

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: P941409

Luminaire Tested: **GALN-SB4D-935-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941409
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-935-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28041 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

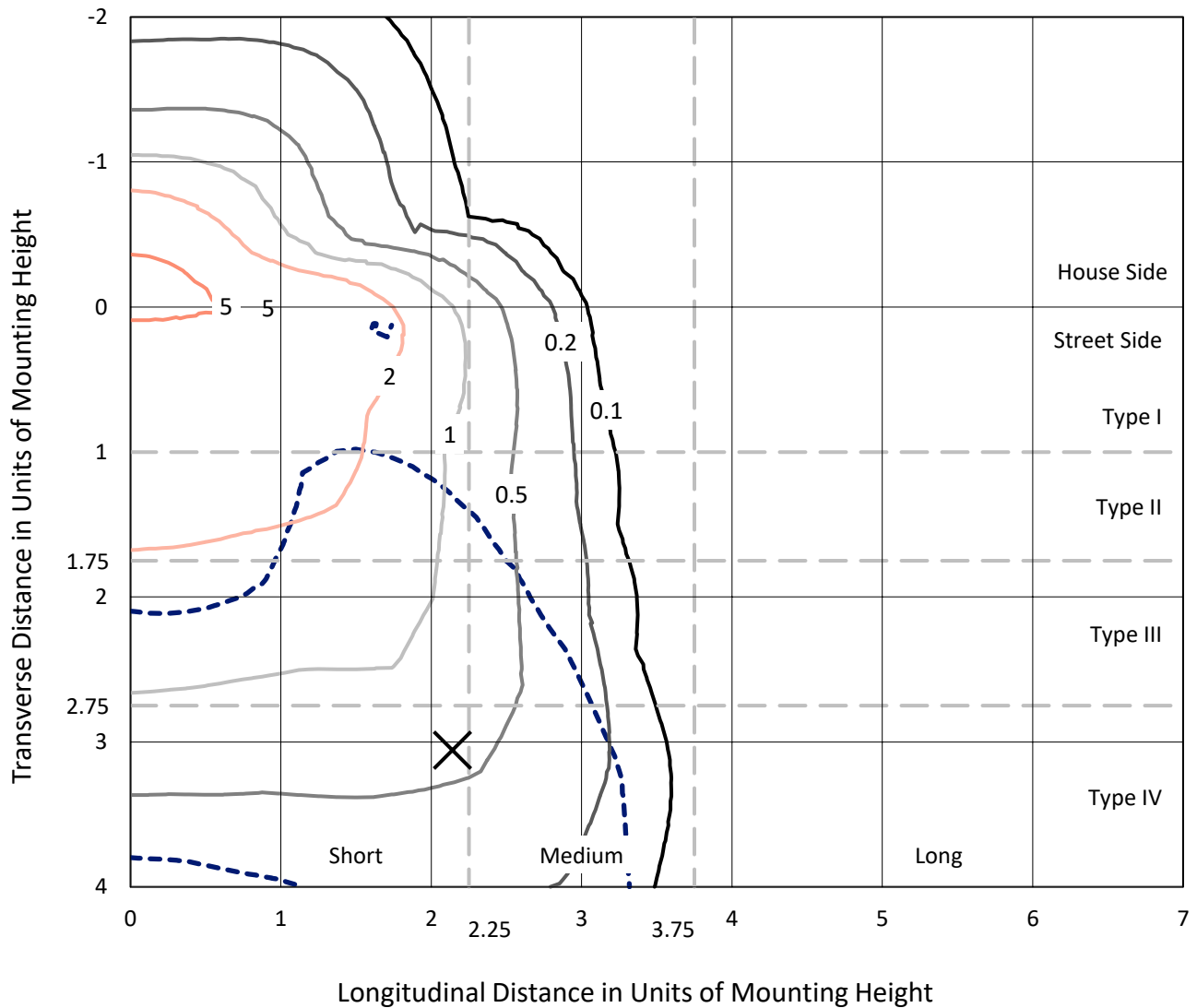
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

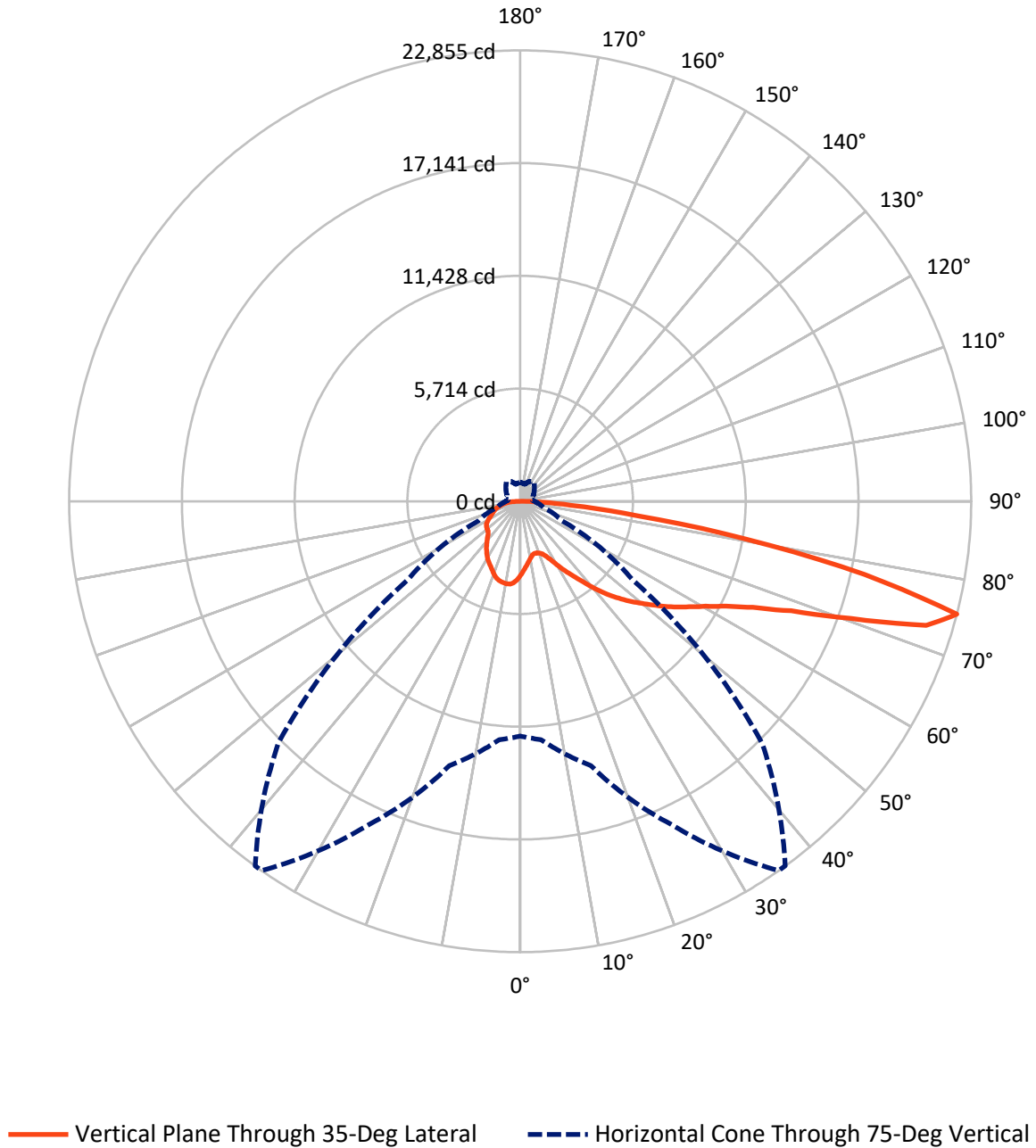
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	6673.1	0.0	6673.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21367.9	0.0	21367.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	28041.0	0.0	28041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.8	1.3
10°-20°	1020.5	3.6
20°-30°	1713.6	6.1
30°-40°	2663.2	9.5
40°-50°	3952.9	14.1
50°-60°	5457.3	19.5
60°-70°	6620.9	23.6
70°-80°	5471.7	19.5
80°-90°	787.0	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°	28041.0	100.0
0°-180°	28041.0	100.0



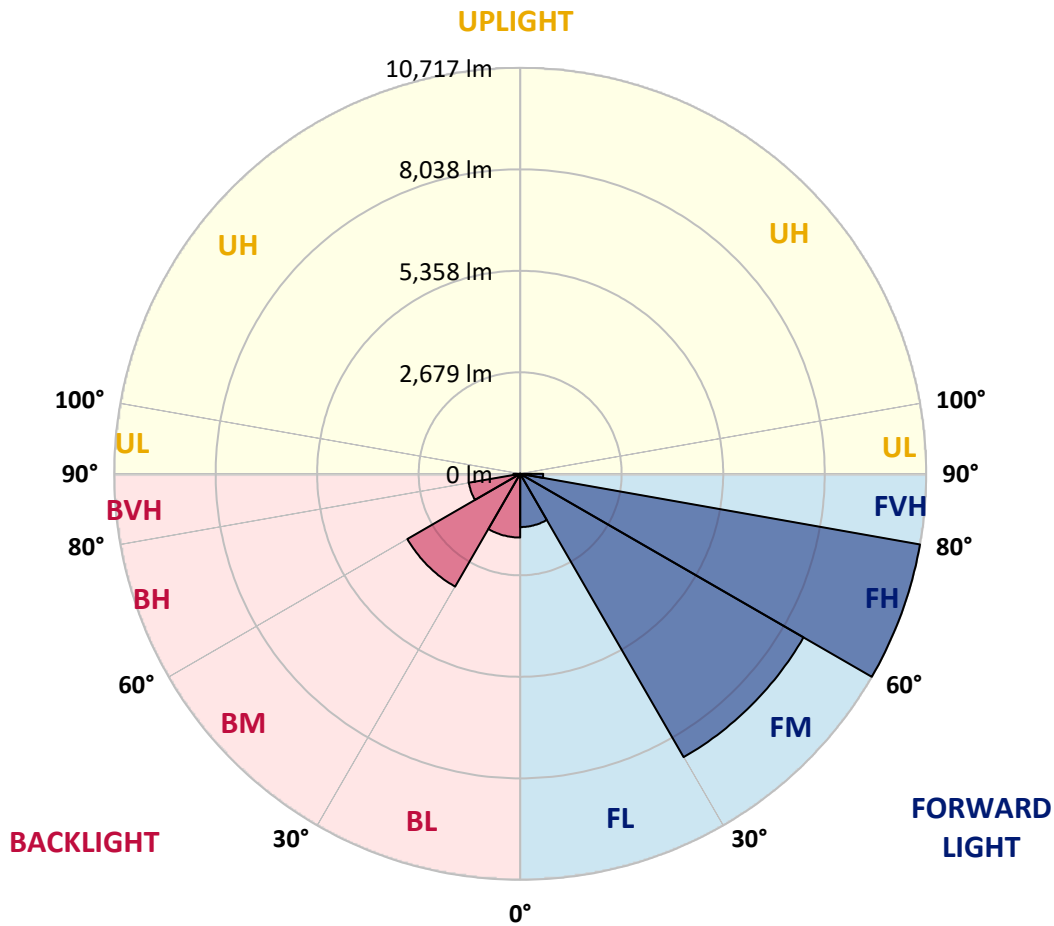
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.2	5.0			
FM (30°-60°)	8635.1	30.8			
FH (60°-80°)	10716.9	38.2			G4/12000
FVH (80°-90°)	609.8	2.2			G4/750
BL (0°-30°)	1681.7	6.0	B3/2500		
BM (30°-60°)	3438.4	12.3	B3/5000		
BH (60°-80°)	1375.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	177.2	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°	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7
2.5°	3445.6	3466.8	3475.9	3471.4	3494.1	3491.1	3522.9	3562.3	3616.9	3670.0
5°	3180.3	3203.1	3222.8	3241.0	3284.9	3298.6	3348.6	3424.4	3524.4	3626.0
7.5°	2933.2	2952.9	2983.3	3016.6	3090.9	3104.5	3187.9	3306.1	3445.6	3594.2
10°	2731.6	2751.3	2783.2	2821.1	2913.5	2930.2	3036.3	3194.0	3375.9	3563.8
12.5°	2645.2	2651.3	2669.5	2707.4	2787.7	2798.3	2915.0	3095.4	3307.7	3541.1
15°	2640.7	2652.8	2654.3	2674.0	2740.7	2745.3	2852.9	3031.8	3265.2	3536.6
17.5°	2686.1	2695.2	2681.6	2693.7	2749.8	2757.4	2842.3	3001.4	3251.6	3556.3
20°	2807.4	2815.0	2774.1	2757.4	2798.3	2804.4	2887.8	3021.2	3265.2	3597.2
22.5°	3065.1	3069.7	2969.6	2901.4	2904.4	2907.5	2980.2	3101.5	3318.3	3671.5
25°	3466.8	3463.8	3304.6	3172.7	3097.0	3080.3	3128.8	3231.9	3407.7	3770.0
27.5°	3936.7	3914.0	3754.8	3557.8	3392.5	3368.3	3357.7	3401.6	3535.0	3900.4
30°	4467.3	4446.1	4274.8	4017.1	3788.2	3748.8	3648.7	3626.0	3724.5	4077.7
32.5°	5049.4	5035.8	4831.1	4518.8	4212.6	4167.2	3998.9	3938.3	4015.6	4346.0
35°	5537.5	5525.4	5355.6	5034.2	4659.8	4603.7	4432.4	4364.2	4403.6	4690.1
37.5°	5978.6	5972.6	5827.1	5573.9	5187.4	5119.1	4926.6	4903.9	4896.3	5143.4
40°	6387.9	6372.8	6221.2	6087.8	5801.3	5739.1	5569.4	5549.6	5492.0	5701.2
42.5°	6841.2	6801.8	6582.0	6519.8	6442.5	6391.0	6289.4	6292.4	6165.1	6330.3
45°	7211.1	7188.3	6962.5	6926.1	7009.4	6988.2	7076.1	7098.9	6851.8	6989.7
47.5°	7608.2	7587.0	7396.0	7370.2	7596.1	7602.2	7912.9	7920.5	7521.8	7674.9
50°	8097.8	8067.5	7878.0	7909.9	8163.0	8185.8	8754.2	8702.7	8138.8	8370.7
52.5°	8420.7	8438.9	8398.0	8449.5	8795.2	8816.4	9581.9	9450.0	8749.7	9057.4
55°	8658.7	8695.1	8822.4	8940.7	9462.1	9483.4	10362.6	10161.0	9256.0	9694.1
57.5°	8964.9	8913.4	9151.4	9381.8	10095.8	10151.9	11122.0	10846.1	9704.7	10242.8
60°	9404.5	9368.2	9553.1	9894.2	10805.2	10894.7	11925.5	11463.1	10033.6	10677.9
62.5°	10295.9	10204.9	10233.7	10535.4	11699.6	11817.8	12832.0	12001.3	10197.3	10847.7
65°	11628.3	11472.2	11326.7	11535.9	12959.3	13076.0	13855.2	12424.2	10136.7	10518.7
67.5°	13306.4	13151.8	12972.9	13170.0	14814.7	14907.2	15117.9	12662.2	9659.2	9251.4
70°	14690.4	14632.8	14846.6	15657.6	17778.3	17781.3	16736.9	12465.1	8351.0	6559.2
72.5°	14507.0	14472.1	15598.4	18105.7	21513.4	21433.1	18269.4	10973.5	5625.4	2959.0
75°	11901.2	12127.1	13871.9	18061.8	22855.0	22844.4	17331.1	6976.1	2326.9	1226.3
77.5°	6381.9	6739.6	9005.9	13335.2	17841.9	18110.3	12184.7	2440.6	999.0	785.2
80°	2081.3	2393.6	3589.6	6789.6	11593.5	11543.5	5222.2	958.0	683.7	556.3
82.5°	883.8	920.1	1603.8	3206.1	5949.8	5857.4	1662.9	550.3	480.5	380.5
85°	345.6	386.6	707.9	1482.5	2577.0	2520.9	600.3	272.9	307.7	248.6
87.5°	113.7	137.9	253.2	507.8	801.9	773.1	147.0	94.0	133.4	113.7
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°
3736.7	0°	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7	3736.7
3747.3	2.5°	3768.5	3792.7	3821.5	3864.0	3900.4	3930.7	3962.5	3982.2	3989.8	4012.5
3753.3	5°	3795.8	3848.8	3920.1	3989.8	4058.0	4098.9	4135.3	4153.5	4170.2	4182.3
3770.0	7.5°	3841.2	3909.5	4021.6	4112.6	4170.2	4203.5	4227.8	4221.7	4227.8	4230.8
3788.2	10°	3880.7	3976.2	4109.6	4196.0	4239.9	4241.4	4235.4	4214.2	4203.5	4205.1
3815.5	12.5°	3927.7	4033.8	4177.8	4250.5	4262.7	4229.3	4203.5	4167.2	4153.5	4147.5
3856.4	15°	3991.3	4112.6	4252.1	4279.3	4249.0	4206.6	4162.6	4103.5	4073.2	4048.9
3926.1	17.5°	4068.6	4202.0	4309.7	4290.0	4224.8	4155.0	4083.8	3994.4	3932.2	3906.4
4021.6	20°	4176.3	4296.0	4353.6	4267.2	4168.7	4062.6	3941.3	3832.2	3774.6	3748.8
4142.9	22.5°	4306.6	4421.8	4396.1	4227.8	4088.3	3918.6	3767.0	3686.6	3657.8	3639.6
4299.0	25°	4462.8	4561.3	4426.4	4170.2	3956.5	3727.6	3610.8	3585.1	3571.4	3557.8
4490.0	27.5°	4665.9	4718.9	4449.1	4085.3	3750.3	3524.4	3482.0	3486.5	3482.0	3459.2
4755.3	30°	4934.2	4923.6	4470.3	3947.4	3513.8	3341.0	3344.0	3363.7	3366.8	3351.6
5125.2	32.5°	5287.4	5179.8	4481.0	3768.5	3288.0	3180.3	3183.4	3204.6	3219.7	3194.0
5608.8	35°	5714.9	5478.4	4464.3	3544.1	3113.6	3027.2	3004.5	3010.5	3015.1	2990.8
6195.4	37.5°	6213.6	5813.4	4390.0	3295.5	2969.6	2877.1	2828.6	2787.7	2763.5	2740.7
6859.4	40°	6760.8	6178.7	4253.6	3053.0	2808.9	2718.0	2645.2	2567.9	2486.0	2455.7
7562.7	42.5°	7333.8	6554.7	4088.3	2821.1	2624.0	2549.7	2472.4	2360.2	2237.4	2175.3
8293.4	45°	7928.1	6939.7	3926.1	2592.2	2434.5	2402.7	2313.2	2178.3	2044.9	1966.1
9025.6	47.5°	8510.2	7303.5	3688.1	2361.7	2257.2	2292.0	2222.3	2098.0	1949.4	1825.1
9751.7	50°	9066.5	7644.6	3298.6	2128.3	2113.1	2258.7	2192.0	2013.1	1843.3	1684.1
10464.1	52.5°	9618.3	7920.5	2799.8	1916.1	2035.8	2249.6	2152.6	1955.5	1747.8	1581.1
11134.2	55°	10086.7	8063.0	2319.3	1734.2	1923.7	2172.3	2105.6	1887.3	1612.9	1435.5
11593.5	57.5°	10353.5	7947.8	1919.1	1555.3	1769.0	2044.9	2025.2	1741.8	1452.2	1315.8
11682.9	60°	10238.3	7480.9	1591.7	1399.2	1622.0	1907.0	1885.8	1597.7	1329.4	1200.6
11203.9	62.5°	9603.1	6591.1	1332.5	1262.7	1488.6	1766.0	1746.3	1487.1	1235.4	1111.1
9932.1	65°	8323.7	5361.7	1130.8	1149.0	1353.7	1596.2	1625.0	1394.6	1161.2	1039.9
7684.0	67.5°	6348.5	3883.7	973.2	1050.5	1221.8	1429.5	1512.9	1327.9	1099.0	983.8
4446.1	70°	3618.4	2205.6	839.8	955.0	1105.1	1274.9	1426.4	1274.9	1032.3	936.8
1666.0	72.5°	1371.9	1012.6	726.1	859.5	992.9	1144.5	1330.9	1191.5	955.0	883.8
861.0	75°	732.2	617.0	610.9	747.3	864.1	1017.2	1211.2	1109.6	897.4	933.8
595.7	77.5°	498.7	436.6	510.9	639.7	723.1	876.2	1083.9	985.3	777.6	774.6
412.3	80°	345.6	309.2	415.4	515.4	559.4	736.7	945.9	845.9	633.6	591.2
254.7	82.5°	207.7	201.6	310.8	385.0	395.6	568.5	783.7	709.4	518.4	451.7
151.6	85°	113.7	119.8	198.6	225.9	230.4	397.2	613.9	548.7	398.7	335.0
54.6	87.5°	31.8	40.9	72.8	89.4	110.7	206.2	365.3	325.9	200.1	139.5
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>
3736.7
4011.0
4185.4
4235.4
4208.1
4144.4
4056.5
3907.9
3745.7
3642.7
3557.8
3463.8
3359.2
3206.1
3007.5
2755.9
2469.4
2182.9
1960.0
1811.5
1670.5
1562.9
1420.4
1297.6
1182.4
1091.4
1020.2
965.6
924.7
871.6
964.1
714.0
565.4
454.8
338.0
139.5
0.0

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