

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: P956584

Luminaire Tested: **GALN-SB9A-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956584
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-SB9A-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA 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: 22627 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

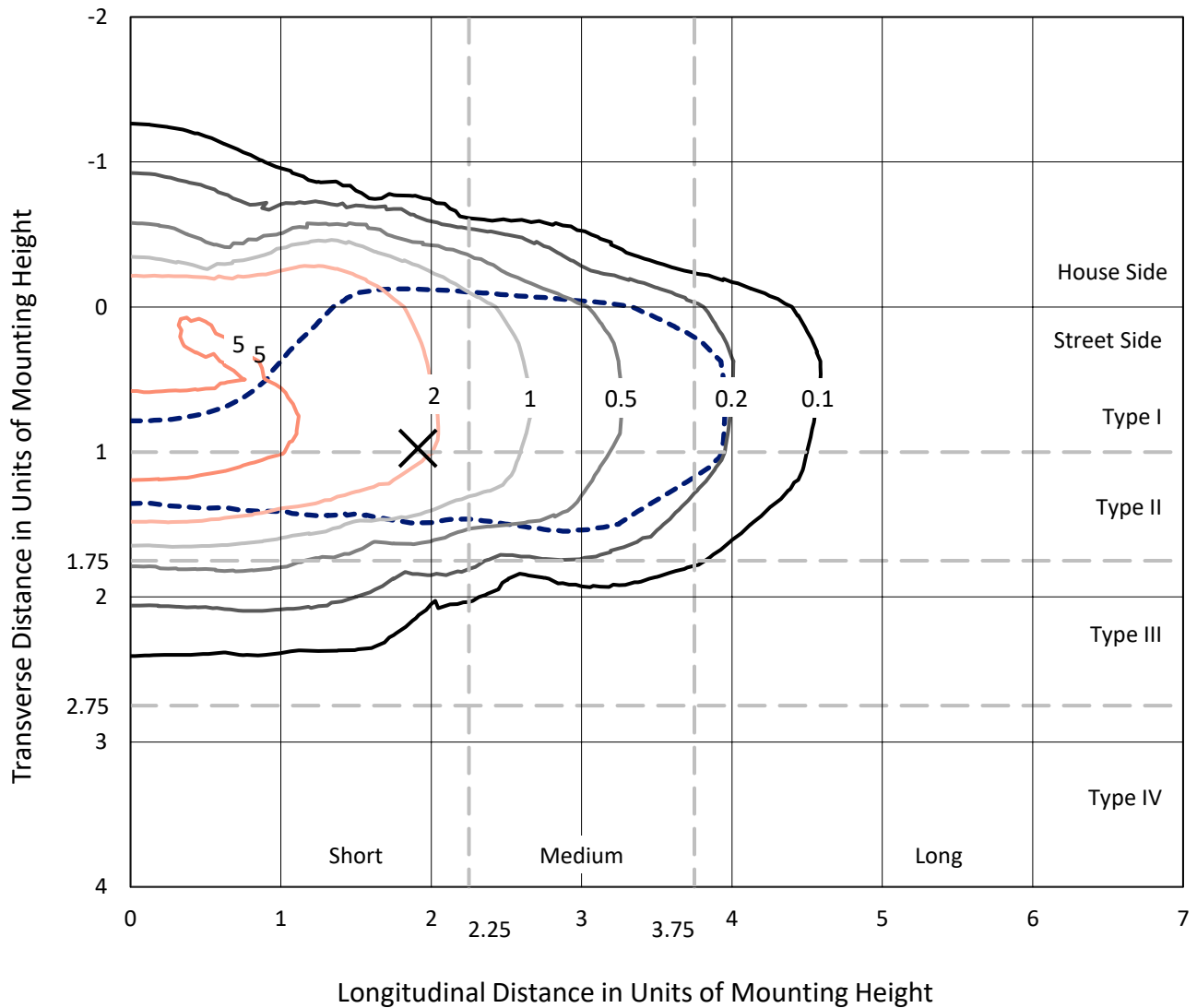
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

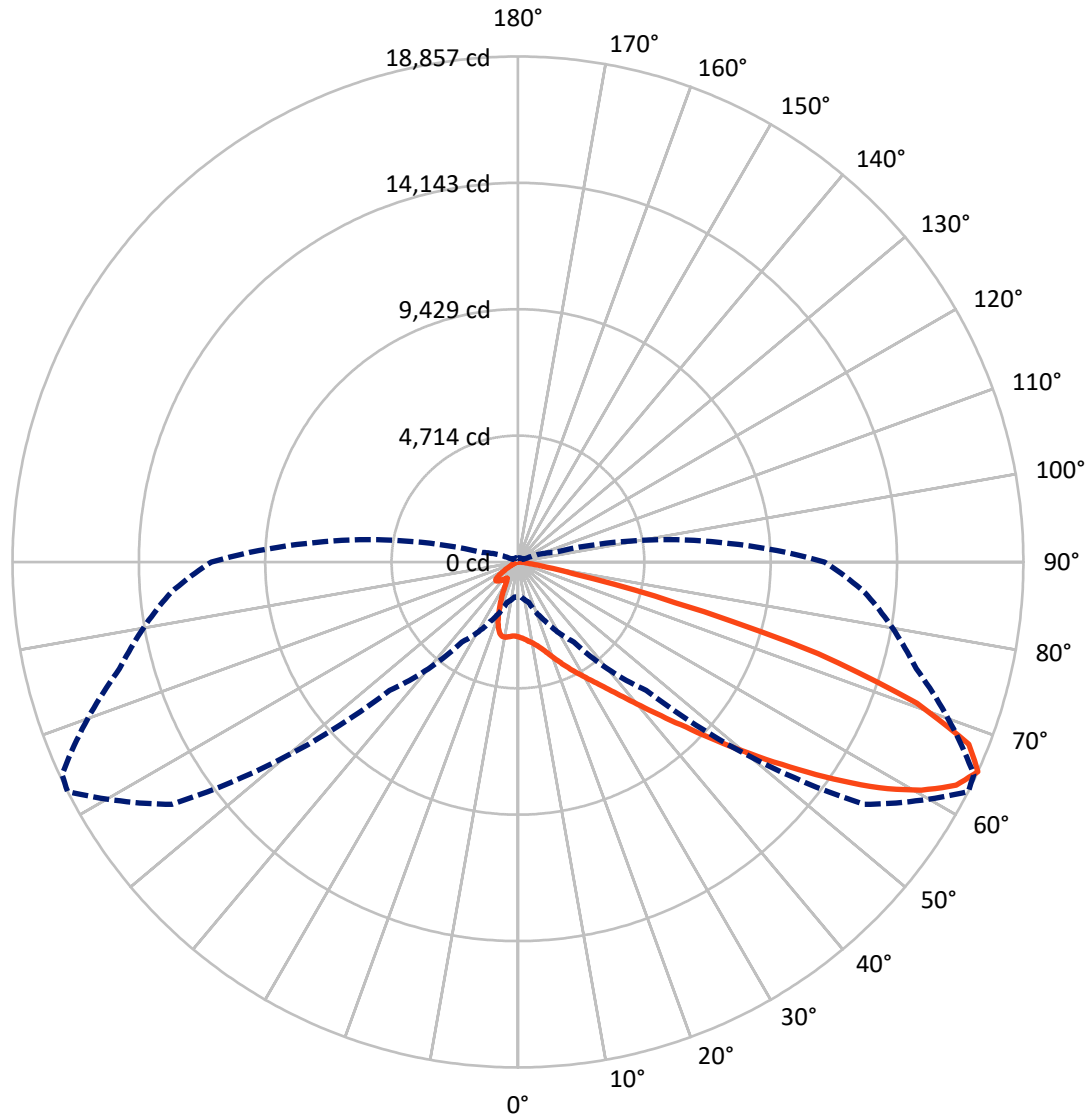
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3326.0	0.0	3326.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19301.0	0.0	19301.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	22627.0	0.0	22627.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.2
10°-20°	730.0	3.2
20°-30°	1271.2	5.6
30°-40°	2291.2	10.1
40°-50°	4544.2	20.1
50°-60°	6189.9	27.4
60°-70°	4940.8	21.8
70°-80°	2235.8	9.9
80°-90°	160.7	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°	22627.0	100.0
0°-180°	22627.0	100.0



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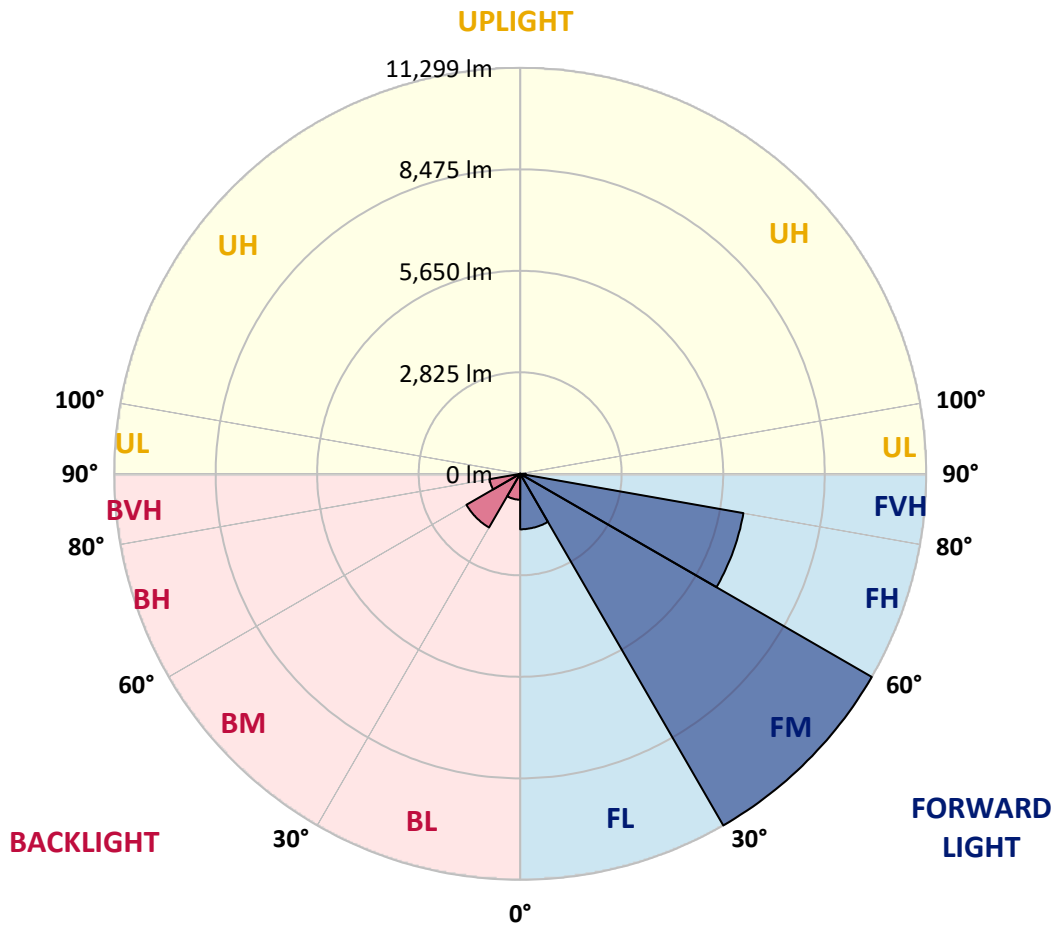
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.6	6.8			
FM (30°-60°)	11299.4	49.9			
FH (60°-80°)	6308.3	27.9			G3/7500
FVH (80°-90°)	148.8	0.7			G2/225
BL (0°-30°)	719.8	3.2	B2/1000		
BM (30°-60°)	1726.0	7.6	B2/2500		
BH (60°-80°)	868.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.9	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°	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6
2.5°	2858.0	2850.2	2861.1	2856.4	2853.3	2847.1	2844.0	2840.9	2834.6	2830.0
5°	2865.8	2861.1	2872.0	2881.3	2890.7	2900.0	2904.7	2910.9	2904.7	2892.2
7.5°	2800.4	2797.3	2820.6	2848.6	2890.7	2926.5	2965.4	2987.2	2988.7	2984.1
10°	2795.7	2787.9	2811.3	2845.5	2900.0	2963.8	3032.3	3079.0	3085.2	3105.5
12.5°	2868.9	2861.1	2893.8	2931.1	2987.2	3054.1	3138.2	3203.6	3212.9	3240.9
15°	2991.8	2981.0	3018.3	3066.6	3138.2	3214.4	3303.2	3362.3	3370.1	3404.4
17.5°	3135.1	3124.2	3167.7	3219.1	3296.9	3401.2	3504.0	3569.4	3578.7	3600.5
20°	3318.7	3304.7	3339.0	3385.7	3468.2	3592.7	3715.7	3809.1	3807.5	3807.5
22.5°	3532.0	3510.2	3539.8	3577.1	3655.0	3806.0	3969.4	4079.9	4079.9	4036.3
25°	3760.8	3739.0	3771.7	3806.0	3874.5	4045.7	4237.2	4374.1	4380.4	4305.6
27.5°	4047.2	4019.2	4044.1	4084.6	4125.1	4299.4	4526.7	4685.5	4688.6	4573.4
30°	4598.3	4518.9	4441.1	4397.5	4416.2	4589.0	4831.8	5007.7	5023.3	4864.5
32.5°	5607.0	5591.4	5317.5	4959.4	4772.6	4900.3	5172.7	5384.4	5393.7	5189.8
35°	7174.5	7155.8	6715.3	6033.5	5424.9	5317.5	5586.8	5837.4	5831.1	5600.8
37.5°	9045.6	9028.5	8447.8	7535.7	6550.3	5947.9	6120.7	6383.8	6422.7	6120.7
40°	10644.3	10580.4	10213.1	9333.6	8044.7	6994.0	6880.3	7054.7	7095.1	6737.1
42.5°	11855.3	11800.8	11614.0	11064.5	9853.5	8541.2	7775.4	7842.3	7887.5	7457.8
45°	12482.6	12470.2	12544.9	12493.5	11696.5	10440.3	9054.9	8776.3	8793.4	8256.4
47.5°	12571.4	12565.1	12906.0	13388.6	13281.2	12582.3	10697.2	9940.7	9879.9	9157.7
50°	12048.3	12035.9	12689.7	13594.1	14339.7	14381.7	12562.0	11252.9	11119.0	10090.1
52.5°	10378.1	10375.0	11449.0	12954.3	14711.7	15957.0	14405.1	12694.3	12470.2	11077.0
55°	7985.5	8043.1	9274.4	11053.6	14033.0	16715.1	16059.8	14294.6	13950.5	12070.1
57.5°	5656.8	5740.9	6958.1	8542.8	11928.5	16266.8	17179.0	15897.9	15527.4	13060.1
60°	3038.5	3113.3	4332.1	6223.4	8874.4	14595.0	17769.0	17289.5	16939.3	14000.4
62.5°	1810.4	1835.3	2339.6	4017.7	6002.4	11150.2	17518.3	18349.6	18061.6	14789.6
65°	1299.8	1304.5	1558.2	2453.3	3644.1	6774.5	15760.9	18857.1	18768.3	15384.2
67.5°	1094.3	1091.2	1197.1	1629.8	2482.8	3393.5	12079.5	18139.4	18516.1	15760.9
70°	938.6	943.3	1067.9	1193.9	1866.4	1920.9	6005.5	15793.6	16596.8	15860.5
72.5°	698.9	714.5	829.7	1088.1	1408.8	1321.6	2073.4	11710.5	13162.9	14943.7
75°	493.5	501.2	583.7	915.3	1050.7	962.0	1058.5	6053.7	7915.5	11456.8
77.5°	379.8	393.8	442.1	639.8	1035.2	675.6	647.6	2095.2	3219.1	6920.8
80°	205.5	230.4	319.1	462.3	726.9	477.9	320.7	834.4	1091.2	3236.2
82.5°	105.9	118.3	222.6	333.1	414.1	417.2	158.8	347.1	449.9	999.4
85°	42.0	51.4	149.4	183.7	213.3	205.5	71.6	140.1	161.9	277.1
87.5°	9.3	15.6	54.5	42.0	40.5	43.6	17.1	32.7	31.1	32.7
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°
2792.6	0°	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6	2792.6
2811.3	2.5°	2809.7	2803.5	2786.4	2767.7	2745.9	2733.4	2725.7	2724.1	2713.2	2705.4
2873.5	5°	2856.4	2850.2	2817.5	2778.6	2736.6	2703.9	2672.7	2644.7	2604.2	2596.5
2963.8	7.5°	2949.8	2932.7	2879.8	2826.8	2747.5	2652.5	2537.3	2405.0	2286.7	2250.9
3083.7	10°	3065.0	3041.7	2974.7	2881.3	2705.4	2447.0	2168.4	1910.0	1704.5	1646.9
3225.3	12.5°	3195.8	3175.5	3086.8	2914.0	2529.5	2061.0	1634.5	1313.8	1114.5	1064.7
3376.3	15°	3351.4	3321.9	3198.9	2864.2	2215.1	1566.0	1122.3	932.4	860.8	851.5
3549.1	17.5°	3516.4	3468.2	3298.5	2685.2	1791.7	1113.0	867.0	812.6	781.4	772.1
3723.5	20°	3667.4	3605.2	3357.7	2414.3	1338.7	867.0	776.8	741.0	712.9	702.0
3897.8	22.5°	3818.4	3729.7	3357.7	2045.4	1004.0	769.0	712.9	680.2	647.6	633.5
4084.6	25°	3975.6	3857.3	3298.5	1634.5	807.9	705.2	652.2	616.4	588.4	571.3
4262.1	27.5°	4128.2	3964.7	3163.1	1245.3	719.2	649.1	596.2	561.9	535.5	523.0
4455.1	30°	4273.0	4070.6	2973.2	944.9	661.6	594.6	544.8	515.2	488.8	476.3
4705.7	32.5°	4469.1	4204.5	2770.8	775.2	611.8	543.3	498.1	470.1	446.8	437.4
5031.0	35°	4741.5	4402.2	2596.5	761.2	569.7	501.2	456.1	429.6	406.3	398.5
5451.3	37.5°	5127.5	4721.3	2504.6	854.6	535.5	463.9	421.8	393.8	372.0	365.8
5985.3	40°	5603.9	5154.0	2554.4	948.0	512.1	431.2	390.7	362.7	344.0	336.2
6598.6	42.5°	6168.9	5687.9	2830.0	1019.6	496.6	403.2	361.1	330.0	317.6	314.4
7294.4	45°	6818.1	6274.8	3251.8	1095.9	471.7	376.7	331.6	308.2	298.9	297.3
8050.9	47.5°	7555.9	6919.2	3740.6	1190.8	446.8	351.8	308.2	292.6	284.9	281.8
8840.1	50°	8287.5	7568.3	4243.4	1243.7	426.5	328.4	289.5	277.1	270.9	269.3
9674.5	52.5°	9053.4	8236.1	4649.7	1193.9	409.4	309.8	274.0	264.6	258.4	256.8
10443.4	55°	9783.4	8776.3	4719.7	1013.4	375.1	291.1	256.8	252.2	244.4	244.4
11223.3	57.5°	10412.3	9047.2	4224.7	744.1	340.9	263.1	239.7	235.1	228.8	227.3
11926.9	60°	10989.8	8969.3	3261.1	501.2	303.5	235.1	217.9	214.8	208.6	200.8
12538.7	62.5°	11315.2	8626.9	2230.7	326.9	266.2	205.5	193.0	191.5	177.5	161.9
12991.7	65°	11438.1	7923.3	1391.6	238.2	222.6	175.9	166.6	163.4	143.2	126.1
13248.5	67.5°	11330.7	6765.1	702.0	188.4	175.9	146.3	137.0	137.0	123.0	107.4
13232.9	70°	10901.1	5071.5	295.8	151.0	135.4	112.1	112.1	118.3	104.3	87.2
12546.5	72.5°	9968.7	3412.1	157.2	115.2	101.2	79.4	91.8	96.5	82.5	65.4
10269.1	75°	7924.8	2081.2	109.0	85.6	63.8	56.0	70.0	73.2	56.0	43.6
7040.7	77.5°	5420.2	1195.5	73.2	54.5	40.5	32.7	48.3	45.1	29.6	20.2
2714.8	80°	2380.1	498.1	42.0	24.9	15.6	12.5	17.1	12.5	9.3	6.2
372.0	82.5°	278.6	116.7	15.6	9.3	6.2	3.1	1.6	0.0	0.0	0.0
113.6	85°	57.6	14.0	7.8	3.1	1.6	0.0	0.0	0.0	0.0	0.0
20.2	87.5°	10.9	3.1	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°
2792.6
2713.2
2593.4
2233.8
1625.1
1050.7
842.1
767.4
695.8
625.8
565.1
523.0
477.9
437.4
398.5
364.3
334.7
314.4
295.8
281.8
269.3
256.8
242.8
225.7
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