

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: P955098

Luminaire Tested: **GALN-SB8A-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22036 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

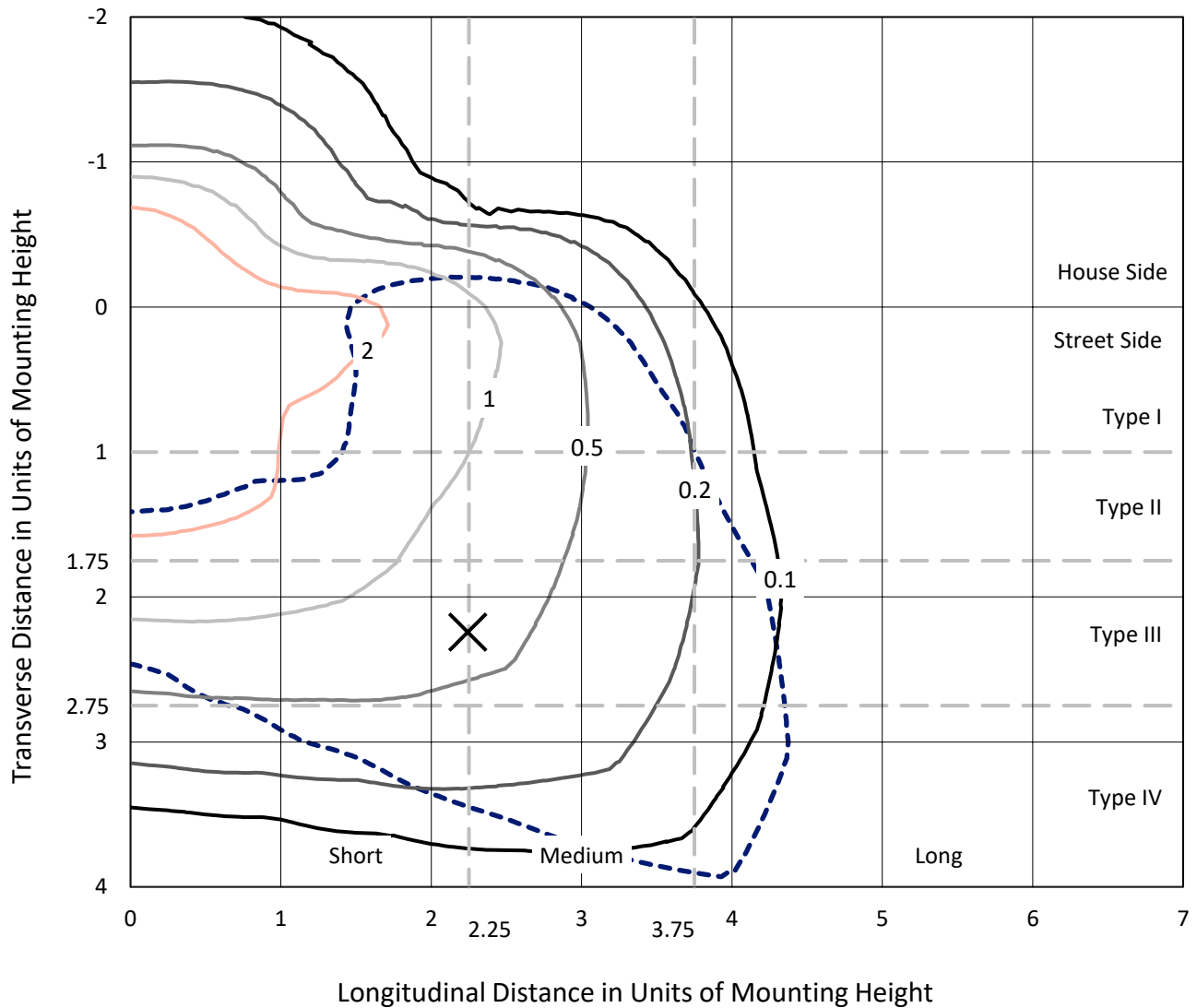
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

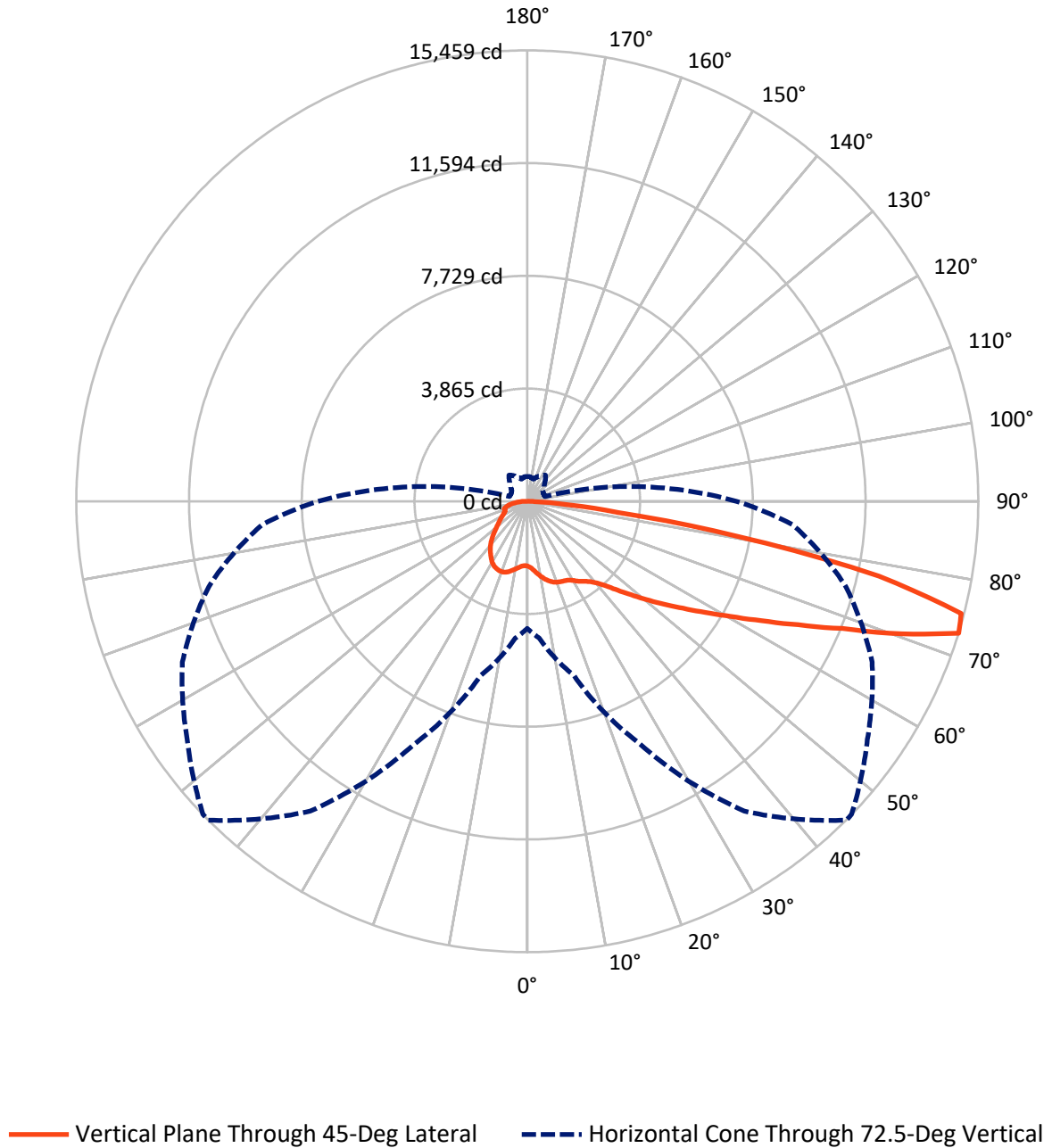
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4981.6	0.0	4981.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17054.4	0.0	17054.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	22036.0	0.0	22036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	1.0
10°-20°	754.4	3.4
20°-30°	1312.3	6.0
30°-40°	1881.2	8.5
40°-50°	2648.9	12.0
50°-60°	4057.3	18.4
60°-70°	5877.6	26.7
70°-80°	4693.6	21.3
80°-90°	584.6	2.7
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°	22036.0	100.0
0°-180°	22036.0	100.0

Coefficient of Utilization



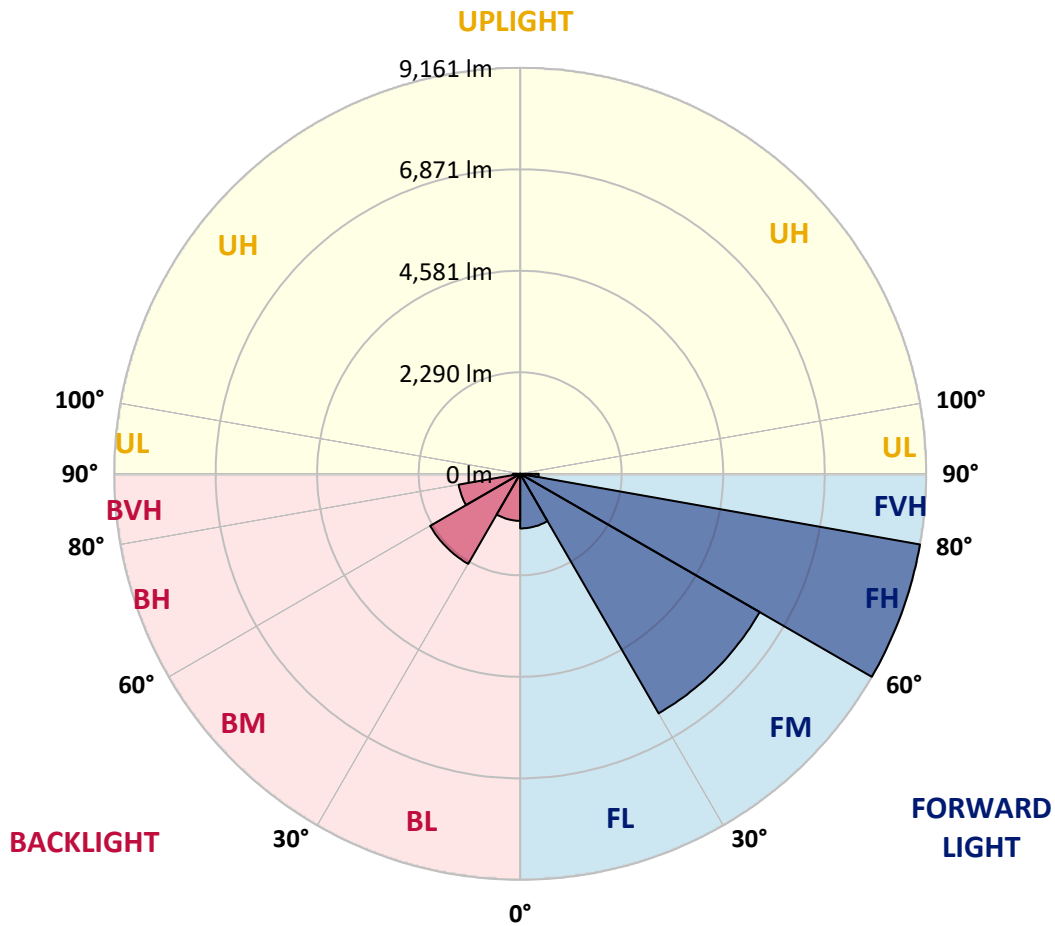
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.3	5.6			
FM (30°-60°)	6241.7	28.3			
FH (60°-80°)	9161.0	41.6			G4/12000
FVH (80°-90°)	419.4	1.9			G3/500
BL (0°-30°)	1060.6	4.8	B3/2500		
BM (30°-60°)	2345.6	10.6	B2/2500		
BH (60°-80°)	1410.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	165.2	0.7			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°	45°	46°	55°	65°	75°
0°	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0
2.5°	2310.1	2325.2	2311.2	2298.5	2292.7	2277.6	2276.4	2267.1	2261.3	2245.1
5°	2471.4	2491.2	2467.9	2442.4	2419.2	2382.0	2377.4	2350.7	2320.5	2285.7
7.5°	2653.7	2671.1	2644.4	2606.1	2565.5	2503.9	2502.8	2454.0	2406.4	2347.2
10°	2812.7	2835.9	2799.9	2747.7	2696.6	2627.0	2618.8	2563.1	2502.8	2426.2
12.5°	2953.2	2969.4	2934.6	2870.8	2811.5	2741.9	2731.5	2669.9	2602.6	2515.5
15°	3064.6	3085.5	3039.1	2970.6	2907.9	2839.4	2830.1	2774.4	2707.1	2615.4
17.5°	3137.7	3155.2	3107.6	3030.9	2970.6	2913.7	2906.7	2860.3	2801.1	2708.2
20°	3165.6	3184.2	3134.3	3056.5	3000.8	2956.7	2953.2	2919.5	2878.9	2794.1
22.5°	3193.5	3210.9	3145.9	3064.6	3015.9	2988.0	2986.8	2964.8	2948.5	2878.9
25°	3306.1	3310.7	3223.6	3106.4	3036.8	3012.4	3011.2	3010.1	3017.0	2962.5
27.5°	3403.6	3402.4	3328.1	3217.8	3109.9	3058.8	3057.6	3069.3	3091.3	3046.0
30°	3546.4	3533.6	3445.4	3330.4	3231.8	3152.8	3145.9	3135.4	3152.8	3116.8
32.5°	3849.3	3808.7	3665.9	3461.6	3332.8	3272.4	3263.1	3198.1	3205.1	3183.0
35°	4283.5	4230.1	4039.7	3710.0	3458.1	3372.2	3367.6	3285.2	3271.2	3251.5
37.5°	4800.1	4733.9	4512.2	4069.9	3674.1	3488.3	3481.4	3407.1	3350.2	3329.3
40°	5319.0	5235.4	5052.0	4508.7	3992.1	3682.2	3660.1	3547.5	3482.5	3447.7
42.5°	5822.8	5753.1	5596.4	5000.9	4384.5	3965.4	3916.7	3724.0	3675.2	3642.7
45°	6268.5	6205.8	6090.9	5526.7	4844.2	4350.8	4303.2	3988.6	3973.5	3973.5
47.5°	6630.7	6616.8	6494.9	6063.1	5386.3	4789.6	4707.2	4356.6	4397.3	4459.9
50°	7032.4	6994.0	6864.0	6591.2	6023.6	5292.3	5224.9	4808.2	4960.3	5132.1
52.5°	7401.5	7422.4	7277.3	7141.5	6743.3	5852.9	5734.5	5341.0	5669.5	5953.9
55°	7781.1	7782.3	7741.6	7723.1	7497.8	6472.8	6342.8	5981.8	6504.2	6857.1
57.5°	8137.5	8139.8	8200.2	8363.8	8373.1	7187.9	7040.5	6768.8	7431.7	7791.5
60°	8455.5	8471.8	8636.6	9019.7	9142.8	8007.5	7868.2	7698.7	8390.5	8752.7
62.5°	8562.3	8621.5	8988.4	9532.8	9903.1	9012.7	8875.8	8774.8	9398.1	9734.8
65°	8381.2	8517.1	9226.3	9956.5	10685.5	10207.2	10071.4	9961.1	10445.2	10762.1
67.5°	7936.6	8111.9	9212.4	10401.1	11635.1	11644.4	11517.8	11259.0	11567.7	11689.6
70°	6765.4	7027.7	8401.0	10567.1	12725.1	13609.7	13487.8	12821.4	12688.0	12098.2
72.5°	4358.9	4711.8	6186.1	9200.8	12967.7	15458.9	15451.9	14231.9	13042.0	11304.2
75°	1590.3	1806.3	2874.2	5775.2	10885.2	15364.8	15410.1	13990.4	11905.5	8731.8
77.5°	579.3	633.8	938.0	2219.5	6694.5	12328.1	12422.1	11184.7	8474.1	4382.2
80°	304.1	334.3	480.6	861.3	2868.4	7321.4	7468.8	6647.0	3982.8	1319.9
82.5°	168.3	182.3	269.3	467.8	1292.0	3130.8	3219.0	2625.8	1401.1	559.5
85°	90.5	96.3	126.5	255.4	631.5	1085.4	1109.8	784.7	558.4	328.5
87.5°	26.7	32.5	41.8	81.3	247.3	243.8	249.6	155.6	220.6	166.0
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°
2223.0	0°	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0	2223.0
2240.4	2.5°	2233.5	2230.0	2217.2	2211.4	2204.4	2203.3	2209.1	2210.2	2211.4	2212.6
2266.0	5°	2254.3	2242.7	2231.1	2224.2	2226.5	2227.6	2239.3	2247.4	2253.2	2257.8
2313.5	7.5°	2295.0	2285.7	2266.0	2264.8	2268.3	2278.7	2293.8	2312.4	2322.8	2331.0
2375.1	10°	2355.3	2337.9	2314.7	2318.2	2325.2	2340.2	2371.6	2386.7	2404.1	2419.2
2450.5	12.5°	2416.9	2401.8	2375.1	2377.4	2389.0	2415.7	2445.9	2464.5	2476.1	2487.7
2531.8	15°	2497.0	2470.3	2441.2	2441.2	2462.1	2491.2	2505.1	2520.2	2527.1	2539.9
2618.8	17.5°	2579.4	2544.6	2506.2	2503.9	2529.5	2543.4	2551.5	2553.8	2556.2	2570.1
2703.6	20°	2661.8	2623.5	2568.9	2564.3	2570.1	2567.8	2566.6	2564.3	2567.8	2585.2
2790.7	22.5°	2743.1	2698.9	2623.5	2602.6	2586.3	2564.3	2563.1	2562.0	2564.3	2581.7
2884.7	25°	2838.2	2784.8	2683.9	2621.2	2566.6	2536.4	2539.9	2541.1	2543.4	2557.3
2982.2	27.5°	2941.6	2882.4	2739.6	2615.4	2516.7	2495.8	2490.0	2493.5	2501.6	2523.7
3079.7	30°	3044.9	2975.2	2790.7	2592.1	2454.0	2425.0	2406.4	2414.5	2440.1	2462.1
3164.4	32.5°	3138.9	3069.3	2831.3	2541.1	2373.9	2328.6	2304.3	2314.7	2340.2	2348.4
3258.5	35°	3249.2	3170.2	2848.7	2459.8	2286.8	2217.2	2184.7	2169.6	2182.4	2174.2
3368.7	37.5°	3372.2	3289.8	2846.4	2353.0	2184.7	2104.6	2059.3	2002.4	1975.7	1947.9
3531.3	40°	3554.5	3436.1	2818.5	2224.2	2058.2	1985.0	1903.8	1807.4	1747.1	1692.5
3793.6	42.5°	3802.9	3639.2	2767.4	2082.5	1915.4	1846.9	1736.6	1624.0	1528.8	1438.3
4191.8	45°	4173.2	3905.1	2703.6	1931.6	1761.0	1693.7	1574.1	1447.6	1339.6	1223.5
4757.1	47.5°	4707.2	4262.6	2643.2	1759.8	1598.5	1536.9	1429.0	1311.7	1184.1	1071.5
5574.3	50°	5440.8	4775.7	2587.5	1592.7	1438.3	1391.8	1305.9	1186.4	1057.5	967.0
6532.0	52.5°	6374.2	5473.3	2564.3	1431.3	1288.5	1271.1	1202.6	1091.2	969.3	892.7
7648.8	55°	7445.6	6308.0	2564.3	1276.9	1157.4	1163.2	1115.6	1012.3	906.6	838.1
8800.3	57.5°	8539.1	7153.1	2517.9	1134.1	1045.9	1070.3	1040.1	949.6	854.4	783.6
10011.1	60°	9546.7	7861.2	2329.8	1004.1	947.2	985.6	965.8	888.0	772.0	712.8
11023.3	62.5°	10321.0	8260.5	1967.6	900.8	866.0	910.1	899.6	806.8	756.9	732.5
11854.5	65°	10708.7	8195.5	1504.4	809.1	797.5	866.0	843.9	840.4	801.0	773.1
12124.9	67.5°	10470.8	7636.0	1091.2	741.8	758.0	825.4	910.1	924.0	850.9	796.3
11363.4	70°	9427.2	6623.7	812.6	677.9	708.1	826.5	1037.8	967.0	834.6	770.8
9113.7	72.5°	7171.7	4939.4	630.3	610.6	643.1	832.3	1094.7	947.2	788.2	852.1
5677.7	75°	4101.2	2711.7	506.1	528.2	561.8	777.8	1065.6	896.2	752.2	782.4
2249.7	77.5°	1563.6	1042.4	417.9	446.9	451.6	679.1	1019.2	892.7	716.2	698.8
674.4	80°	542.1	407.5	345.9	355.2	349.4	603.6	977.4	776.6	586.2	524.7
278.6	82.5°	221.7	203.1	274.0	262.3	248.4	469.0	789.4	635.0	479.4	423.7
134.7	85°	96.3	128.9	181.1	159.0	143.9	325.0	632.7	537.5	405.1	349.4
44.1	87.5°	19.7	48.8	76.6	72.0	74.3	217.1	449.2	381.9	286.7	214.8
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>
2223.0
2217.2
2260.2
2333.3
2415.7
2492.3
2544.6
2574.7
2592.1
2593.3
2575.9
2545.7
2486.5
2377.4
2199.8
1965.3
1696.0
1430.2
1209.6
1058.7
961.2
886.9
831.2
772.0
703.5
724.4
763.8
787.0
760.3
<i>845.1</i>
782.4
637.3
507.3
419.1
348.3
168.3
0.0

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