

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: P951527

Luminaire Tested: **GALN-SB5C-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951527  
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-SB5C-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

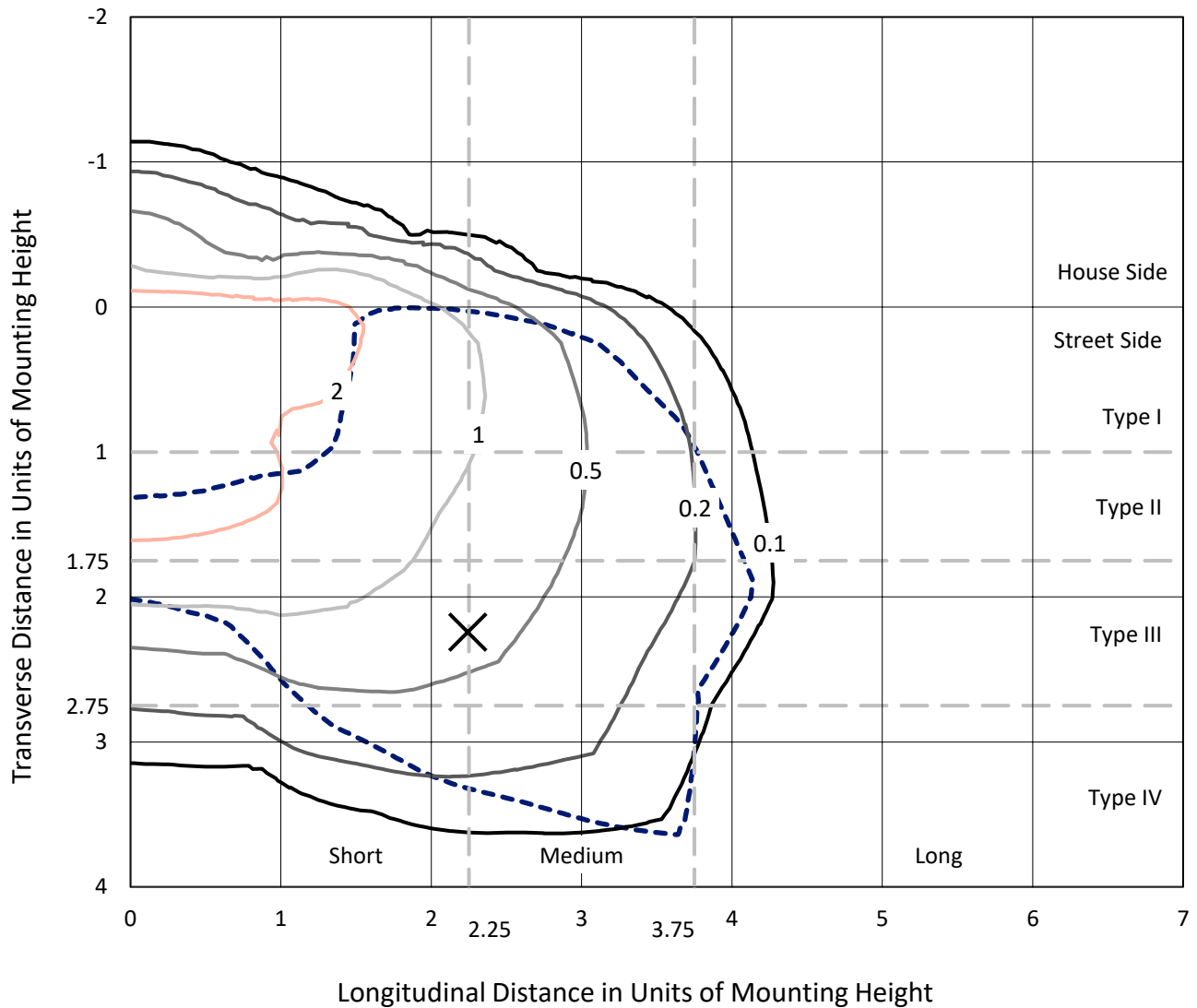
Lumens per Lamp: N/A  
Luminaire Lumens: 17738 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

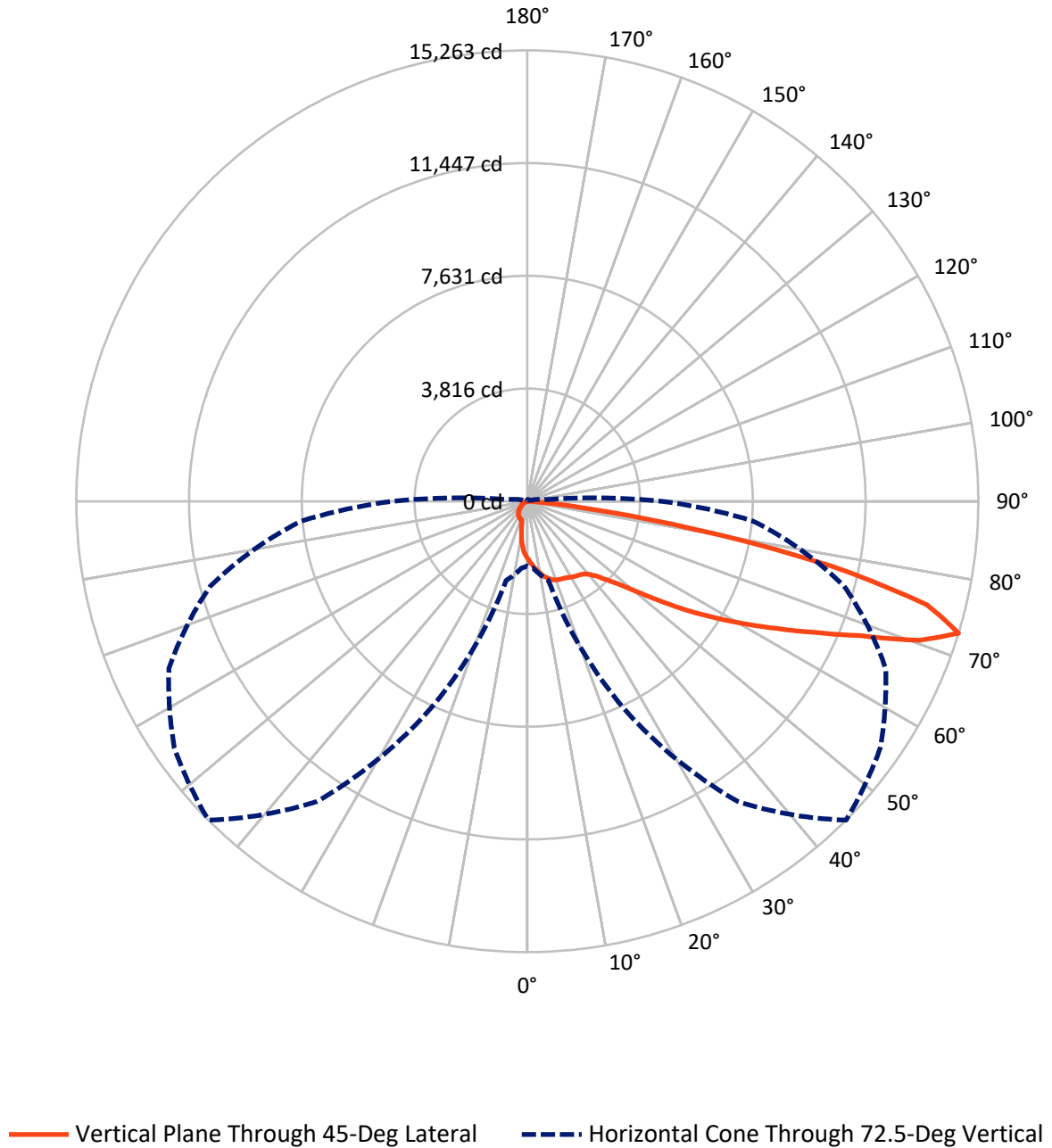
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1863.8	0.0	1863.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	15874.2	0.0	15874.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	17738.0	0.0	17738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.1	1.0
10°-20°	535.1	3.0
20°-30°	878.7	5.0
30°-40°	1246.2	7.0
40°-50°	2059.9	11.6
50°-60°	3700.4	20.9
60°-70°	5138.1	29.0
70°-80°	3727.0	21.0
80°-90°	269.4	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°	17738.0	100.0
0°-180°	17738.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951527

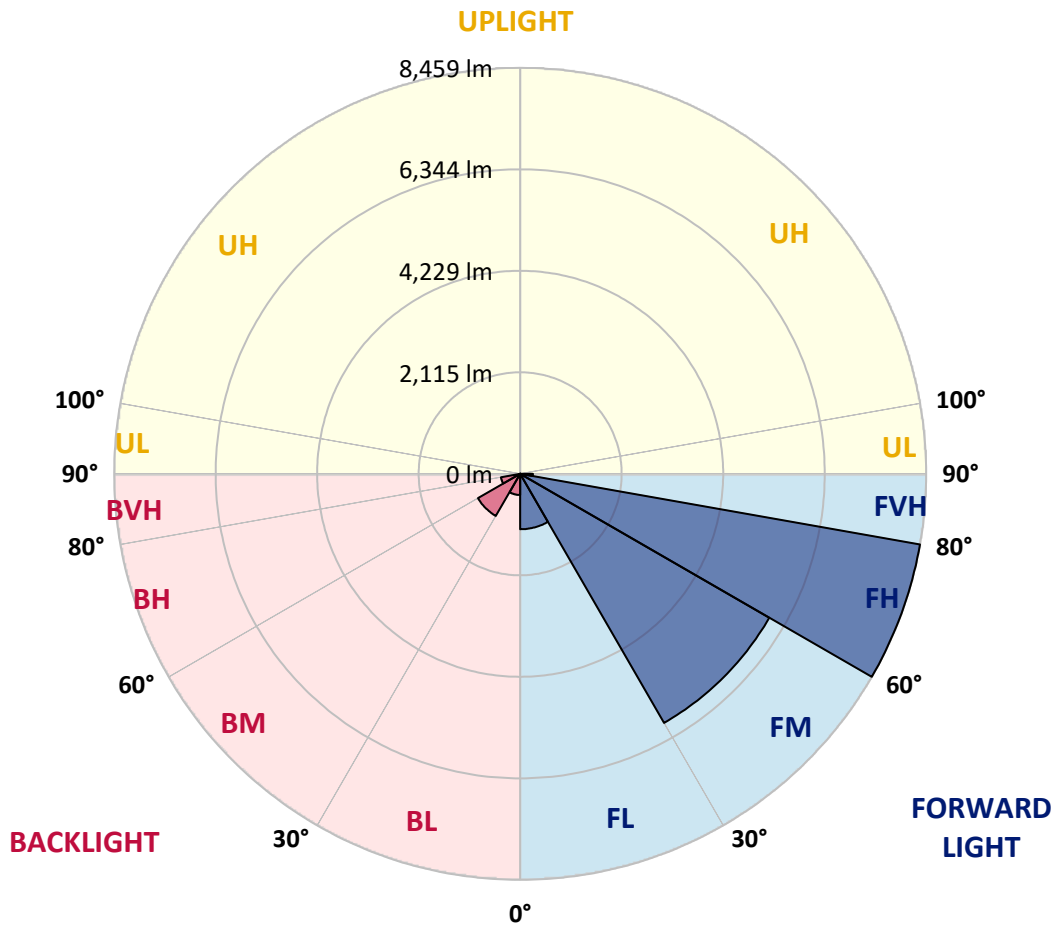
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1155.5	6.5			
FM (30°-60°)	5992.8	33.8			
FH (60°-80°)	8458.7	47.7			G4/12000
FVH (80°-90°)	267.2	1.5			G3/500
BL (0°-30°)	441.5	2.5	B1/500		
BM (30°-60°)	1013.6	5.7	B2/2500		
BH (60°-80°)	406.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.3	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°	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2
2.5°	2122.4	2126.1	2123.6	2109.1	2084.9	2071.6	2064.3	2040.1	2024.4	1996.5
5°	2317.4	2331.9	2323.4	2294.3	2248.3	2215.7	2206.0	2156.3	2111.5	2059.5
7.5°	2524.4	2531.7	2515.9	2478.4	2416.6	2360.9	2352.5	2283.5	2212.0	2132.1
10°	2703.6	2712.1	2687.8	2633.4	2563.1	2494.1	2482.0	2405.7	2321.0	2222.9
12.5°	2853.7	2862.2	2830.7	2765.3	2687.8	2616.4	2604.3	2524.4	2431.2	2322.2
15°	2967.5	2983.3	2940.9	2870.7	2787.1	2715.7	2709.6	2630.9	2540.1	2419.1
17.5°	3034.1	3049.9	3009.9	2925.1	2853.7	2793.2	2785.9	2720.5	2635.8	2519.5
20°	3045.0	3059.5	3017.2	2943.3	2884.0	2835.6	2831.9	2784.7	2723.0	2611.6
22.5°	3012.3	3030.5	2991.7	2932.4	2891.2	2865.8	2861.0	2834.3	2799.2	2704.8
25°	2978.4	2992.9	2963.9	2911.8	2890.0	2887.6	2891.2	2886.4	2879.1	2799.2
27.5°	2976.0	2991.7	2959.0	2909.4	2897.3	2922.7	2926.4	2949.4	2955.4	2885.2
30°	2996.6	3007.5	2976.0	2923.9	2917.9	2976.0	2977.2	3018.4	3028.1	2957.8
32.5°	3041.4	3053.5	3022.0	2945.7	2937.3	3018.4	3022.0	3076.5	3092.2	3035.3
35°	3146.7	3161.2	3124.9	3006.3	2976.0	3058.3	3069.2	3133.4	3164.9	3117.7
37.5°	3409.4	3367.1	3317.4	3128.5	3064.4	3121.3	3139.4	3214.5	3270.2	3215.7
40°	4062.0	3928.8	3773.9	3336.8	3219.4	3255.7	3270.2	3345.3	3421.5	3368.3
42.5°	5041.5	4884.1	4634.7	3816.2	3453.0	3471.2	3482.1	3547.5	3655.2	3612.8
45°	5914.5	5857.6	5603.3	4634.7	3890.1	3800.5	3813.8	3847.7	4006.3	3990.6
47.5°	6585.2	6552.5	6356.4	5574.2	4628.7	4203.7	4241.2	4257.0	4485.8	4541.5
50°	7101.0	7088.9	6913.3	6409.7	5593.6	4798.2	4811.5	4777.6	5120.2	5258.2
52.5°	7587.7	7628.9	7499.3	7185.7	6624.0	5576.7	5574.2	5414.4	5876.9	6085.2
55°	8027.2	8041.7	8055.0	7977.6	7660.3	6462.9	6439.9	6178.4	6754.7	6970.2
57.5°	8440.1	8446.1	8564.8	8723.4	8739.1	7414.6	7372.2	7058.6	7713.6	7867.4
60°	8717.3	8745.2	8995.8	9436.5	9629.0	8396.5	8373.5	8053.8	8689.5	8760.9
62.5°	8317.8	8487.3	9119.3	9993.4	10469.3	9484.9	9474.0	9173.8	9716.2	9658.1
65°	6732.9	7019.9	8131.3	10370.0	11293.8	10700.5	10716.2	10396.6	10770.7	10581.9
67.5°	4709.8	5012.5	6327.3	10400.2	12215.1	12128.0	12218.8	11717.5	11890.7	11466.9
70°	3256.9	3413.1	4269.1	9748.9	12933.1	14094.2	14091.8	13339.9	13004.5	11870.1
72.5°	2190.2	2271.3	2772.6	7734.2	12405.2	15262.6	15192.3	14579.7	13379.9	11101.3
75°	923.8	983.1	1283.4	4346.6	9814.2	13963.4	13773.4	12884.7	11888.2	8741.5
77.5°	293.0	318.4	506.1	1555.8	5405.9	10495.9	10294.9	8046.6	7967.9	4385.3
80°	139.2	162.2	284.5	624.7	2127.3	5708.6	5680.8	3650.4	3427.6	1184.1
82.5°	60.5	71.4	157.4	334.2	951.6	2036.5	2077.6	1242.2	1027.9	449.2
85°	19.4	25.4	72.6	153.8	402.0	506.1	500.0	295.4	414.1	244.6
87.5°	0.0	0.0	24.2	35.1	41.2	29.1	32.7	25.4	115.0	67.8
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°
1943.2	0°	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2	1943.2
1967.5	2.5°	1952.9	1933.5	1899.6	1868.2	1840.3	1812.5	1795.5	1771.3	1768.9	1768.9
1998.9	5°	1966.2	1934.8	1874.2	1810.1	1736.2	1666.0	1595.8	1528.0	1506.2	1490.4
2049.8	7.5°	2005.0	1955.3	1859.7	1737.4	1597.0	1443.2	1335.4	1219.2	1174.4	1150.2
2117.6	10°	2060.7	1992.9	1847.6	1633.3	1405.7	1196.2	1042.4	916.5	868.1	847.5
2191.4	12.5°	2122.4	2038.9	1825.8	1503.7	1196.2	945.6	795.5	737.3	730.1	730.1
2279.8	15°	2196.3	2094.6	1788.3	1351.2	977.1	748.2	695.0	697.4	704.6	709.5
2365.8	17.5°	2272.6	2153.9	1728.9	1180.5	783.3	673.2	674.4	678.0	684.1	688.9
2459.0	20°	2354.9	2213.2	1650.2	998.9	672.0	651.4	655.0	658.6	663.5	665.9
2546.2	22.5°	2443.3	2268.9	1557.0	820.9	634.4	633.2	634.4	638.1	644.1	644.1
2647.9	25°	2537.7	2330.7	1450.5	691.3	615.1	615.1	617.5	619.9	624.7	624.7
2746.0	27.5°	2634.6	2387.6	1337.9	623.5	598.1	596.9	596.9	600.5	602.9	604.2
2842.8	30°	2741.1	2454.2	1225.3	609.0	584.8	578.7	575.1	577.5	579.9	581.2
2944.5	32.5°	2850.1	2518.3	1124.8	615.1	571.5	560.6	548.5	546.0	546.0	550.9
3049.9	35°	2971.2	2588.6	1047.3	635.6	564.2	533.9	514.6	503.7	504.9	512.1
3175.8	37.5°	3116.4	2673.3	990.4	653.8	559.4	503.7	472.2	458.9	450.4	458.9
3348.9	40°	3306.5	2798.0	949.2	668.3	553.3	468.6	426.2	404.4	388.6	393.5
3617.7	42.5°	3586.2	2994.2	933.5	669.5	540.0	427.4	379.0	349.9	326.9	328.1
4022.1	45°	3978.5	3304.1	1014.6	653.8	510.9	382.6	329.3	290.6	276.0	272.4
4626.2	47.5°	4516.1	3755.7	1202.3	621.1	468.6	339.0	280.9	248.2	237.3	231.3
5419.3	50°	5236.4	4335.7	1410.5	584.8	426.2	297.8	240.9	220.4	213.1	207.0
6360.0	52.5°	6071.9	4924.1	1581.2	548.5	383.8	261.5	215.5	203.4	197.4	192.5
7268.1	55°	6838.3	5329.7	1571.5	509.7	342.6	232.5	197.4	190.1	182.8	178.0
8050.2	57.5°	7315.3	5386.6	1295.5	467.3	295.4	209.5	180.4	175.6	167.1	161.0
8727.0	60°	7534.4	5062.1	908.1	411.7	248.2	187.7	162.2	159.8	148.9	140.4
9367.5	62.5°	7574.4	4459.2	605.4	342.6	207.0	167.1	144.1	140.4	125.9	111.4
9888.1	65°	7412.1	3597.1	418.9	267.6	176.8	145.3	123.5	116.2	100.5	86.0
10011.6	67.5°	6898.8	2525.6	291.8	192.5	150.1	115.0	98.1	95.6	83.5	71.4
9382.0	70°	5958.0	1439.6	194.9	144.1	118.7	78.7	77.5	79.9	67.8	58.1
7665.2	72.5°	4568.1	658.6	121.1	105.3	81.1	53.3	61.7	63.0	52.1	43.6
4782.4	75°	2689.1	282.1	76.3	67.8	41.2	35.1	44.8	46.0	35.1	27.8
1748.3	77.5°	915.3	106.5	48.4	40.0	20.6	19.4	29.1	29.1	19.4	10.9
351.1	80°	208.2	40.0	24.2	15.7	9.7	8.5	9.7	8.5	4.8	1.2
107.8	82.5°	59.3	15.7	9.7	6.1	3.6	3.6	1.2	0.0	0.0	0.0
37.5	85°	17.0	7.3	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
13.3	87.5°	7.3	1.2	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>
1943.2
1774.9
1497.7
1153.8
847.5
730.1
709.5
688.9
667.1
646.5
626.0
605.4
583.6
554.5
515.8
456.4
391.1
323.3
267.6
227.6
205.8
191.3
175.6
159.8
138.0
104.1
81.1
67.8
53.3
38.7
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