

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: P949906

Luminaire Tested: **GALN-SB4C-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949906
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-SB4C-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 22938 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

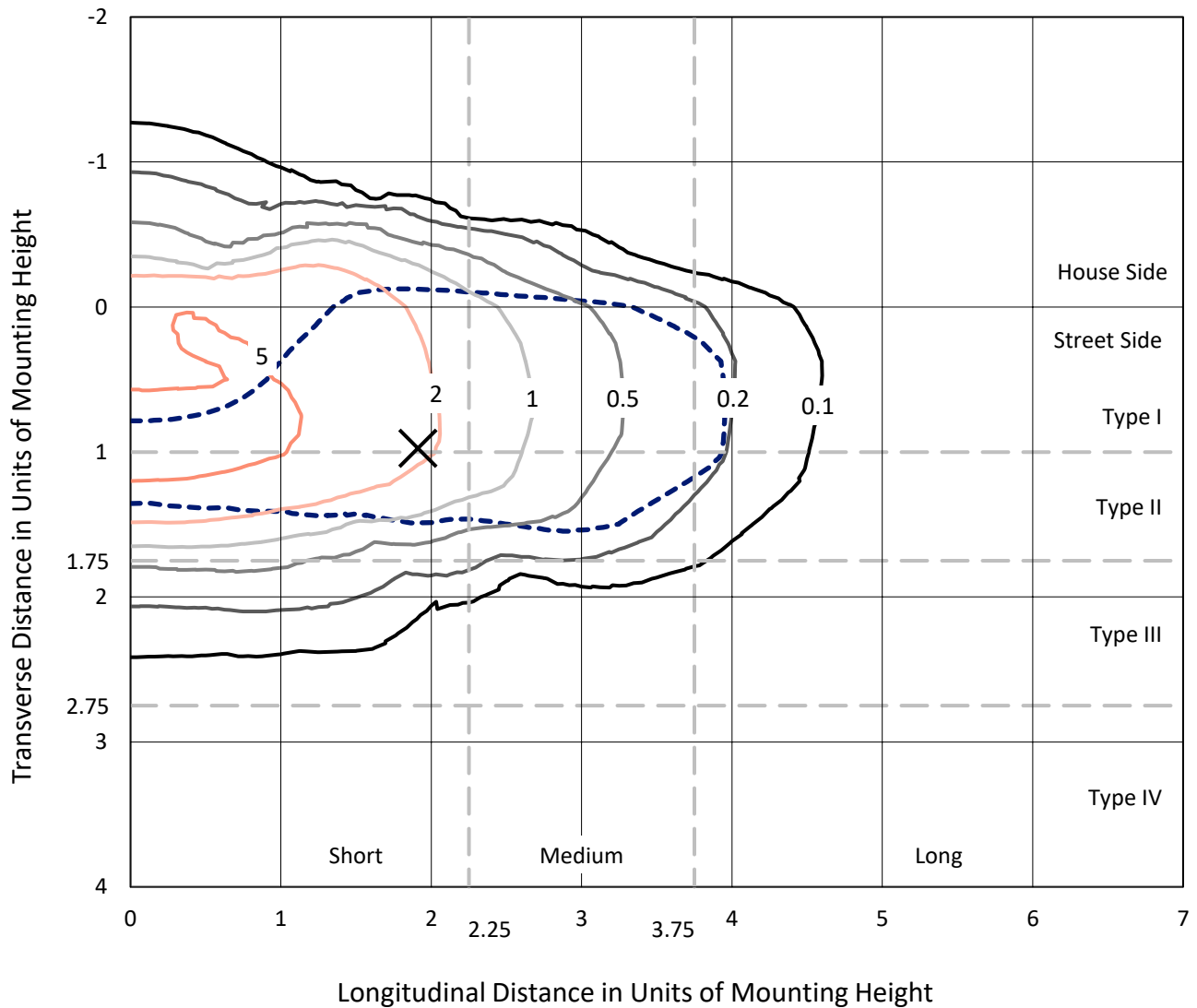
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

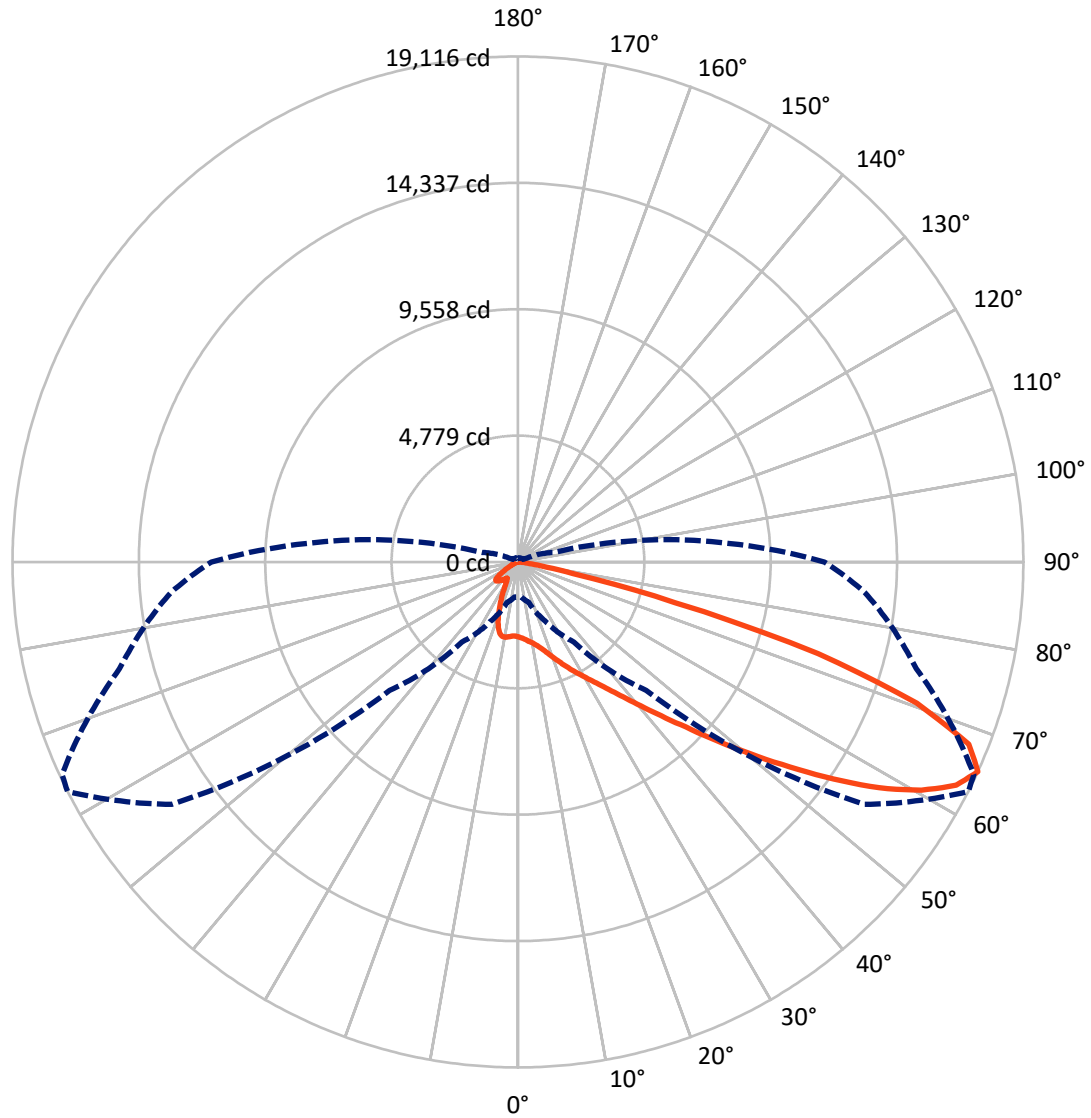
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3371.7	0.0	3371.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19566.3	0.0	19566.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	22938.0	0.0	22938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.7	1.2
10°-20°	740.1	3.2
20°-30°	1288.7	5.6
30°-40°	2322.7	10.1
40°-50°	4606.6	20.1
50°-60°	6275.0	27.4
60°-70°	5008.7	21.8
70°-80°	2266.5	9.9
80°-90°	162.9	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°	22938.0	100.0
0°-180°	22938.0	100.0

Coefficient of Utilization



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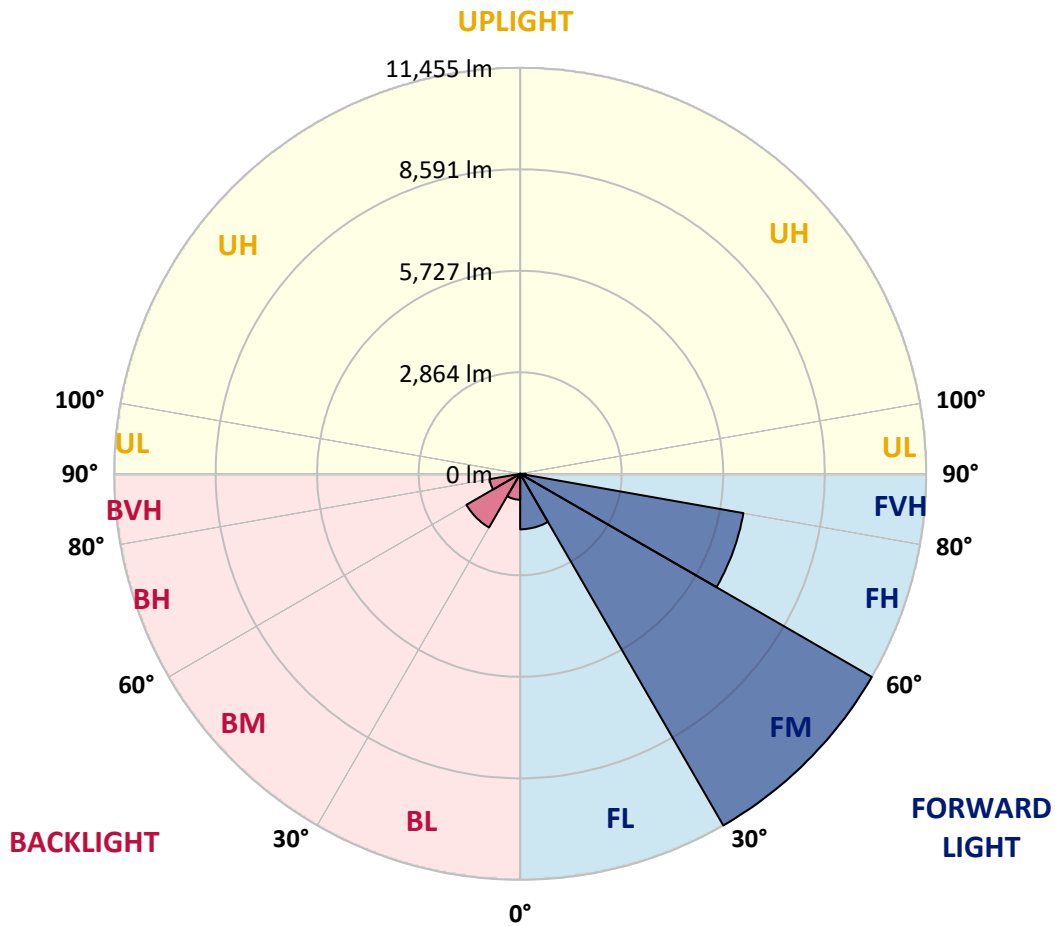
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1565.8	6.8			
FM (30°-60°)	11454.7	49.9			
FH (60°-80°)	6395.0	27.9			G3/7500
FVH (80°-90°)	150.8	0.7			G2/225
BL (0°-30°)	729.7	3.2	B2/1000		
BM (30°-60°)	1749.7	7.6	B2/2500		
BH (60°-80°)	880.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0
2.5°	2897.3	2889.4	2900.4	2895.7	2892.5	2886.2	2883.1	2879.9	2873.6	2868.9
5°	2905.1	2900.4	2911.5	2920.9	2930.4	2939.9	2944.6	2950.9	2944.6	2932.0
7.5°	2838.9	2835.7	2859.4	2887.8	2930.4	2966.7	3006.1	3028.2	3029.8	3025.1
10°	2834.1	2826.2	2849.9	2884.6	2939.9	3004.6	3074.0	3121.3	3127.7	3148.2
12.5°	2908.3	2900.4	2933.6	2971.4	3028.2	3096.1	3181.3	3247.6	3257.1	3285.5
15°	3033.0	3021.9	3059.8	3108.7	3181.3	3258.6	3348.6	3408.5	3416.4	3451.1
17.5°	3178.1	3167.1	3211.3	3263.4	3342.3	3448.0	3552.1	3618.4	3627.9	3650.0
20°	3364.4	3350.2	3384.9	3432.2	3515.8	3642.1	3766.8	3861.4	3859.9	3859.9
22.5°	3580.5	3558.5	3588.4	3626.3	3705.2	3858.3	4024.0	4136.0	4136.0	4091.8
25°	3812.5	3790.4	3823.6	3858.3	3927.7	4101.3	4295.4	4434.3	4440.6	4364.8
27.5°	4102.9	4074.5	4099.7	4140.7	4181.8	4358.5	4588.9	4749.9	4753.0	4636.2
30°	4661.5	4581.0	4502.1	4457.9	4476.9	4652.0	4898.2	5076.5	5092.3	4931.3
32.5°	5684.1	5668.3	5390.5	5027.6	4838.2	4967.6	5243.8	5458.4	5467.9	5261.1
35°	7273.1	7254.2	6807.6	6116.4	5499.4	5390.5	5663.5	5917.6	5911.3	5677.7
37.5°	9169.9	9152.6	8564.0	7639.2	6640.3	6029.6	6204.8	6471.5	6510.9	6204.8
40°	10790.6	10725.9	10353.4	9461.9	8155.2	7090.1	6974.9	7151.6	7192.7	6829.7
42.5°	12018.3	11963.0	11773.7	11216.6	9988.9	8658.6	7882.3	7950.1	7995.9	7560.3
45°	12654.2	12641.6	12717.3	12665.3	11857.3	10583.8	9179.4	8896.9	8914.3	8369.9
47.5°	12744.2	12737.8	13083.4	13572.6	13463.7	12755.2	10844.2	10077.3	10015.7	9283.5
50°	12213.9	12201.3	12864.1	13780.9	14536.8	14579.4	12734.7	11407.6	11271.9	10228.8
52.5°	10520.7	10517.6	11606.4	13132.4	14913.9	16176.4	14603.1	12868.8	12641.6	11229.2
55°	8095.3	8153.7	9401.9	11205.6	14225.9	16944.9	16280.5	14491.0	14142.3	12236.0
57.5°	5734.6	5819.8	7053.8	8660.2	12092.4	16490.4	17415.1	16116.4	15740.8	13239.7
60°	3080.3	3156.1	4391.7	6309.0	8996.3	14795.6	18013.2	17527.2	17172.1	14192.8
62.5°	1835.2	1860.5	2371.8	4072.9	6084.9	11303.4	17759.1	18601.8	18309.9	14992.8
65°	1317.7	1322.4	1579.6	2487.0	3694.2	6867.6	15977.5	19116.2	19026.3	15595.7
67.5°	1109.4	1106.2	1213.5	1652.2	2517.0	3440.1	12245.5	18388.8	18770.6	15977.5
70°	951.6	956.3	1082.5	1210.3	1892.1	1947.3	6088.0	16010.7	16824.9	16078.5
72.5°	708.5	724.3	841.1	1103.0	1428.1	1339.7	2101.9	11871.5	13343.8	15149.1
75°	500.2	508.1	591.8	927.9	1065.2	975.2	1073.1	6137.0	8024.3	11614.3
77.5°	385.0	399.2	448.2	648.6	1049.4	684.9	656.5	2124.0	3263.4	7015.9
80°	208.3	233.5	323.5	468.7	736.9	484.5	325.1	845.8	1106.2	3280.7
82.5°	107.3	119.9	225.7	337.7	419.8	422.9	161.0	351.9	456.1	1013.1
85°	42.6	52.1	151.5	186.2	216.2	208.3	72.6	142.0	164.1	280.9
87.5°	9.5	15.8	55.2	42.6	41.0	44.2	17.4	33.1	31.6	33.1
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°
2831.0	0°	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0	2831.0
2849.9	2.5°	2848.3	2842.0	2824.7	2805.7	2783.6	2771.0	2763.1	2761.5	2750.5	2742.6
2913.0	5°	2895.7	2889.4	2856.2	2816.8	2774.2	2741.0	2709.5	2681.1	2640.0	2632.2
3004.6	7.5°	2990.4	2973.0	2919.4	2865.7	2785.2	2689.0	2572.2	2438.1	2318.1	2281.8
3126.1	10°	3107.1	3083.5	3015.6	2920.9	2742.6	2480.7	2198.2	1936.2	1727.9	1669.6
3269.7	12.5°	3239.7	3219.2	3129.2	2954.1	2564.3	2089.3	1656.9	1331.9	1129.9	1079.4
3422.7	15°	3397.5	3367.5	3242.8	2903.6	2245.5	1587.5	1137.8	945.2	872.6	863.2
3597.9	17.5°	3564.8	3515.8	3343.8	2722.1	1816.3	1128.3	879.0	823.7	792.2	782.7
3774.6	20°	3717.8	3654.7	3403.8	2447.5	1357.1	879.0	787.4	751.1	722.7	711.7
3951.4	22.5°	3870.9	3781.0	3403.8	2073.5	1017.8	779.5	722.7	689.6	656.5	642.3
4140.7	25°	4030.3	3910.4	3343.8	1656.9	819.0	714.8	661.2	624.9	596.5	579.1
4320.6	27.5°	4184.9	4019.2	3206.6	1262.4	729.0	658.0	604.4	569.7	542.8	530.2
4516.3	30°	4331.7	4126.5	3014.0	957.9	670.7	602.8	552.3	522.3	495.5	482.9
4770.4	32.5°	4530.5	4262.3	2808.9	785.9	620.2	550.7	505.0	476.6	452.9	443.4
5100.2	35°	4806.7	4462.7	2632.2	771.7	577.6	508.1	462.4	435.5	411.9	404.0
5526.3	37.5°	5198.0	4786.2	2539.0	866.3	542.8	470.3	427.6	399.2	377.1	370.8
6067.5	40°	5680.9	5224.9	2589.5	961.0	519.2	437.1	396.1	367.7	348.7	340.9
6689.3	42.5°	6253.7	5766.1	2868.9	1033.6	503.4	408.7	366.1	334.5	321.9	318.8
7394.6	45°	6911.8	6361.0	3296.5	1110.9	478.1	381.9	336.1	312.4	303.0	301.4
8161.6	47.5°	7659.7	7014.3	3792.0	1207.2	452.9	356.6	312.4	296.7	288.8	285.6
8961.6	50°	8401.4	7672.4	4301.7	1260.8	432.4	333.0	293.5	280.9	274.6	273.0
9807.4	52.5°	9177.8	8349.3	4713.6	1210.3	415.0	314.0	277.7	268.3	262.0	260.4
10587.0	55°	9917.9	8896.9	4784.6	1027.3	380.3	295.1	260.4	255.6	247.8	247.8
11377.6	57.5°	10555.4	9171.5	4282.8	754.3	345.6	266.7	243.0	238.3	232.0	230.4
12090.9	60°	11140.9	9092.6	3306.0	508.1	307.7	238.3	220.9	217.8	211.5	203.6
12711.0	62.5°	11470.7	8745.4	2261.3	331.4	269.8	208.3	195.7	194.1	179.9	164.1
13170.2	65°	11595.4	8032.2	1410.8	241.4	225.7	178.3	168.8	165.7	145.2	127.8
13430.6	67.5°	11486.5	6858.1	711.7	190.9	178.3	148.3	138.9	138.9	124.7	108.9
13414.8	70°	11050.9	5141.2	299.8	153.1	137.3	113.6	113.6	119.9	105.7	88.4
12718.9	72.5°	10105.7	3459.0	159.4	116.8	102.6	80.5	93.1	97.8	83.6	66.3
10410.3	75°	8033.7	2109.8	110.5	86.8	64.7	56.8	71.0	74.2	56.8	44.2
7137.4	77.5°	5494.7	1211.9	74.2	55.2	41.0	33.1	48.9	45.8	30.0	20.5
2752.1	80°	2412.8	505.0	42.6	25.2	15.8	12.6	17.4	12.6	9.5	6.3
377.1	82.5°	282.5	118.4	15.8	9.5	6.3	3.2	1.6	0.0	0.0	0.0
115.2	85°	58.4	14.2	7.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0
20.5	87.5°	11.0	3.2	1.6	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°
2831.0
2750.5
2629.0
2264.5
1647.5
1065.2
853.7
778.0
705.4
634.4
572.8
530.2
484.5
443.4
404.0
369.3
339.3
318.8
299.8
285.6
273.0
260.4
246.2
228.8
202.0
161.0
126.2
107.3
86.8
66.3
42.6
22.1
6.3
0.0
0.0
0.0
0.0

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