

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: P940494

Luminaire Tested: **GALN-SB3C-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940494  
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-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

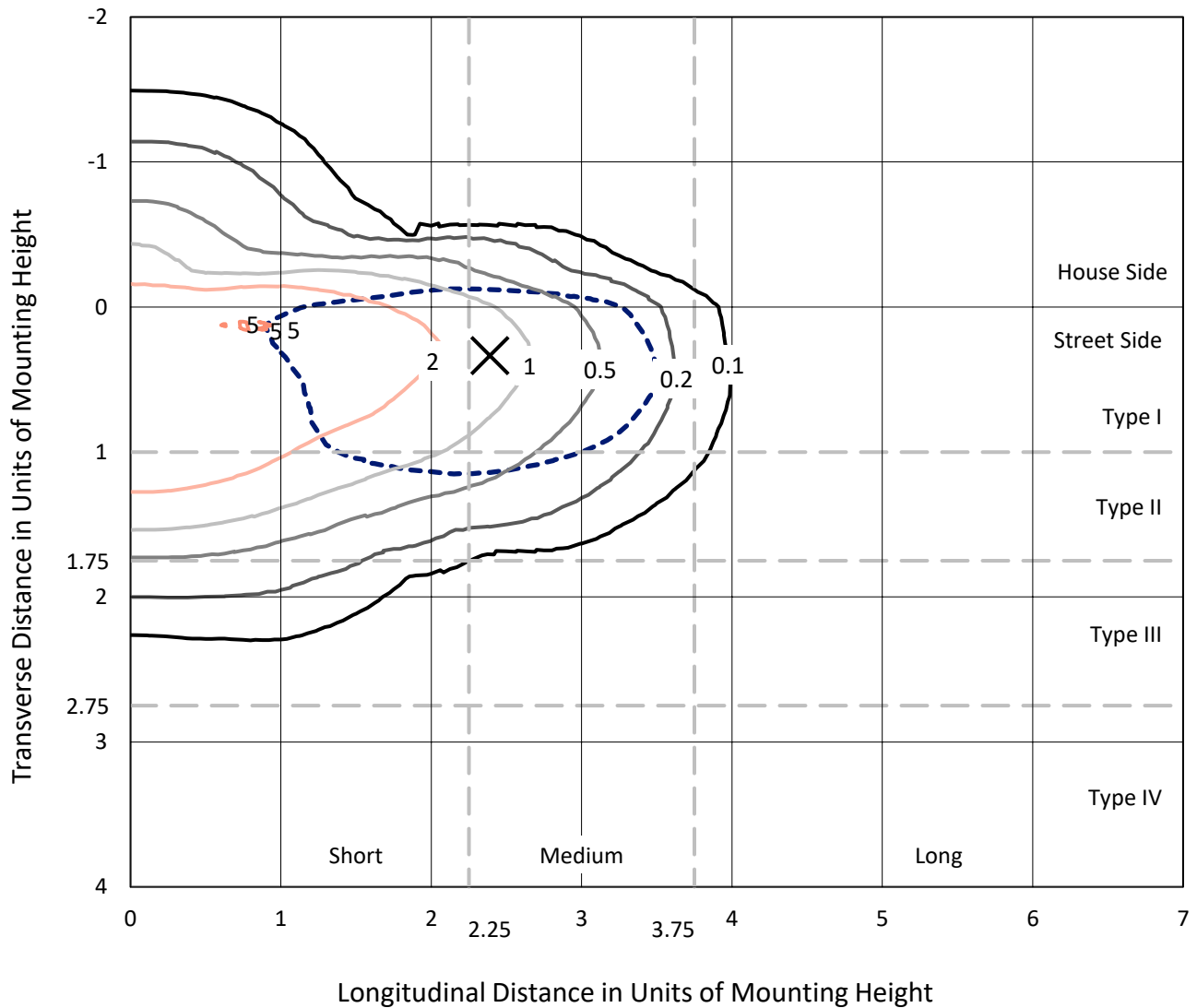
Lumens per Lamp: N/A  
Luminaire Lumens: 14744 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

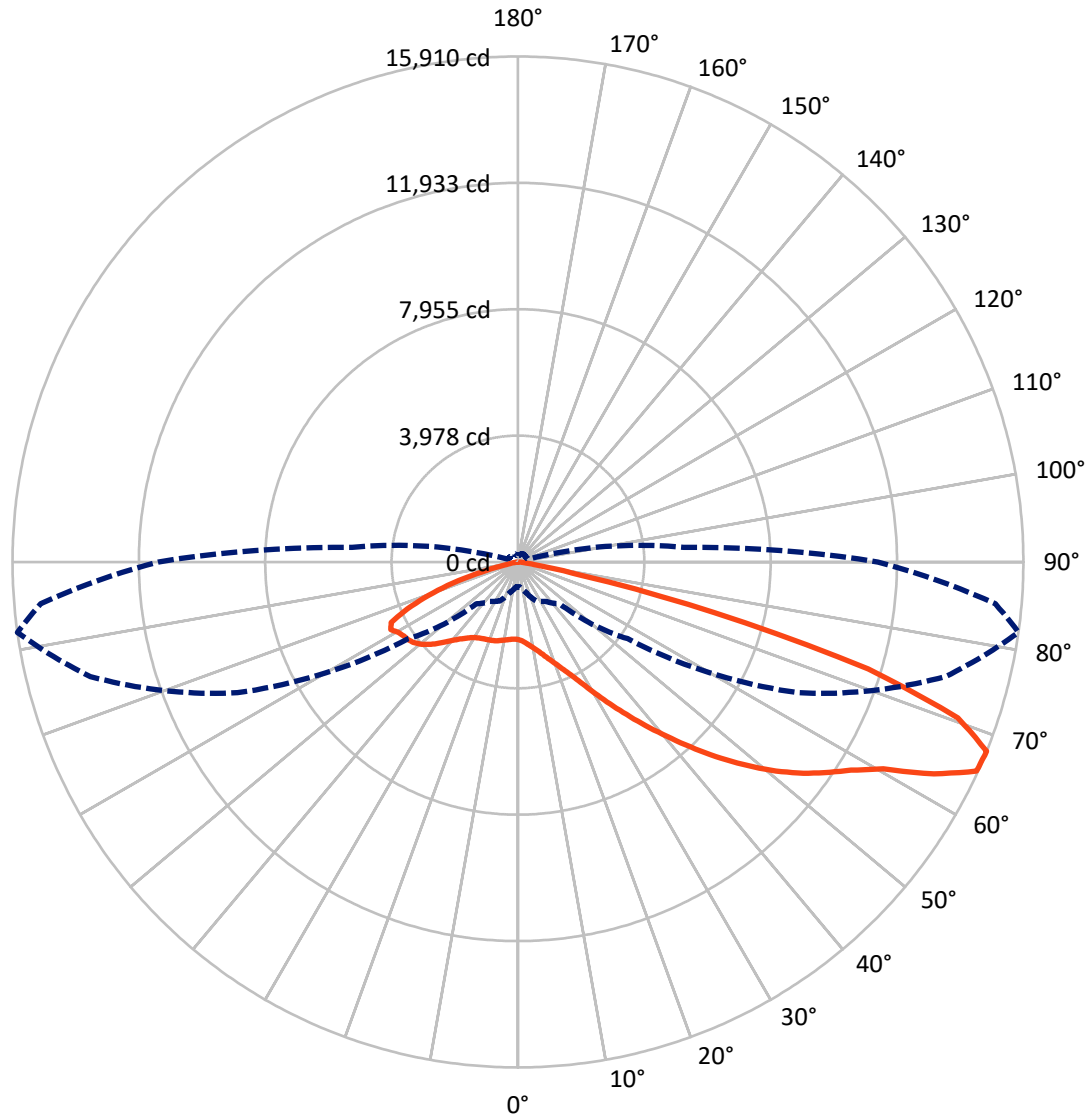
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2670.7	0.0	2670.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12073.3	0.0	12073.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14744.0	0.0	14744.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.6	1.5
10°-20°	565.5	3.8
20°-30°	905.7	6.1
30°-40°	1601.6	10.9
40°-50°	2806.2	19.0
50°-60°	3742.7	25.4
60°-70°	3484.3	23.6
70°-80°	1337.3	9.1
80°-90°	83.1	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°	14744.0	100.0
0°-180°	14744.0	100.0

**Coefficient of Utilization**



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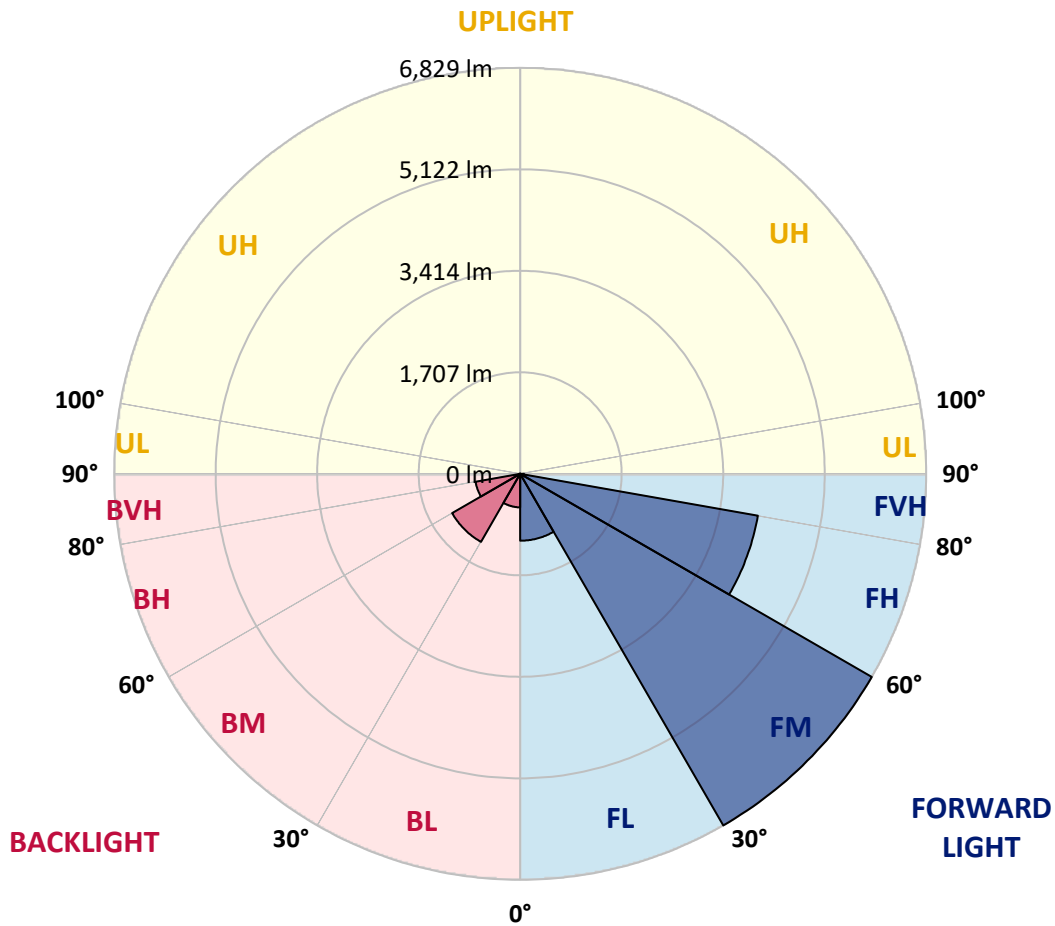
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.8	7.6			
FM (30°-60°)	6828.8	46.3			
FH (60°-80°)	4059.2	27.5			G2/5000
FVH (80°-90°)	60.4	0.4			G1/100
BL (0°-30°)	564.1	3.8	B2/1000		
BM (30°-60°)	1321.7	9.0	B2/2500		
BH (60°-80°)	762.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.7	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°	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6
2.5°	2581.6	2596.5	2588.0	2583.8	2576.3	2565.7	2557.2	2530.7	2503.1	2485.0
5°	2633.7	2648.5	2647.5	2651.7	2657.0	2660.2	2658.1	2628.3	2589.1	2558.3
7.5°	2589.1	2606.1	2619.9	2641.1	2678.2	2717.5	2736.6	2730.3	2689.9	2647.5
10°	2462.8	2480.8	2513.7	2563.6	2642.1	2727.1	2798.2	2831.1	2805.6	2758.9
12.5°	2231.3	2249.4	2314.1	2422.4	2554.0	2701.6	2837.5	2925.6	2931.9	2885.2
15°	1971.3	1989.3	2058.3	2194.2	2394.8	2631.5	2858.7	3025.4	3081.6	3041.3
17.5°	1809.9	1825.8	1877.8	1987.2	2196.3	2491.4	2851.3	3131.5	3260.0	3228.1
20°	1761.1	1774.9	1799.3	1875.7	2049.8	2346.0	2802.4	3231.3	3452.1	3434.1
22.5°	1813.1	1825.8	1833.3	1867.2	1976.6	2250.4	2740.9	3333.2	3675.0	3677.1
25°	1933.0	1945.8	1937.3	1958.5	2006.3	2220.7	2717.5	3453.2	3955.3	3978.6
27.5°	2130.5	2131.6	2111.4	2110.3	2117.8	2265.3	2741.9	3581.6	4308.8	4352.3
30°	2526.4	2510.5	2433.0	2349.2	2311.0	2399.1	2809.9	3733.4	4725.9	4803.4
32.5°	3136.8	3113.5	2971.2	2770.6	2568.9	2614.5	2931.9	3906.4	5180.3	5320.4
35°	3799.2	3792.8	3644.2	3345.9	2993.5	2921.3	3130.5	4133.6	5676.0	5898.9
37.5°	4414.9	4411.7	4326.8	3975.4	3546.6	3349.1	3448.9	4430.8	6206.8	6529.5
40°	4977.5	4987.1	4902.1	4587.9	4155.9	3897.9	3882.0	4798.1	6797.0	7216.3
42.5°	5463.7	5474.3	5388.3	5155.9	4757.8	4505.1	4413.8	5248.2	7373.4	7954.0
45°	5793.8	5859.6	5846.9	5661.1	5375.6	5113.4	5052.9	5812.9	8030.5	8736.4
47.5°	5887.2	5947.8	6043.3	6068.8	5894.7	5636.7	5708.9	6493.4	8695.0	9519.8
50°	5656.9	5713.2	5911.7	6176.0	6297.0	6217.4	6346.9	7222.7	9375.4	10301.1
52.5°	5202.6	5259.9	5510.4	5928.6	6422.3	6672.8	6987.0	7941.3	10034.6	11041.0
55°	4545.5	4606.0	4927.6	5401.1	6183.4	6860.7	7520.9	8658.9	10638.7	11706.6
57.5°	3651.7	3696.2	4030.6	4693.0	5582.6	6673.8	7914.8	9442.3	11207.6	12360.5
60°	2380.0	2419.2	2807.7	3546.6	4586.9	6049.7	7993.3	10316.0	11963.4	13210.7
62.5°	1582.7	1609.3	1839.6	2382.1	3230.2	4851.2	7533.7	11013.4	13071.7	14690.5
65°	1085.9	1112.5	1342.8	1720.7	2087.0	3209.0	6212.1	10921.0	14075.9	15865.6
67.5°	774.9	797.2	992.5	1349.2	1510.6	1864.0	4211.1	9740.6	13931.5	15910.2
70°	555.2	567.9	729.3	1050.9	1200.6	1119.9	2341.7	7449.8	12198.0	14691.6
72.5°	388.5	392.8	506.4	800.4	967.1	817.4	1114.6	4966.9	9225.8	11531.4
75°	263.3	268.6	340.8	587.0	776.0	624.2	590.2	2663.4	5415.9	6383.0
77.5°	161.4	163.5	219.7	401.3	580.7	475.6	380.0	1128.4	2095.5	2057.2
80°	91.3	91.3	140.1	249.5	396.0	306.8	266.4	479.8	663.5	582.8
82.5°	51.0	52.0	101.9	155.0	262.2	181.5	146.5	221.9	286.6	253.7
85°	21.2	23.4	62.6	73.2	125.3	90.2	59.4	93.4	106.2	94.5
87.5°	2.1	3.2	19.1	13.8	14.9	18.0	8.5	18.0	14.9	14.9
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°
2442.6	0°	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6
2478.7	2.5°	2458.5	2442.6	2402.2	2355.5	2294.0	2264.2	2223.9	2196.3	2173.0	2175.1
2540.2	5°	2506.3	2465.9	2375.7	2263.2	2123.1	2023.3	1917.1	1843.9	1784.4	1771.7
2625.2	7.5°	2572.1	2508.4	2350.2	2147.5	1910.8	1731.4	1571.1	1468.1	1394.9	1371.5
2728.1	10°	2657.0	2564.7	2317.3	2002.0	1661.3	1433.1	1261.1	1180.4	1130.5	1113.5
2849.1	12.5°	2755.7	2629.4	2273.8	1824.8	1404.4	1184.7	1075.3	1035.0	1019.1	1013.8
2997.8	15°	2879.9	2710.1	2208.0	1614.6	1186.8	1032.9	986.2	980.9	983.0	980.9
3176.1	17.5°	3027.5	2798.2	2100.8	1398.0	1040.3	955.4	938.4	942.6	947.9	946.9
3375.7	20°	3188.8	2885.2	1963.8	1205.9	940.5	900.2	890.6	894.9	899.1	897.0
3606.0	22.5°	3372.5	2978.7	1812.0	1056.2	873.6	849.2	838.6	839.7	839.7	835.4
3897.9	25°	3592.2	3081.6	1652.8	950.1	822.7	803.6	790.8	786.6	780.2	767.5
4252.5	27.5°	3854.4	3191.0	1499.9	875.8	782.3	764.3	749.4	738.8	722.9	701.7
4678.2	30°	4149.5	3323.7	1370.4	829.1	750.5	732.5	715.5	699.5	676.2	649.7
5167.5	32.5°	4496.6	3465.9	1276.0	798.3	721.8	702.7	682.6	663.5	638.0	611.4
5717.4	35°	4910.6	3637.9	1220.8	777.0	699.5	674.1	651.8	630.5	611.4	588.1
6315.0	37.5°	5359.7	3820.4	1203.8	766.4	684.7	645.4	619.9	605.1	602.9	589.1
6961.5	40°	5851.2	4037.0	1216.5	760.1	668.8	617.8	590.2	587.0	592.3	567.9
7652.6	42.5°	6371.3	4293.9	1237.7	752.6	646.5	590.2	563.7	563.7	559.4	525.5
8382.9	45°	6933.9	4590.1	1259.0	734.6	619.9	562.6	542.4	535.0	517.0	484.1
9117.5	47.5°	7500.8	4891.5	1274.9	701.7	588.1	539.3	521.2	504.2	477.7	448.0
9838.3	50°	8039.0	5162.2	1257.9	652.8	552.0	517.0	497.9	474.5	445.8	425.7
10520.8	52.5°	8519.8	5396.8	1185.7	595.5	513.8	493.6	476.6	452.2	428.9	407.6
11136.5	55°	8938.1	5586.8	1058.3	541.4	479.8	473.4	456.5	425.7	393.8	375.8
11746.9	57.5°	9339.3	5731.2	899.1	496.8	449.0	451.2	425.7	398.1	368.4	349.2
12569.6	60°	9873.3	5924.4	737.8	455.4	416.1	422.5	394.9	374.7	337.6	313.2
13980.4	62.5°	10726.8	6224.8	586.0	404.4	377.9	380.0	368.4	343.9	299.4	270.7
15026.0	65°	11404.0	6114.4	461.8	349.2	334.4	337.6	337.6	311.0	263.3	230.4
15082.2	67.5°	11327.6	5235.5	368.4	295.1	293.0	295.1	302.5	280.2	233.5	207.0
13933.7	70°	10434.8	4164.4	295.1	245.2	254.8	249.5	270.7	255.8	210.2	183.6
10802.1	72.5°	8514.5	2999.9	225.0	202.8	195.3	203.8	244.2	230.4	175.2	145.4
5721.6	75°	4975.4	1600.8	167.7	160.3	141.2	169.8	216.6	196.4	133.8	107.2
1753.6	77.5°	1619.9	558.4	123.1	117.8	105.1	136.9	184.7	165.6	109.3	84.9
513.8	80°	434.2	168.8	83.9	77.5	67.9	101.9	146.5	131.6	78.6	55.2
220.8	82.5°	174.1	71.1	48.8	43.5	37.2	70.1	115.7	106.2	58.4	35.0
69.0	85°	56.3	23.4	18.0	13.8	17.0	43.5	69.0	72.2	41.4	18.0
10.6	87.5°	7.4	3.2	3.2	4.2	3.2	7.4	21.2	20.2	11.7	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

<u>180°</u>
2442.6
2153.8
1743.0
1348.1
1100.8
1010.6
979.8
944.8
895.9
833.3
765.4
699.5
647.5
612.5
586.0
588.1
569.0
525.5
483.0
446.9
422.5
405.5
373.7
347.1
310.0
268.6
227.2
202.8
180.5
142.2
104.0
81.7
54.1
35.0
13.8
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