

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: P954026

Luminaire Tested: **GALN-SB7B-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18776 lumens
Efficiency: N/A
Efficacy: 73.1 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

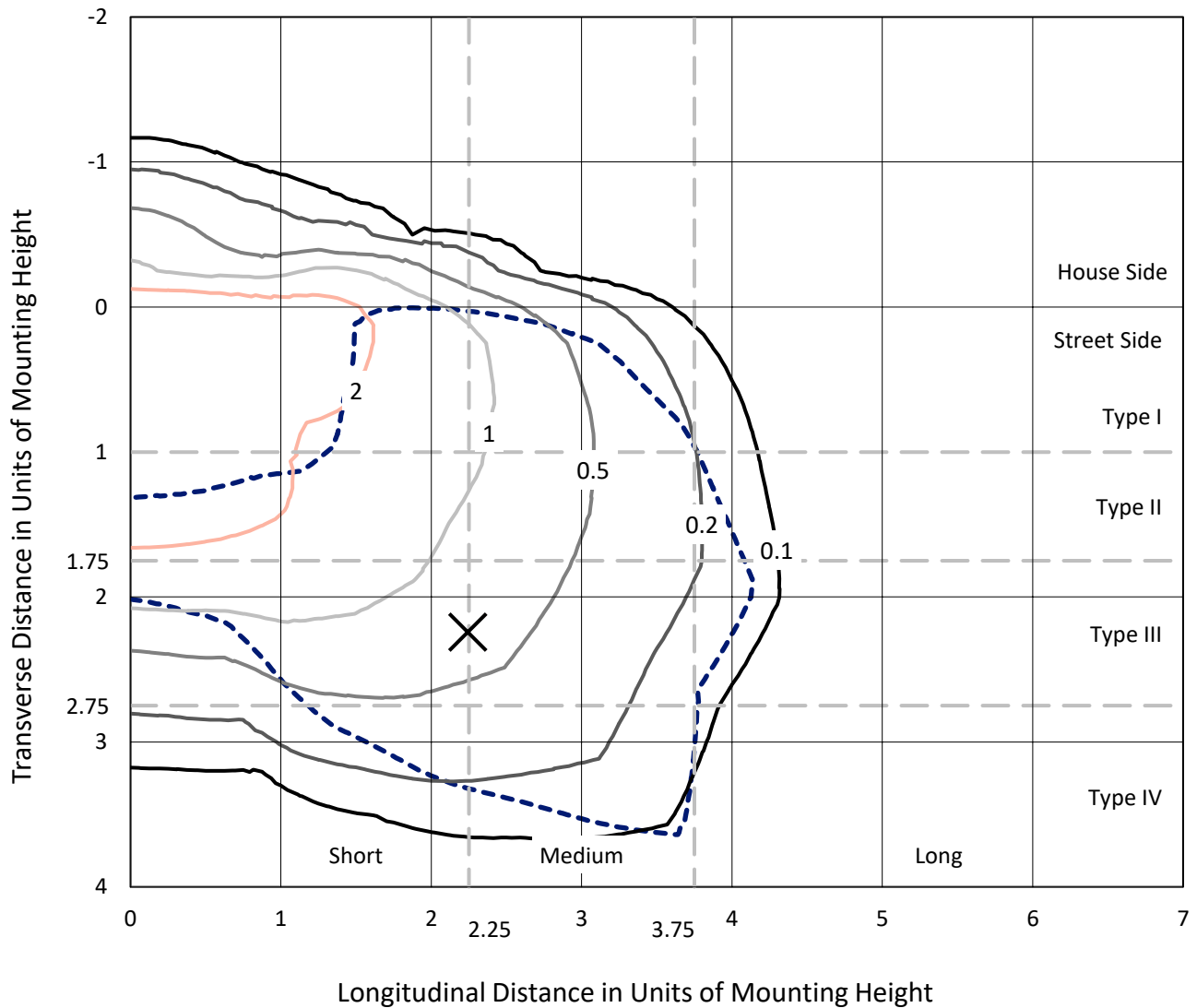
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

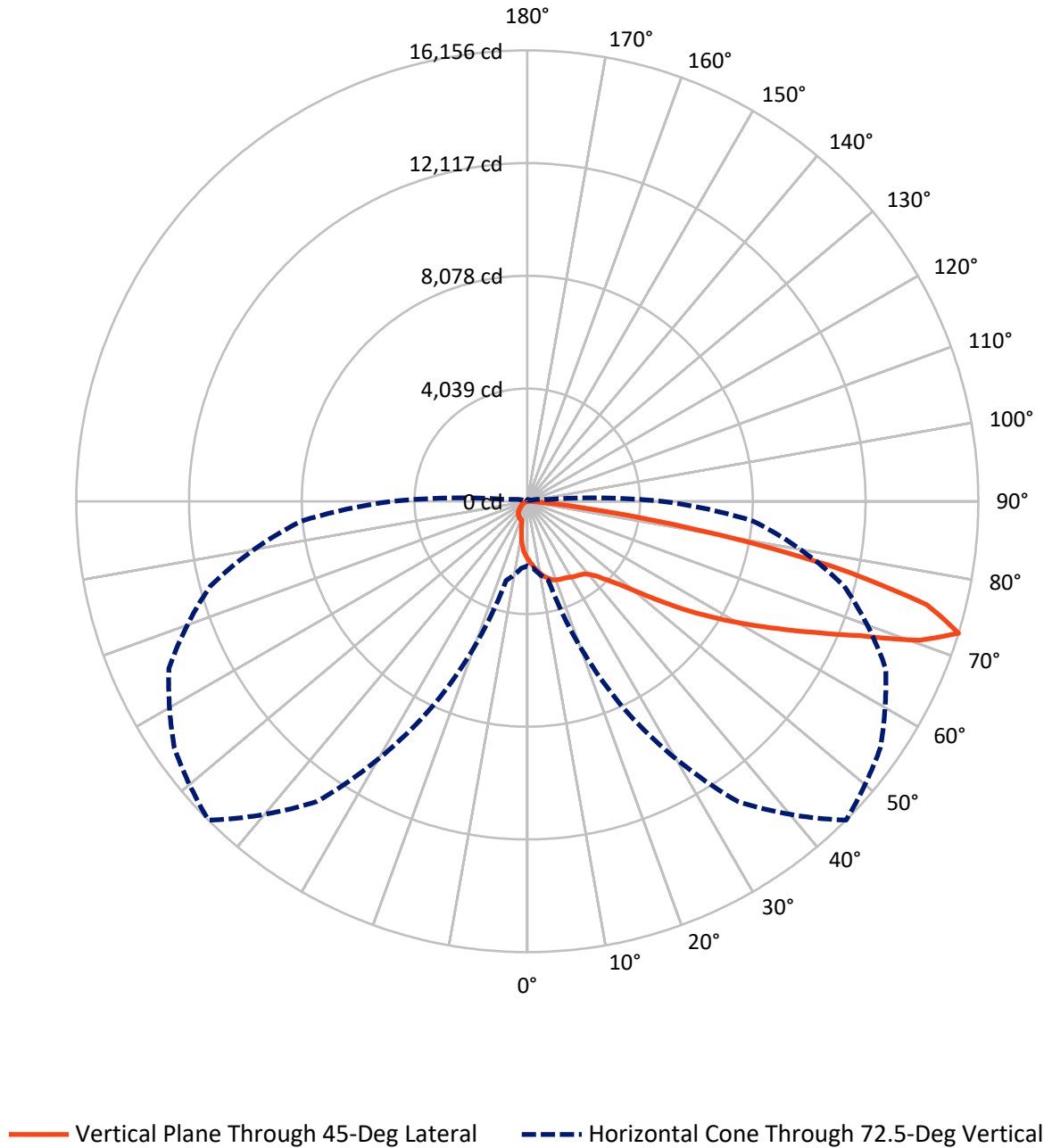
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1972.8	0.0	1972.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16803.2	0.0	16803.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	18776.0	0.0	18776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	1.0
10°-20°	566.4	3.0
20°-30°	930.1	5.0
30°-40°	1319.2	7.0
40°-50°	2180.4	11.6
50°-60°	3916.9	20.9
60°-70°	5438.8	29.0
70°-80°	3945.1	21.0
80°-90°	285.2	1.5
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°	18776.0	100.0
0°-180°	18776.0	100.0

Coefficient of Utilization



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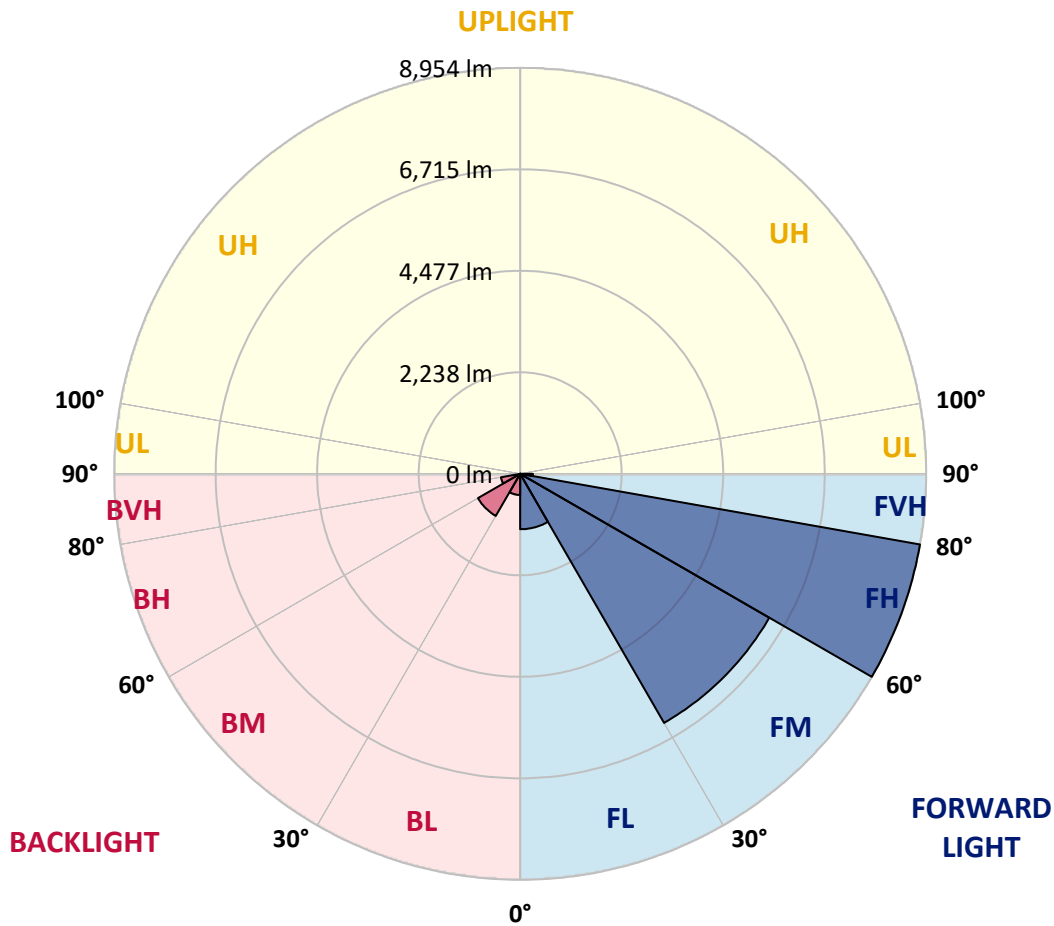
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.1	6.5			
FM (30°-60°)	6343.5	33.8			
FH (60°-80°)	8953.7	47.7			G4/12000
FVH (80°-90°)	282.8	1.5			G3/500
BL (0°-30°)	467.3	2.5	B1/500		
BM (30°-60°)	1072.9	5.7	B2/2500		
BH (60°-80°)	430.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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°	35°	45°	46°	55°	65°	75°
0°	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0
2.5°	2246.6	2250.5	2247.9	2232.5	2206.9	2192.8	2185.1	2159.5	2142.8	2113.3
5°	2453.0	2468.3	2459.4	2428.6	2379.9	2345.3	2335.1	2282.5	2235.1	2180.0
7.5°	2672.1	2679.8	2663.1	2623.4	2558.1	2499.1	2490.1	2417.1	2341.5	2256.9
10°	2861.8	2870.8	2845.1	2787.5	2713.1	2640.1	2627.3	2546.5	2456.8	2353.0
12.5°	3020.7	3029.7	2996.4	2927.1	2845.1	2769.5	2756.7	2672.1	2573.4	2458.1
15°	3141.2	3157.8	3113.0	3038.6	2950.2	2874.6	2868.2	2784.9	2688.8	2560.6
17.5°	3211.7	3228.3	3186.0	3096.3	3020.7	2956.6	2948.9	2879.7	2790.0	2667.0
20°	3223.2	3238.6	3193.7	3115.5	3052.7	3001.5	2997.6	2947.7	2882.3	2764.4
22.5°	3188.6	3207.8	3166.8	3104.0	3060.4	3033.5	3028.4	3000.2	2963.0	2863.1
25°	3152.7	3168.1	3137.3	3082.2	3059.2	3056.6	3060.4	3055.3	3047.6	2963.0
27.5°	3150.1	3166.8	3132.2	3079.7	3066.8	3093.8	3097.6	3122.0	3128.4	3054.0
30°	3171.9	3183.5	3150.1	3095.0	3088.6	3150.1	3151.4	3195.0	3205.3	3130.9
32.5°	3219.4	3232.2	3198.8	3118.1	3109.1	3195.0	3198.8	3256.5	3273.2	3212.9
35°	3330.9	3346.2	3307.8	3182.2	3150.1	3237.3	3248.8	3316.8	3350.1	3300.1
37.5°	3609.0	3564.1	3511.6	3311.6	3243.7	3303.9	3323.2	3402.6	3461.6	3403.9
40°	4299.7	4158.8	3994.7	3532.1	3407.7	3446.2	3461.6	3541.0	3621.8	3565.4
42.5°	5336.5	5169.9	4905.9	4039.6	3655.1	3674.3	3685.9	3755.1	3869.1	3824.3
45°	6260.6	6200.3	5931.2	4905.9	4117.7	4022.9	4037.0	4072.9	4240.8	4224.1
47.5°	6970.6	6936.0	6728.3	5900.4	4899.5	4449.7	4489.4	4506.1	4748.3	4807.2
50°	7516.5	7503.7	7317.9	6784.7	5920.9	5078.9	5093.0	5057.2	5419.8	5565.9
52.5°	8031.7	8075.3	7938.2	7606.2	7011.6	5903.0	5900.4	5731.3	6220.8	6441.3
55°	8496.9	8512.3	8526.4	8444.4	8108.6	6841.1	6816.8	6539.9	7150.0	7378.1
57.5°	8934.0	8940.4	9066.0	9233.9	9250.5	7848.5	7803.6	7471.7	8165.0	8327.8
60°	9227.4	9256.9	9522.2	9988.7	10192.5	8887.8	8863.5	8525.1	9198.0	9273.6
62.5°	8804.5	8983.9	9652.9	10578.2	11081.9	10040.0	10028.4	9710.6	10284.8	10223.2
65°	7126.9	7430.7	8607.2	10976.8	11954.7	11326.7	11343.3	11005.0	11401.0	11201.1
67.5°	4985.4	5305.8	6697.6	11008.9	12930.0	12837.7	12933.8	12403.2	12586.5	12137.9
70°	3447.5	3612.8	4518.9	10319.4	13689.9	14919.0	14916.4	14120.6	13765.6	12564.7
72.5°	2318.4	2404.3	2934.8	8186.8	13131.2	16155.7	16081.4	15432.9	14162.8	11750.9
75°	977.9	1040.7	1358.5	4600.9	10388.6	14780.6	14579.4	13638.7	12583.9	9253.1
77.5°	310.1	337.1	535.7	1646.8	5722.3	11110.1	10897.4	8517.4	8434.1	4641.9
80°	147.4	171.7	301.2	661.3	2251.8	6042.7	6013.2	3864.0	3628.2	1253.4
82.5°	64.1	75.6	166.6	353.7	1007.3	2155.6	2199.2	1314.9	1088.1	475.5
85°	20.5	26.9	76.9	162.8	425.5	535.7	529.3	312.7	438.3	258.9
87.5°	0.0	0.0	25.6	37.2	43.6	30.8	34.6	26.9	121.8	71.8
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°
2057.0	0°	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0	2057.0
2082.6	2.5°	2067.2	2046.7	2010.8	1977.5	1948.0	1918.5	1900.6	1875.0	1872.4	1872.4
2115.9	5°	2081.3	2048.0	1983.9	1916.0	1837.8	1763.5	1689.1	1617.4	1594.3	1577.6
2169.7	7.5°	2122.3	2069.8	1968.5	1839.1	1690.4	1527.7	1413.6	1290.6	1243.1	1217.5
2241.5	10°	2181.3	2109.5	1955.7	1728.9	1487.9	1266.2	1103.4	970.2	918.9	897.1
2319.7	12.5°	2246.6	2158.2	1932.6	1591.7	1266.2	1000.9	842.0	780.5	772.8	772.8
2413.2	15°	2324.8	2217.1	1892.9	1430.3	1034.2	792.0	735.6	738.2	745.9	751.0
2504.2	17.5°	2405.5	2279.9	1830.1	1249.5	829.2	712.6	713.8	717.7	724.1	729.2
2602.9	20°	2492.7	2342.7	1746.8	1057.3	711.3	689.5	693.3	697.2	702.3	704.9
2695.2	22.5°	2586.2	2401.7	1648.1	868.9	671.6	670.3	671.6	675.4	681.8	681.8
2802.8	25°	2686.2	2467.1	1535.3	731.8	651.0	651.0	653.6	656.2	661.3	661.3
2906.6	27.5°	2788.7	2527.3	1416.2	660.0	633.1	631.8	631.8	635.7	638.2	639.5
3009.2	30°	2901.5	2597.8	1297.0	644.6	619.0	612.6	608.8	611.3	613.9	615.2
3116.8	32.5°	3016.9	2665.7	1190.6	651.0	604.9	593.4	580.6	578.0	578.0	583.1
3228.3	35°	3145.0	2740.0	1108.6	672.8	597.2	565.2	544.7	533.1	534.4	542.1
3361.6	37.5°	3298.8	2829.7	1048.3	692.1	592.1	533.1	499.8	485.7	476.8	485.7
3544.9	40°	3500.0	2961.8	1004.8	707.4	585.7	496.0	451.1	428.1	411.4	416.5
3829.4	42.5°	3796.1	3169.4	988.1	708.7	571.6	452.4	401.1	370.4	346.0	347.3
4257.4	45°	4211.3	3497.5	1074.0	692.1	540.8	405.0	348.6	307.6	292.2	288.4
4897.0	47.5°	4780.3	3975.5	1272.6	657.5	496.0	358.8	297.3	262.7	251.2	244.8
5736.4	50°	5542.9	4589.4	1493.1	619.0	451.1	315.3	255.0	233.2	225.6	219.2
6732.2	52.5°	6427.2	5212.2	1673.8	580.6	406.3	276.8	228.1	215.3	208.9	203.8
7693.4	55°	7238.4	5641.6	1663.5	539.5	362.7	246.1	208.9	201.2	193.5	188.4
8521.3	57.5°	7743.4	5701.8	1371.3	494.7	312.7	221.7	191.0	185.8	176.9	170.5
9237.7	60°	7975.3	5358.3	961.2	435.7	262.7	198.6	171.7	169.2	157.6	148.7
9915.7	62.5°	8017.6	4720.1	640.8	362.7	219.2	176.9	152.5	148.7	133.3	117.9
10466.7	65°	7845.9	3807.6	443.4	283.2	187.1	153.8	130.7	123.0	106.4	91.0
10597.5	67.5°	7302.5	2673.4	308.9	203.8	158.9	121.8	103.8	101.2	88.4	75.6
9931.0	70°	6306.7	1523.8	206.3	152.5	125.6	83.3	82.0	84.6	71.8	61.5
8113.7	72.5°	4835.4	697.2	128.2	111.5	85.9	56.4	65.4	66.6	55.1	46.1
5062.3	75°	2846.4	298.6	80.7	71.8	43.6	37.2	47.4	48.7	37.2	29.5
1850.6	77.5°	968.9	112.8	51.3	42.3	21.8	20.5	30.8	30.8	20.5	11.5
371.7	80°	220.4	42.3	25.6	16.7	10.3	9.0	10.3	9.0	5.1	1.3
114.1	82.5°	62.8	16.7	10.3	6.4	3.8	3.8	1.3	0.0	0.0	0.0
39.7	85°	17.9	7.7	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
14.1	87.5°	7.7	1.3	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°
2057.0
1878.8
1585.3
1221.4
897.1
772.8
751.0
729.2
706.2
684.4
662.6
640.8
617.7
587.0
546.0
483.2
414.0
342.2
283.2
240.9
217.9
202.5
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