

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: P941514

Luminaire Tested: **GALN-SB5A-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941514  
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-SB5A-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

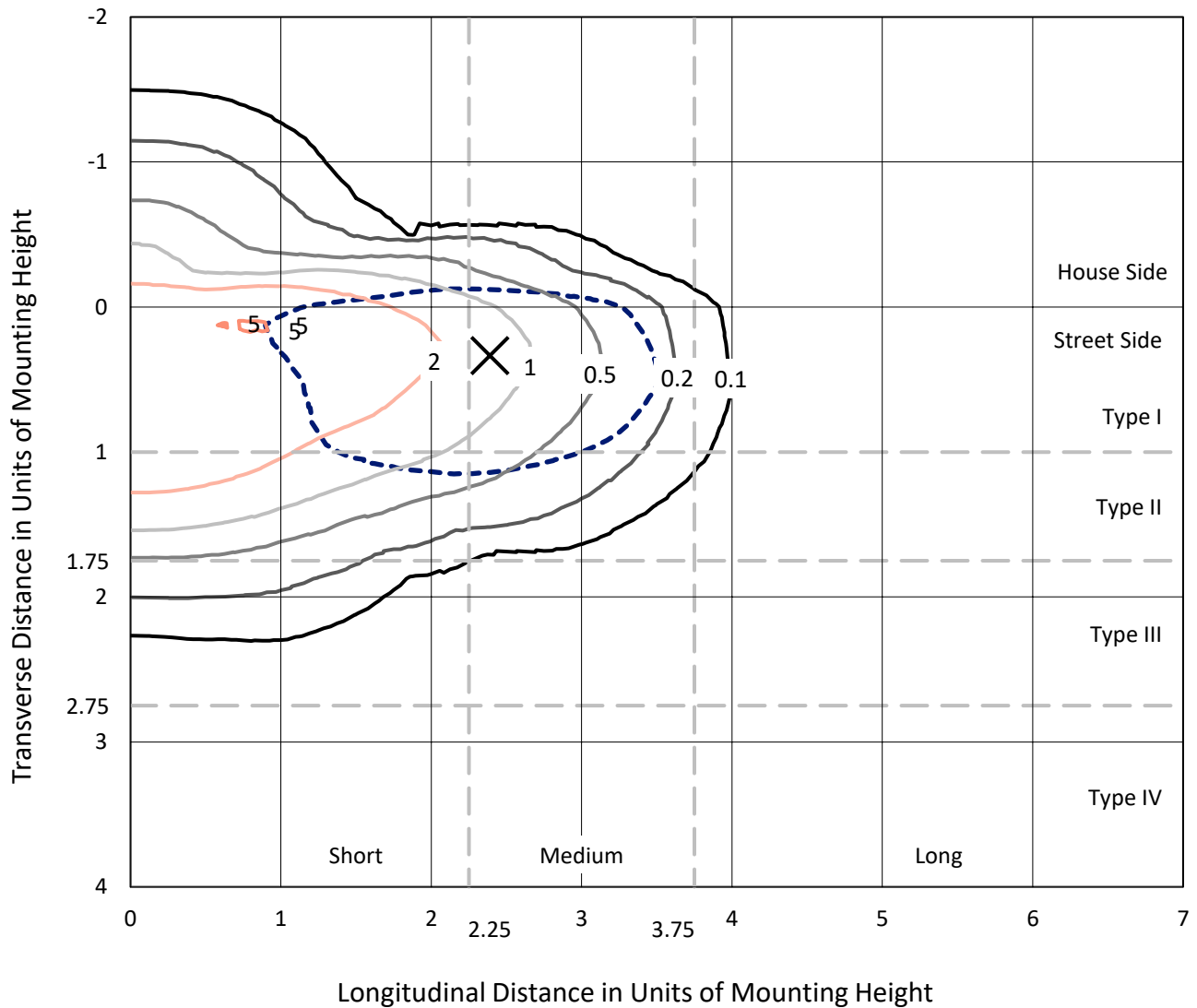
Lumens per Lamp: N/A  
Luminaire Lumens: 14868 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

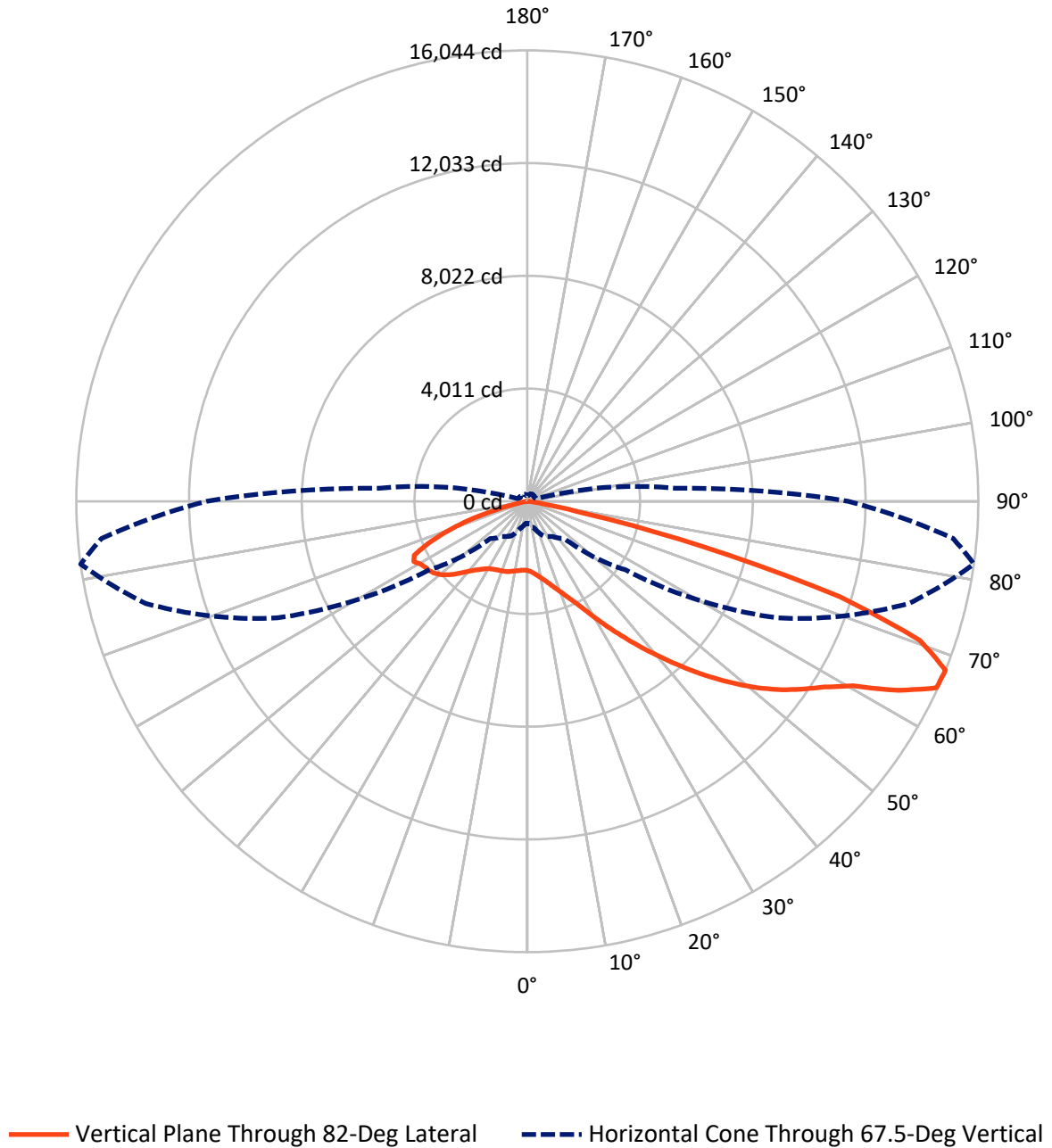
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2693.2	0.0	2693.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12174.8	0.0	12174.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14868.0	0.0	14868.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	1.5
10°-20°	570.3	3.8
20°-30°	913.4	6.1
30°-40°	1615.1	10.9
40°-50°	2829.8	19.0
50°-60°	3774.2	25.4
60°-70°	3513.6	23.6
70°-80°	1348.5	9.1
80°-90°	83.8	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°	14868.0	100.0
0°-180°	14868.0	100.0

**Coefficient of Utilization**



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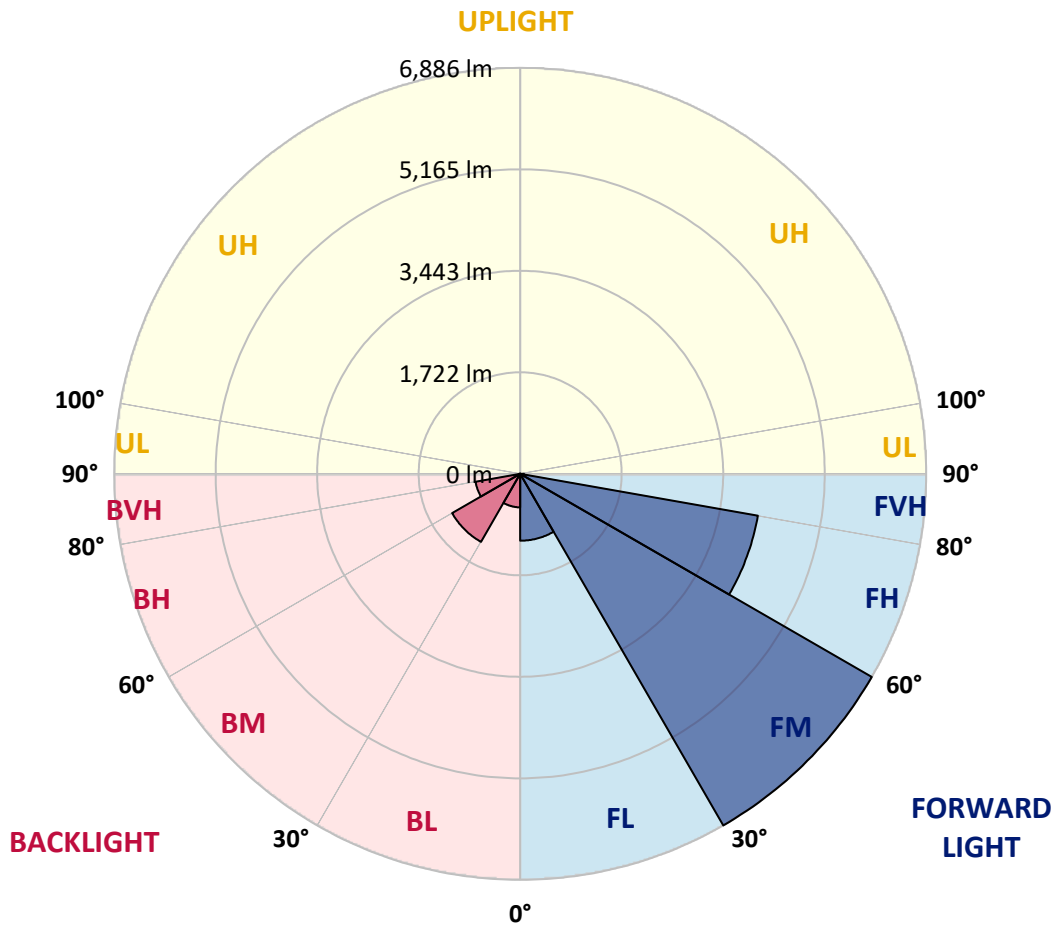
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.3	7.6			
FM (30°-60°)	6886.2	46.3			
FH (60°-80°)	4093.4	27.5			G2/5000
FVH (80°-90°)	60.9	0.4			G1/100
BL (0°-30°)	568.8	3.8	B2/1000		
BM (30°-60°)	1332.9	9.0	B2/2500		
BH (60°-80°)	768.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.9	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°	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1
2.5°	2603.4	2618.3	2609.8	2605.5	2598.0	2587.3	2578.7	2552.0	2524.1	2505.9
5°	2655.8	2670.8	2669.7	2674.0	2679.4	2682.6	2680.4	2650.5	2610.8	2579.8
7.5°	2610.8	2628.0	2641.9	2663.3	2700.8	2740.4	2759.6	2753.2	2712.5	2669.7
10°	2483.5	2501.7	2534.8	2585.2	2664.4	2750.0	2821.7	2854.9	2829.2	2782.1
12.5°	2250.1	2268.3	2333.6	2442.8	2575.5	2724.3	2861.3	2950.2	2956.6	2909.5
15°	1987.8	2006.0	2075.6	2212.6	2415.0	2653.7	2882.7	3050.8	3107.5	3066.9
17.5°	1825.1	1841.2	1893.6	2003.9	2214.8	2512.4	2875.3	3157.9	3287.4	3255.3
20°	1775.9	1789.8	1814.4	1891.5	2067.1	2365.7	2826.0	3258.5	3481.1	3462.9
22.5°	1828.3	1841.2	1848.7	1882.9	1993.2	2269.4	2763.9	3361.2	3705.9	3708.1
25°	1949.3	1962.1	1953.6	1975.0	2023.2	2239.4	2740.4	3482.2	3988.5	4012.1
27.5°	2148.4	2149.5	2129.1	2128.1	2135.6	2284.4	2765.0	3611.7	4345.0	4388.9
30°	2547.7	2531.6	2453.5	2368.9	2330.4	2419.2	2833.5	3764.8	4765.7	4843.8
32.5°	3163.2	3139.7	2996.2	2793.9	2590.5	2636.5	2956.6	3939.3	5223.8	5365.1
35°	3831.2	3824.7	3674.9	3374.1	3018.7	2945.9	3156.8	4168.4	5723.7	5948.5
37.5°	4452.0	4448.8	4363.2	4008.9	3576.4	3377.3	3477.9	4468.1	6259.0	6584.4
40°	5019.4	5029.0	4943.4	4626.5	4190.8	3930.7	3914.7	4838.5	6854.1	7277.0
42.5°	5509.6	5520.4	5433.6	5199.2	4797.8	4543.0	4451.0	5292.3	7435.4	8020.9
45°	5842.6	5908.9	5896.1	5708.8	5420.8	5156.4	5095.4	5861.8	8098.0	8809.9
47.5°	5936.8	5997.8	6094.1	6119.8	5944.3	5684.1	5756.9	6548.0	8768.1	9599.9
50°	5704.5	5761.2	5961.4	6227.9	6350.0	6269.7	6400.3	7283.4	9454.3	10387.7
52.5°	5246.3	5304.1	5556.7	5978.5	6476.3	6728.9	7045.8	8008.1	10119.0	11133.8
55°	4583.7	4644.7	4969.1	5446.5	6235.4	6918.4	7584.2	8731.7	10728.1	11805.0
57.5°	3682.4	3727.3	4064.5	4732.5	5629.5	6730.0	7981.3	9521.7	11301.9	12464.4
60°	2400.0	2439.6	2831.4	3576.4	4625.5	6100.5	8060.6	10402.7	12064.1	13321.9
62.5°	1596.1	1622.8	1855.1	2402.1	3257.4	4892.0	7597.0	11106.0	13181.6	14814.1
65°	1095.1	1121.8	1354.1	1735.2	2104.5	3236.0	6264.3	11012.9	14194.3	15999.1
67.5°	781.4	803.9	1000.9	1360.6	1523.3	1879.7	4246.5	9822.5	14048.7	16044.0
70°	559.8	572.7	735.4	1059.8	1210.7	1129.3	2361.4	7512.5	12300.6	14815.1
72.5°	391.8	396.1	510.6	807.1	975.2	824.3	1124.0	5008.7	9303.4	11628.4
75°	265.5	270.8	343.6	592.0	782.5	629.4	595.2	2685.8	5461.5	6436.7
77.5°	162.7	164.9	221.6	404.6	585.5	479.6	383.2	1137.9	2113.1	2074.5
80°	92.1	92.1	141.3	251.6	399.3	309.4	268.7	483.8	669.0	587.7
82.5°	51.4	52.5	102.8	156.3	264.4	183.0	147.7	223.7	289.0	255.8
85°	21.4	23.6	63.2	73.9	126.3	91.0	59.9	94.2	107.0	95.3
87.5°	2.1	3.2	19.3	13.9	15.0	18.2	8.6	18.2	15.0	15.0
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°
2463.1	0°	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1	2463.1
2499.5	2.5°	2479.2	2463.1	2422.4	2375.3	2313.3	2283.3	2242.6	2214.8	2191.2	2193.4
2561.6	5°	2527.4	2486.7	2395.7	2282.2	2140.9	2040.3	1933.2	1859.4	1799.4	1786.6
2647.2	7.5°	2593.7	2529.5	2370.0	2165.5	1926.8	1745.9	1584.3	1480.4	1406.6	1383.0
2751.1	10°	2679.4	2586.2	2336.8	2018.9	1675.3	1445.1	1271.7	1190.3	1140.0	1122.9
2873.1	12.5°	2778.9	2651.5	2292.9	1840.1	1416.2	1194.6	1084.4	1043.7	1027.6	1022.3
3023.0	15°	2904.2	2732.9	2226.6	1628.2	1196.8	1041.6	994.5	989.1	991.2	989.1
3202.8	17.5°	3052.9	2821.7	2118.4	1409.8	1049.0	963.4	946.3	950.6	955.9	954.8
3404.1	20°	3215.7	2909.5	1980.3	1216.0	948.4	907.7	898.1	902.4	906.7	904.5
3636.3	22.5°	3400.8	3003.7	1827.3	1065.1	881.0	856.4	845.7	846.7	846.7	842.5
3930.7	25°	3622.4	3107.5	1666.7	958.1	829.6	810.3	797.5	793.2	786.8	773.9
4288.3	27.5°	3886.8	3217.8	1512.6	883.1	788.9	770.7	755.7	745.0	729.0	707.6
4717.5	30°	4184.4	3351.6	1382.0	836.0	756.8	738.6	721.5	705.4	681.9	655.1
5211.0	32.5°	4534.5	3495.0	1286.7	805.0	727.9	708.6	688.3	669.0	643.3	616.6
5765.5	35°	4951.9	3668.5	1231.0	783.6	705.4	679.7	657.3	635.9	616.6	593.0
6368.2	37.5°	5404.7	3852.6	1213.9	772.9	690.4	650.8	625.1	610.2	608.0	594.1
7020.1	40°	5900.4	4071.0	1226.7	766.4	674.4	623.0	595.2	592.0	597.3	572.7
7716.9	42.5°	6424.9	4330.0	1248.2	759.0	651.9	595.2	568.4	568.4	564.1	529.9
8453.4	45°	6992.2	4628.7	1269.6	740.8	625.1	567.3	547.0	539.5	521.3	488.1
9194.2	47.5°	7563.9	4932.7	1285.6	707.6	593.0	543.8	525.6	508.5	481.7	451.7
9921.0	50°	8106.6	5205.6	1268.5	658.3	556.6	521.3	502.0	478.5	449.6	429.3
10609.3	52.5°	8591.5	5442.2	1195.7	600.5	518.1	497.8	480.6	456.0	432.5	411.1
11230.2	55°	9013.3	5633.8	1067.2	545.9	483.8	477.4	460.3	429.3	397.1	378.9
11845.7	57.5°	9417.9	5779.4	906.7	501.0	452.8	454.9	429.3	401.4	371.4	352.2
12675.3	60°	9956.3	5974.2	744.0	459.2	419.6	426.0	398.2	377.9	340.4	315.8
14097.9	62.5°	10817.0	6277.2	590.9	407.8	381.1	383.2	371.4	346.8	301.9	273.0
15152.3	65°	11499.9	6165.8	465.6	352.2	337.2	340.4	340.4	313.6	265.5	232.3
15209.1	67.5°	11422.9	5279.5	371.4	297.6	295.4	297.6	305.1	282.6	235.5	208.7
14050.8	70°	10522.6	4199.4	297.6	247.3	256.9	251.6	273.0	258.0	212.0	185.2
10893.0	72.5°	8586.1	3025.1	226.9	204.5	197.0	205.5	246.2	232.3	176.6	146.7
5769.8	75°	5017.2	1614.3	169.1	161.6	142.4	171.3	218.4	198.0	134.9	108.1
1768.4	77.5°	1633.5	563.1	124.2	118.8	106.0	138.1	186.3	167.0	110.3	85.6
518.1	80°	437.8	170.2	84.6	78.1	68.5	102.8	147.7	132.7	79.2	55.7
222.7	82.5°	175.6	71.7	49.2	43.9	37.5	70.7	116.7	107.0	58.9	35.3
69.6	85°	56.7	23.6	18.2	13.9	17.1	43.9	69.6	72.8	41.7	18.2
10.7	87.5°	7.5	3.2	3.2	4.3	3.2	7.5	21.4	20.3	11.8	2.1
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°
2463.1
2172.0
1757.7
1359.5
1110.1
1019.1
988.0
952.7
903.5
840.3
771.8
705.4
653.0
617.7
590.9
593.0
573.8
529.9
487.1
450.7
426.0
408.9
376.8
350.0
312.6
270.8
229.1
204.5
182.0
143.4
104.9
82.4
54.6
35.3
13.9
0.0
0.0

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