

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: P951586

Luminaire Tested: **GALN-SB5C-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951586
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-SB5C-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 20951 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

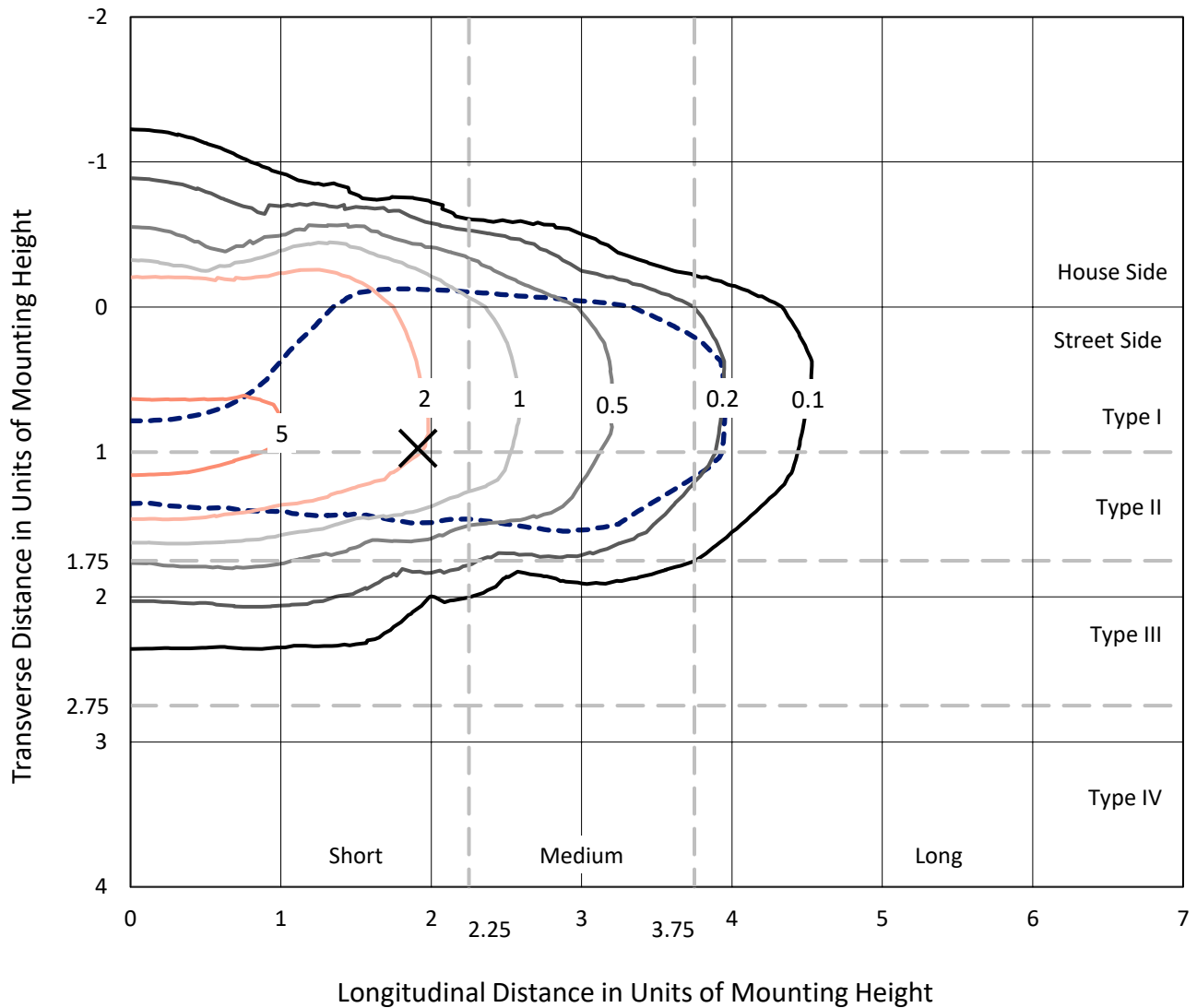
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

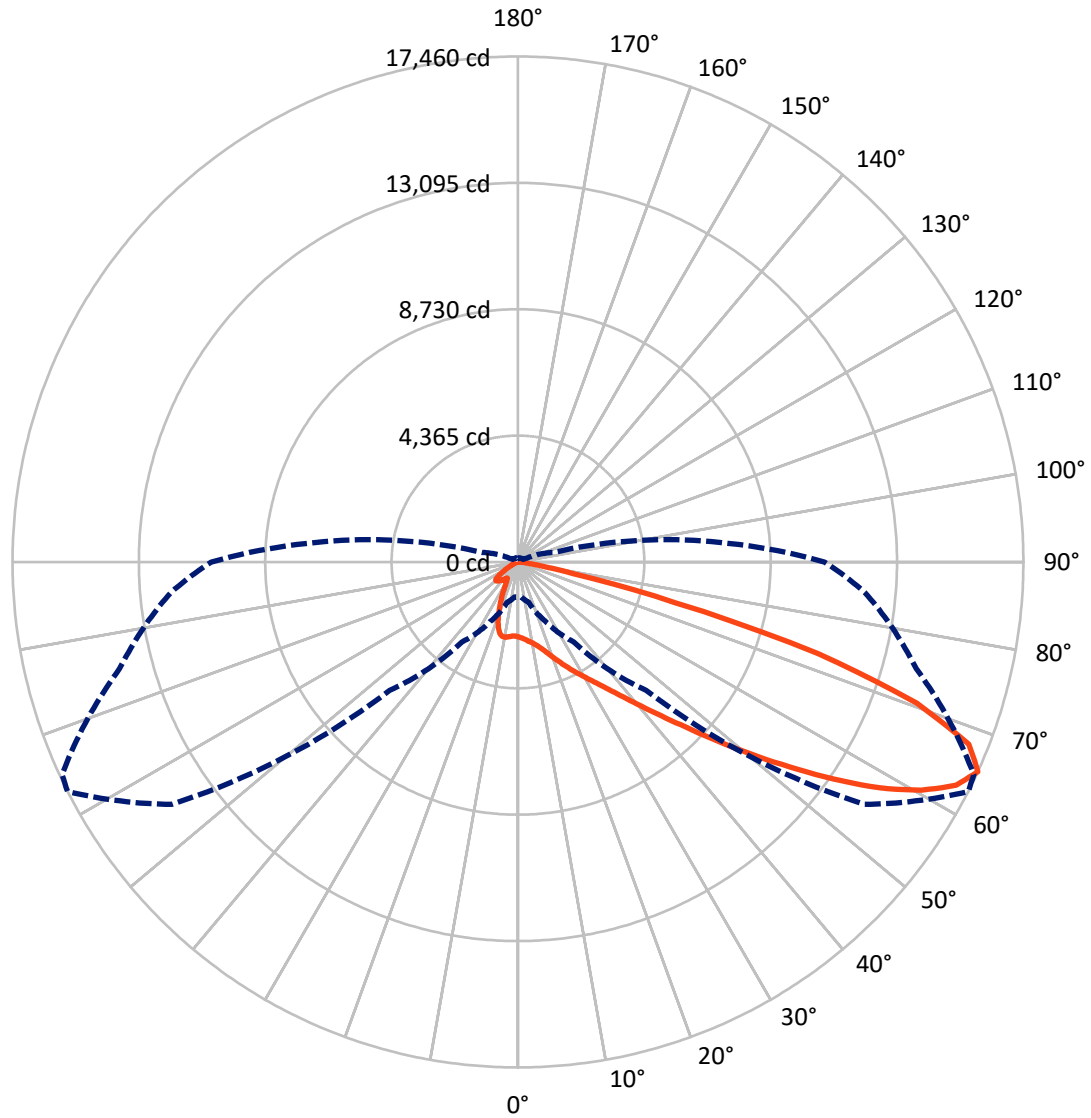
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	3079.6	0.0	3079.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17871.4	0.0	17871.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	20951.0	0.0	20951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	1.2
10°-20°	676.0	3.2
20°-30°	1177.0	5.6
30°-40°	2121.5	10.1
40°-50°	4207.6	20.1
50°-60°	5731.5	27.4
60°-70°	4574.8	21.8
70°-80°	2070.2	9.9
80°-90°	148.8	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°	20951.0	100.0
0°-180°	20951.0	100.0

Coefficient of Utilization



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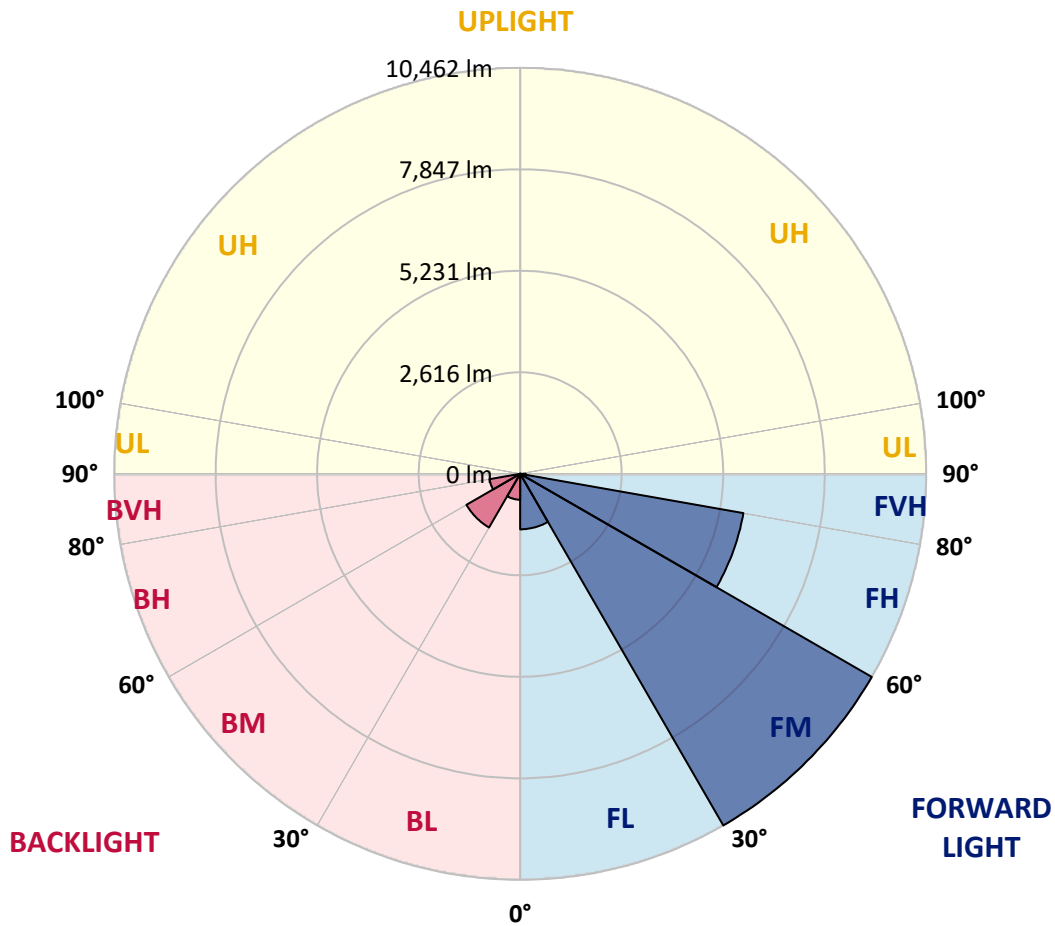
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.2	6.8			
FM (30°-60°)	10462.4	49.9			
FH (60°-80°)	5841.0	27.9			G3/7500
FVH (80°-90°)	137.8	0.7			G2/225
BL (0°-30°)	666.5	3.2	B2/1000		
BM (30°-60°)	1598.1	7.6	B2/2500		
BH (60°-80°)	804.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.0	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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2646.3	2639.1	2649.2	2644.8	2642.0	2636.2	2633.3	2630.4	2624.7	2620.3
5°	2653.5	2649.2	2659.3	2667.9	2676.6	2685.2	2689.5	2695.3	2689.5	2678.0
7.5°	2593.0	2590.1	2611.7	2637.6	2676.6	2709.7	2745.7	2765.9	2767.4	2763.0
10°	2588.6	2581.4	2603.0	2634.8	2685.2	2744.3	2807.7	2851.0	2856.7	2875.5
12.5°	2656.4	2649.2	2679.4	2714.0	2765.9	2827.9	2905.7	2966.3	2974.9	3000.9
15°	2770.2	2760.2	2794.7	2839.4	2905.7	2976.4	3058.5	3113.3	3120.5	3152.2
17.5°	2902.8	2892.8	2933.1	2980.7	3052.7	3149.3	3244.4	3305.0	3313.6	3333.8
20°	3072.9	3059.9	3091.7	3134.9	3211.3	3326.6	3440.5	3526.9	3525.5	3525.5
22.5°	3270.4	3250.2	3277.6	3312.2	3384.2	3524.1	3675.4	3777.7	3777.7	3737.4
25°	3482.3	3462.1	3492.3	3524.1	3587.5	3746.0	3923.3	4050.1	4055.9	3986.7
27.5°	3747.5	3721.5	3744.6	3782.1	3819.5	3981.0	4191.4	4338.4	4341.3	4234.6
30°	4257.7	4184.2	4112.1	4071.8	4089.1	4249.0	4473.9	4636.8	4651.2	4504.2
32.5°	5191.7	5177.3	4923.6	4592.1	4419.1	4537.3	4789.5	4985.6	4994.2	4805.4
35°	6643.1	6625.8	6217.9	5586.6	5023.0	4923.6	5172.9	5405.0	5399.2	5185.9
37.5°	8375.6	8359.7	7822.1	6977.5	6065.1	5507.3	5667.3	5910.9	5946.9	5667.3
40°	9855.8	9796.7	9456.6	8642.2	7448.8	6475.9	6370.7	6532.1	6569.6	6238.1
42.5°	10977.2	10926.7	10753.8	10245.0	9123.6	7908.6	7199.5	7261.4	7303.2	6905.4
45°	11558.0	11546.5	11615.7	11568.1	10830.2	9667.0	8384.2	8126.2	8142.1	7644.8
47.5°	11640.2	11634.4	11950.1	12396.9	12297.4	11650.3	9904.8	9204.3	9148.1	8479.4
50°	11155.9	11144.4	11749.7	12587.2	13277.5	13316.5	11631.5	10419.4	10295.4	9342.7
52.5°	9609.4	9606.5	10601.0	11994.8	13622.0	14775.1	13338.1	11754.1	11546.5	10256.5
55°	7394.0	7447.4	8587.5	10234.9	12993.6	15477.0	14870.2	13235.7	12917.2	11176.1
57.5°	5237.8	5315.6	6442.8	7910.0	11044.9	15061.9	15906.5	14720.3	14377.3	12092.8
60°	2813.5	2882.7	4011.2	5762.4	8217.0	13513.9	16452.8	16008.9	15684.6	12963.3
62.5°	1676.3	1699.3	2166.3	3720.1	5557.8	10324.3	16220.7	16990.4	16723.8	13694.1
65°	1203.5	1207.8	1442.8	2271.5	3374.2	6272.7	14593.5	17460.3	17378.1	14244.7
67.5°	1013.3	1010.4	1108.4	1509.1	2298.9	3142.1	11184.7	16795.8	17144.6	14593.5
70°	869.1	873.4	988.8	1105.5	1728.2	1778.6	5560.7	14623.8	15367.5	14685.7
72.5°	647.2	661.6	768.2	1007.5	1304.4	1223.7	1919.9	10843.1	12187.9	13836.8
75°	456.9	464.1	540.5	847.5	972.9	890.7	980.1	5605.3	7329.2	10608.2
77.5°	351.7	364.7	409.3	592.4	958.5	625.5	599.6	1940.0	2980.7	6408.2
80°	190.3	213.3	295.5	428.1	673.1	442.5	296.9	772.6	1010.4	2996.5
82.5°	98.0	109.5	206.1	308.4	383.4	386.3	147.0	321.4	416.5	925.3
85°	38.9	47.6	138.4	170.1	197.5	190.3	66.3	129.7	149.9	256.6
87.5°	8.6	14.4	50.4	38.9	37.5	40.4	15.9	30.3	28.8	30.3
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°
2585.7	0°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2603.0	2.5°	2601.6	2595.8	2580.0	2562.7	2542.5	2531.0	2523.8	2522.3	2512.2	2505.0
2660.7	5°	2644.8	2639.1	2608.8	2572.8	2533.9	2503.6	2474.8	2448.8	2411.3	2404.1
2744.3	7.5°	2731.3	2715.5	2666.5	2617.5	2544.0	2456.0	2349.4	2226.9	2117.3	2084.2
2855.3	10°	2838.0	2816.4	2754.4	2667.9	2505.0	2265.8	2007.8	1768.5	1578.3	1524.9
2986.4	12.5°	2959.1	2940.3	2858.2	2698.2	2342.2	1908.3	1513.4	1216.5	1032.0	985.9
3126.2	15°	3103.2	3075.8	2961.9	2652.1	2051.0	1450.0	1039.2	863.4	797.1	788.4
3286.2	17.5°	3256.0	3211.3	3054.2	2486.3	1659.0	1030.6	802.8	752.4	723.5	714.9
3447.7	20°	3395.8	3338.1	3109.0	2235.5	1239.5	802.8	719.2	686.1	660.1	650.0
3609.1	22.5°	3535.6	3453.4	3109.0	1893.9	929.7	712.0	660.1	629.9	599.6	586.6
3782.1	25°	3681.2	3571.6	3054.2	1513.4	748.1	652.9	603.9	570.8	544.8	529.0
3946.4	27.5°	3822.4	3671.1	2928.8	1153.1	665.9	601.0	552.0	520.3	495.8	484.3
4125.1	30°	3956.5	3769.1	2752.9	874.9	612.6	550.6	504.5	477.1	452.6	441.0
4357.1	32.5°	4138.1	3893.0	2565.6	717.8	566.4	503.0	461.2	435.3	413.7	405.0
4658.4	35°	4390.3	4076.1	2404.1	704.8	527.5	464.1	422.3	397.8	376.2	369.0
5047.5	37.5°	4747.7	4371.6	2319.1	791.3	495.8	429.5	390.6	364.7	344.5	338.7
5541.9	40°	5188.8	4772.2	2365.2	877.8	474.2	399.2	361.8	335.8	318.5	311.3
6109.8	42.5°	5712.0	5266.6	2620.3	944.1	459.8	373.3	334.4	305.6	294.0	291.1
6754.1	45°	6313.0	5810.0	3010.9	1014.7	436.7	348.8	307.0	285.4	276.7	275.3
7454.6	47.5°	6996.2	6406.7	3463.5	1102.6	413.7	325.7	285.4	271.0	263.8	260.9
8185.3	50°	7673.7	7007.8	3929.1	1151.6	394.9	304.1	268.1	256.6	250.8	249.4
8957.9	52.5°	8382.8	7626.1	4305.3	1105.5	379.1	286.8	253.7	245.0	239.3	237.8
9669.9	55°	9058.8	8126.2	4370.1	938.3	347.4	269.5	237.8	233.5	226.3	226.3
10392.0	57.5°	9641.1	8377.0	3911.8	689.0	315.7	243.6	222.0	217.6	211.9	210.4
11043.5	60°	10175.8	8305.0	3019.6	464.1	281.1	217.6	201.8	198.9	193.1	185.9
11609.9	62.5°	10477.0	7987.9	2065.4	302.7	246.5	190.3	178.7	177.3	164.3	149.9
12029.4	65°	10590.9	7336.4	1288.6	220.5	206.1	162.9	154.2	151.3	132.6	116.7
12267.2	67.5°	10491.5	6264.0	650.0	174.4	162.9	135.5	126.8	126.8	113.9	99.5
12252.8	70°	10093.6	4695.9	273.9	139.8	125.4	103.8	103.8	109.5	96.6	80.7
11617.1	72.5°	9230.3	3159.4	145.6	106.7	93.7	73.5	85.0	89.4	76.4	60.5
9508.5	75°	7337.8	1927.1	100.9	79.3	59.1	51.9	64.9	67.7	51.9	40.4
6519.1	77.5°	5018.7	1106.9	67.7	50.4	37.5	30.3	44.7	41.8	27.4	18.7
2513.7	80°	2203.8	461.2	38.9	23.1	14.4	11.5	15.9	11.5	8.6	5.8
344.5	82.5°	258.0	108.1	14.4	8.6	5.8	2.9	1.4	0.0	0.0	0.0
105.2	85°	53.3	13.0	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0
18.7	87.5°	10.1	2.9	1.4	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°
2585.7
2512.2
2401.3
2068.3
1504.8
972.9
779.8
710.6
644.3
579.4
523.2
484.3
442.5
405.0
369.0
337.3
309.9
291.1
273.9
260.9
249.4
237.8
224.8
209.0
184.5
147.0
115.3
98.0
79.3
60.5
38.9
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