

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: P949112

Luminaire Tested: **GALN-SB3D-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949112  
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-SB3D-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

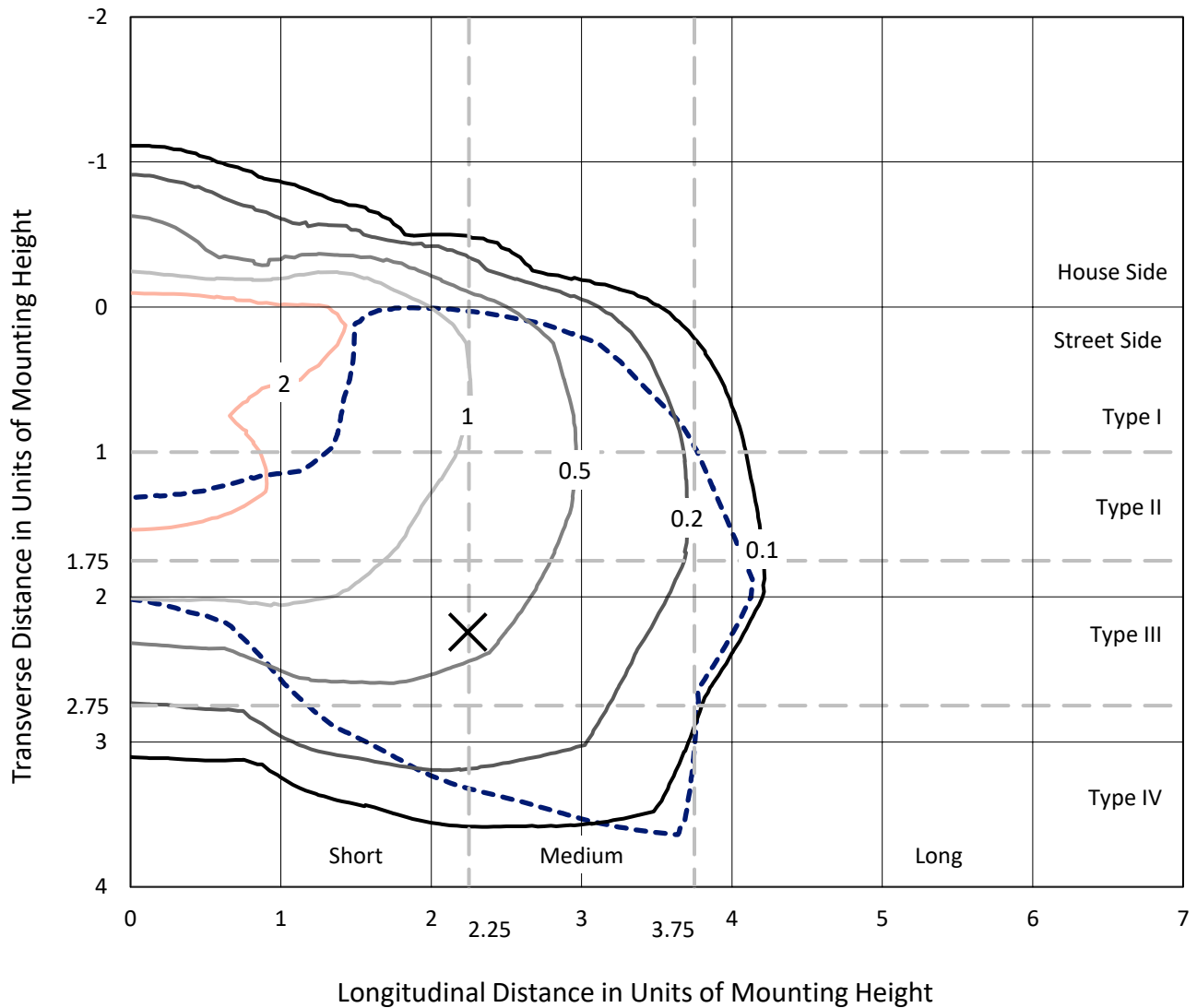
Lumens per Lamp: N/A  
Luminaire Lumens: 16361 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

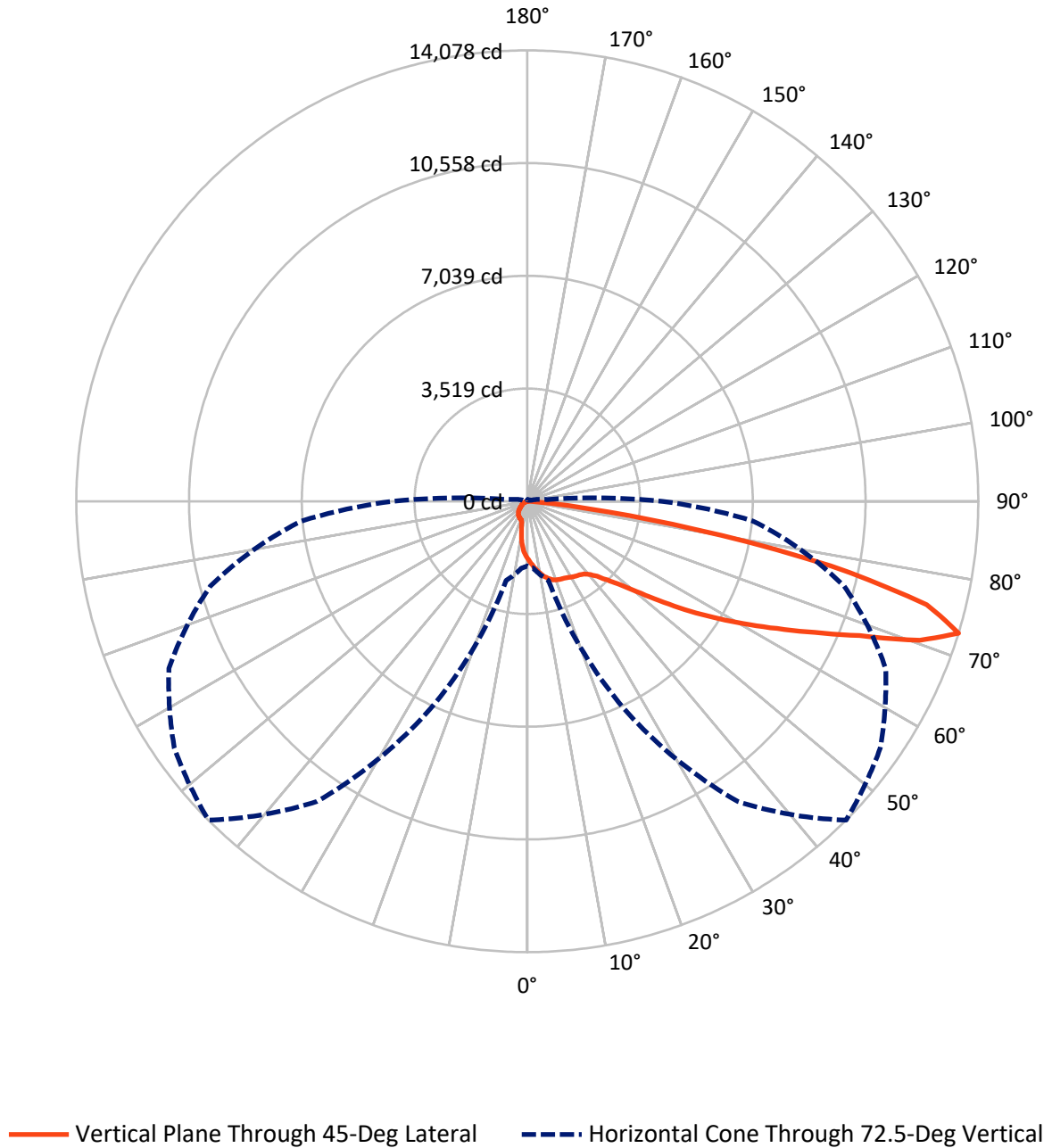
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1719.1	0.0	1719.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14641.9	0.0	14641.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16361.0	0.0	16361.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	1.0
10°-20°	493.6	3.0
20°-30°	810.5	5.0
30°-40°	1149.5	7.0
40°-50°	1900.0	11.6
50°-60°	3413.1	20.9
60°-70°	4739.3	29.0
70°-80°	3437.7	21.0
80°-90°	248.5	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°	16361.0	100.0
0°-180°	16361.0	100.0

**Coefficient of Utilization**



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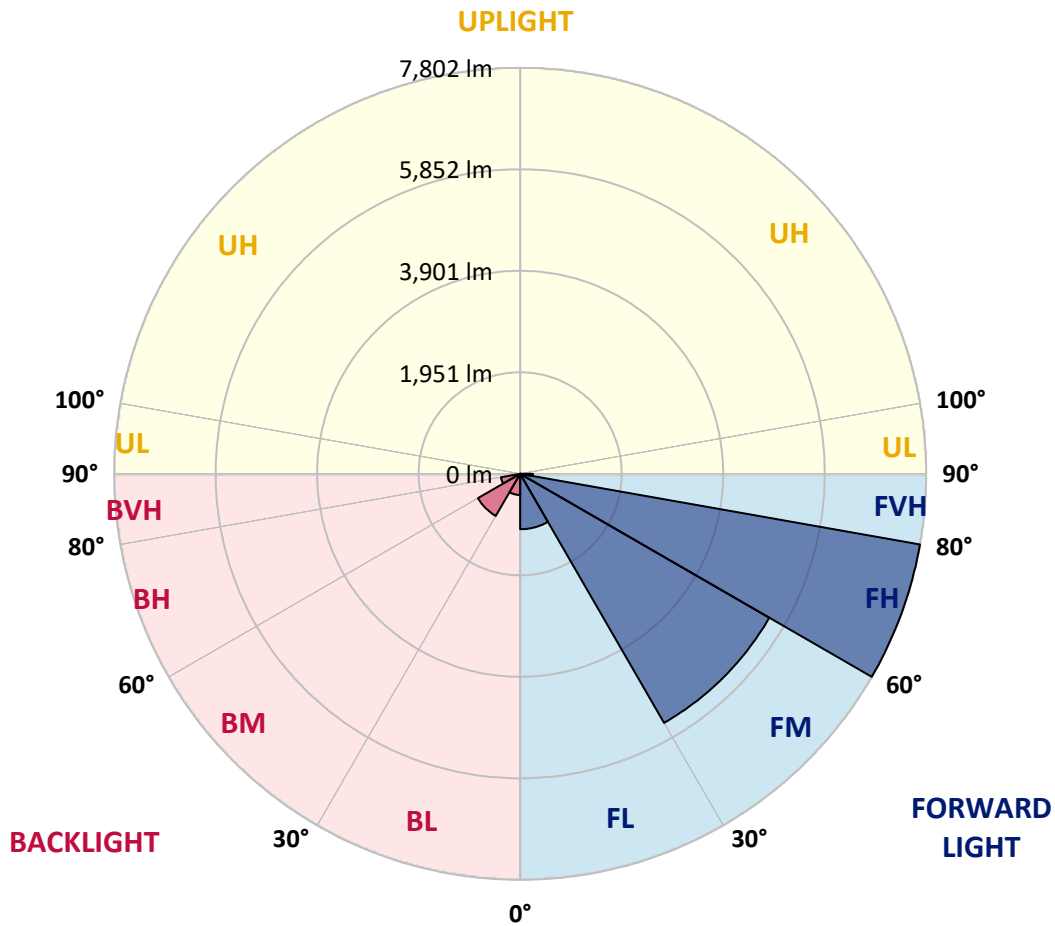
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.8	6.5			
FM (30°-60°)	5527.6	33.8			
FH (60°-80°)	7802.1	47.7			G4/12000
FVH (80°-90°)	246.4	1.5			G3/500
BL (0°-30°)	407.2	2.5	B1/500		
BM (30°-60°)	934.9	5.7	B1/1000		
BH (60°-80°)	374.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	1957.7	1961.0	1958.8	1945.4	1923.0	1910.8	1904.1	1881.7	1867.2	1841.5
5°	2137.5	2150.9	2143.0	2116.2	2073.8	2043.7	2034.7	1988.9	1947.6	1899.6
7.5°	2328.4	2335.1	2320.6	2286.0	2229.0	2177.7	2169.8	2106.2	2040.3	1966.6
10°	2493.7	2501.5	2479.2	2428.9	2364.2	2300.5	2289.3	2219.0	2140.8	2050.4
12.5°	2632.2	2640.0	2611.0	2550.7	2479.2	2413.3	2402.1	2328.4	2242.4	2141.9
15°	2737.2	2751.7	2712.6	2647.8	2570.8	2504.9	2499.3	2426.7	2342.9	2231.3
17.5°	2798.6	2813.1	2776.2	2698.1	2632.2	2576.3	2569.6	2509.3	2431.2	2324.0
20°	2808.6	2822.0	2782.9	2714.8	2660.1	2615.4	2612.1	2568.5	2511.6	2408.8
22.5°	2778.5	2795.2	2759.5	2704.8	2666.8	2643.3	2638.9	2614.3	2581.9	2494.8
25°	2747.2	2760.6	2733.8	2685.8	2665.7	2663.4	2666.8	2662.3	2655.6	2581.9
27.5°	2745.0	2759.5	2729.3	2683.5	2672.4	2695.8	2699.2	2720.4	2726.0	2661.2
30°	2764.0	2774.0	2745.0	2696.9	2691.4	2745.0	2746.1	2784.1	2793.0	2728.2
32.5°	2805.3	2816.4	2787.4	2717.1	2709.2	2784.1	2787.4	2837.7	2852.2	2799.7
35°	2902.4	2915.8	2882.3	2772.9	2745.0	2820.9	2831.0	2890.1	2919.2	2875.6
37.5°	3144.8	3105.7	3059.9	2885.7	2826.5	2879.0	2895.7	2965.0	3016.3	2966.1
40°	3746.7	3623.9	3480.9	3077.8	2969.4	3002.9	3016.3	3085.6	3155.9	3106.8
42.5°	4650.1	4505.0	4274.9	3520.0	3185.0	3201.7	3211.8	3272.1	3371.5	3332.4
45°	5455.3	5402.8	5168.3	4274.9	3588.1	3505.5	3517.8	3549.0	3695.3	3680.8
47.5°	6074.0	6043.8	5862.9	5141.5	4269.3	3877.4	3912.0	3926.5	4137.6	4188.9
50°	6549.7	6538.6	6376.6	5912.1	5159.4	4425.7	4438.0	4406.7	4722.7	4850.0
52.5°	6998.7	7036.6	6917.1	6627.9	6109.7	5143.7	5141.5	4994.1	5420.7	5612.8
55°	7404.0	7417.4	7429.7	7358.3	7065.7	5961.2	5940.0	5698.8	6230.3	6429.1
57.5°	7784.9	7790.4	7899.9	8046.2	8060.7	6839.0	6799.9	6510.6	7114.8	7256.6
60°	8040.6	8066.3	8297.4	8703.9	8881.5	7744.7	7723.4	7428.6	8014.9	8080.8
62.5°	7672.1	7828.4	8411.4	9217.6	9656.5	8748.6	8738.6	8461.6	8961.9	8908.3
65°	6210.2	6474.9	7500.1	9565.0	10417.0	9869.8	9884.3	9589.5	9934.6	9760.4
67.5°	4344.2	4623.3	5836.1	9592.9	11266.9	11186.5	11270.2	10807.9	10967.6	10576.7
70°	3004.1	3148.1	3937.7	8992.1	11929.1	13000.1	12997.8	12304.3	11995.0	10948.6
72.5°	2020.2	2095.0	2557.4	7133.8	11442.2	14077.7	14013.0	13447.9	12341.2	10239.5
75°	852.1	906.8	1183.8	4009.1	9052.4	12879.5	12704.1	11884.4	10965.4	8062.9
77.5°	270.3	293.7	466.8	1435.0	4986.3	9681.1	9495.7	7421.9	7349.3	4044.9
80°	128.4	149.6	262.4	576.2	1962.1	5265.5	5239.8	3367.0	3161.5	1092.2
82.5°	55.8	65.9	145.2	308.2	877.8	1878.4	1916.3	1145.8	948.1	414.3
85°	17.9	23.5	67.0	141.8	370.8	466.8	461.2	272.5	381.9	225.6
87.5°	0.0	0.0	22.3	32.4	38.0	26.8	30.2	23.5	106.1	62.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949112  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1792.4	0°	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4	1792.4
1814.7	2.5°	1801.3	1783.4	1752.2	1723.1	1697.5	1671.8	1656.1	1633.8	1631.6	1631.6
1843.8	5°	1813.6	1784.6	1728.7	1669.5	1601.4	1536.6	1471.9	1409.3	1389.2	1374.7
1890.7	7.5°	1849.3	1803.5	1715.3	1602.5	1473.0	1331.2	1231.8	1124.6	1083.2	1060.9
1953.2	10°	1900.7	1838.2	1704.2	1506.5	1296.5	1103.3	961.5	845.4	800.7	781.7
2021.3	12.5°	1957.7	1880.6	1684.1	1387.0	1103.3	872.2	733.7	680.1	673.4	673.4
2102.8	15°	2025.8	1932.0	1649.4	1246.3	901.2	690.2	641.0	643.2	649.9	654.4
2182.1	17.5°	2096.1	1986.7	1594.7	1088.8	722.5	620.9	622.0	625.4	631.0	635.4
2268.1	20°	2172.1	2041.4	1522.1	921.3	619.8	600.8	604.2	607.5	612.0	614.2
2348.5	22.5°	2253.6	2092.8	1436.1	757.2	585.2	584.1	585.2	588.5	594.1	594.1
2442.3	25°	2340.7	2149.7	1337.9	637.7	567.3	567.3	569.5	571.8	576.2	576.2
2532.8	27.5°	2430.0	2202.2	1234.0	575.1	551.7	550.6	550.6	553.9	556.1	557.3
2622.1	30°	2528.3	2263.7	1130.2	561.7	539.4	533.8	530.5	532.7	534.9	536.0
2715.9	32.5°	2628.8	2322.8	1037.5	567.3	527.1	517.1	505.9	503.7	503.7	508.1
2813.1	35°	2740.5	2387.6	966.0	586.3	520.4	492.5	474.6	464.6	465.7	472.4
2929.2	37.5°	2874.5	2465.8	913.5	603.0	515.9	464.6	435.5	423.2	415.4	423.2
3088.9	40°	3049.8	2580.8	875.5	616.4	510.4	432.2	393.1	373.0	358.5	362.9
3336.8	42.5°	3307.8	2761.7	861.0	617.6	498.1	394.2	349.5	322.7	301.5	302.6
3709.8	45°	3669.6	3047.6	935.8	603.0	471.3	352.9	303.8	268.0	254.6	251.3
4267.1	47.5°	4165.5	3464.2	1108.9	572.9	432.2	312.7	259.1	228.9	218.9	213.3
4998.6	50°	4829.9	3999.1	1301.0	539.4	393.1	274.7	222.2	203.2	196.5	191.0
5866.3	52.5°	5600.5	4541.8	1458.5	505.9	354.0	241.2	198.8	187.6	182.0	177.6
6703.8	55°	6307.4	4915.9	1449.5	470.2	316.0	214.4	182.0	175.3	168.6	164.2
7425.3	57.5°	6747.4	4968.4	1194.9	431.1	272.5	193.2	166.4	161.9	154.1	148.5
8049.5	60°	6949.5	4669.1	837.6	379.7	228.9	173.1	149.6	147.4	137.4	129.5
8640.3	62.5°	6986.4	4113.0	558.4	316.0	191.0	154.1	132.9	129.5	116.1	102.7
9120.5	65°	6836.7	3317.9	386.4	246.8	163.0	134.0	113.9	107.2	92.7	79.3
9234.4	67.5°	6363.2	2329.5	269.1	177.6	138.5	106.1	90.5	88.2	77.1	65.9
8653.7	70°	5495.5	1327.8	179.8	132.9	109.4	72.6	71.5	73.7	62.5	53.6
7070.1	72.5°	4213.5	607.5	111.7	97.2	74.8	49.1	57.0	58.1	48.0	40.2
4411.2	75°	2480.3	260.2	70.4	62.5	38.0	32.4	41.3	42.4	32.4	25.7
1612.6	77.5°	844.3	98.3	44.7	36.9	19.0	17.9	26.8	26.8	17.9	10.1
323.9	80°	192.1	36.9	22.3	14.5	8.9	7.8	8.9	7.8	4.5	1.1
99.4	82.5°	54.7	14.5	8.9	5.6	3.4	3.4	1.1	0.0	0.0	0.0
34.6	85°	15.6	6.7	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
12.3	87.5°	6.7	1.1	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°
1792.4
1637.2
1381.4
1064.3
781.7
673.4
654.4
635.4
615.3
596.3
577.4
558.4
538.3
511.5
475.7
421.0
360.7
298.2
246.8
209.9
189.8
176.4
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147.4
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