

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: P942198

Luminaire Tested: **GALN-SB6A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942198
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-SB6A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 18506 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

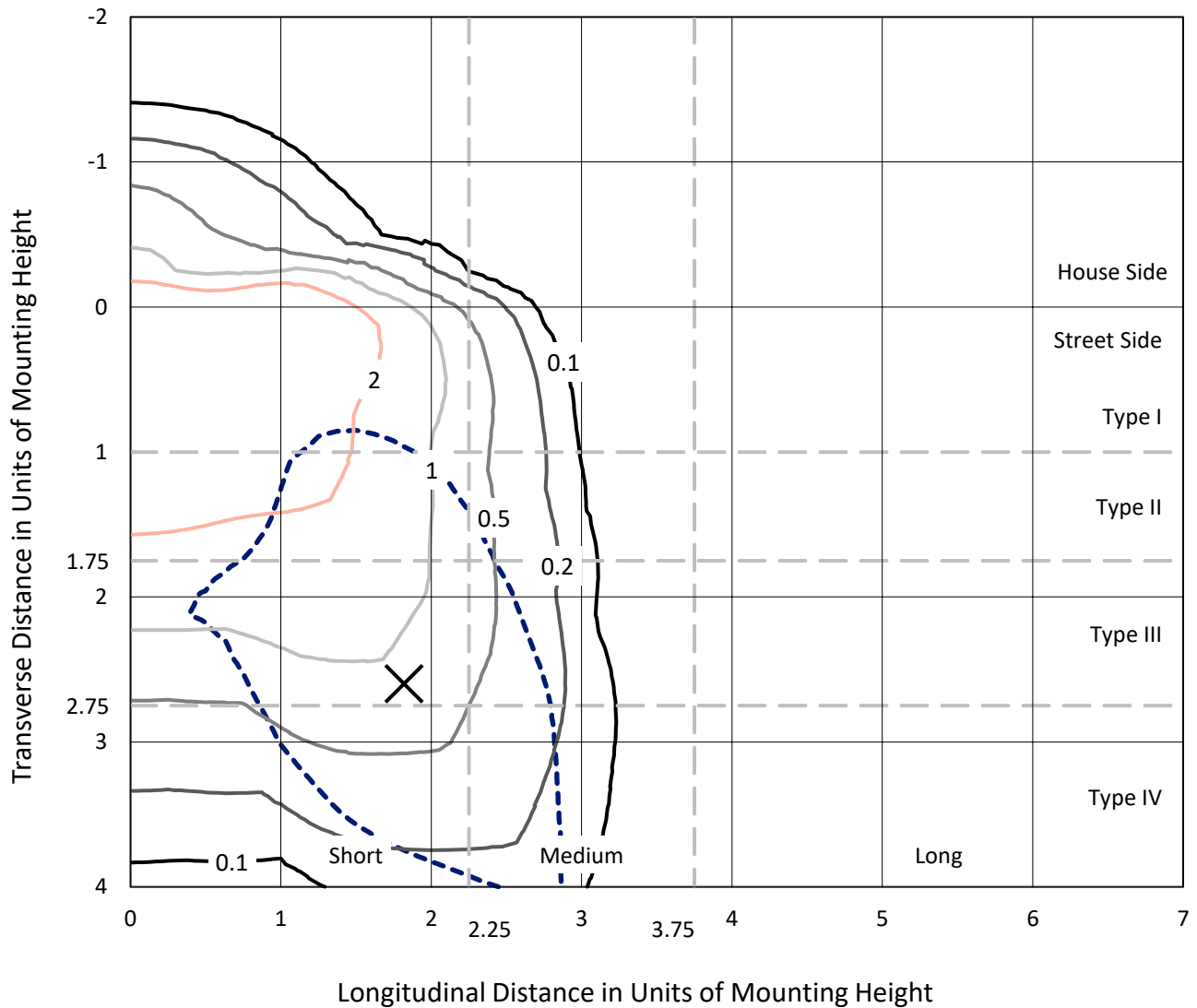
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

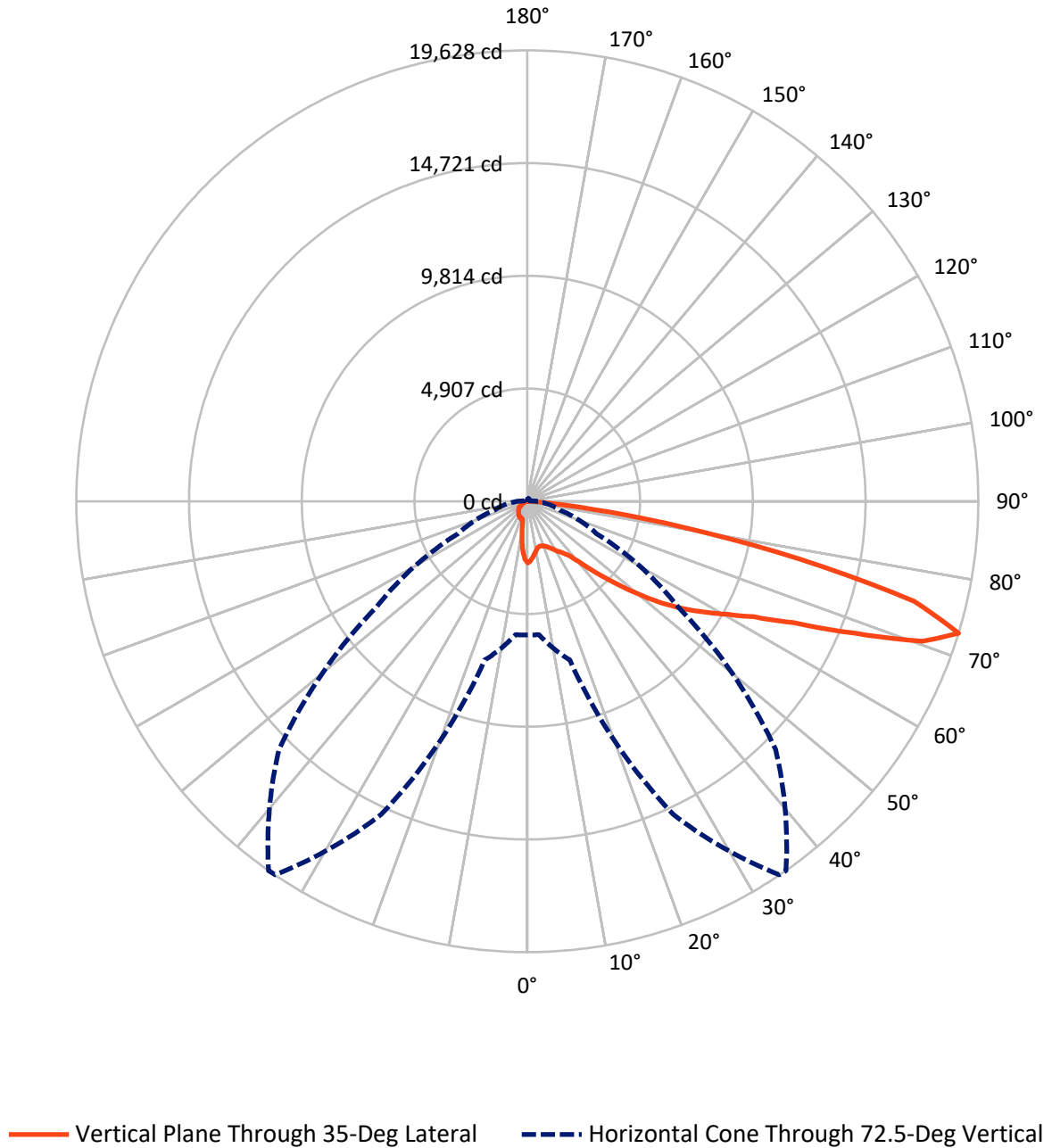
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2082.8	0.0	2082.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16423.2	0.0	16423.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	18506.0	0.0	18506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.2
10°-20°	515.6	2.8
20°-30°	837.6	4.5
30°-40°	1397.5	7.6
40°-50°	2644.1	14.3
50°-60°	4201.4	22.7
60°-70°	5197.5	28.1
70°-80°	3230.8	17.5
80°-90°	261.1	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°	18506.0	100.0
0°-180°	18506.0	100.0

Coefficient of Utilization



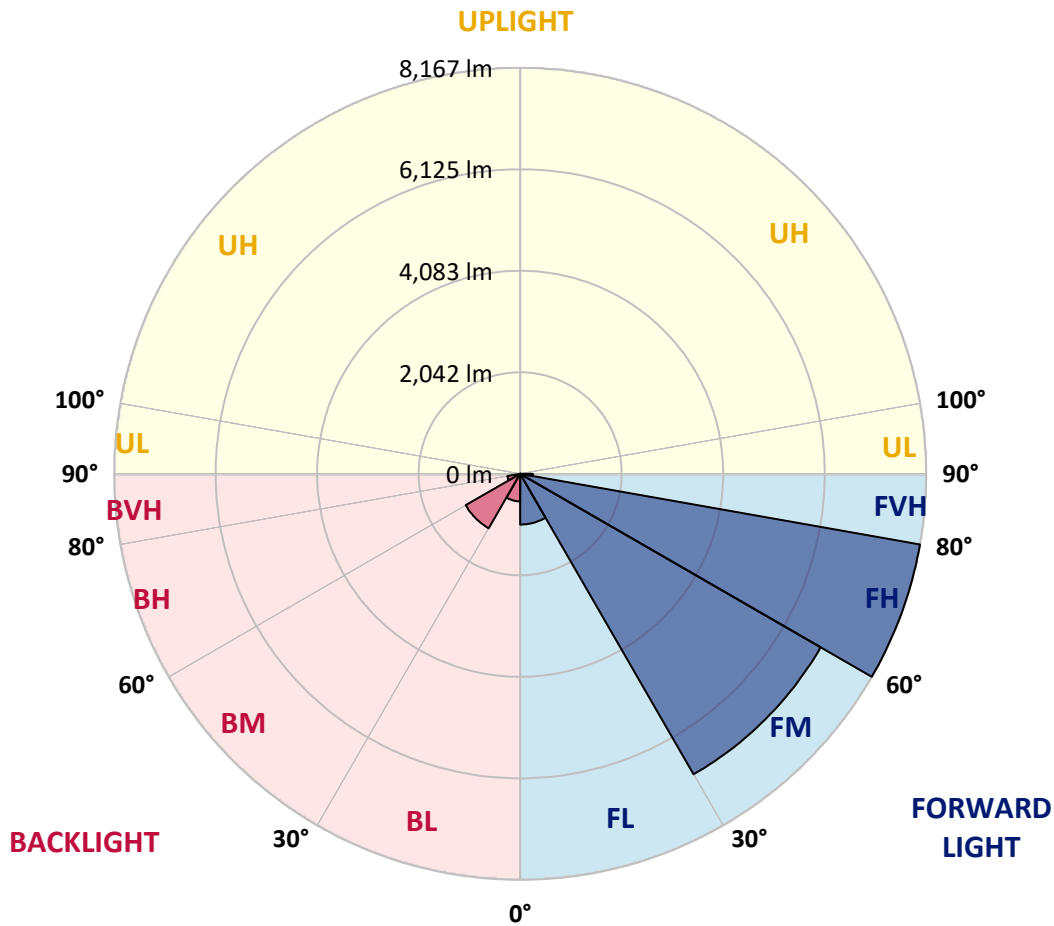
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.2	5.5			
FM (30°-60°)	6978.6	37.7			
FH (60°-80°)	8166.9	44.1			G4/12000
FVH (80°-90°)	257.5	1.4			G3/500
BL (0°-30°)	553.4	3.0	B2/1000		
BM (30°-60°)	1264.4	6.8	B2/2500		
BH (60°-80°)	261.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.6	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°	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1
2.5°	2562.8	2584.5	2588.6	2595.4	2595.4	2603.5	2617.1	2636.0	2667.2	2683.5
5°	2362.1	2378.4	2398.7	2415.0	2446.2	2450.3	2503.1	2554.7	2626.5	2680.8
7.5°	2160.1	2179.1	2206.2	2245.5	2286.2	2298.4	2378.4	2465.2	2579.1	2680.8
10°	2017.7	2019.1	2043.5	2082.8	2147.9	2162.8	2260.4	2383.8	2526.2	2664.5
12.5°	1937.7	1947.2	1958.0	1987.9	2050.3	2059.7	2164.2	2309.2	2473.3	2655.0
15°	1937.7	1944.5	1951.3	1966.2	2016.4	2024.5	2116.7	2261.8	2446.2	2659.1
17.5°	1958.0	1968.9	1963.5	1981.1	2034.0	2039.4	2120.8	2248.2	2444.8	2684.9
20°	2006.9	2015.0	2004.1	2015.0	2067.9	2078.7	2162.8	2274.0	2467.9	2729.6
22.5°	2084.2	2088.2	2062.5	2070.6	2124.8	2138.4	2236.0	2347.2	2523.5	2801.5
25°	2181.8	2189.9	2150.6	2160.1	2211.6	2227.9	2340.4	2457.0	2611.6	2900.5
27.5°	2294.3	2298.4	2264.5	2263.1	2329.6	2352.6	2466.5	2592.6	2729.6	3025.2
30°	2423.1	2435.4	2402.8	2397.4	2481.5	2500.4	2613.0	2759.4	2903.2	3212.3
32.5°	2524.8	2534.3	2515.4	2528.9	2614.3	2629.3	2790.6	2995.4	3175.7	3478.1
35°	2671.3	2676.7	2633.3	2657.7	2755.4	2793.3	3033.3	3326.2	3518.8	3811.7
37.5°	3201.5	3201.5	3017.1	2896.4	2989.9	3023.8	3365.6	3742.5	3941.9	4259.2
40°	3935.1	3922.9	3653.0	3406.2	3394.0	3460.5	3838.8	4267.3	4488.3	4796.1
42.5°	4717.5	4698.5	4331.0	4086.9	4046.3	4069.3	4385.3	4914.1	5139.2	5451.1
45°	5411.7	5406.3	5070.0	4741.9	4668.7	4741.9	5067.3	5670.7	5832.1	6160.2
47.5°	5993.5	5993.5	5748.0	5533.8	5495.8	5539.2	5990.7	6510.1	6495.2	6915.5
50°	6663.3	6657.9	6424.7	6332.5	6371.8	6432.8	7053.8	7394.2	7181.3	7657.3
52.5°	7132.5	7165.0	7085.0	7070.1	7270.8	7376.6	8133.2	8259.3	7795.6	8361.0
55°	7504.0	7542.0	7634.2	7738.6	8125.1	8263.4	9178.7	9079.7	8309.5	8971.2
57.5°	8030.1	7975.9	8118.3	8324.4	8949.5	9116.3	10191.6	9853.9	8723.1	9466.1
60°	8668.8	8677.0	8701.4	8961.7	9772.6	9986.8	11189.6	10586.2	8988.8	9769.9
62.5°	9436.3	9448.5	9498.7	9898.7	10877.7	11079.8	12252.7	11185.5	9110.9	9684.5
65°	9383.4	9434.9	9995.0	11363.2	12557.8	12757.1	13493.4	11605.9	8926.5	8903.4
67.5°	8548.1	8632.2	9569.2	13112.4	15090.8	15313.1	14993.1	11688.6	8130.5	6923.7
70°	7452.5	7482.3	8609.2	14685.3	18023.8	18248.9	16335.6	10778.7	6169.7	3861.8
72.5°	5819.9	5826.7	7148.8	15050.1	19615.7	19627.9	15282.0	8001.7	3318.1	1483.4
75°	4157.5	4116.8	4788.0	12205.2	17257.6	17395.9	11456.7	3753.4	1267.8	701.0
77.5°	2229.2	2274.0	2709.3	7238.3	11921.8	12157.8	6251.1	1082.1	645.4	477.3
80°	688.8	726.8	1110.6	3314.0	6752.8	6895.2	2317.4	481.4	450.2	340.4
82.5°	217.0	225.1	518.0	1392.6	2802.8	2867.9	671.2	272.6	307.8	225.1
85°	62.4	63.7	230.5	519.3	692.9	706.5	188.5	105.8	176.3	139.7
87.5°	6.8	21.7	86.8	86.8	61.0	59.7	20.3	23.1	50.2	17.6
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°
2682.1	0°	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1	2682.1
2694.3	2.5°	2687.6	2688.9	2671.3	2641.5	2608.9	2581.8	2547.9	2520.8	2501.8	2496.4
2718.8	5°	2706.5	2697.1	2646.9	2556.0	2447.6	2354.0	2249.6	2166.9	2112.6	2089.6
2744.5	7.5°	2735.0	2707.9	2598.1	2419.1	2211.6	2027.2	1840.1	1695.0	1602.8	1556.7
2768.9	10°	2759.4	2705.2	2516.7	2221.1	1903.8	1624.5	1372.3	1197.3	1099.7	1053.6
2797.4	12.5°	2782.5	2703.8	2410.9	1986.5	1556.7	1215.0	980.4	893.6	866.5	857.0
2843.5	15°	2825.9	2707.9	2278.1	1718.0	1210.9	918.0	832.6	831.2	836.6	833.9
2914.0	17.5°	2885.5	2712.0	2127.5	1433.3	934.3	809.5	805.5	817.7	825.8	821.7
3002.2	20°	2962.8	2728.2	1967.5	1151.2	802.7	782.4	791.9	802.7	809.5	802.7
3120.1	22.5°	3071.3	2756.7	1792.6	924.8	760.7	766.1	774.3	786.5	793.3	783.8
3270.6	25°	3204.2	2801.5	1620.4	804.1	740.4	747.1	759.4	772.9	781.0	771.6
3460.5	27.5°	3376.4	2873.3	1461.8	777.0	720.0	724.1	741.7	762.1	772.9	760.7
3730.3	30°	3625.9	2991.3	1324.8	789.2	707.8	698.3	722.7	751.2	763.4	752.6
4097.8	32.5°	3956.8	3158.1	1240.7	808.2	702.4	668.5	691.6	728.2	748.5	741.7
4577.8	35°	4390.7	3411.7	1208.2	829.9	698.3	637.3	653.6	692.9	728.2	734.9
5182.6	37.5°	4916.8	3764.2	1217.7	839.4	686.1	611.5	619.7	653.6	699.7	721.4
5863.3	40°	5514.8	4175.1	1271.9	829.9	672.6	589.9	591.2	617.0	657.7	690.2
6595.5	42.5°	6131.8	4655.1	1372.3	794.6	660.4	570.9	566.8	584.4	611.5	634.6
7326.4	45°	6718.9	5148.7	1471.2	745.8	645.4	551.9	542.4	549.2	554.6	564.1
8038.3	47.5°	7231.5	5495.8	1442.8	701.0	625.1	530.2	513.9	511.2	494.9	493.6
8674.2	50°	7585.4	5571.7	1281.4	656.3	595.3	505.8	480.0	463.7	435.3	421.7
9150.2	52.5°	7697.9	5272.1	1046.8	611.5	546.5	473.2	436.6	410.9	375.6	363.4
9424.1	55°	7548.8	4684.9	836.6	557.3	478.7	429.8	389.2	355.3	326.8	311.9
9453.9	57.5°	7184.0	3937.8	661.7	493.6	406.8	381.0	340.4	306.5	282.0	267.1
9123.1	60°	6579.2	3126.9	523.4	417.6	347.1	328.1	286.1	264.4	242.7	225.1
8268.8	62.5°	5661.2	2232.0	410.9	330.9	290.2	268.5	244.1	227.8	202.0	177.6
6732.5	65°	4417.8	1365.5	317.3	242.7	233.2	222.4	207.5	192.5	161.4	137.0
4392.0	67.5°	2786.6	646.8	226.4	183.1	184.4	179.0	172.2	160.0	137.0	115.3
1967.5	70°	1227.2	313.2	149.2	139.7	137.0	137.0	142.4	138.3	116.6	96.3
683.4	72.5°	417.6	168.1	111.2	105.8	99.0	97.6	119.3	115.3	93.6	74.6
340.4	75°	218.3	112.5	81.4	75.9	59.7	71.9	94.9	89.5	66.4	48.8
225.1	77.5°	142.4	80.0	55.6	48.8	33.9	47.5	70.5	62.4	39.3	24.4
147.8	80°	89.5	52.9	32.5	23.1	16.3	25.8	38.0	27.1	14.9	5.4
86.8	82.5°	47.5	27.1	12.2	8.1	6.8	8.1	9.5	6.8	2.7	0.0
44.7	85°	19.0	9.5	4.1	2.7	1.4	0.0	2.7	1.4	0.0	0.0
8.1	87.5°	6.8	1.4	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>
2682.1
2505.9
2097.7
1563.5
1055.0
854.3
832.6
820.4
801.4
782.4
770.2
760.7
751.2
741.7
734.9
726.8
701.0
644.1
569.5
492.2
423.1
362.0
311.9
264.4
221.0
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