

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: P941389

Luminaire Tested: **GALN-SB4D-927-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-927-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

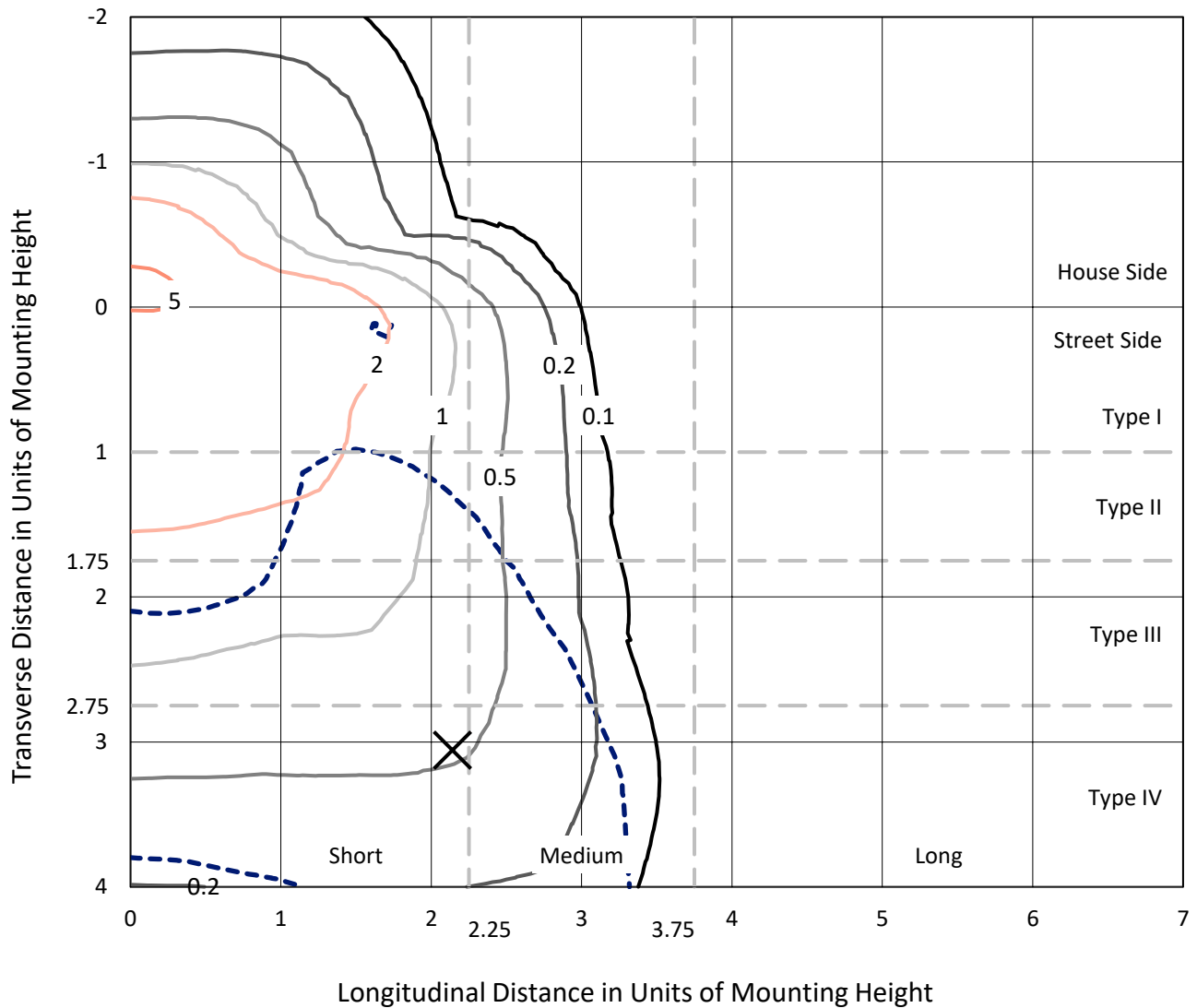
Lumens per Lamp: N/A  
Luminaire Lumens: 24536 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

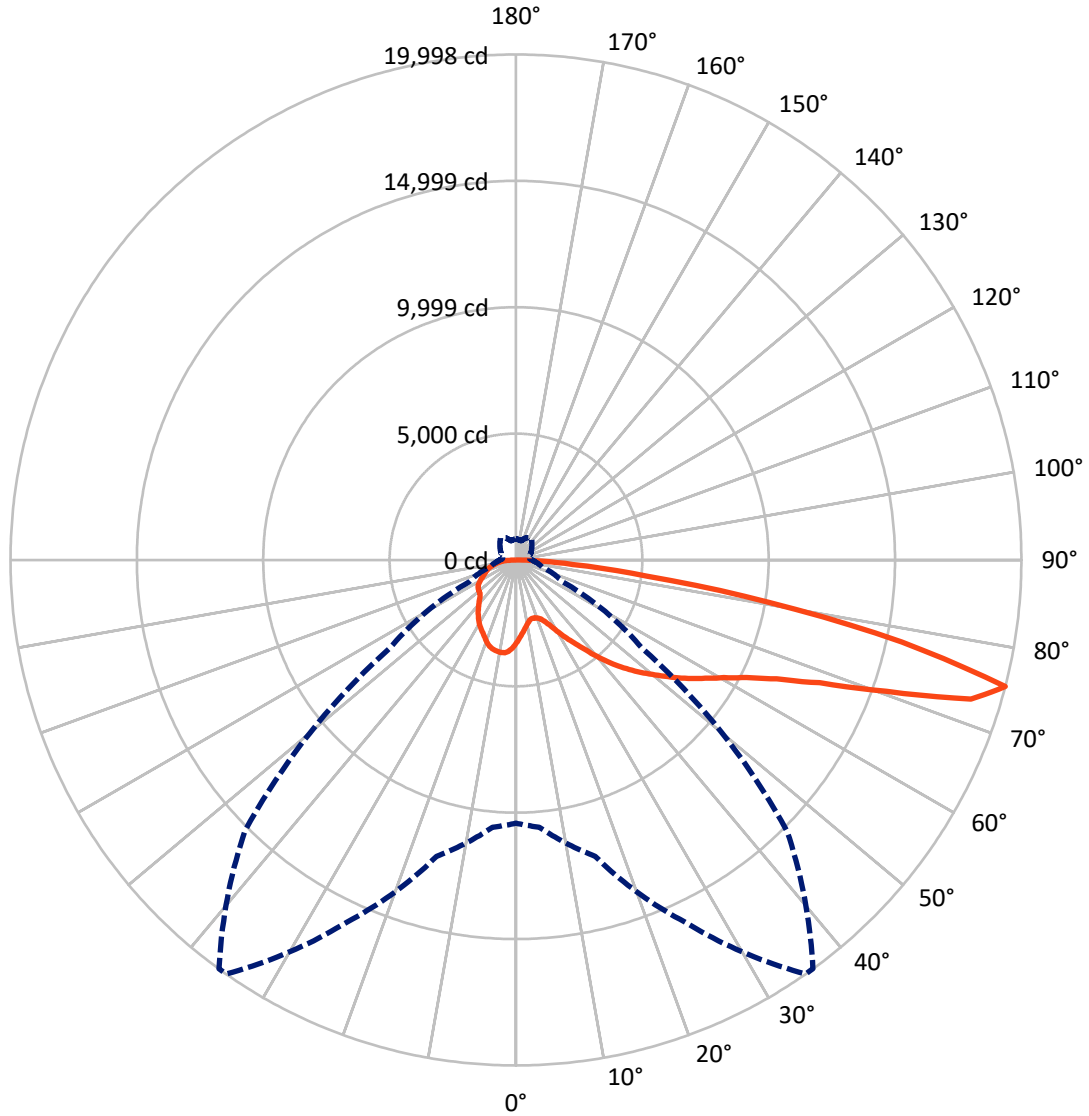
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5838.9	0.0	5838.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	18697.0	0.0	18697.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	24536.0	0.0	24536.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.6	1.3
10°-20°	892.9	3.6
20°-30°	1499.4	6.1
30°-40°	2330.3	9.5
40°-50°	3458.9	14.1
50°-60°	4775.1	19.5
60°-70°	5793.3	23.6
70°-80°	4787.8	19.5
80°-90°	688.6	2.8
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°	24536.0	100.0
0°-180°	24536.0	100.0

**Coefficient of Utilization**



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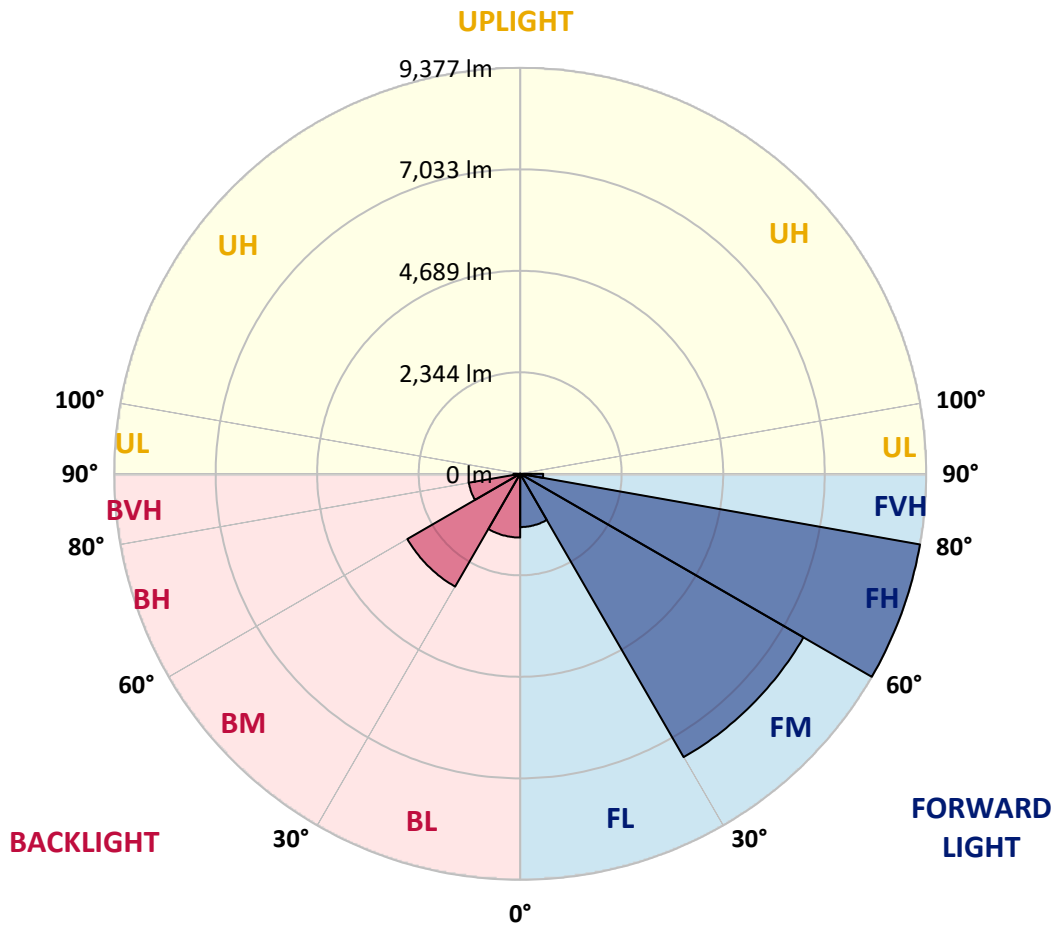
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.4	5.0			
FM (30°-60°)	7555.8	30.8			
FH (60°-80°)	9377.3	38.2			G4/12000
FVH (80°-90°)	533.6	2.2			G4/750
BL (0°-30°)	1471.5	6.0	B3/2500		
BM (30°-60°)	3008.6	12.3	B3/5000		
BH (60°-80°)	1203.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	155.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6
2.5°	3014.9	3033.5	3041.4	3037.5	3057.4	3054.7	3082.6	3117.1	3164.8	3211.2
5°	2782.8	2802.7	2819.9	2835.9	2874.3	2886.3	2930.0	2996.3	3083.9	3172.8
7.5°	2566.6	2583.8	2610.4	2639.5	2704.5	2716.5	2789.4	2892.9	3014.9	3144.9
10°	2390.2	2407.4	2435.3	2468.4	2549.4	2563.9	2656.8	2794.7	2953.9	3118.4
12.5°	2314.6	2319.9	2335.8	2369.0	2439.3	2448.5	2550.7	2708.5	2894.2	3098.5
15°	2310.6	2321.2	2322.5	2339.8	2398.1	2402.1	2496.3	2652.8	2857.1	3094.5
17.5°	2350.4	2358.3	2346.4	2357.0	2406.1	2412.7	2487.0	2626.3	2845.1	3111.7
20°	2456.5	2463.1	2427.3	2412.7	2448.5	2453.8	2526.8	2643.5	2857.1	3147.6
22.5°	2682.0	2686.0	2598.4	2538.7	2541.4	2544.0	2607.7	2713.8	2903.5	3212.6
25°	3033.5	3030.8	2891.6	2776.2	2709.8	2695.3	2737.7	2827.9	2981.8	3298.8
27.5°	3444.7	3424.8	3285.5	3113.1	2968.5	2947.3	2938.0	2976.5	3093.2	3412.8
30°	3908.9	3890.3	3740.5	3515.0	3314.7	3280.2	3192.7	3172.8	3259.0	3568.0
32.5°	4418.3	4406.3	4227.3	3954.0	3686.1	3646.3	3499.1	3446.0	3513.6	3802.8
35°	4845.4	4834.7	4686.2	4405.0	4077.4	4028.3	3878.4	3818.7	3853.2	4103.9
37.5°	5231.3	5226.0	5098.7	4877.2	4539.0	4479.3	4310.8	4290.9	4284.3	4500.5
40°	5589.5	5576.2	5443.6	5326.8	5076.2	5021.8	4873.2	4856.0	4805.6	4988.6
42.5°	5986.1	5951.6	5759.2	5704.9	5637.2	5592.1	5503.3	5505.9	5394.5	5539.1
45°	6309.7	6289.8	6092.2	6060.3	6133.3	6114.7	6191.7	6211.6	5995.3	6116.1
47.5°	6657.2	6638.7	6471.5	6449.0	6646.6	6651.9	6923.8	6930.5	6581.6	6715.6
50°	7085.7	7059.1	6893.3	6921.2	7142.7	7162.6	7660.0	7614.9	7121.5	7324.4
52.5°	7368.2	7384.1	7348.3	7393.4	7695.8	7714.4	8384.2	8268.8	7656.0	7925.3
55°	7576.4	7608.3	7719.7	7823.1	8279.4	8298.0	9067.3	8890.9	8099.0	8482.4
57.5°	7844.4	7799.3	8007.5	8209.1	8833.9	8882.9	9731.8	9490.4	8491.6	8962.5
60°	8229.0	8197.2	8359.0	8657.4	9454.6	9532.9	10434.8	10030.3	8779.5	9343.2
62.5°	9008.9	8929.4	8954.6	9218.5	10237.2	10340.7	11228.0	10501.1	8922.7	9491.8
65°	10174.9	10038.2	9910.9	10093.9	11339.4	11441.6	12123.3	10871.2	8869.7	9203.9
67.5°	11643.2	11507.9	11351.4	11523.8	12963.0	13043.9	13228.2	11079.5	8451.9	8095.0
70°	12854.2	12803.8	12990.8	13700.4	15556.1	15558.7	14644.8	10907.0	7307.2	5739.4
72.5°	12693.7	12663.2	13648.7	15842.6	18824.3	18754.0	15985.8	9601.8	4922.3	2589.1
75°	10413.6	10611.2	12137.9	15804.1	19998.2	19988.9	15164.8	6104.1	2036.0	1073.1
77.5°	5584.2	5897.2	7880.2	11668.4	15611.8	15846.6	10661.6	2135.5	874.1	687.1
80°	1821.2	2094.4	3140.9	5941.0	10144.3	10100.6	4569.5	838.3	598.2	486.8
82.5°	773.3	805.1	1403.3	2805.3	5206.1	5125.2	1455.1	481.5	420.5	332.9
85°	302.4	338.2	619.4	1297.2	2254.9	2205.8	525.3	238.8	269.3	217.5
87.5°	99.5	120.7	221.5	444.3	701.7	676.5	128.7	82.2	116.7	99.5
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°
3269.6	0°	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6
3278.9	2.5°	3297.4	3318.7	3343.9	3381.0	3412.8	3439.4	3467.2	3484.5	3491.1	3511.0
3284.2	5°	3321.3	3367.7	3430.1	3491.1	3550.8	3586.6	3618.4	3634.3	3648.9	3659.6
3298.8	7.5°	3361.1	3420.8	3519.0	3598.5	3648.9	3678.1	3699.3	3694.0	3699.3	3702.0
3314.7	10°	3395.6	3479.2	3595.9	3671.5	3710.0	3711.3	3706.0	3687.4	3678.1	3679.4
3338.6	12.5°	3436.7	3529.6	3655.6	3719.2	3729.9	3700.7	3678.1	3646.3	3634.3	3629.0
3374.4	15°	3492.4	3598.5	3720.6	3744.4	3717.9	3680.8	3642.3	3590.6	3564.0	3542.8
3435.4	17.5°	3560.1	3676.8	3771.0	3753.7	3696.7	3635.7	3573.3	3495.1	3440.7	3418.1
3519.0	20°	3654.2	3759.0	3809.4	3733.8	3647.6	3554.8	3448.7	3353.2	3302.7	3280.2
3625.1	22.5°	3768.3	3869.1	3846.6	3699.3	3577.3	3428.8	3296.1	3225.8	3200.6	3184.7
3761.7	25°	3904.9	3991.2	3873.1	3648.9	3461.9	3261.6	3159.5	3136.9	3125.0	3113.1
3928.8	27.5°	4082.7	4129.1	3893.0	3574.7	3281.5	3083.9	3046.8	3050.7	3046.8	3026.9
4160.9	30°	4317.4	4308.2	3911.6	3454.0	3074.6	2923.4	2926.0	2943.3	2945.9	2932.7
4484.6	32.5°	4626.5	4532.3	3920.9	3297.4	2877.0	2782.8	2785.5	2804.0	2817.3	2794.7
4907.7	35°	5000.5	4793.6	3906.3	3101.1	2724.4	2648.8	2628.9	2634.2	2638.2	2617.0
5421.0	37.5°	5436.9	5086.8	3841.3	2883.6	2598.4	2517.5	2475.1	2439.3	2418.0	2398.1
6002.0	40°	5915.8	5406.4	3721.9	2671.4	2457.8	2378.2	2314.6	2246.9	2175.3	2148.8
6617.4	42.5°	6417.1	5735.4	3577.3	2468.4	2296.0	2231.0	2163.4	2065.2	1957.8	1903.4
7256.8	45°	6937.1	6072.3	3435.4	2268.2	2130.2	2102.4	2024.1	1906.0	1789.3	1720.3
7897.4	47.5°	7446.4	6390.6	3227.1	2066.5	1975.0	2005.5	1944.5	1835.7	1705.8	1597.0
8532.8	50°	7933.2	6689.1	2886.3	1862.3	1849.0	1976.3	1918.0	1761.5	1612.9	1473.6
9156.2	52.5°	8416.0	6930.5	2449.9	1676.6	1781.4	1968.4	1883.5	1711.1	1529.3	1383.4
9742.4	55°	8825.9	7055.1	2029.4	1517.4	1683.2	1900.7	1842.4	1651.4	1411.3	1256.1
10144.3	57.5°	9059.3	6954.3	1679.2	1360.9	1547.9	1789.3	1772.1	1524.0	1270.7	1151.3
10222.6	60°	8958.5	6545.8	1392.7	1224.3	1419.3	1668.6	1650.0	1398.0	1163.3	1050.5
9803.5	62.5°	8402.8	5767.2	1165.9	1104.9	1302.5	1545.3	1528.0	1301.2	1081.0	972.3
8690.6	65°	7283.3	4691.5	989.5	1005.4	1184.5	1396.7	1421.9	1220.3	1016.0	909.9
6723.5	67.5°	5555.0	3398.2	851.6	919.2	1069.1	1250.8	1323.8	1161.9	961.6	860.8
3890.3	70°	3166.1	1929.9	734.8	835.6	966.9	1115.5	1248.1	1115.5	903.3	819.7
1457.7	72.5°	1200.4	886.0	635.3	752.1	868.8	1001.4	1164.6	1042.6	835.6	773.3
753.4	75°	640.7	539.8	534.5	653.9	756.1	890.0	1059.8	970.9	785.2	817.1
521.3	77.5°	436.4	382.0	447.0	559.7	632.7	766.7	948.4	862.2	680.4	677.8
360.8	80°	302.4	270.6	363.4	451.0	489.4	644.6	827.7	740.1	554.4	517.3
222.8	82.5°	181.7	176.4	271.9	336.9	346.2	497.4	685.8	620.8	453.6	395.3
132.6	85°	99.5	104.8	173.8	197.6	201.6	347.5	537.2	480.2	348.8	293.1
47.8	87.5°	27.9	35.8	63.7	78.3	96.8	180.4	319.7	285.2	175.1	122.0
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>
3269.6
3509.7
3662.2
3706.0
3682.1
3626.4
3549.5
3419.5
3277.5
3187.4
3113.1
3030.8
2939.3
2805.3
2631.6
2411.4
2160.7
1910.0
1715.0
1585.1
1461.7
1367.5
1242.8
1135.4
1034.6
955.0
892.7
844.9
809.1
762.7
<i>843.6</i>
624.7
494.7
397.9
295.8
122.0
0.0

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