

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: P940529

Luminaire Tested: **GALN-SB3C-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940529
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-SB3C-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21243 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

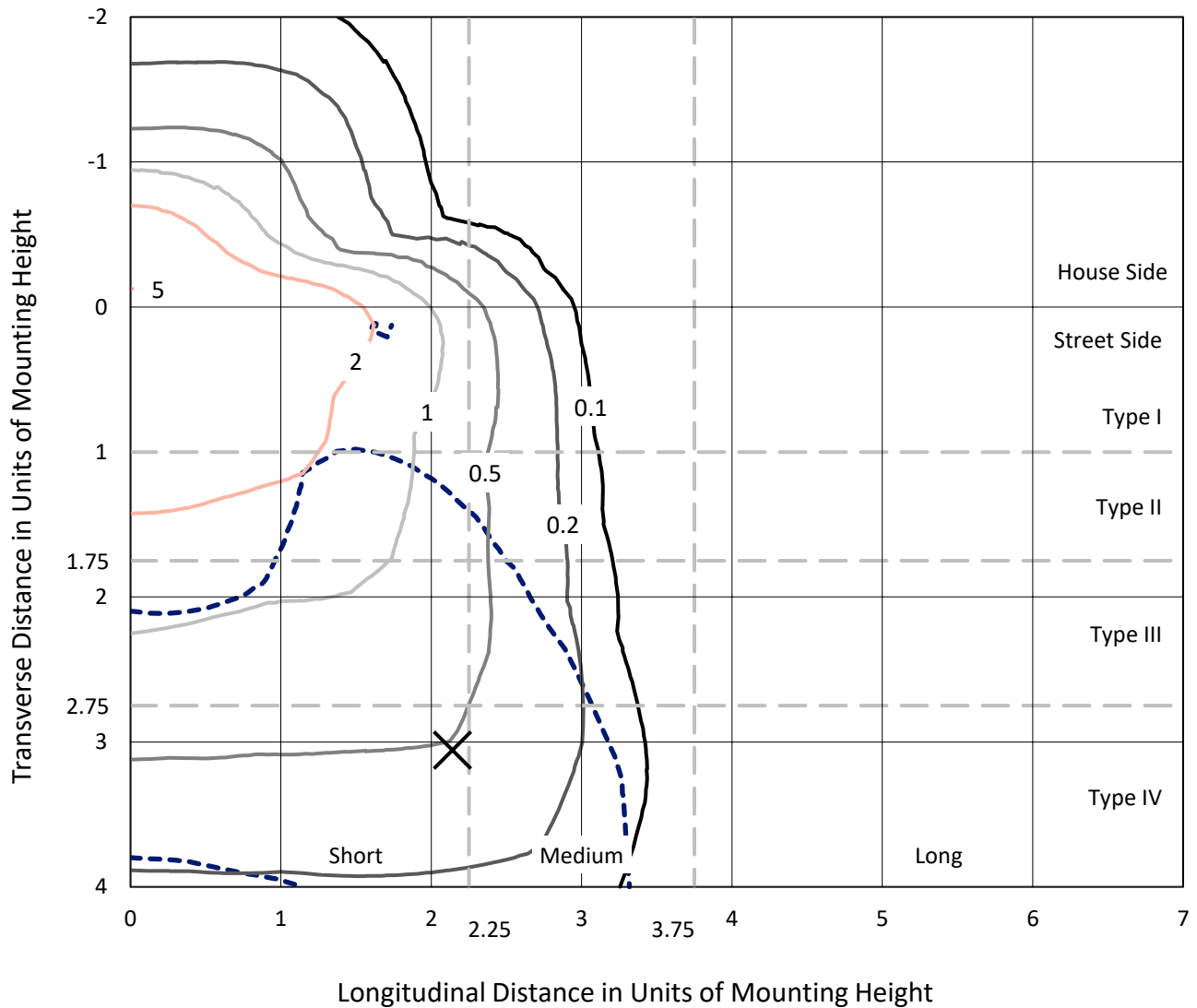
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

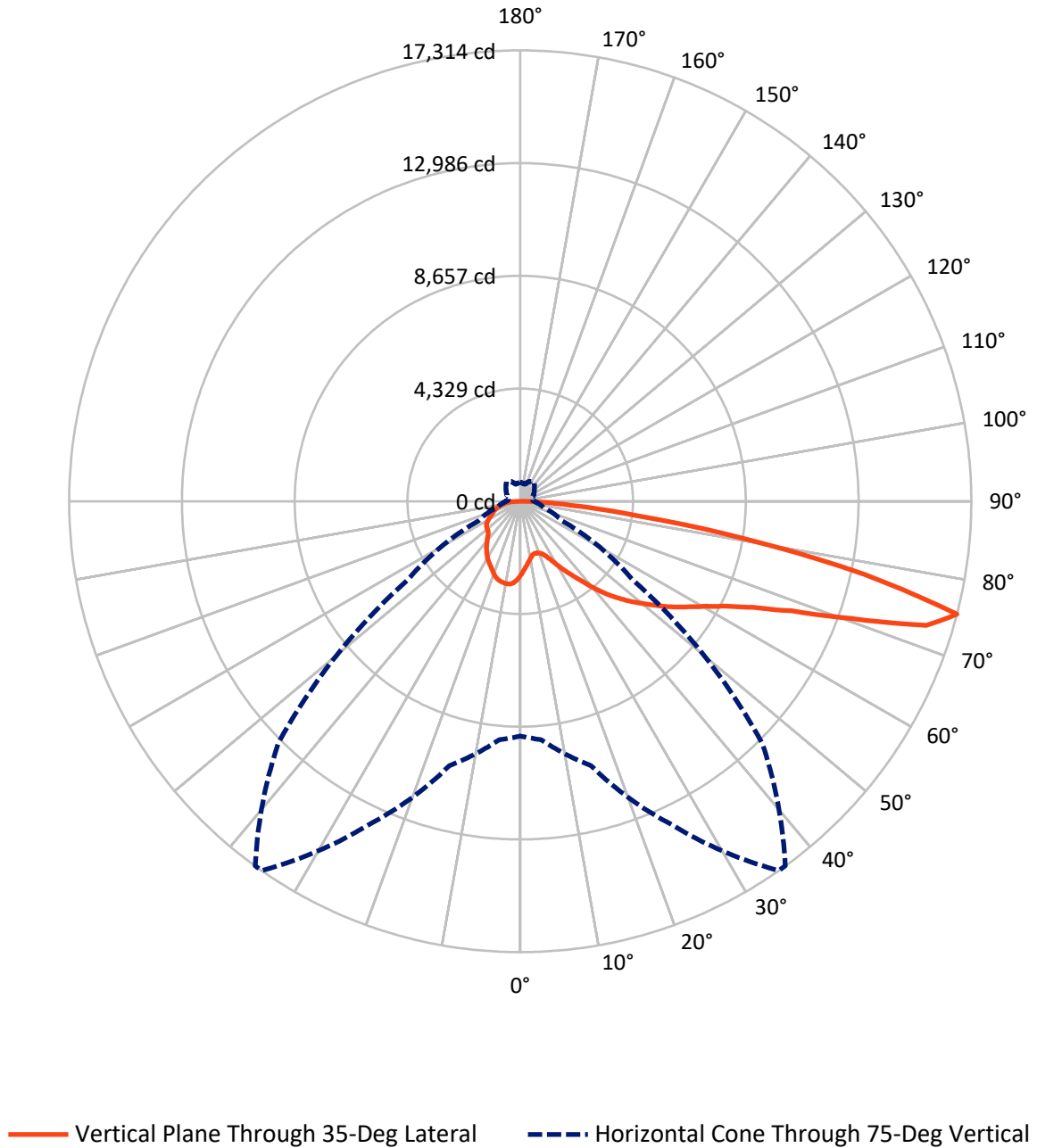
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	5055.3	0.0	5055.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16187.7	0.0	16187.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	21243.0	0.0	21243.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.3
10°-20°	773.1	3.6
20°-30°	1298.2	6.1
30°-40°	2017.6	9.5
40°-50°	2994.6	14.1
50°-60°	4134.3	19.5
60°-70°	5015.8	23.6
70°-80°	4145.2	19.5
80°-90°	596.2	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°	21243.0	100.0
0°-180°	21243.0	100.0



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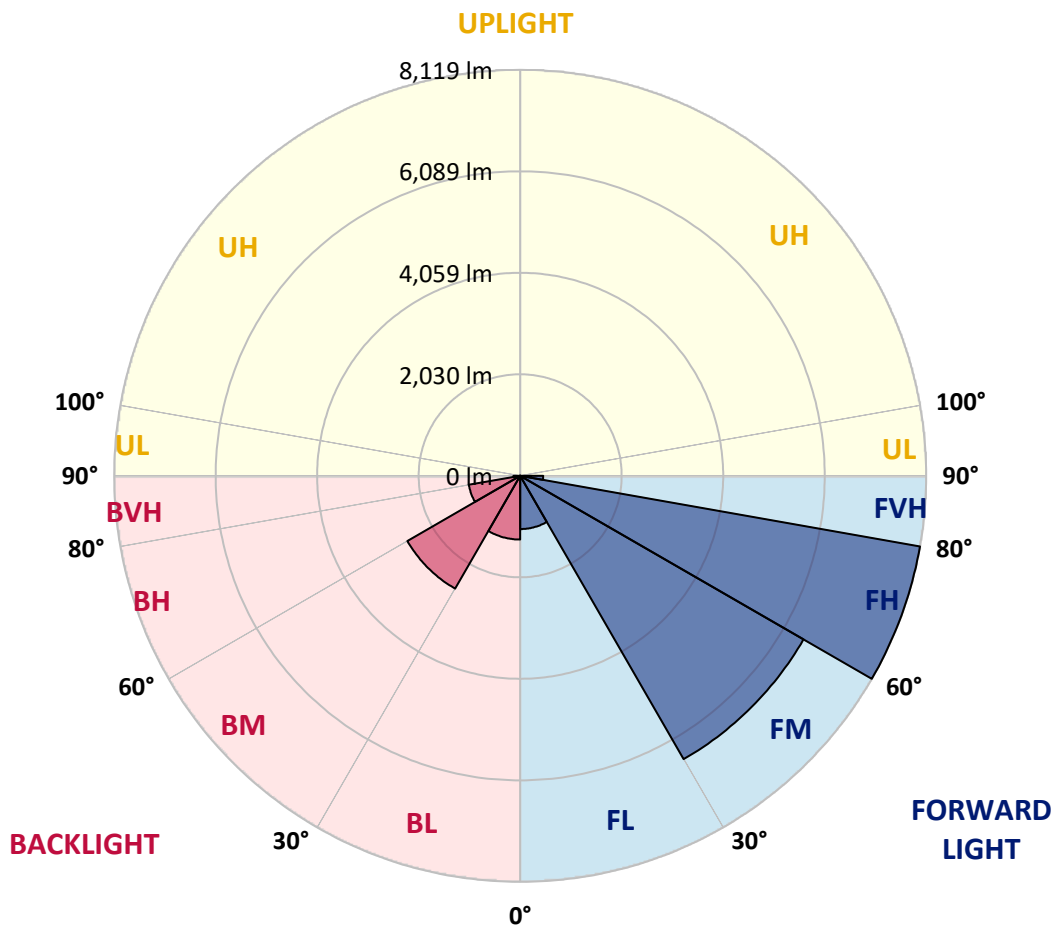
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.3	5.0			
FM (30°-60°)	6541.7	30.8			
FH (60°-80°)	8118.8	38.2			G4/12000
FVH (80°-90°)	462.0	2.2			G3/500
BL (0°-30°)	1274.0	6.0	B3/2500		
BM (30°-60°)	2604.8	12.3	B3/5000		
BH (60°-80°)	1042.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	134.2	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°	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8
2.5°	2610.3	2626.4	2633.3	2629.8	2647.0	2644.7	2668.9	2698.7	2740.1	2780.2
5°	2409.3	2426.5	2441.5	2455.3	2488.6	2498.9	2536.8	2594.2	2670.0	2746.9
7.5°	2222.1	2237.1	2260.0	2285.3	2341.6	2351.9	2415.1	2504.6	2610.3	2722.8
10°	2069.4	2084.3	2108.4	2137.1	2207.2	2219.8	2300.2	2419.7	2557.5	2699.9
12.5°	2003.9	2008.5	2022.3	2051.0	2111.9	2119.9	2208.3	2345.0	2505.8	2682.6
15°	2000.5	2009.7	2010.8	2025.8	2076.3	2079.7	2161.3	2296.8	2473.6	2679.2
17.5°	2034.9	2041.8	2031.5	2040.7	2083.2	2088.9	2153.2	2273.8	2463.3	2694.1
20°	2126.8	2132.6	2101.5	2088.9	2119.9	2124.5	2187.7	2288.7	2473.6	2725.1
22.5°	2322.0	2325.5	2249.7	2198.0	2200.3	2202.6	2257.7	2349.6	2513.8	2781.4
25°	2626.4	2624.1	2503.5	2403.6	2346.2	2333.5	2370.3	2448.4	2581.6	2856.0
27.5°	2982.4	2965.1	2844.6	2695.3	2570.1	2551.7	2543.7	2577.0	2678.0	2954.8
30°	3384.3	3368.2	3238.5	3043.2	2869.8	2840.0	2764.2	2746.9	2821.6	3089.2
32.5°	3825.3	3814.9	3659.9	3423.3	3191.4	3156.9	3029.4	2983.5	3042.1	3292.4
35°	4195.1	4185.9	4057.3	3813.8	3530.1	3487.7	3357.9	3306.2	3336.1	3553.1
37.5°	4529.2	4524.6	4414.4	4222.6	3929.8	3878.1	3732.3	3715.0	3709.3	3896.5
40°	4839.3	4827.8	4713.0	4611.9	4394.9	4347.8	4219.2	4204.2	4160.6	4319.1
42.5°	5182.7	5152.8	4986.3	4939.2	4880.6	4841.6	4764.7	4767.0	4670.5	4795.7
45°	5462.9	5445.7	5274.5	5247.0	5310.1	5294.1	5360.7	5377.9	5190.7	5295.2
47.5°	5763.8	5747.7	5603.0	5583.5	5754.6	5759.2	5994.6	6000.3	5698.3	5814.3
50°	6134.7	6111.7	5968.2	5992.3	6184.1	6201.3	6631.9	6592.9	6165.7	6341.4
52.5°	6379.3	6393.1	6362.1	6401.1	6662.9	6679.0	7259.0	7159.0	6628.5	6861.6
55°	6559.6	6587.1	6683.6	6773.2	7168.2	7184.3	7850.4	7697.6	7012.0	7343.9
57.5°	6791.6	6752.5	6932.8	7107.4	7648.3	7690.7	8425.7	8216.7	7352.0	7759.6
60°	7124.6	7097.0	7237.1	7495.5	8185.7	8253.5	9034.4	8684.1	7601.2	8089.2
62.5°	7799.8	7730.9	7752.8	7981.3	8863.2	8952.8	9721.1	9091.8	7725.2	8217.9
65°	8809.3	8691.0	8580.7	8739.2	9817.6	9906.0	10496.3	9412.2	7679.3	7968.7
67.5°	10080.5	9963.4	9827.9	9977.2	11223.2	11293.2	11452.9	9592.5	7317.5	7008.6
70°	11129.0	11085.4	11247.3	11861.7	13468.3	13470.6	12679.3	9443.2	6326.5	4969.1
72.5°	10990.1	10963.6	11816.9	13716.3	16297.9	16237.0	13840.4	8313.2	4261.7	2241.7
75°	9016.0	9187.1	10508.9	13683.0	17314.2	17306.2	13129.5	5284.9	1762.8	929.0
77.5°	4834.7	5105.7	6822.6	10102.4	13516.5	13719.8	9230.7	1848.9	756.8	594.9
80°	1576.7	1813.3	2719.4	5143.6	8782.9	8745.0	3956.2	725.8	517.9	421.5
82.5°	669.5	697.1	1215.0	2428.8	4507.4	4437.4	1259.8	416.9	364.0	288.2
85°	261.8	292.8	536.3	1123.1	1952.3	1909.8	454.8	206.7	233.1	188.3
87.5°	86.1	104.5	191.8	384.7	607.5	585.7	111.4	71.2	101.1	86.1
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°
2830.8	0°	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8	2830.8
2838.8	2.5°	2854.9	2873.3	2895.1	2927.2	2954.8	2977.8	3001.9	3016.8	3022.6	3039.8
2843.4	5°	2875.6	2915.8	2969.7	3022.6	3074.2	3105.2	3132.8	3146.6	3159.2	3168.4
2856.0	7.5°	2910.0	2961.7	3046.7	3115.6	3159.2	3184.5	3202.9	3198.3	3202.9	3205.1
2869.8	10°	2939.9	3012.2	3113.3	3178.7	3212.0	3213.2	3208.6	3192.5	3184.5	3185.6
2890.5	12.5°	2975.5	3055.9	3165.0	3220.1	3229.3	3204.0	3184.5	3156.9	3146.6	3142.0
2921.5	15°	3023.7	3115.6	3221.2	3241.9	3218.9	3186.8	3153.5	3108.7	3085.7	3067.3
2974.3	17.5°	3082.3	3183.3	3264.9	3249.9	3200.6	3147.7	3093.8	3026.0	2978.9	2959.4
3046.7	20°	3163.8	3254.5	3298.2	3232.7	3158.1	3077.7	2985.8	2903.1	2859.5	2840.0
3138.5	22.5°	3262.6	3349.8	3330.3	3202.9	3097.2	2968.6	2853.7	2792.9	2771.1	2757.3
3256.8	25°	3380.9	3455.5	3353.3	3159.2	2997.3	2823.9	2735.5	2715.9	2705.6	2695.3
3401.5	27.5°	3534.7	3574.9	3370.5	3094.9	2841.1	2670.0	2637.8	2641.3	2637.8	2620.6
3602.5	30°	3738.0	3730.0	3386.6	2990.4	2662.0	2531.0	2533.3	2548.3	2550.6	2539.1
3882.7	32.5°	4005.6	3924.0	3394.6	2854.9	2490.9	2409.3	2411.6	2427.7	2439.2	2419.7
4249.0	35°	4329.4	4150.3	3382.0	2684.9	2358.8	2293.3	2276.1	2280.7	2284.1	2265.8
4693.5	37.5°	4707.2	4404.1	3325.7	2496.6	2249.7	2179.6	2142.9	2111.9	2093.5	2076.3
5196.5	40°	5121.8	4680.8	3222.4	2312.9	2128.0	2059.1	2003.9	1945.4	1883.4	1860.4
5729.3	42.5°	5555.9	4965.6	3097.2	2137.1	1987.9	1931.6	1873.0	1788.0	1695.0	1647.9
6282.8	45°	6006.1	5257.3	2974.3	1963.7	1844.3	1820.2	1752.4	1650.2	1549.2	1489.5
6837.5	47.5°	6447.0	5532.9	2794.0	1789.2	1709.9	1736.4	1683.5	1589.4	1476.8	1382.7
7387.6	50°	6868.5	5791.3	2498.9	1612.3	1600.9	1711.1	1660.6	1525.1	1396.4	1275.9
7927.3	52.5°	7286.5	6000.3	2121.1	1451.6	1542.3	1704.2	1630.7	1481.4	1324.1	1197.8
8434.9	55°	7641.4	6108.3	1757.0	1313.8	1457.3	1645.6	1595.1	1429.7	1221.9	1087.5
8782.9	57.5°	7843.5	6021.0	1453.9	1178.2	1340.2	1549.2	1534.2	1319.5	1100.2	996.8
8850.6	60°	7756.2	5667.3	1205.8	1060.0	1228.8	1444.7	1428.6	1210.4	1007.1	909.5
8487.7	62.5°	7275.0	4993.2	1009.4	956.6	1127.7	1337.9	1322.9	1126.6	935.9	841.8
7524.2	65°	6305.8	4061.8	856.7	870.5	1025.5	1209.3	1231.1	1056.5	879.7	787.8
5821.2	67.5°	4809.4	2942.2	737.3	795.8	925.6	1082.9	1146.1	1006.0	832.6	745.3
3368.2	70°	2741.2	1670.9	636.2	723.5	837.2	965.8	1080.6	965.8	782.1	709.7
1262.1	72.5°	1039.3	767.1	550.1	651.1	752.2	867.0	1008.3	902.6	723.5	669.5
652.3	75°	554.7	467.4	462.8	566.2	654.6	770.6	917.6	840.6	679.8	707.4
451.3	77.5°	377.8	330.7	387.0	484.6	547.8	663.8	821.1	746.5	589.1	586.8
312.4	80°	261.8	234.3	314.7	390.5	423.8	558.1	716.6	640.8	480.0	447.9
192.9	82.5°	157.3	152.7	235.4	291.7	299.7	430.6	593.7	537.4	392.7	342.2
114.8	85°	86.1	90.7	150.4	171.1	174.6	300.9	465.1	415.7	302.0	253.8
41.3	87.5°	24.1	31.0	55.1	67.8	83.8	156.2	276.8	246.9	151.6	105.7
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>
2830.8
3038.6
3170.7
3208.6
3187.9
3139.7
3073.1
2960.5
2837.7
2759.6
2695.3
2624.1
2544.8
2428.8
2278.4
2087.8
1870.7
1653.7
1484.9
1372.3
1265.5
1184.0
1076.0
983.0
895.7
826.8
772.9
731.5
700.5
660.3
730.4
540.9
428.3
344.5
256.1
105.7
0.0

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