

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: P942182

Luminaire Tested: **GALN-SB6A-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23447 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

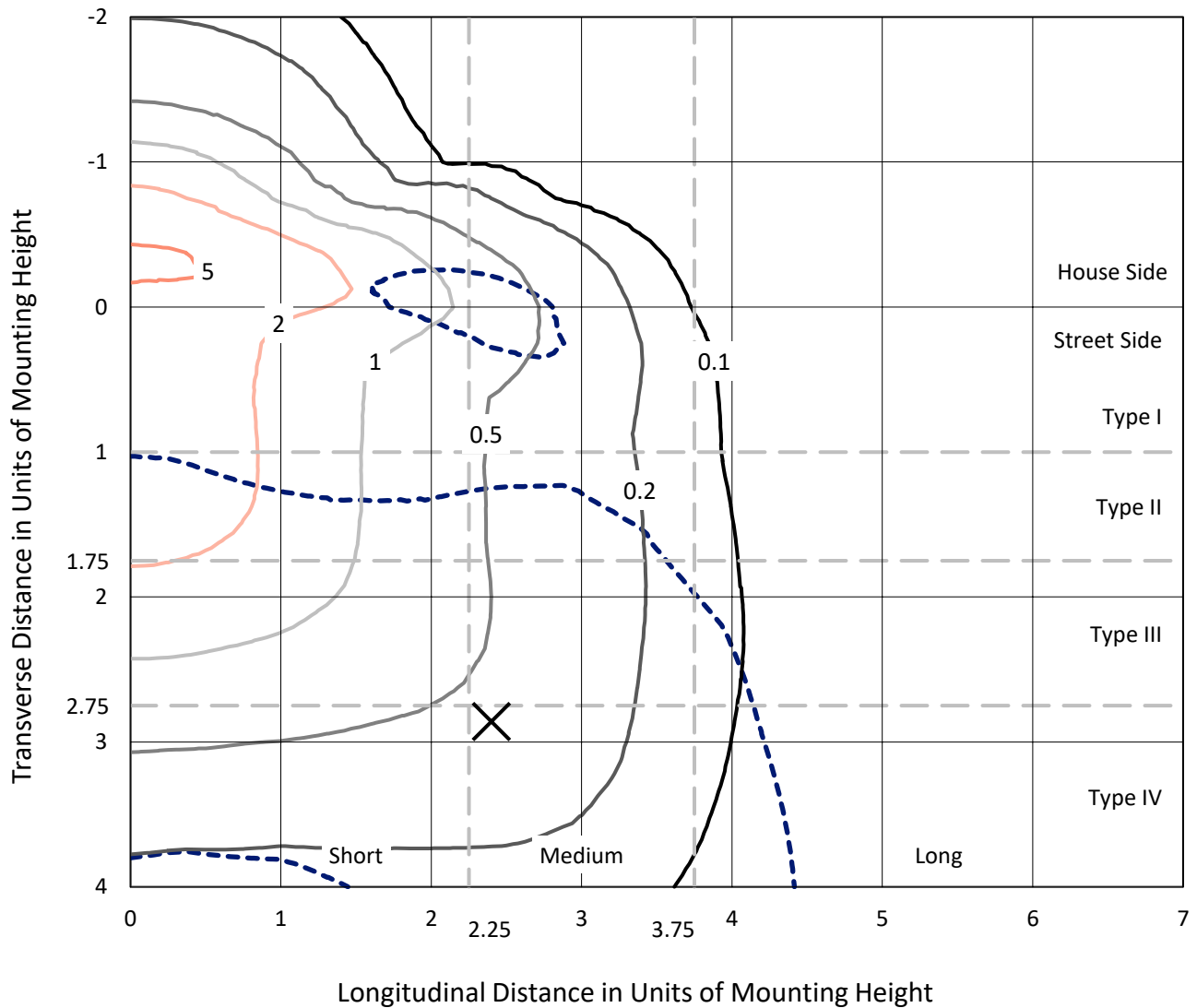
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

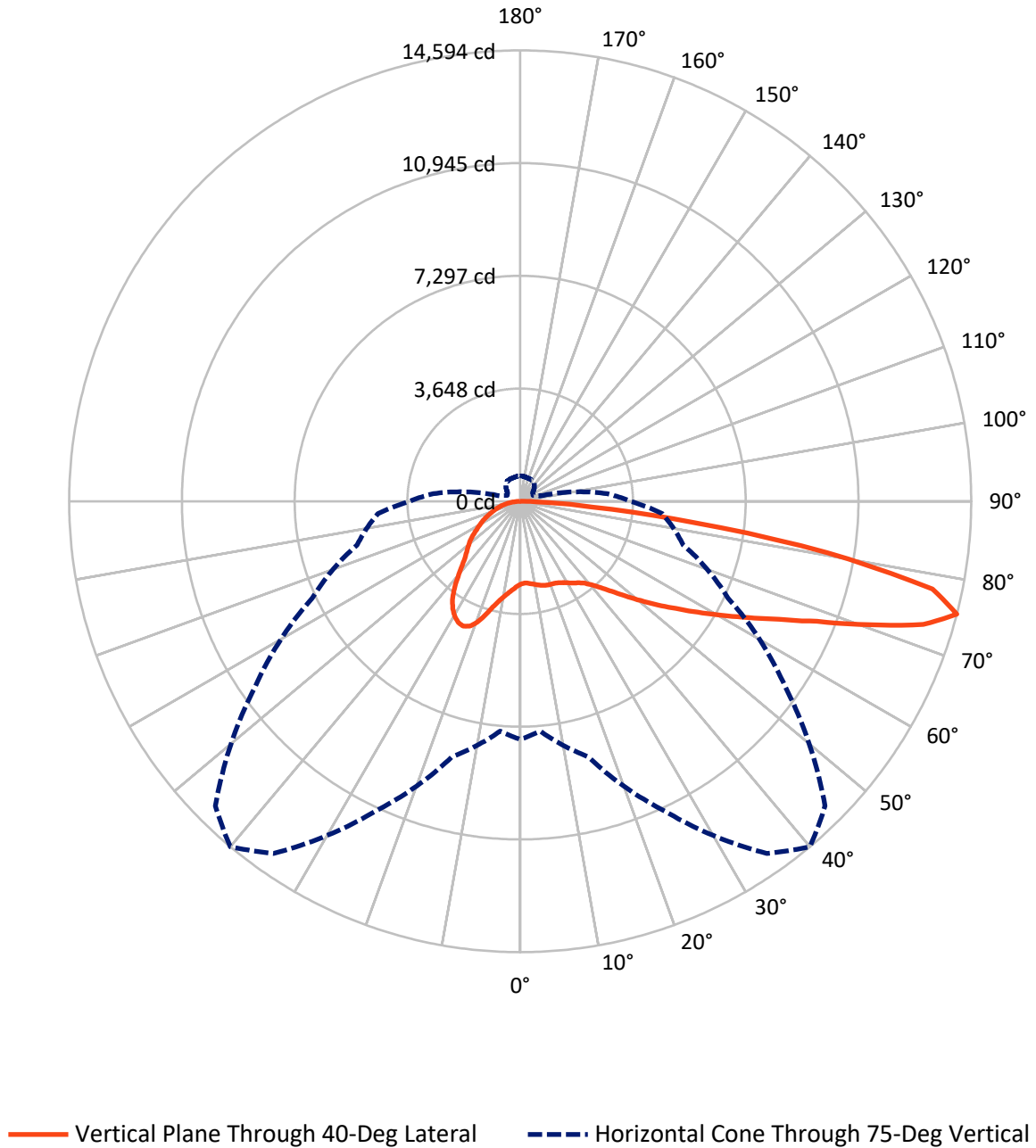
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7264.7	0.0	7264.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16182.3	0.0	16182.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	23447.0	0.0	23447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.1
10°-20°	898.6	3.8
20°-30°	1640.7	7.0
30°-40°	2327.0	9.9
40°-50°	3142.1	13.4
50°-60°	4227.0	18.0
60°-70°	5365.1	22.9
70°-80°	4869.1	20.8
80°-90°	709.8	3.0
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°	23447.0	100.0
0°-180°	23447.0	100.0

Coefficient of Utilization



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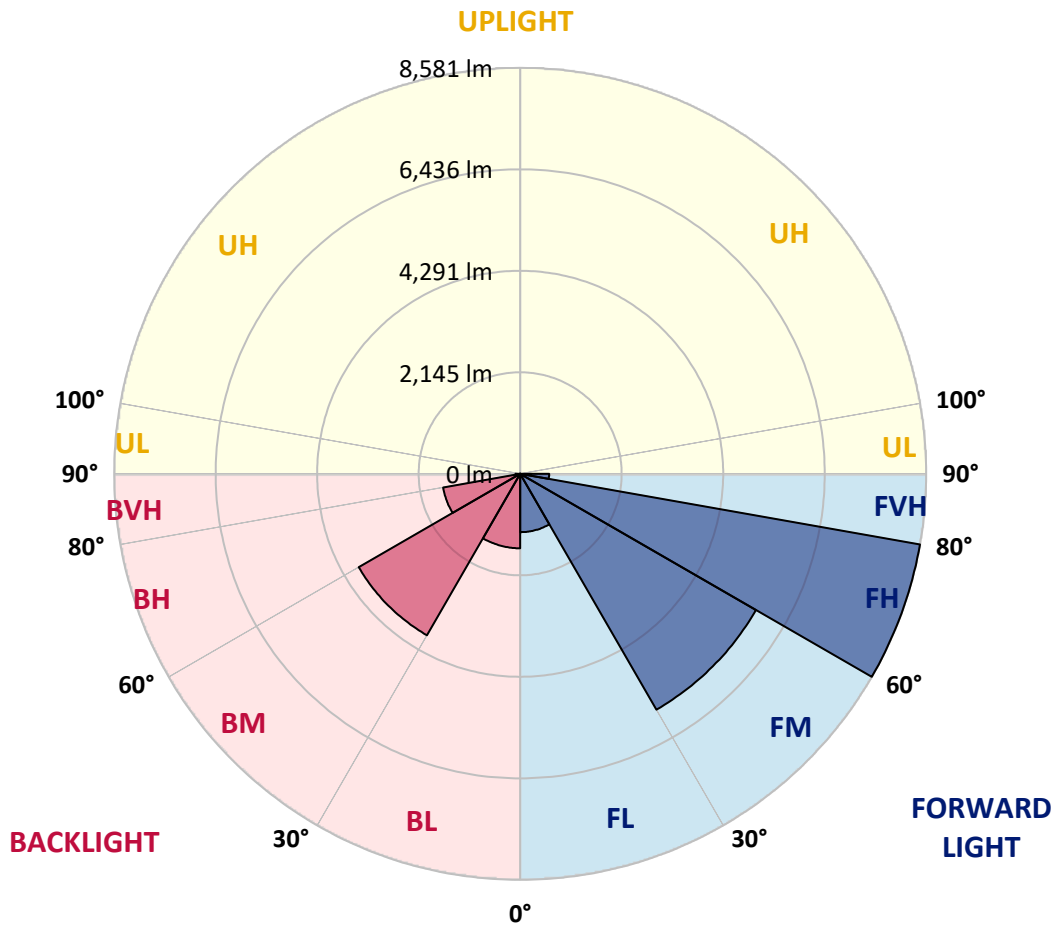
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.3	5.3			
FM (30°-60°)	5755.7	24.5			
FH (60°-80°)	8581.2	36.6			G4/12000
FVH (80°-90°)	612.1	2.6			G4/750
BL (0°-30°)	1573.6	6.7	B3/2500		
BM (30°-60°)	3940.4	16.8	B3/5000		
BH (60°-80°)	1652.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	97.7	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2
2.5°	2640.2	2655.1	2651.3	2646.4	2646.4	2647.6	2646.4	2655.1	2663.8	2672.5
5°	2667.5	2682.4	2675.0	2668.8	2663.8	2662.5	2658.8	2657.6	2662.5	2673.7
7.5°	2721.0	2735.9	2724.7	2713.5	2703.6	2698.6	2693.6	2686.2	2682.4	2688.7
10°	2780.7	2795.6	2781.9	2762.0	2745.9	2739.6	2734.7	2727.2	2722.2	2726.0
12.5°	2840.4	2855.3	2836.6	2809.3	2788.1	2784.4	2778.2	2775.7	2774.5	2773.2
15°	2896.3	2908.8	2885.1	2852.8	2830.4	2824.2	2818.0	2821.7	2827.9	2835.4
17.5°	2939.9	2952.3	2917.5	2875.2	2854.1	2851.6	2847.8	2860.3	2877.7	2896.3
20°	2979.7	2992.1	2947.3	2890.1	2865.2	2865.2	2866.5	2892.6	2917.5	2944.8
22.5°	3035.6	3045.6	2990.9	2912.5	2876.4	2878.9	2888.9	2915.0	2946.1	2983.4
25°	3118.9	3126.4	3059.2	2954.8	2913.7	2921.2	2929.9	2942.4	2972.2	3015.7
27.5°	3253.3	3259.5	3171.2	3029.4	2967.2	2979.7	2992.1	2983.4	2997.1	3034.4
30°	3442.3	3446.0	3334.1	3146.3	3058.0	3064.2	3066.7	3030.6	3004.5	3034.4
32.5°	3666.1	3664.9	3531.8	3288.1	3161.2	3155.0	3133.9	3063.0	3002.0	3028.2
35°	4013.1	3999.4	3827.8	3487.0	3278.1	3239.6	3189.8	3099.0	3014.5	3021.9
37.5°	4587.6	4545.3	4307.8	3812.9	3452.2	3354.0	3280.6	3157.5	3041.8	3019.5
40°	5235.5	5182.1	4920.9	4259.3	3713.4	3555.4	3437.3	3240.8	3086.6	3030.6
42.5°	6004.1	5928.2	5647.2	4785.4	4044.2	3815.4	3637.5	3346.5	3152.5	3066.7
45°	6948.0	6847.2	6449.3	5378.6	4460.8	4156.1	3918.6	3506.9	3253.3	3136.4
47.5°	7901.8	7926.7	7360.9	6057.6	4960.7	4576.4	4270.5	3748.2	3400.0	3248.3
50°	8915.3	8932.8	8267.4	6809.9	5527.8	5051.5	4666.0	4018.1	3603.9	3407.5
52.5°	9706.3	9708.8	9090.7	7597.1	6118.5	5573.8	5092.5	4326.5	3840.2	3618.9
55°	10201.2	10195.0	9667.7	8342.1	6797.5	6122.2	5565.1	4677.2	4128.7	3867.6
57.5°	10560.6	10542.0	10065.7	8982.5	7521.3	6770.1	6099.8	5075.1	4469.5	4163.6
60°	10697.4	10686.2	10335.5	9535.9	8282.4	7486.5	6716.7	5520.3	4856.2	4513.0
62.5°	10749.7	10770.8	10600.4	10071.9	9096.9	8279.9	7394.4	6052.6	5291.5	4908.5
65°	10933.7	10972.3	10937.4	10773.3	10017.2	9208.8	8293.6	6685.6	5766.6	5332.5
67.5°	11298.1	11336.6	11351.6	11612.7	11141.4	10366.6	9415.3	7474.0	6322.4	5772.8
70°	11289.4	11278.2	11541.8	12280.5	12549.1	11969.6	10927.5	8444.0	6985.3	6138.4
72.5°	10275.8	10186.3	10809.3	12273.1	13720.6	13643.5	12774.2	9695.1	7557.3	6183.2
75°	7709.1	7470.3	8570.9	11060.6	13915.9	14593.6	13948.2	10471.1	7421.8	5463.1
77.5°	3296.8	3056.8	4353.8	8187.8	12454.6	13642.3	12871.2	9135.5	5924.5	3612.7
80°	863.1	861.8	1315.7	3712.1	8470.1	10074.4	8838.2	5899.6	3385.1	1290.9
82.5°	356.9	348.2	483.8	1443.8	4138.7	5653.4	4613.7	2631.5	1222.5	349.5
85°	133.1	131.8	235.0	498.7	1460.0	2331.7	1687.6	672.8	304.7	170.4
87.5°	37.3	36.1	51.0	172.9	355.7	539.7	288.5	110.7	85.8	67.2
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°
2681.2	0°	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2	2681.2
2686.2	2.5°	2689.9	2696.1	2707.3	2716.0	2727.2	2739.6	2757.1	2768.2	2779.4	2786.9
2692.4	5°	2701.1	2714.8	2743.4	2772.0	2805.6	2836.6	2872.7	2898.8	2920.0	2926.2
2714.8	7.5°	2726.0	2748.3	2796.9	2845.4	2898.8	2949.8	3002.0	3046.8	3082.9	3096.6
2754.6	10°	2769.5	2799.3	2867.7	2936.1	3007.0	3085.4	3152.5	3217.2	3268.2	3289.3
2801.8	12.5°	2824.2	2861.5	2951.1	3045.6	3143.8	3252.0	3339.1	3418.6	3482.1	3510.7
2867.7	15°	2895.1	2943.6	3058.0	3184.9	3329.1	3479.6	3590.3	3678.6	3749.4	3784.3
2936.1	17.5°	2972.2	3036.9	3181.1	3372.6	3579.1	3776.8	3906.1	3970.8	4044.2	4077.8
2999.6	20°	3046.8	3126.4	3332.8	3611.4	3886.2	4096.4	4200.9	4218.3	4223.3	4227.0
3059.2	22.5°	3123.9	3230.9	3523.1	3912.4	4207.1	4352.6	4367.5	4292.9	4188.4	4139.9
3117.7	25°	3208.5	3350.3	3771.8	4244.4	4483.2	4500.6	4386.2	4204.6	4006.9	3916.1
3165.0	27.5°	3290.6	3488.3	4070.3	4561.5	4682.1	4529.2	4282.9	4025.5	3786.8	3691.0
3198.5	30°	3372.6	3646.2	4399.8	4838.8	4772.9	4458.3	4120.0	3832.8	3592.8	3492.0
3228.4	32.5°	3456.0	3830.3	4779.1	5039.1	4756.8	4307.8	3917.3	3616.4	3405.0	3299.3
3254.5	35°	3550.5	4056.6	5138.5	5148.5	4648.6	4086.5	3650.0	3357.7	3173.7	3089.1
3285.6	37.5°	3673.6	4343.9	5455.7	5175.9	4459.5	3761.9	3317.9	3051.8	2900.1	2861.5
3331.6	40°	3826.5	4689.6	5698.2	5132.3	4179.7	3367.7	2954.8	2742.1	2656.3	2665.0
3393.8	42.5°	4025.5	5076.4	5868.5	5020.4	3790.5	2961.0	2636.4	2541.9	2583.0	2617.8
3487.0	45°	4284.2	5478.0	5974.2	4830.1	3350.3	2616.5	2448.6	2471.0	2502.1	2505.8
3637.5	47.5°	4615.0	5884.7	6043.9	4542.9	2901.3	2374.0	2329.3	2334.2	2328.0	2301.9
3862.6	50°	5027.9	6280.2	6106.1	4162.3	2519.5	2222.3	2162.6	2145.2	2059.4	1974.8
4162.3	52.5°	5497.9	6643.3	6132.2	3689.8	2222.3	2095.5	1998.5	1889.0	1728.6	1702.5
4539.1	55°	6020.3	6979.1	6065.0	3109.0	1972.3	1932.6	1785.8	1654.0	1636.6	1614.2
5035.3	57.5°	6644.5	7341.0	5928.2	2461.1	1716.2	1742.3	1599.3	1614.2	1583.1	1548.3
5673.3	60°	7327.3	7715.3	5688.2	1870.4	1451.3	1504.8	1550.8	1549.5	1540.8	1512.2
6346.1	62.5°	7941.6	7961.5	5215.6	1432.6	1218.7	1320.7	1446.3	1445.1	1437.6	1421.4
7048.7	65°	8307.2	7924.2	4427.2	1127.9	1027.2	1169.0	1304.5	1314.5	1315.7	1314.5
7577.2	67.5°	8242.6	7487.7	3345.3	897.9	869.3	1014.8	1164.0	1177.7	1187.6	1190.1
7644.4	70°	7511.3	6528.9	2181.3	716.3	728.7	879.2	1030.9	1044.6	1053.3	1063.3
6633.3	72.5°	5854.9	4800.3	1248.6	579.5	605.6	762.3	899.1	915.3	920.3	938.9
4616.2	75°	3567.9	2823.0	674.0	456.4	497.4	651.6	768.5	787.2	795.9	818.3
2267.1	77.5°	1696.3	1222.5	384.3	355.7	400.4	532.3	649.2	670.3	646.7	659.1
625.5	80°	573.3	453.9	242.5	271.1	305.9	415.4	519.8	541.0	491.2	488.7
207.7	82.5°	200.2	184.1	154.2	180.3	197.7	297.2	393.0	420.3	365.6	364.4
93.3	85°	78.3	74.6	85.8	98.2	118.1	182.8	258.7	272.3	225.1	181.6
27.4	87.5°	16.2	17.4	21.1	22.4	36.1	63.4	93.3	114.4	90.8	77.1
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>
2681.2
2781.9
2928.7
3097.8
3290.6
3510.7
3781.8
4076.5
4236.9
4153.6
3929.8
3702.2
3503.2
3312.9
3107.7
2888.9
2694.9
2650.1
2530.7
2321.8
1986.0
1711.2
1617.9
1542.1
1502.3
1415.2
1314.5
1192.6
1068.3
946.4
<i>820.8</i>
649.2
483.8
347.0
179.1
70.9
0.0

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