

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: P940688

Luminaire Tested: **GALN-SB3D-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940688
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-SB3D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 900mA 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: 22112 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

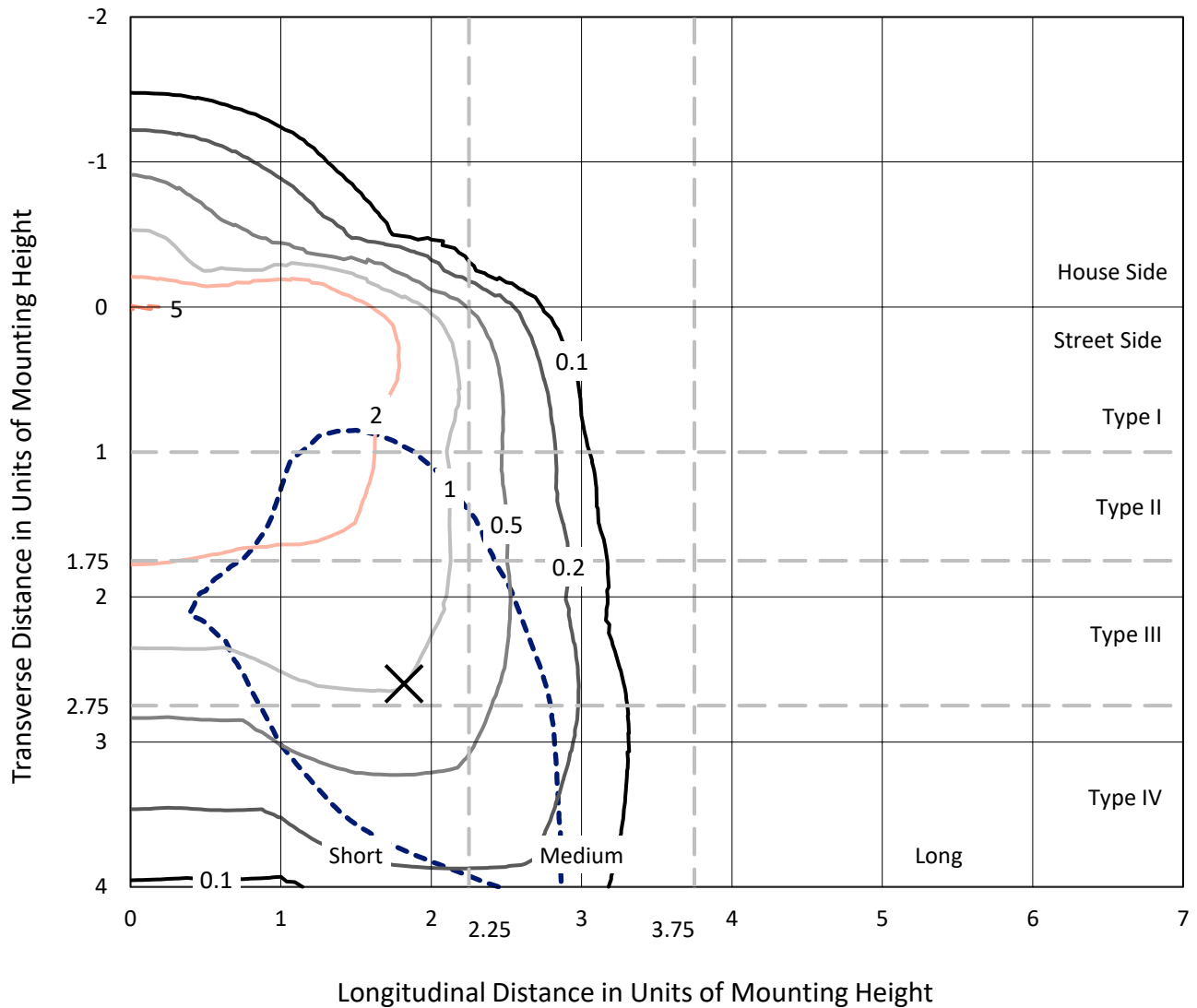
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

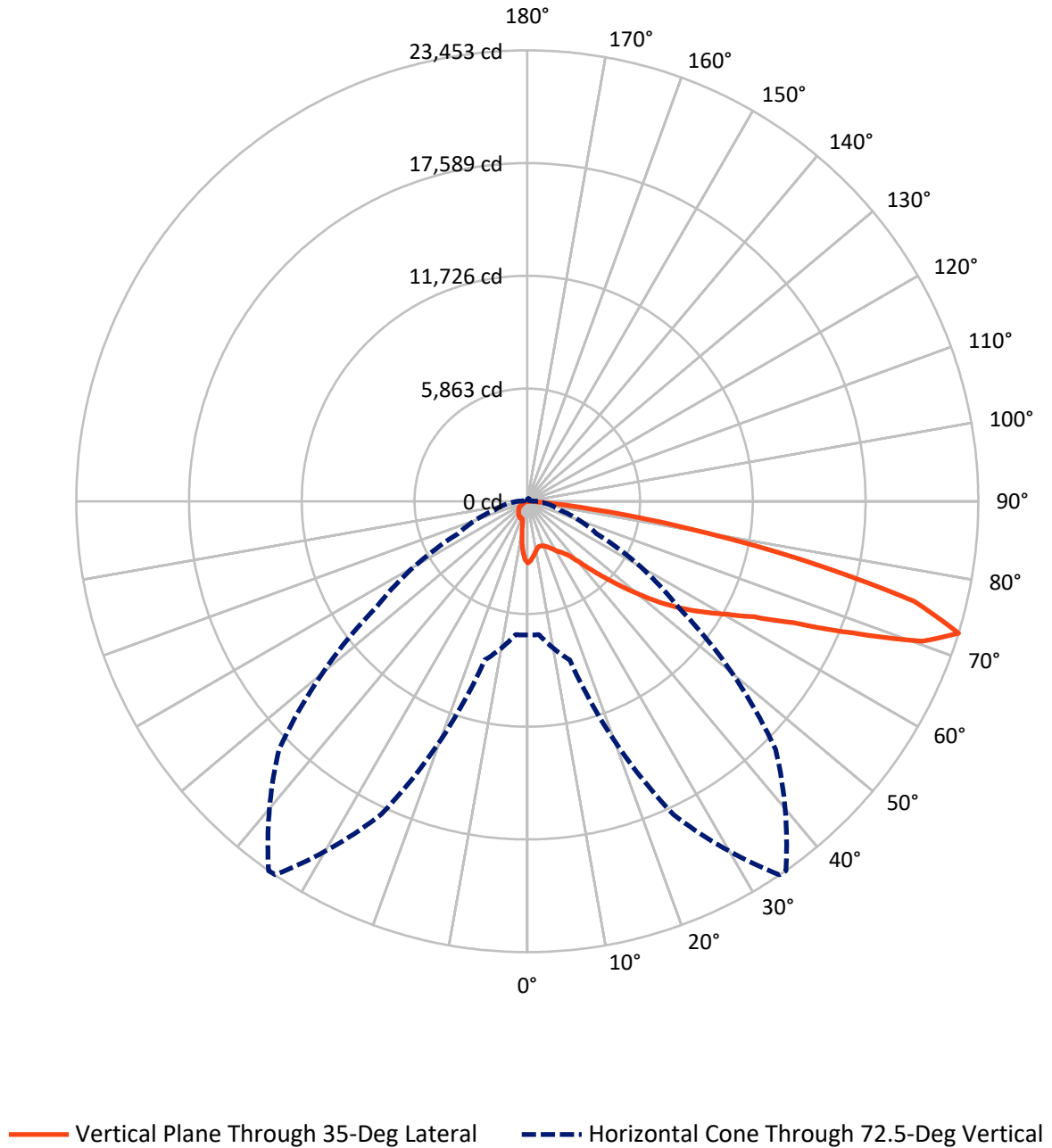
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2488.6	0.0	2488.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19623.4	0.0	19623.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	22112.0	0.0	22112.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	1.2
10°-20°	616.1	2.8
20°-30°	1000.8	4.5
30°-40°	1669.8	7.6
40°-50°	3159.3	14.3
50°-60°	5020.1	22.7
60°-70°	6210.2	28.1
70°-80°	3860.3	17.5
80°-90°	312.0	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°	22112.0	100.0
0°-180°	22112.0	100.0



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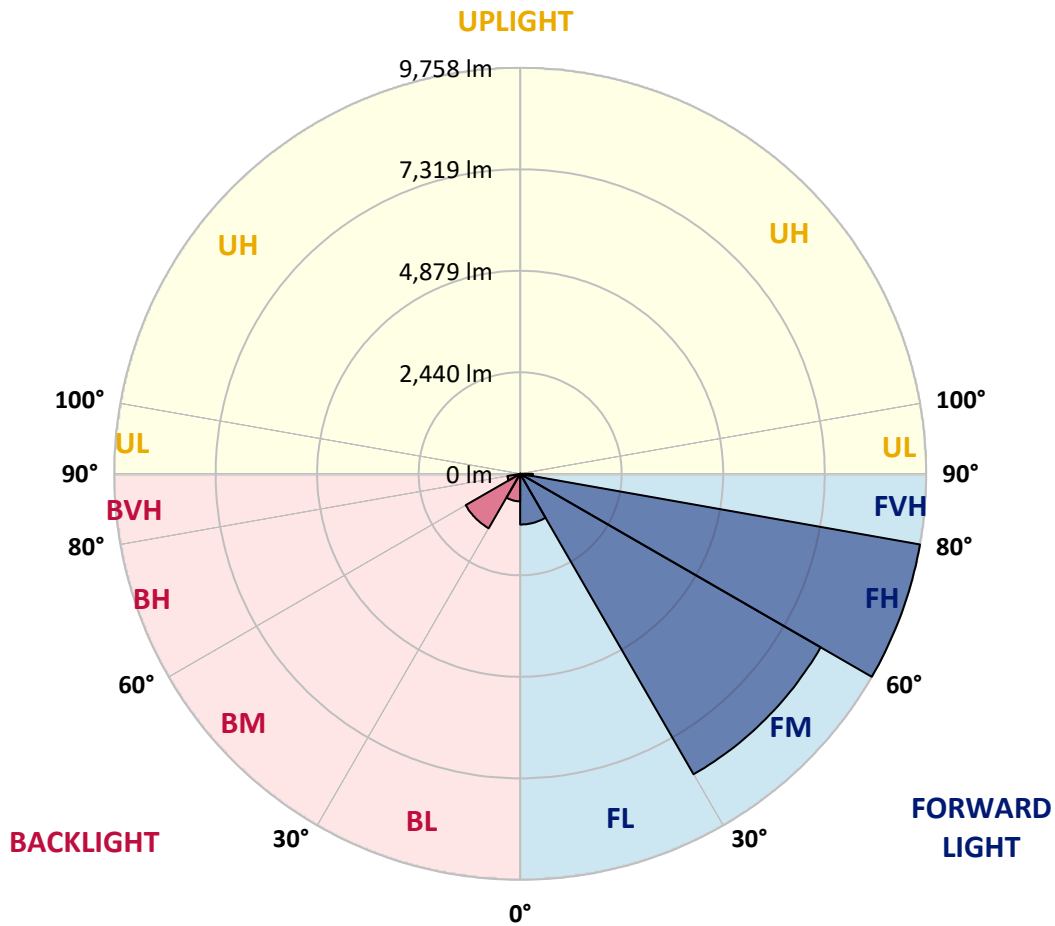
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1218.9	5.5			
FM (30°-60°)	8338.4	37.7			
FH (60°-80°)	9758.3	44.1			G4/12000
FVH (80°-90°)	307.7	1.4			G3/500
BL (0°-30°)	661.3	3.0	B2/1000		
BM (30°-60°)	1510.8	6.8	B2/2500		
BH (60°-80°)	312.3	1.4	B1/500		G1/500
BVH (80°-90°)	4.2	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°	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8
2.5°	3062.2	3088.1	3093.0	3101.1	3101.1	3110.8	3127.0	3149.7	3186.9	3206.4
5°	2822.4	2841.8	2866.1	2885.6	2922.9	2927.7	2990.9	3052.5	3138.3	3203.1
7.5°	2581.0	2603.7	2636.1	2683.1	2731.7	2746.3	2841.8	2945.5	3081.6	3203.1
10°	2410.9	2412.5	2441.7	2488.6	2566.4	2584.2	2700.9	2848.3	3018.4	3183.7
12.5°	2315.3	2326.6	2339.6	2375.2	2449.8	2461.1	2585.9	2759.2	2955.3	3172.4
15°	2315.3	2323.4	2331.5	2349.3	2409.2	2419.0	2529.1	2702.5	2922.9	3177.2
17.5°	2339.6	2352.5	2346.1	2367.1	2430.3	2436.8	2534.0	2686.3	2921.2	3208.0
20°	2397.9	2407.6	2394.7	2407.6	2470.8	2483.8	2584.2	2717.1	2948.8	3261.5
22.5°	2490.3	2495.1	2464.3	2474.1	2538.9	2555.1	2671.7	2804.6	3015.2	3347.3
25°	2606.9	2616.6	2569.6	2581.0	2642.6	2662.0	2796.5	2935.8	3120.5	3465.6
27.5°	2741.4	2746.3	2705.7	2704.1	2783.5	2811.1	2947.2	3097.8	3261.5	3614.7
30°	2895.3	2909.9	2871.0	2864.5	2965.0	2987.7	3122.1	3297.1	3468.9	3838.3
32.5°	3016.8	3028.2	3005.5	3021.7	3123.8	3141.6	3334.4	3579.0	3794.5	4155.8
35°	3191.8	3198.3	3146.4	3175.6	3292.3	3337.6	3624.4	3974.4	4204.4	4554.4
37.5°	3825.3	3825.3	3605.0	3460.8	3572.6	3613.1	4021.4	4471.8	4709.9	5089.1
40°	4701.8	4687.3	4364.8	4070.0	4055.4	4134.8	4586.8	5098.8	5362.9	5730.7
42.5°	5636.7	5614.0	5174.9	4883.3	4834.7	4862.2	5239.8	5871.6	6140.6	6513.2
45°	6466.2	6459.8	6058.0	5665.9	5578.4	5665.9	6054.7	6775.7	6968.5	7360.6
47.5°	7161.3	7161.3	6868.1	6612.1	6566.7	6618.5	7158.1	7778.6	7760.8	8263.1
50°	7961.7	7955.2	7676.5	7566.4	7613.4	7686.3	8428.3	8835.0	8580.6	9149.3
52.5°	8522.3	8561.2	8465.6	8447.8	8687.6	8813.9	9718.0	9868.7	9314.6	9990.2
55°	8966.2	9011.6	9121.8	9246.5	9708.3	9873.5	10967.2	10848.9	9928.6	10719.3
57.5°	9594.9	9530.1	9700.2	9946.5	10693.4	10892.7	12177.5	11774.0	10422.8	11310.7
60°	10358.0	10367.7	10396.9	10708.0	11676.8	11932.8	13370.0	12649.0	10740.4	11673.6
62.5°	11275.0	11289.6	11349.6	11827.5	12997.3	13238.7	14640.2	13365.1	10886.2	11571.5
65°	11211.8	11273.4	11942.5	13577.3	15004.7	15242.9	16122.7	13867.4	10665.8	10638.3
67.5°	10213.8	10314.2	11433.8	15667.4	18031.3	18297.0	17914.6	13966.2	9714.8	8272.8
70°	8904.7	8940.3	10286.7	17546.8	21535.8	21804.8	19518.6	12879.0	7371.9	4614.4
72.5°	6953.9	6962.0	8541.7	17982.7	23437.9	23452.5	18259.7	9560.8	3964.6	1772.5
75°	4967.6	4918.9	5721.0	14583.5	20620.4	20785.6	13689.1	4484.7	1514.9	837.6
77.5°	2663.6	2717.1	3237.2	8648.7	14244.9	14526.8	7469.2	1292.9	771.2	570.3
80°	823.1	868.4	1326.9	3959.8	8068.6	8238.8	2768.9	575.2	537.9	406.7
82.5°	259.2	269.0	618.9	1664.0	3349.0	3426.7	802.0	325.7	367.8	269.0
85°	74.5	76.1	275.4	620.5	827.9	844.1	225.2	126.4	210.6	166.9
87.5°	8.1	25.9	103.7	103.7	72.9	71.3	24.3	27.5	59.9	21.1
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°
3204.8	0°	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8	3204.8
3219.4	2.5°	3211.3	3212.9	3191.8	3156.2	3117.3	3084.9	3044.4	3012.0	2989.3	2982.8
3248.5	5°	3233.9	3222.6	3162.6	3054.1	2924.5	2812.7	2687.9	2589.1	2524.3	2496.7
3279.3	7.5°	3268.0	3235.6	3104.3	2890.4	2642.6	2422.2	2198.6	2025.3	1915.1	1860.0
3308.5	10°	3297.1	3232.3	3007.1	2653.9	2274.8	1941.0	1639.6	1430.6	1314.0	1258.9
3342.5	12.5°	3324.7	3230.7	2880.7	2373.6	1860.0	1451.7	1171.4	1067.7	1035.3	1024.0
3397.6	15°	3376.5	3235.6	2721.9	2052.8	1446.8	1096.9	994.8	993.2	999.7	996.4
3481.8	17.5°	3447.8	3240.4	2542.1	1712.6	1116.3	967.3	962.4	977.0	986.7	981.8
3587.1	20°	3540.2	3259.9	2350.9	1375.6	959.2	934.9	946.2	959.2	967.3	959.2
3728.1	22.5°	3669.8	3293.9	2141.9	1105.0	908.9	915.4	925.1	939.7	947.8	936.5
3907.9	25°	3828.6	3347.3	1936.1	960.8	884.6	892.7	907.3	923.5	933.2	921.9
4134.8	27.5°	4034.3	3433.2	1746.6	928.4	860.3	865.2	886.3	910.6	923.5	908.9
4457.2	30°	4332.4	3574.2	1582.9	943.0	845.7	834.4	863.6	897.6	912.2	899.2
4896.3	32.5°	4727.8	3773.5	1482.5	965.6	839.3	798.8	826.3	870.1	894.4	886.3
5469.8	35°	5246.2	4076.4	1443.6	991.6	834.4	761.5	780.9	827.9	870.1	878.2
6192.4	37.5°	5874.9	4497.7	1454.9	1002.9	819.8	730.7	740.4	780.9	836.0	862.0
7005.8	40°	6589.4	4988.6	1519.8	991.6	803.6	704.8	706.4	737.2	785.8	824.7
7880.7	42.5°	7326.6	5562.2	1639.6	949.4	789.0	682.1	677.2	698.3	730.7	758.3
8754.0	45°	8028.1	6151.9	1757.9	891.1	771.2	659.4	648.1	656.2	662.7	674.0
9604.6	47.5°	8640.6	6566.7	1723.9	837.6	746.9	633.5	614.1	610.8	591.4	589.8
10364.5	50°	9063.4	6657.4	1531.1	784.2	711.3	604.3	573.6	554.1	520.1	503.9
10933.2	52.5°	9197.9	6299.4	1250.8	730.7	652.9	565.5	521.7	490.9	448.8	434.2
11260.4	55°	9019.7	5597.8	999.7	665.9	571.9	513.6	465.0	424.5	390.5	372.6
11296.1	57.5°	8583.9	4705.1	790.7	589.8	486.1	455.3	406.7	366.2	337.0	319.2
10900.8	60°	7861.2	3736.2	625.4	499.0	414.8	392.1	341.9	315.9	290.0	269.0
9880.0	62.5°	6764.4	2666.9	490.9	395.3	346.7	320.8	291.6	272.2	241.4	212.2
8044.3	65°	5278.6	1631.5	379.1	290.0	278.7	265.7	247.9	230.1	192.8	163.6
5247.9	67.5°	3329.5	772.8	270.6	218.7	220.3	213.9	205.8	191.2	163.6	137.7
2350.9	70°	1466.3	374.3	178.2	166.9	163.6	163.6	170.1	165.3	139.3	115.0
816.6	72.5°	499.0	200.9	132.9	126.4	118.3	116.7	142.6	137.7	111.8	89.1
406.7	75°	260.9	134.5	97.2	90.7	71.3	85.9	113.4	106.9	79.4	58.3
269.0	77.5°	170.1	95.6	66.4	58.3	40.5	56.7	84.3	74.5	47.0	29.2
176.6	80°	106.9	63.2	38.9	27.5	19.4	30.8	45.4	32.4	17.8	6.5
103.7	82.5°	56.7	32.4	14.6	9.7	8.1	9.7	11.3	8.1	3.2	0.0
53.5	85°	22.7	11.3	4.9	3.2	1.6	0.0	3.2	1.6	0.0	0.0
9.7	87.5°	8.1	1.6	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

180°
3204.8
2994.1
2506.5
1868.1
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908.9
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