

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: P941648

Luminaire Tested: **GALN-SB5B-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22785 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

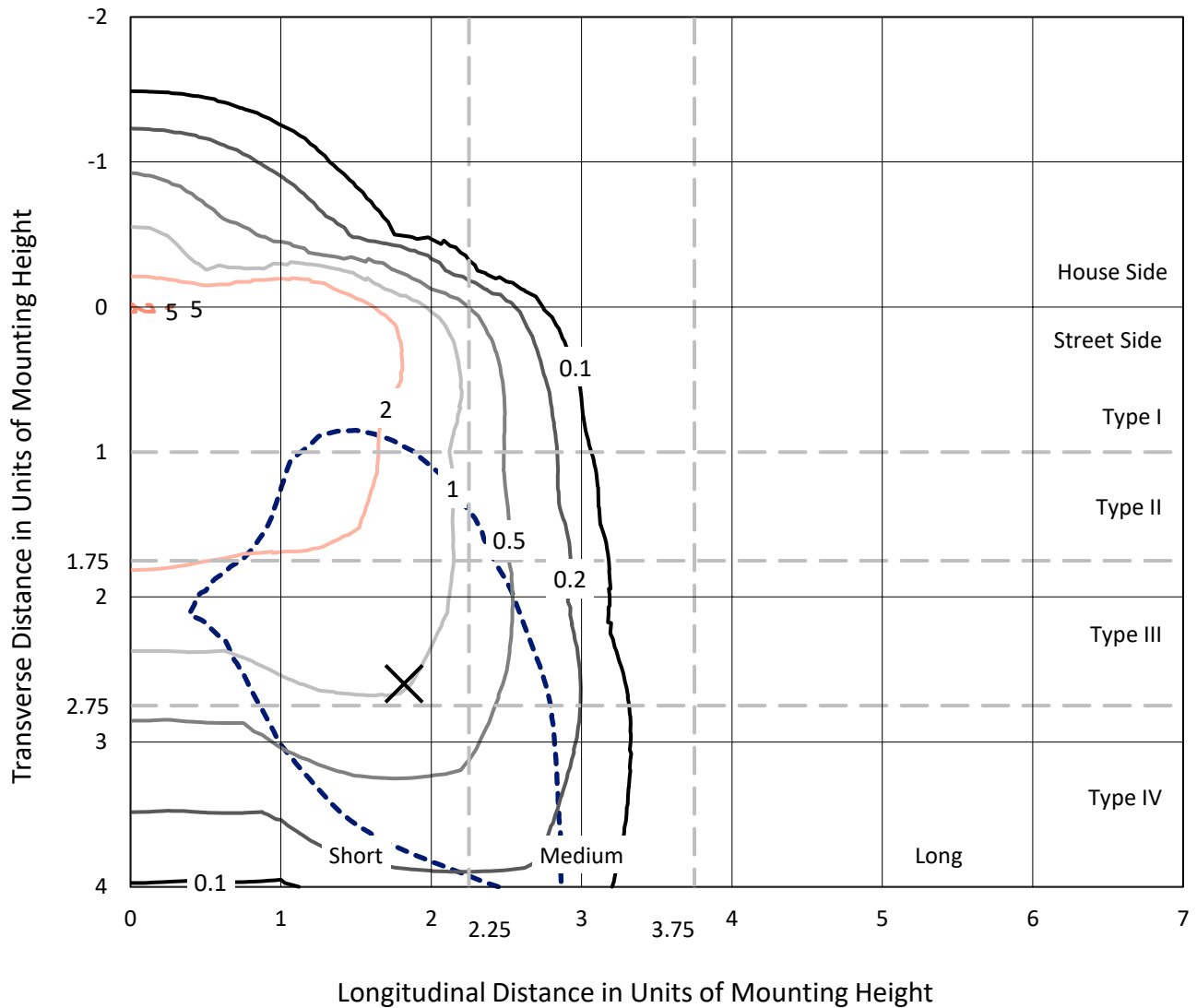
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

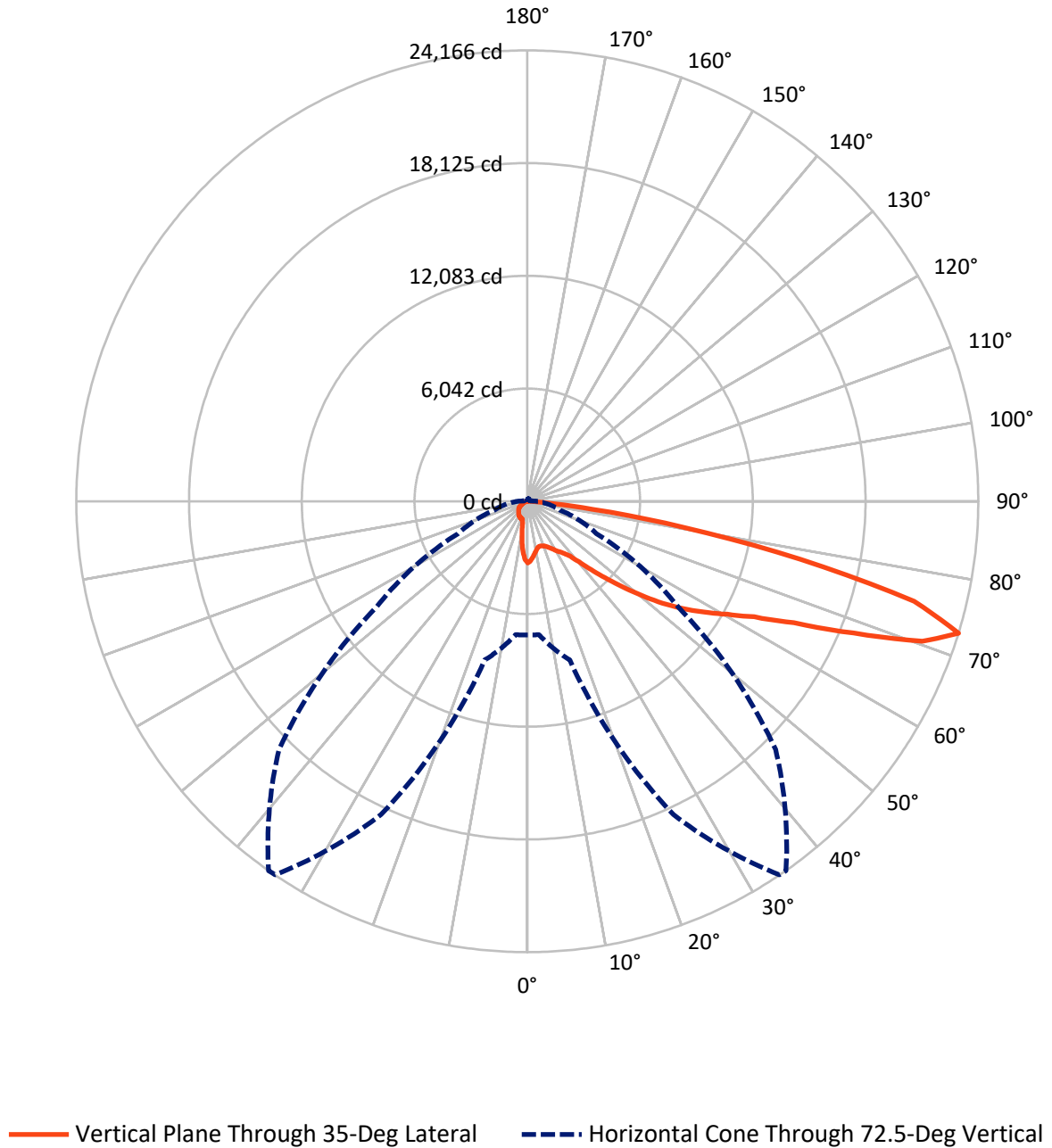
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2564.3	0.0	2564.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20220.6	0.0	20220.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	22785.0	0.0	22785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	1.2
10°-20°	634.8	2.8
20°-30°	1031.2	4.5
30°-40°	1720.6	7.6
40°-50°	3255.5	14.3
50°-60°	5172.9	22.7
60°-70°	6399.3	28.1
70°-80°	3977.8	17.5
80°-90°	321.5	1.4
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°	22785.0	100.0
0°-180°	22785.0	100.0



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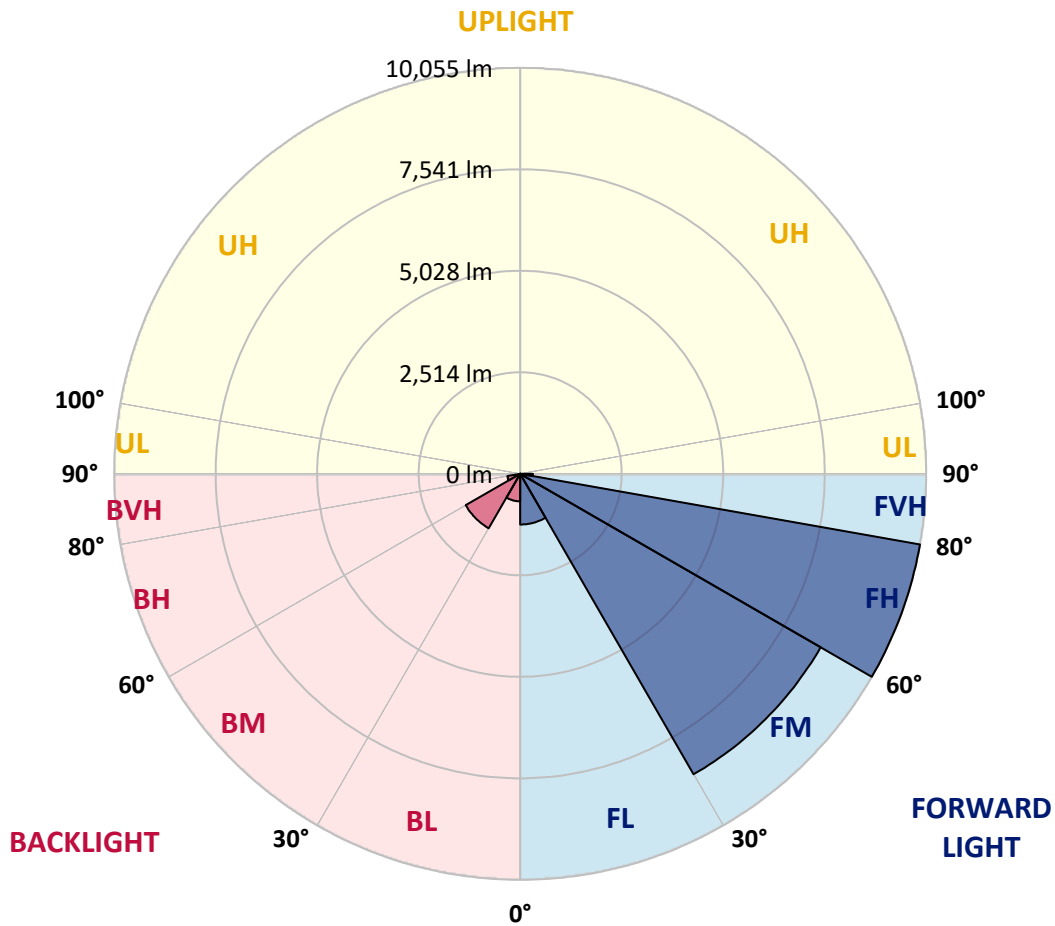
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1256.0	5.5			
FM (30°-60°)	8592.2	37.7			
FH (60°-80°)	10055.3	44.1			G4/12000
FVH (80°-90°)	317.1	1.4			G3/500
BL (0°-30°)	681.4	3.0	B2/1000		
BM (30°-60°)	1556.8	6.8	B2/2500		
BH (60°-80°)	321.8	1.4	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3
2.5°	3155.4	3182.1	3187.1	3195.5	3195.5	3205.5	3222.2	3245.5	3283.9	3304.0
5°	2908.3	2928.3	2953.4	2973.4	3011.8	3016.8	3081.9	3145.4	3233.9	3300.6
7.5°	2659.5	2682.9	2716.3	2764.7	2814.8	2829.8	2928.3	3035.2	3175.4	3300.6
10°	2484.2	2485.9	2516.0	2564.4	2644.5	2662.9	2783.1	2935.0	3110.3	3280.6
12.5°	2385.7	2397.4	2410.8	2447.5	2524.3	2536.0	2664.6	2843.2	3045.2	3268.9
15°	2385.7	2394.1	2402.4	2420.8	2482.6	2492.6	2606.1	2784.8	3011.8	3273.9
17.5°	2410.8	2424.1	2417.5	2439.2	2504.3	2511.0	2611.1	2768.1	3010.1	3305.6
20°	2470.9	2480.9	2467.6	2480.9	2546.0	2559.4	2662.9	2799.8	3038.5	3360.7
22.5°	2566.1	2571.1	2539.3	2549.4	2616.1	2632.8	2753.0	2889.9	3107.0	3449.2
25°	2686.3	2696.3	2647.9	2659.5	2723.0	2743.0	2881.6	3025.2	3215.5	3571.1
27.5°	2824.8	2829.8	2788.1	2786.4	2868.2	2896.6	3036.9	3192.1	3360.7	3724.7
30°	2983.4	2998.5	2958.4	2951.7	3055.2	3078.6	3217.2	3397.5	3574.4	3955.1
32.5°	3108.6	3120.3	3097.0	3113.7	3218.8	3237.2	3435.9	3688.0	3910.0	4282.3
35°	3289.0	3295.6	3242.2	3272.3	3392.5	3439.2	3734.7	4095.3	4332.4	4693.0
37.5°	3941.7	3941.7	3714.7	3566.1	3681.3	3723.0	4143.7	4607.9	4853.3	5244.0
40°	4844.9	4829.9	4497.7	4193.8	4178.8	4260.6	4726.4	5254.0	5526.1	5905.1
42.5°	5808.3	5784.9	5332.4	5031.9	4981.8	5010.2	5399.2	6050.3	6327.5	6711.5
45°	6663.1	6656.4	6242.3	5838.3	5748.2	5838.3	6239.0	6981.9	7180.6	7584.6
47.5°	7379.3	7379.3	7077.1	6813.3	6766.6	6820.0	7375.9	8015.4	7997.0	8514.6
50°	8204.0	8197.3	7910.2	7796.7	7845.1	7920.2	8684.8	9103.9	8841.8	9427.8
52.5°	8781.7	8821.7	8723.2	8704.9	8952.0	9082.2	10013.8	10169.0	9598.1	10294.3
55°	9239.1	9285.9	9399.4	9528.0	10003.8	10174.1	11301.0	11179.1	10230.8	11045.5
57.5°	9886.9	9820.1	9995.4	10249.2	11018.8	11224.2	12548.1	12132.4	10740.0	11654.9
60°	10673.2	10683.3	10713.3	11033.9	12032.2	12296.0	13776.9	13033.9	11067.2	12028.9
62.5°	11618.2	11633.2	11695.0	12187.5	13392.9	13641.6	15085.8	13771.9	11217.5	11923.7
65°	11553.1	11616.5	12306.0	13990.6	15461.4	15706.8	16613.4	14289.4	10990.4	10962.1
67.5°	10524.7	10628.2	11781.8	16144.3	18580.1	18853.9	18459.9	14391.3	10010.4	8524.6
70°	9175.7	9212.4	10599.8	18080.9	22191.3	22468.4	20112.7	13271.0	7596.3	4754.8
72.5°	7165.6	7173.9	8801.7	18530.0	24151.3	24166.3	18815.5	9851.8	4085.3	1826.5
75°	5118.7	5068.7	5895.1	15027.3	21248.0	21418.3	14105.8	4621.2	1561.0	863.1
77.5°	2744.7	2799.8	3335.7	8911.9	14678.4	14968.9	7696.5	1332.3	794.7	587.7
80°	848.1	894.9	1367.3	4080.3	8314.2	8489.5	2853.2	592.7	554.3	419.0
82.5°	267.1	277.1	637.8	1714.6	3450.9	3531.0	826.4	335.6	379.0	277.1
85°	76.8	78.5	283.8	639.4	853.1	869.8	232.1	130.2	217.0	172.0
87.5°	8.3	26.7	106.8	106.8	75.1	73.5	25.0	28.4	61.8	21.7
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°
3302.3	0°	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3	3302.3
3317.3	2.5°	3309.0	3310.7	3289.0	3252.2	3212.2	3178.8	3137.0	3103.6	3080.3	3073.6
3347.4	5°	3332.4	3320.7	3258.9	3147.0	3013.5	2898.3	2769.7	2667.9	2601.1	2572.7
3379.1	7.5°	3367.4	3334.0	3198.8	2978.4	2723.0	2495.9	2265.5	2086.9	1973.4	1916.6
3409.2	10°	3397.5	3330.7	3098.6	2734.7	2344.0	2000.1	1689.6	1474.2	1354.0	1297.2
3444.2	12.5°	3425.9	3329.0	2968.4	2445.8	1916.6	1495.9	1207.1	1100.2	1066.8	1055.1
3501.0	15°	3479.3	3334.0	2804.8	2115.3	1490.9	1130.3	1025.1	1023.4	1030.1	1026.8
3587.8	17.5°	3552.7	3339.0	2619.5	1764.7	1150.3	996.7	991.7	1006.7	1016.7	1011.7
3696.3	20°	3647.9	3359.1	2422.5	1417.4	988.4	963.3	975.0	988.4	996.7	988.4
3841.6	22.5°	3781.5	3394.1	2207.1	1138.6	936.6	943.3	953.3	968.3	976.7	965.0
4026.9	25°	3945.1	3449.2	1995.1	990.0	911.6	919.9	934.9	951.6	961.6	950.0
4260.6	27.5°	4157.1	3537.7	1799.7	956.6	886.5	891.5	913.2	938.3	951.6	936.6
4592.8	30°	4464.3	3683.0	1631.1	971.7	871.5	859.8	889.9	924.9	939.9	926.6
5045.3	32.5°	4871.7	3888.3	1527.6	995.0	864.8	823.1	851.5	896.5	921.6	913.2
5636.3	35°	5405.9	4200.5	1487.5	1021.7	859.8	784.7	804.7	853.1	896.5	904.9
6380.9	37.5°	6053.7	4634.6	1499.2	1033.4	844.8	753.0	763.0	804.7	861.5	888.2
7219.0	40°	6789.9	5140.5	1566.0	1021.7	828.1	726.2	727.9	759.6	809.7	849.8
8120.5	42.5°	7549.6	5731.5	1689.6	978.3	813.1	702.9	697.9	719.6	753.0	781.3
9020.4	45°	8272.5	6339.2	1811.4	918.2	794.7	679.5	667.8	676.2	682.8	694.5
9896.9	47.5°	8903.5	6766.6	1776.4	863.1	769.6	652.8	632.7	629.4	609.4	607.7
10679.9	50°	9339.3	6860.1	1577.7	808.0	732.9	622.7	591.0	571.0	535.9	519.2
11265.9	52.5°	9477.9	6491.1	1288.9	753.0	672.8	582.7	537.6	505.9	462.5	447.4
11603.2	55°	9294.2	5768.2	1030.1	686.2	589.3	529.2	479.2	437.4	402.4	384.0
11639.9	57.5°	8845.1	4848.3	814.7	607.7	500.9	469.1	419.0	377.3	347.3	328.9
11232.5	60°	8100.5	3849.9	644.4	514.2	427.4	404.0	352.3	325.6	298.8	277.1
10180.7	62.5°	6970.2	2748.0	505.9	407.4	357.3	330.6	300.5	280.5	248.8	218.7
8289.2	65°	5439.3	1681.2	390.7	298.8	287.2	273.8	255.4	237.1	198.7	168.6
5407.6	67.5°	3430.9	796.4	278.8	225.4	227.1	220.4	212.0	197.0	168.6	141.9
2422.5	70°	1510.9	385.7	183.6	172.0	168.6	168.6	175.3	170.3	143.6	118.5
841.4	72.5°	514.2	207.0	136.9	130.2	121.9	120.2	146.9	141.9	115.2	91.8
419.0	75°	268.8	138.6	100.2	93.5	73.5	88.5	116.9	110.2	81.8	60.1
277.1	77.5°	175.3	98.5	68.5	60.1	41.7	58.4	86.8	76.8	48.4	30.1
182.0	80°	110.2	65.1	40.1	28.4	20.0	31.7	46.7	33.4	18.4	6.7
106.8	82.5°	58.4	33.4	15.0	10.0	8.3	10.0	11.7	8.3	3.3	0.0
55.1	85°	23.4	11.7	5.0	3.3	1.7	0.0	3.3	1.7	0.0	0.0
10.0	87.5°	8.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3302.3
3085.3
2582.7
1925.0
1298.9
1051.8
1025.1
1010.1
986.7
963.3
948.3
936.6
924.9
913.2
904.9
894.9
863.1
793.0
701.2
606.0
520.9
445.8
384.0
325.6
272.1
213.7
163.6
138.6
113.5
86.8
55.1
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