

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: P940524

Luminaire Tested: **GALN-SB3C-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15695 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

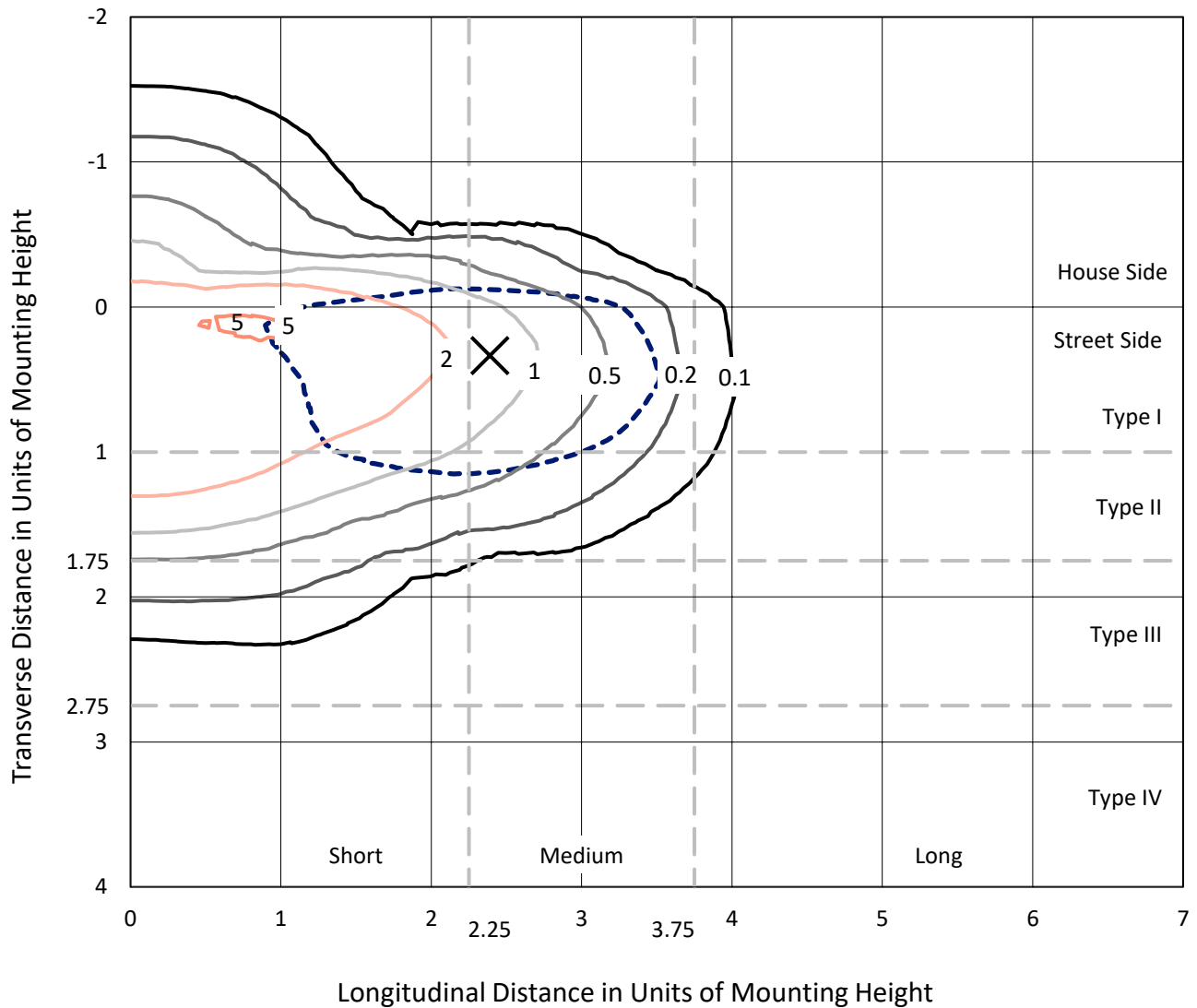
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

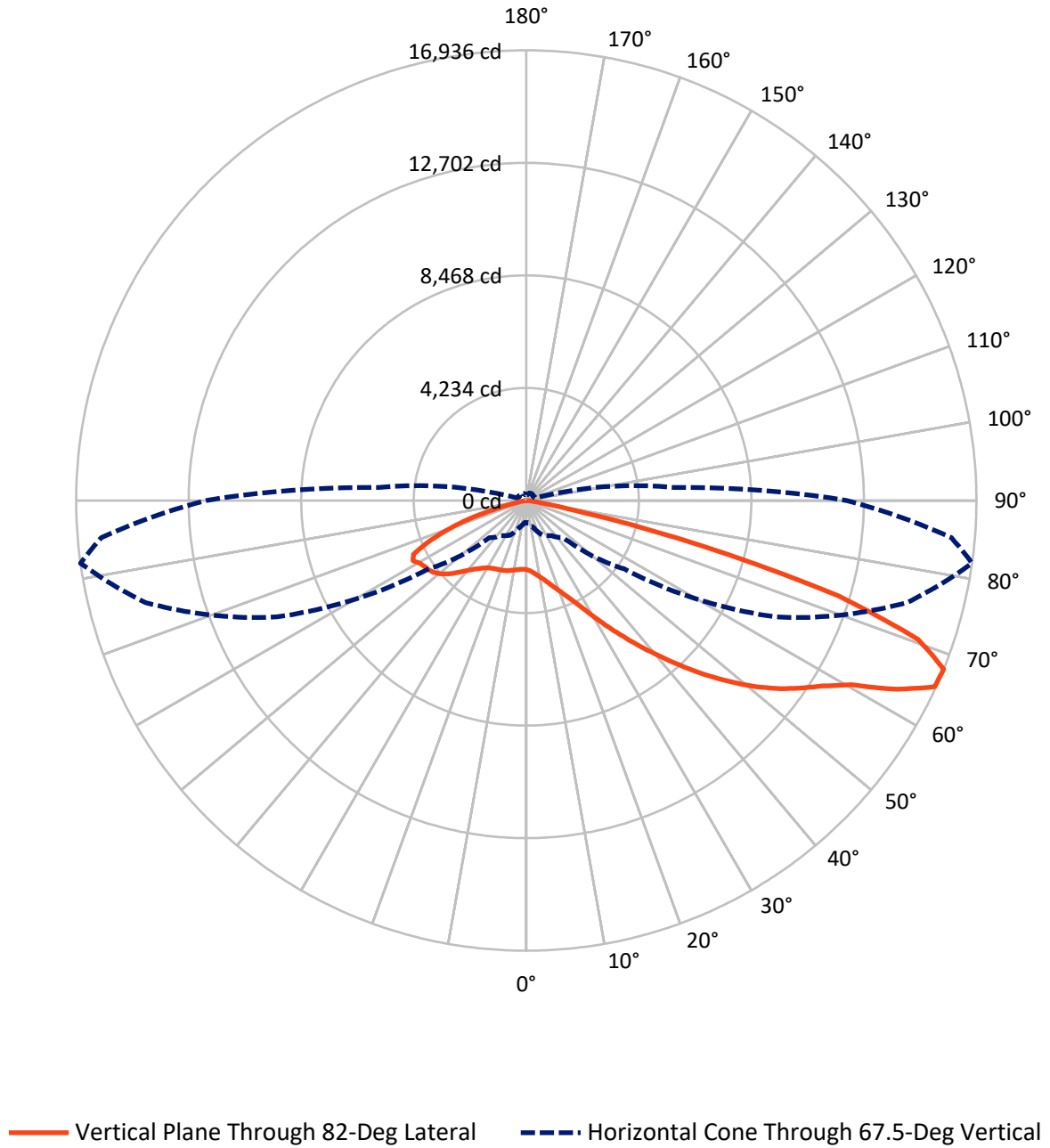
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2843.0	0.0	2843.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12852.0	0.0	12852.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	15695.0	0.0	15695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	1.5
10°-20°	602.0	3.8
20°-30°	964.2	6.1
30°-40°	1704.9	10.9
40°-50°	2987.2	19.0
50°-60°	3984.1	25.4
60°-70°	3709.0	23.6
70°-80°	1423.5	9.1
80°-90°	88.4	0.6
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°	15695.0	100.0
0°-180°	15695.0	100.0

Coefficient of Utilization



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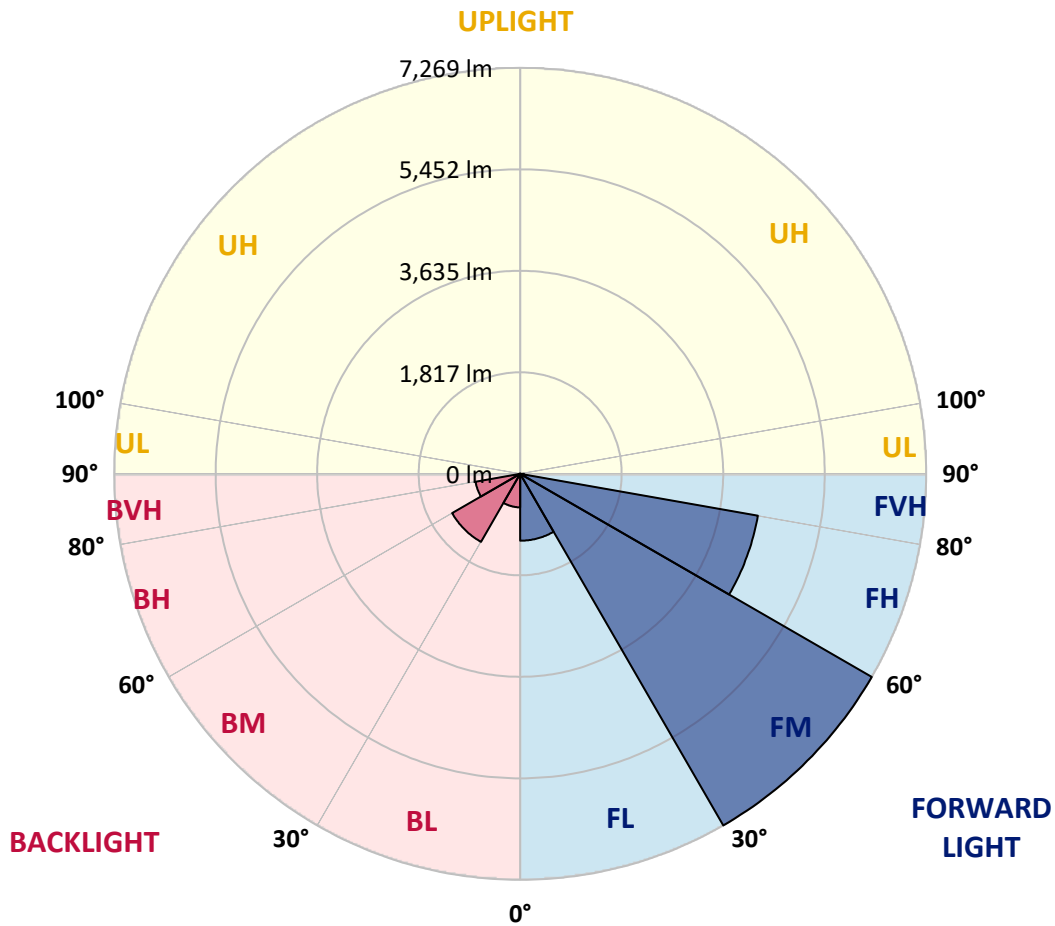
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.4	7.6			
FM (30°-60°)	7269.3	46.3			
FH (60°-80°)	4321.1	27.5			G2/5000
FVH (80°-90°)	64.3	0.4			G1/100
BL (0°-30°)	600.4	3.8	B2/1000		
BM (30°-60°)	1407.0	9.0	B2/2500		
BH (60°-80°)	811.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1
2.5°	2748.2	2764.0	2754.9	2750.4	2742.5	2731.2	2722.2	2693.9	2664.5	2645.3
5°	2803.5	2819.4	2818.2	2822.7	2828.4	2831.8	2829.5	2797.9	2756.1	2723.3
7.5°	2756.1	2774.2	2788.8	2811.4	2851.0	2892.8	2913.1	2906.4	2863.4	2818.2
10°	2621.6	2640.8	2675.8	2729.0	2812.6	2903.0	2978.7	3013.7	2986.6	2936.9
12.5°	2375.3	2394.5	2463.4	2578.7	2718.8	2875.9	3020.5	3114.3	3121.1	3071.3
15°	2098.4	2117.6	2191.1	2335.7	2549.3	2801.3	3043.1	3220.5	3280.4	3237.5
17.5°	1926.7	1943.6	1999.0	2115.4	2338.0	2652.1	3035.2	3333.5	3470.2	3436.3
20°	1874.7	1889.4	1915.4	1996.7	2182.0	2497.3	2983.2	3439.7	3674.8	3655.6
22.5°	1930.0	1943.6	1951.5	1987.7	2104.1	2395.6	2917.7	3548.2	3912.1	3914.3
25°	2057.7	2071.3	2062.3	2084.9	2135.7	2364.0	2892.8	3675.9	4210.4	4235.2
27.5°	2267.9	2269.0	2247.6	2246.4	2254.4	2411.4	2918.8	3812.6	4586.7	4633.0
30°	2689.4	2672.5	2590.0	2500.7	2460.0	2553.8	2991.1	3974.2	5030.8	5113.3
32.5°	3339.2	3314.3	3162.9	2949.3	2734.6	2783.2	3121.1	4158.4	5514.4	5663.6
35°	4044.3	4037.5	3879.3	3561.8	3186.6	3109.8	3332.4	4400.2	6042.1	6279.4
37.5°	4699.7	4696.3	4605.9	4231.9	3775.3	3565.2	3671.4	4716.6	6607.1	6950.6
40°	5298.6	5308.7	5218.3	4883.9	4424.0	4149.4	4132.4	5107.6	7235.4	7681.7
42.5°	5816.1	5827.4	5735.9	5488.4	5064.7	4795.7	4698.5	5586.7	7849.0	8467.1
45°	6167.5	6237.6	6224.0	6026.3	5722.3	5443.2	5378.8	6187.9	8548.5	9299.9
47.5°	6267.0	6331.4	6433.1	6460.2	6274.9	6000.3	6077.1	6912.2	9255.8	10133.8
50°	6021.8	6081.7	6293.0	6574.3	6703.2	6618.4	6756.3	7688.5	9980.2	10965.5
52.5°	5538.1	5599.2	5865.8	6311.1	6836.5	7103.2	7437.7	8453.5	10681.9	11753.1
55°	4838.7	4903.1	5245.5	5749.4	6582.3	7303.2	8006.1	9217.4	11324.9	12461.6
57.5°	3887.2	3934.7	4290.6	4995.7	5942.7	7104.3	8425.3	10051.4	11930.5	13157.7
60°	2533.5	2575.3	2988.9	3775.3	4882.7	6439.9	8508.9	10981.3	12735.1	14062.9
62.5°	1684.8	1713.1	1958.3	2535.7	3438.6	5164.1	8019.6	11723.8	13914.8	15638.1
65°	1156.0	1184.2	1429.5	1831.7	2221.6	3416.0	6612.8	11625.4	14983.8	16889.0
67.5°	824.9	848.6	1056.6	1436.2	1608.0	1984.3	4482.7	10368.9	14830.1	16936.4
70°	591.0	604.6	776.3	1118.7	1278.0	1192.2	2492.8	7930.3	12984.8	15639.2
72.5°	413.6	418.1	539.0	852.0	1029.4	870.1	1186.5	5287.3	9820.8	12275.2
75°	280.2	285.9	362.7	624.9	826.0	664.4	628.3	2835.2	5765.3	6794.7
77.5°	171.8	174.0	233.9	427.1	618.1	506.2	404.5	1201.2	2230.6	2189.9
80°	97.2	97.2	149.2	265.6	421.5	326.6	283.6	510.8	706.3	620.4
82.5°	54.2	55.4	108.5	165.0	279.1	193.2	155.9	236.2	305.1	270.1
85°	22.6	24.9	66.7	78.0	133.3	96.1	63.3	99.4	113.0	100.6
87.5°	2.3	3.4	20.3	14.7	15.8	19.2	9.0	19.2	15.8	15.8
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°
2600.1	0°	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1
2638.6	2.5°	2617.1	2600.1	2557.2	2507.5	2441.9	2410.3	2367.4	2338.0	2313.1	2315.4
2704.1	5°	2667.9	2625.0	2528.9	2409.2	2260.0	2153.8	2040.8	1962.8	1899.5	1886.0
2794.5	7.5°	2738.0	2670.2	2501.8	2286.0	2034.0	1843.0	1672.4	1562.8	1484.8	1460.0
2904.1	10°	2828.4	2730.1	2466.8	2131.2	1768.5	1525.5	1342.4	1256.6	1203.5	1185.4
3032.9	12.5°	2933.5	2799.0	2420.5	1942.5	1495.0	1261.1	1144.7	1101.8	1084.8	1079.2
3191.1	15°	3065.7	2884.9	2350.4	1718.7	1263.3	1099.5	1049.8	1044.1	1046.4	1044.1
3381.0	17.5°	3222.8	2978.7	2236.3	1488.2	1107.4	1017.0	998.9	1003.4	1009.1	1008.0
3593.4	20°	3394.5	3071.3	2090.5	1283.7	1001.2	958.2	948.1	952.6	957.1	954.9
3838.6	22.5°	3590.0	3170.8	1928.9	1124.4	930.0	904.0	892.7	893.8	893.8	889.3
4149.4	25°	3823.9	3280.4	1759.4	1011.4	875.8	855.4	841.9	837.3	830.6	817.0
4526.8	27.5°	4103.0	3396.8	1596.7	932.3	832.8	813.6	797.8	786.5	769.5	746.9
4979.9	30°	4417.2	3538.0	1458.8	882.5	798.9	779.7	761.6	744.7	719.8	691.6
5500.8	32.5°	4786.7	3689.5	1358.3	849.8	768.4	748.1	726.6	706.3	679.1	650.9
6086.2	35°	5227.4	3872.5	1299.5	827.2	744.7	717.6	693.8	671.2	650.9	626.0
6722.4	37.5°	5705.4	4066.9	1281.4	815.9	728.9	687.0	659.9	644.1	641.8	627.2
7410.5	40°	6228.6	4297.4	1295.0	809.1	711.9	657.7	628.3	624.9	630.5	604.6
8146.2	42.5°	6782.3	4570.9	1317.6	801.2	688.2	628.3	600.0	600.0	595.5	559.4
8923.6	45°	7381.2	4886.1	1340.2	782.0	659.9	598.9	577.4	569.5	550.3	515.3
9705.6	47.5°	7984.6	5207.0	1357.1	746.9	626.0	574.0	554.8	536.8	508.5	476.9
10472.8	50°	8557.5	5495.2	1339.1	695.0	587.6	550.3	530.0	505.1	474.6	453.1
11199.4	52.5°	9069.4	5744.9	1262.2	633.9	546.9	525.5	507.4	481.4	456.5	433.9
11854.8	55°	9514.6	5947.2	1126.6	576.3	510.8	504.0	485.9	453.1	419.2	400.0
12504.6	57.5°	9941.7	6100.9	957.1	528.8	478.0	480.3	453.1	423.8	392.1	371.8
13380.3	60°	10510.1	6306.5	785.4	484.8	443.0	449.7	420.4	398.9	359.3	333.4
14882.1	62.5°	11418.7	6626.3	623.8	430.5	402.3	404.5	392.1	366.1	318.7	288.2
15995.2	65°	12139.6	6508.8	491.6	371.8	356.0	359.3	359.3	331.1	280.2	245.2
16055.0	67.5°	12058.2	5573.2	392.1	314.1	311.9	314.1	322.1	298.3	248.6	220.4
14832.4	70°	11107.9	4433.0	314.1	261.0	271.2	265.6	288.2	272.3	223.7	195.5
11498.9	72.5°	9063.7	3193.4	239.6	215.8	207.9	217.0	259.9	245.2	186.5	154.8
6090.7	75°	5296.3	1704.0	178.5	170.6	150.3	180.8	230.5	209.1	142.4	114.1
1866.8	77.5°	1724.4	594.4	131.1	125.4	111.9	145.8	196.6	176.3	116.4	90.4
546.9	80°	462.2	179.7	89.3	82.5	72.3	108.5	155.9	140.1	83.6	58.8
235.0	82.5°	185.3	75.7	52.0	46.3	39.6	74.6	123.2	113.0	62.2	37.3
73.5	85°	59.9	24.9	19.2	14.7	18.1	46.3	73.5	76.8	44.1	19.2
11.3	87.5°	7.9	3.4	3.4	4.5	3.4	7.9	22.6	21.5	12.4	2.3
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°
2600.1
2292.8
1855.5
1435.1
1171.8
1075.8
1043.0
1005.7
953.7
887.1
814.7
744.7
689.3
652.0
623.8
626.0
605.7
559.4
514.2
475.7
449.7
431.7
397.8
369.5
330.0
285.9
241.8
215.8
192.1
151.4
110.7
87.0
57.6
37.3
14.7
0.0
0.0

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