

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: P943558

Luminaire Tested: **GALN-SB8A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24677 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

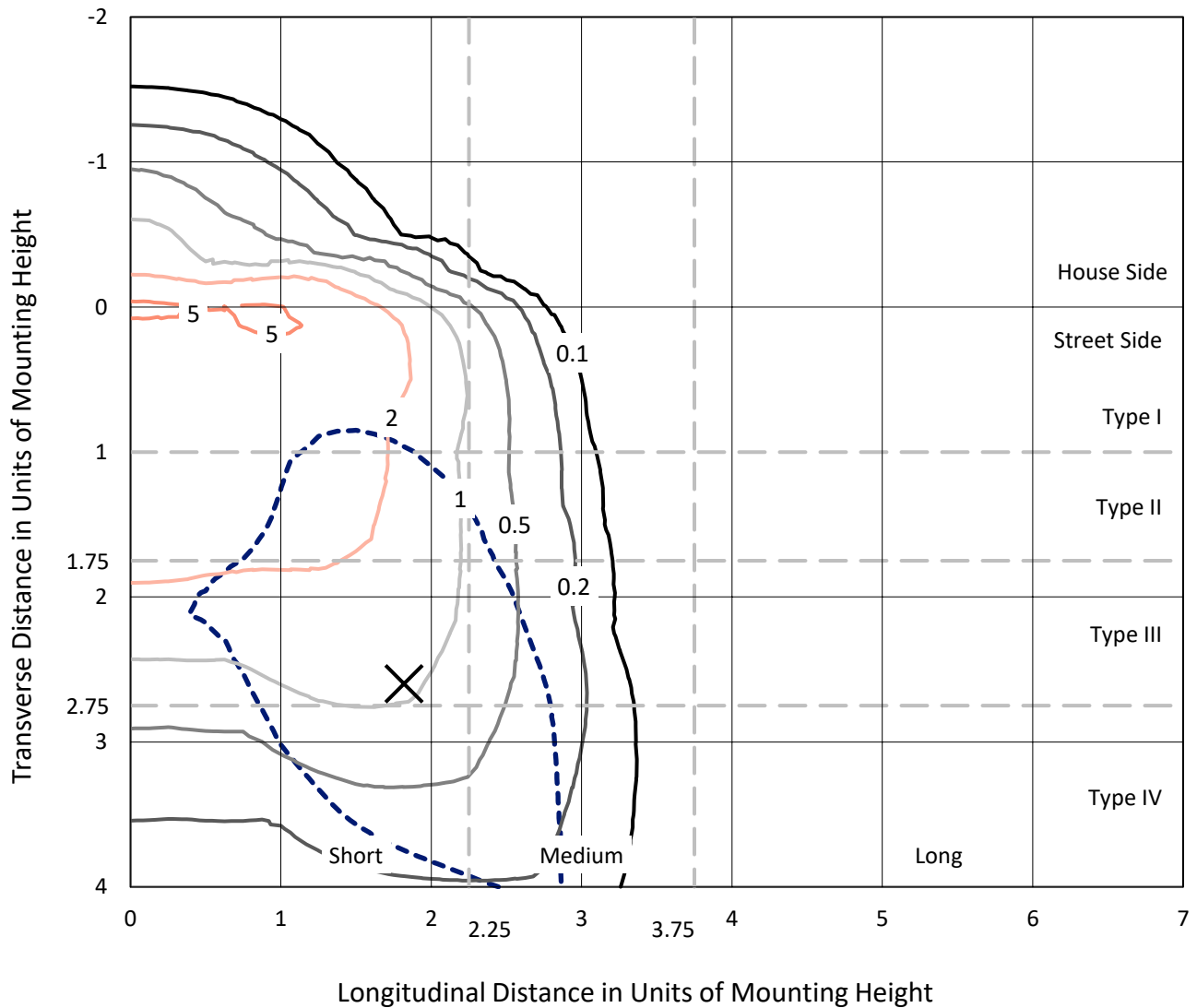
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

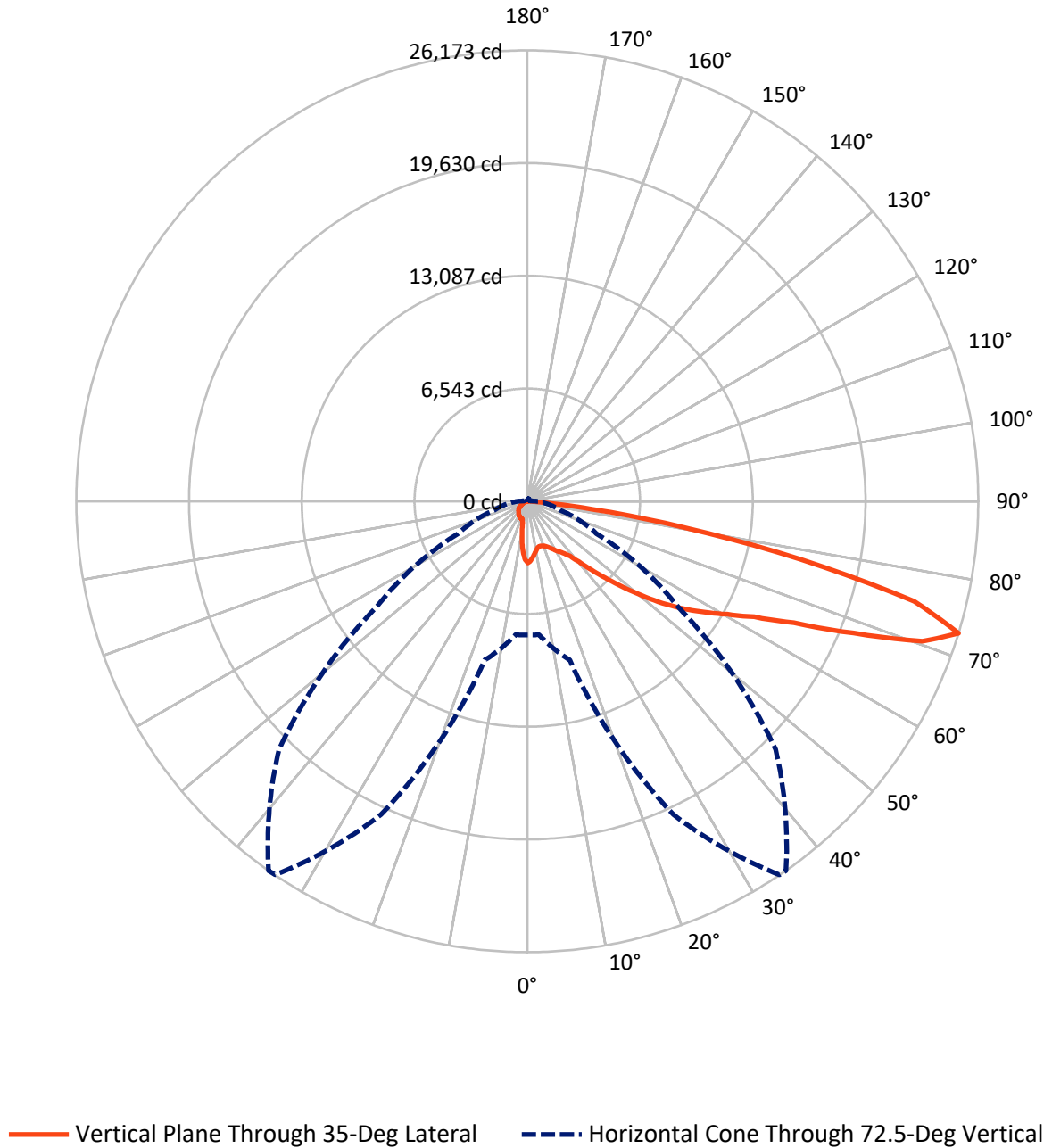
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2777.3	0.0	2777.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21899.7	0.0	21899.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	24677.0	0.0	24677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	1.2
10°-20°	687.5	2.8
20°-30°	1116.9	4.5
30°-40°	1863.5	7.6
40°-50°	3525.8	14.3
50°-60°	5602.5	22.7
60°-70°	6930.6	28.1
70°-80°	4308.1	17.5
80°-90°	348.2	1.4
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°	24677.0	100.0
0°-180°	24677.0	100.0

Coefficient of Utilization



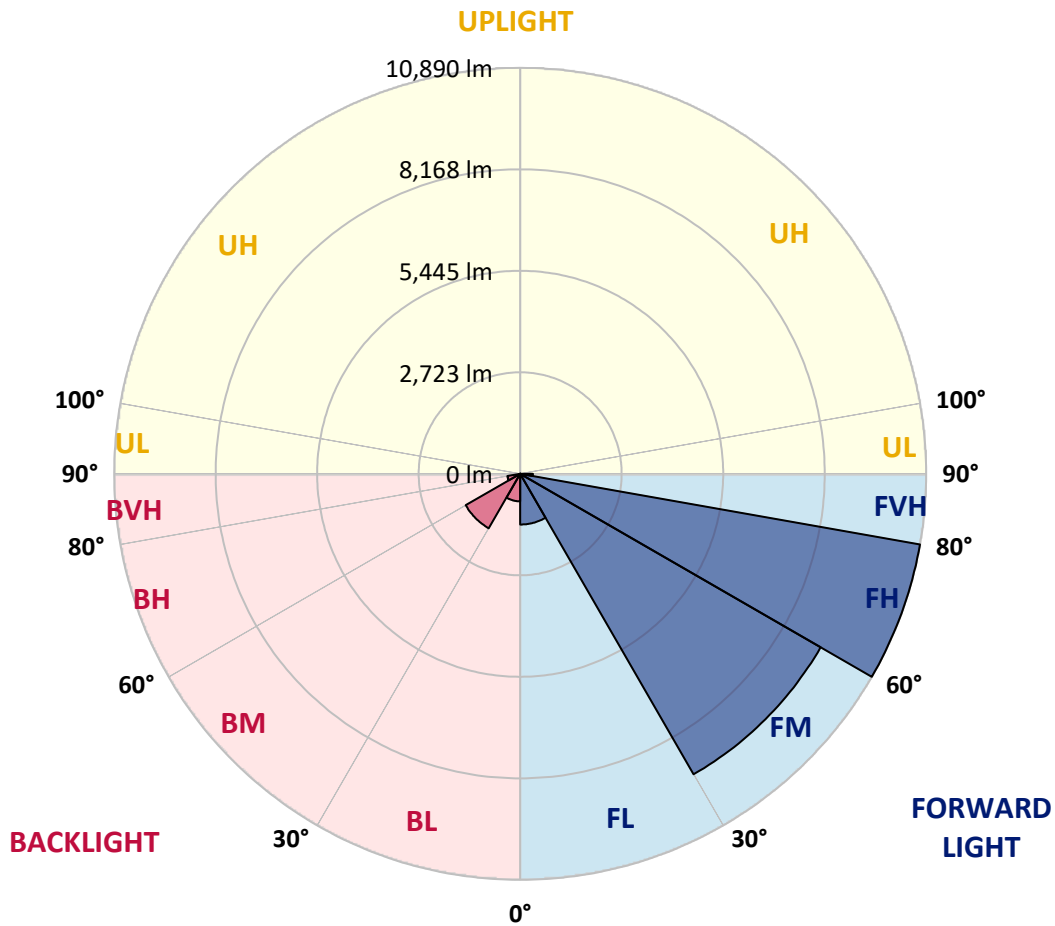
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1360.3	5.5			
FM (30°-60°)	9305.7	37.7			
FH (60°-80°)	10890.3	44.1			G4/12000
FVH (80°-90°)	343.4	1.4			G3/500
BL (0°-30°)	738.0	3.0	B2/1000		
BM (30°-60°)	1686.1	6.8	B2/2500		
BH (60°-80°)	348.5	1.4	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5
2.5°	3417.4	3446.3	3451.8	3460.8	3460.8	3471.7	3489.7	3515.0	3556.6	3578.3
5°	3149.8	3171.5	3198.6	3220.3	3261.9	3267.3	3337.8	3406.6	3502.4	3574.7
7.5°	2880.4	2905.7	2941.9	2994.3	3048.5	3064.8	3171.5	3287.2	3439.1	3574.7
10°	2690.5	2692.3	2724.9	2777.3	2864.1	2884.0	3014.2	3178.7	3368.6	3553.0
12.5°	2583.8	2596.5	2611.0	2650.8	2733.9	2746.6	2885.8	3079.3	3298.1	3540.4
15°	2583.8	2592.9	2601.9	2621.8	2688.7	2699.6	2822.5	3016.0	3261.9	3545.8
17.5°	2611.0	2625.4	2618.2	2641.7	2712.2	2719.5	2827.9	2997.9	3260.1	3580.1
20°	2676.1	2686.9	2672.4	2686.9	2757.4	2771.9	2884.0	3032.3	3290.8	3639.8
22.5°	2779.1	2784.6	2750.2	2761.0	2833.4	2851.5	2981.6	3129.9	3365.0	3735.6
25°	2909.3	2920.2	2867.7	2880.4	2949.1	2970.8	3120.9	3276.4	3482.5	3867.6
27.5°	3059.4	3064.8	3019.6	3017.8	3106.4	3137.1	3289.0	3457.2	3639.8	4034.0
30°	3231.2	3247.4	3204.0	3196.8	3308.9	3334.2	3484.3	3679.6	3871.3	4283.5
32.5°	3366.8	3379.4	3354.1	3372.2	3486.1	3506.0	3721.2	3994.2	4234.7	4637.9
35°	3562.1	3569.3	3511.4	3544.0	3674.2	3724.8	4044.8	4435.4	4692.2	5082.7
37.5°	4269.0	4269.0	4023.1	3862.2	3987.0	4032.2	4487.8	4990.5	5256.3	5679.4
40°	5247.3	5231.0	4871.2	4542.1	4525.8	4614.4	5118.9	5690.3	5985.0	6395.4
42.5°	6290.6	6265.2	5775.2	5449.8	5395.5	5426.3	5847.6	6552.7	6852.9	7268.8
45°	7216.3	7209.1	6760.7	6323.1	6225.5	6323.1	6757.1	7561.7	7776.9	8214.4
47.5°	7992.0	7992.0	7664.8	7379.1	7328.4	7386.3	7988.4	8680.9	8661.0	9221.6
50°	8885.3	8878.0	8567.0	8444.1	8496.5	8577.9	9406.0	9859.9	9576.0	10210.6
52.5°	9510.9	9554.3	9447.6	9427.7	9695.3	9836.3	10845.3	11013.5	10395.1	11149.1
55°	10006.3	10056.9	10179.9	10319.1	10834.4	11018.9	12239.4	12107.4	11080.4	11962.7
57.5°	10707.9	10635.6	10825.4	11100.2	11933.8	12156.2	13590.1	13139.8	11631.8	12622.7
60°	11559.5	11570.4	11602.9	11950.1	13031.4	13317.0	14920.9	14116.2	11986.2	13027.7
62.5°	12582.9	12599.2	12666.1	13199.5	14505.0	14774.4	16338.5	14915.4	12149.0	12913.8
65°	12512.4	12581.1	13327.9	15152.3	16745.3	17011.1	17992.9	15476.0	11903.1	11872.3
67.5°	11398.6	11510.7	12760.1	17484.8	20122.9	20419.5	19992.7	15586.3	10841.7	9232.4
70°	9937.6	9977.4	11480.0	19582.3	24034.0	24334.1	21782.8	14373.0	8227.1	5149.6
72.5°	7760.6	7769.6	9532.6	20068.7	26156.7	26173.0	20377.9	10669.9	4424.5	1978.1
75°	5543.8	5489.5	6384.6	16275.2	23012.4	23196.8	15277.1	5005.0	1690.6	934.8
77.5°	2972.6	3032.3	3612.7	9651.9	15897.3	16211.9	8335.6	1442.9	860.7	636.5
80°	918.5	969.2	1480.9	4419.1	9004.6	9194.5	3090.1	641.9	600.3	453.8
82.5°	289.3	300.2	690.7	1857.0	3737.5	3824.2	895.0	363.4	410.5	300.2
85°	83.2	85.0	307.4	692.5	924.0	942.0	251.3	141.0	235.1	186.2
87.5°	9.0	28.9	115.7	115.7	81.4	79.6	27.1	30.7	66.9	23.5
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°
3576.5	0°	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5	3576.5
3592.8	2.5°	3583.8	3585.6	3562.1	3522.3	3478.9	3442.7	3397.5	3361.4	3336.0	3328.8
3625.3	5°	3609.1	3596.4	3529.5	3408.4	3263.7	3139.0	2999.7	2889.4	2817.1	2786.4
3659.7	7.5°	3647.0	3610.9	3464.4	3225.7	2949.1	2703.2	2453.7	2260.2	2137.2	2075.8
3692.2	10°	3679.6	3607.3	3355.9	2961.8	2538.6	2166.2	1829.8	1596.6	1466.4	1404.9
3730.2	12.5°	3710.3	3605.5	3214.9	2648.9	2075.8	1620.1	1307.3	1191.6	1155.4	1142.8
3791.7	15°	3768.2	3610.9	3037.7	2290.9	1614.7	1224.1	1110.2	1108.4	1115.6	1112.0
3885.7	17.5°	3847.7	3616.3	2837.0	1911.2	1245.8	1079.5	1074.0	1090.3	1101.2	1095.7
4003.2	20°	3950.8	3638.0	2623.6	1535.1	1070.4	1043.3	1056.0	1070.4	1079.5	1070.4
4160.6	22.5°	4095.5	3676.0	2390.4	1233.2	1014.4	1021.6	1032.5	1048.7	1057.8	1045.1
4361.3	25°	4272.7	3735.6	2160.7	1072.2	987.3	996.3	1012.6	1030.6	1041.5	1028.8
4614.4	27.5°	4502.3	3831.5	1949.2	1036.1	960.1	965.6	989.1	1016.2	1030.6	1014.4
4974.2	30°	4835.0	3988.8	1766.6	1052.3	943.9	931.2	963.7	1001.7	1018.0	1003.5
5464.2	32.5°	5276.2	4211.2	1654.5	1077.7	936.6	891.4	922.2	971.0	998.1	989.1
6104.3	35°	5854.8	4549.3	1611.1	1106.6	931.2	849.8	871.5	924.0	971.0	980.0
6910.8	37.5°	6556.4	5019.4	1623.7	1119.2	914.9	815.5	826.3	871.5	933.0	961.9
7818.4	40°	7353.8	5567.3	1696.0	1106.6	896.8	786.5	788.4	822.7	877.0	920.3
8794.9	42.5°	8176.5	6207.4	1829.8	1059.6	880.6	761.2	755.8	779.3	815.5	846.2
9769.4	45°	8959.4	6865.6	1961.8	994.5	860.7	735.9	723.3	732.3	739.5	752.2
10718.7	47.5°	9642.9	7328.4	1923.9	934.8	833.6	707.0	685.3	681.7	660.0	658.2
11566.7	50°	10114.8	7429.7	1708.7	875.1	793.8	674.4	640.1	618.4	580.4	562.3
12201.4	52.5°	10264.9	7030.1	1395.9	815.5	728.7	631.0	582.2	547.9	500.9	484.6
12566.7	55°	10066.0	6247.2	1115.6	743.2	638.3	573.2	518.9	473.7	435.8	415.9
12606.4	57.5°	9579.6	5250.9	882.4	658.2	542.4	508.1	453.8	408.6	376.1	356.2
12165.2	60°	8773.2	4169.6	697.9	556.9	462.9	437.6	381.5	352.6	323.7	300.2
11026.1	62.5°	7549.0	2976.2	547.9	441.2	386.9	358.0	325.5	303.8	269.4	236.9
8977.5	65°	5891.0	1820.8	423.1	323.7	311.0	296.5	276.6	256.8	215.2	182.6
5856.6	67.5°	3715.8	862.5	302.0	244.1	245.9	238.7	229.6	213.4	182.6	153.7
2623.6	70°	1636.4	417.7	198.9	186.2	182.6	182.6	189.9	184.4	155.5	128.4
911.3	72.5°	556.9	224.2	148.3	141.0	132.0	130.2	159.1	153.7	124.8	99.4
453.8	75°	291.1	150.1	108.5	101.3	79.6	95.8	126.6	119.3	88.6	65.1
300.2	77.5°	189.9	106.7	74.1	65.1	45.2	63.3	94.0	83.2	52.4	32.5
197.1	80°	119.3	70.5	43.4	30.7	21.7	34.4	50.6	36.2	19.9	7.2
115.7	82.5°	63.3	36.2	16.3	10.8	9.0	10.8	12.7	9.0	3.6	0.0
59.7	85°	25.3	12.7	5.4	3.6	1.8	0.0	3.6	1.8	0.0	0.0
10.8	87.5°	9.0	1.8	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>
3576.5
3341.5
2797.2
2084.8
1406.7
1139.1
1110.2
1093.9
1068.6
1043.3
1027.0
1014.4
1001.7
989.1
980.0
969.2
934.8
858.9
759.4
656.4
564.1
482.8
415.9
352.6
294.7
231.4
177.2
150.1
123.0
94.0
59.7
28.9
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