
8601.4	42.5°	8041.4	7414.4	3688.9	1329.1	647.3	525.5	470.8	430.2	413.9	409.9
9508.5	45°	8887.5	8179.4	4238.8	1428.5	614.8	491.0	432.2	401.8	389.6	387.6
10494.6	47.5°	9849.3	9019.4	4876.0	1552.3	582.4	458.6	401.8	381.5	371.3	367.3
11523.4	50°	10803.0	9865.6	5531.4	1621.3	556.0	428.1	377.4	361.2	353.1	351.0
12611.0	52.5°	11801.4	10736.1	6061.0	1556.3	533.7	403.8	357.1	345.0	336.8	334.8
13613.4	55°	12753.0	11440.2	6152.3	1321.0	489.0	379.4	334.8	328.7	318.6	318.6
14630.0	57.5°	13572.8	11793.2	5507.0	969.9	444.4	342.9	312.5	306.4	298.3	296.3
15547.1	60°	14325.6	11691.8	4251.0	653.4	395.7	306.4	284.1	280.0	271.9	261.8
16344.6	62.5°	14749.7	11245.4	2907.7	426.1	347.0	267.8	251.6	249.6	231.3	211.0
16935.0	65°	14910.0	10328.2	1814.0	310.5	290.2	229.3	217.1	213.1	186.7	164.4
17269.8	67.5°	14770.0	8818.6	915.1	245.5	229.3	190.7	178.6	178.6	160.3	140.0
17249.5	70°	14209.9	6610.9	385.5	196.8	176.5	146.1	146.1	154.2	136.0	113.6
16354.7	72.5°	12994.5	4447.8	204.9	150.2	131.9	103.5	119.7	125.8	107.5	85.2
13386.1	75°	10330.2	2712.9	142.0	111.6	83.2	73.0	91.3	95.4	73.0	56.8
9177.7	77.5°	7065.4	1558.4	95.4	71.0	52.8	42.6	62.9	58.8	38.6	26.4
3538.8	80°	3102.5	649.3	54.8	32.5	20.3	16.2	22.3	16.2	12.2	8.1
485.0	82.5°	363.2	152.2	20.3	12.2	8.1	4.1	2.0	0.0	0.0	0.0
148.1	85°	75.1	18.3	10.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
26.4	87.5°	14.2	4.1	2.0	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

180°  
3640.2  
3536.8  
3380.5  
2911.8  
2118.4  
1369.7  
1097.8  
1000.4  
907.0  
815.7  
736.6  
681.8  
622.9  
570.2  
519.5  
474.8  
436.3  
409.9  
385.5  
367.3  
351.0  
334.8  
316.5  
294.2  
259.7  
207.0  
162.3  
138.0  
111.6  
85.2  
54.8  
28.4  
8.1  
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