

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: P943808

Luminaire Tested: **GALN-SB8B-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943808
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-SB8B-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 23983 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

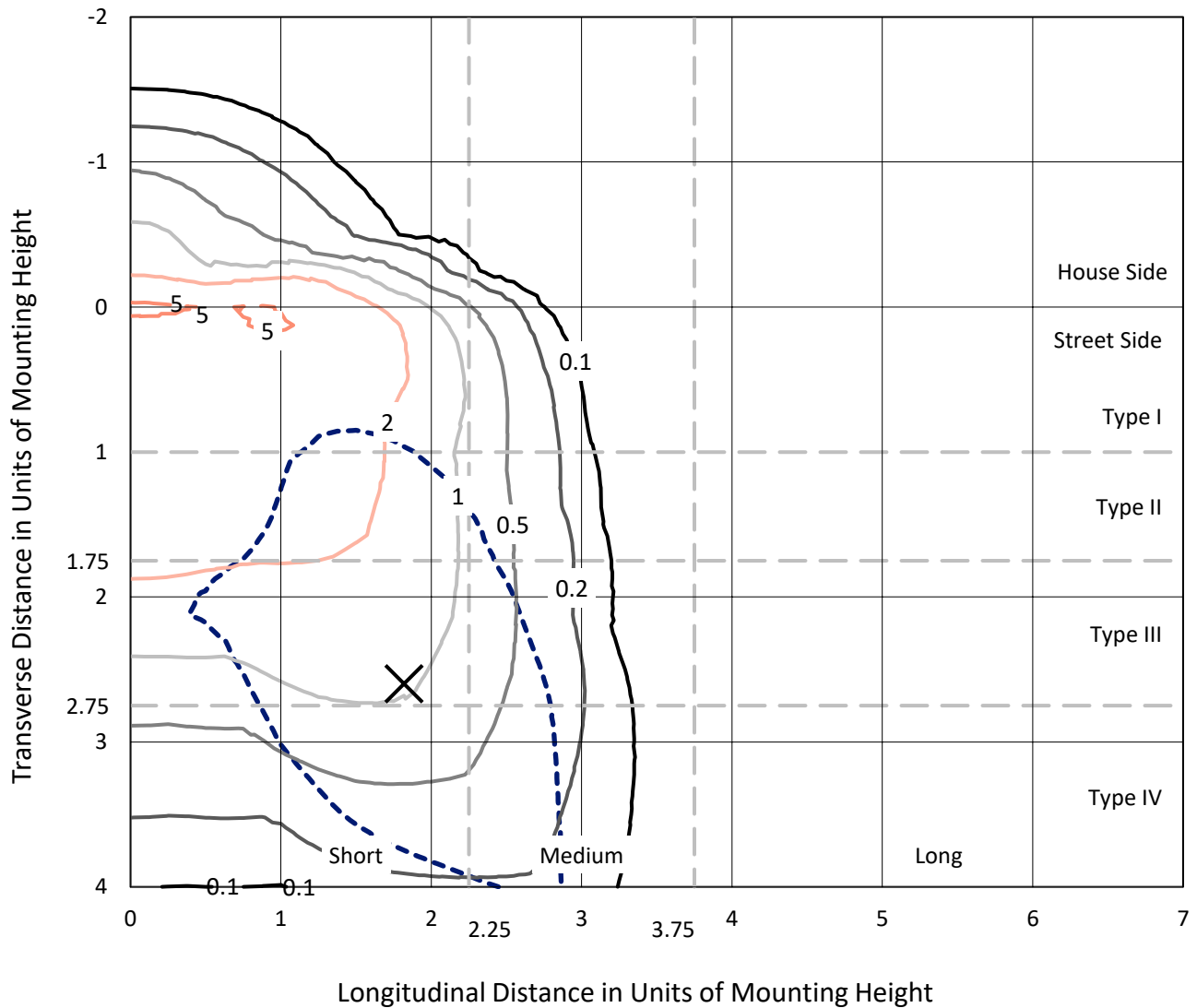
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

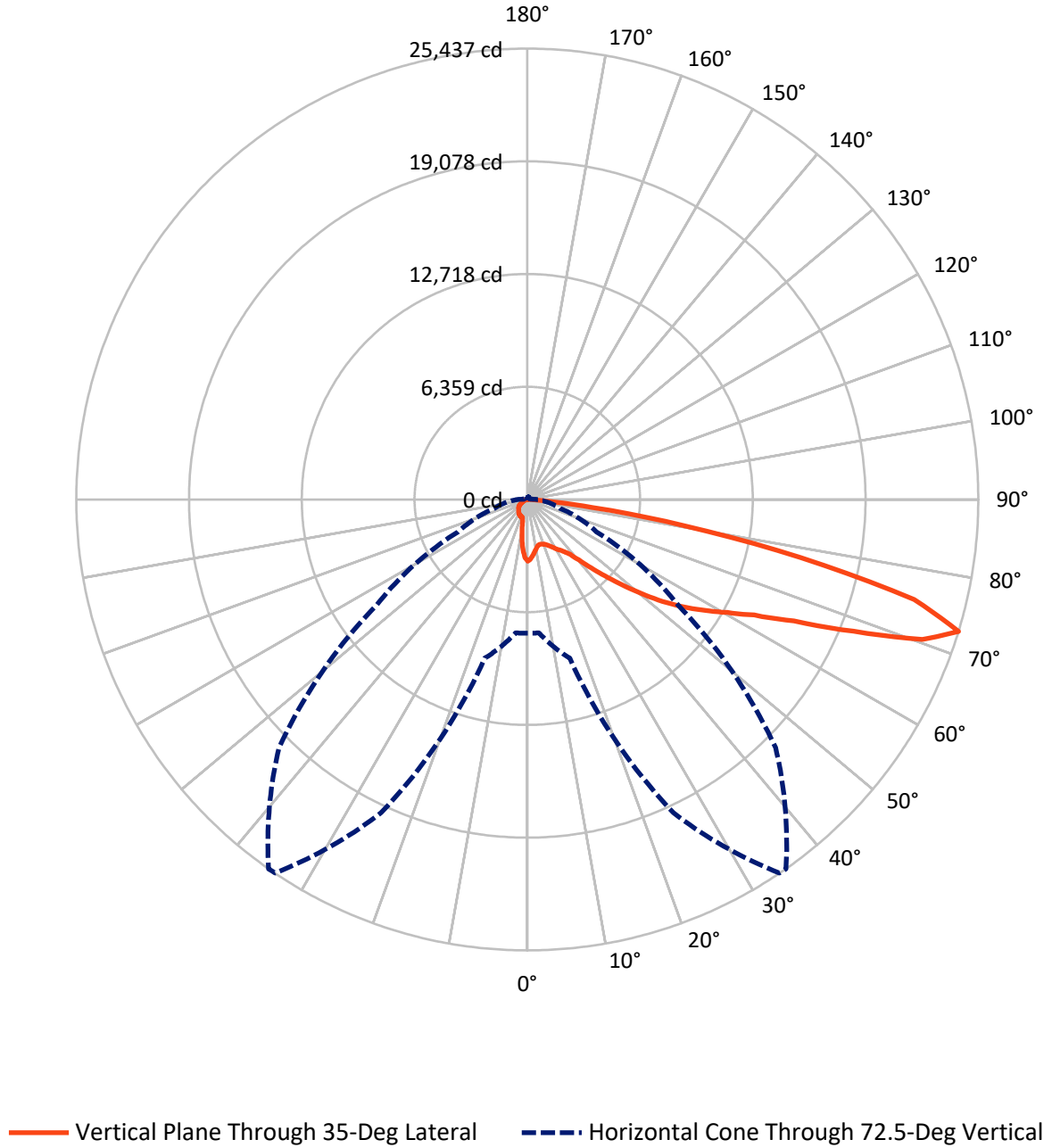
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2699.2	0.0	2699.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	21283.8	0.0	21283.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	23983.0	0.0	23983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.2
10°-20°	668.2	2.8
20°-30°	1085.5	4.5
30°-40°	1811.1	7.6
40°-50°	3426.6	14.3
50°-60°	5444.9	22.7
60°-70°	6735.7	28.1
70°-80°	4187.0	17.5
80°-90°	338.4	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°	23983.0	100.0
0°-180°	23983.0	100.0

Coefficient of Utilization



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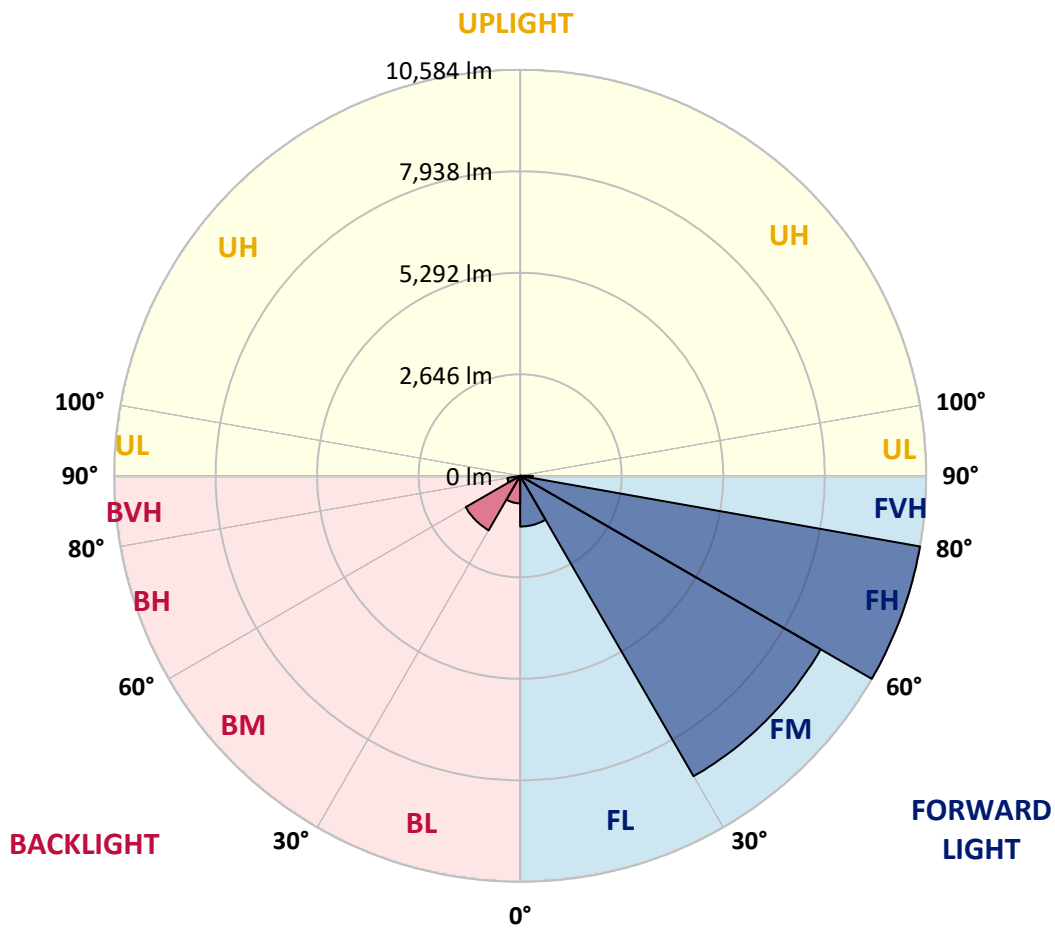
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.1	5.5			
FM (30°-60°)	9044.0	37.7			
FH (60°-80°)	10584.0	44.1			G4/12000
FVH (80°-90°)	333.8	1.4			G3/500
BL (0°-30°)	717.2	3.0	B2/1000		
BM (30°-60°)	1638.6	6.8	B2/2500		
BH (60°-80°)	338.7	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	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°	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9
2.5°	3321.3	3349.4	3354.7	3363.5	3363.5	3374.0	3391.6	3416.2	3456.6	3477.7
5°	3061.2	3082.3	3108.7	3129.8	3170.2	3175.4	3244.0	3310.8	3403.9	3474.2
7.5°	2799.4	2824.0	2859.1	2910.1	2962.8	2978.6	3082.3	3194.8	3342.4	3474.2
10°	2614.9	2616.6	2648.3	2699.2	2783.6	2802.9	2929.4	3089.3	3273.9	3453.1
12.5°	2511.2	2523.5	2537.5	2576.2	2657.0	2669.3	2804.7	2992.7	3205.3	3440.8
15°	2511.2	2520.0	2528.8	2548.1	2613.1	2623.6	2743.1	2931.2	3170.2	3446.1
17.5°	2537.5	2551.6	2544.6	2567.4	2636.0	2643.0	2748.4	2913.6	3168.4	3479.5
20°	2600.8	2611.3	2597.3	2611.3	2679.9	2693.9	2802.9	2947.0	3198.3	3537.4
22.5°	2701.0	2706.2	2672.9	2683.4	2753.7	2771.3	2897.8	3041.9	3270.3	3630.6
25°	2827.5	2838.0	2787.1	2799.4	2866.2	2887.2	3033.1	3184.2	3384.6	3758.9
27.5°	2973.4	2978.6	2934.7	2932.9	3019.0	3048.9	3196.5	3360.0	3537.4	3920.5
30°	3140.3	3156.1	3113.9	3106.9	3215.9	3240.5	3386.3	3576.1	3762.4	4163.0
32.5°	3272.1	3284.4	3259.8	3277.4	3388.1	3407.4	3616.5	3881.9	4115.6	4507.5
35°	3461.9	3468.9	3412.7	3444.3	3570.8	3620.0	3931.1	4310.7	4560.2	4939.8
37.5°	4149.0	4149.0	3910.0	3753.6	3874.8	3918.8	4361.6	4850.1	5108.5	5519.7
40°	5099.7	5083.9	4734.2	4414.3	4398.5	4484.6	4974.9	5530.2	5816.7	6215.6
42.5°	6113.6	6089.0	5612.8	5296.5	5243.8	5273.7	5683.1	6368.5	6660.2	7064.3
45°	7013.4	7006.4	6570.5	6145.3	6050.4	6145.3	6567.0	7349.0	7558.2	7983.4
47.5°	7767.3	7767.3	7449.2	7171.5	7122.3	7178.6	7763.8	8436.8	8417.5	8962.2
50°	8635.4	8628.3	8326.1	8206.6	8257.6	8336.6	9141.5	9582.6	9306.7	9923.5
52.5°	9243.4	9285.6	9181.9	9162.6	9422.6	9559.7	10540.3	10703.7	10102.7	10835.5
55°	9724.9	9774.1	9893.6	10028.9	10529.7	10709.0	11895.2	11766.9	10768.7	11626.3
57.5°	10406.7	10336.4	10521.0	10788.1	11598.2	11814.3	13207.9	12770.3	11304.7	12267.7
60°	11234.4	11245.0	11276.6	11614.0	12664.9	12942.5	14501.2	13719.2	11649.1	12661.4
62.5°	12229.1	12244.9	12309.9	12828.3	14097.1	14358.9	15879.0	14496.0	11807.3	12550.6
65°	12160.5	12227.3	12953.1	14726.2	16274.4	16532.7	17486.9	15040.7	11568.3	11538.4
67.5°	11078.0	11187.0	12401.3	16993.1	19557.0	19845.2	19430.5	15147.9	10536.8	8972.8
70°	9658.1	9696.8	11157.1	19031.6	23358.0	23649.8	21170.2	13968.8	7995.7	5004.8
72.5°	7542.3	7551.1	9264.5	19504.3	25421.1	25436.9	19804.8	10369.8	4300.1	1922.5
75°	5387.9	5335.2	6205.0	15817.5	22365.2	22544.4	14847.4	4864.2	1643.1	908.5
77.5°	2889.0	2947.0	3511.1	9380.5	15450.2	15756.0	8101.2	1402.3	836.5	618.6
80°	892.7	941.9	1439.2	4294.8	8751.4	8935.9	3003.2	623.8	583.4	441.1
82.5°	281.2	291.7	671.3	1804.7	3632.3	3716.7	869.9	353.2	398.9	291.7
85°	80.8	82.6	298.7	673.0	898.0	915.6	244.3	137.1	228.4	181.0
87.5°	8.8	28.1	112.5	112.5	79.1	77.3	26.4	29.9	65.0	22.8
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°
3475.9	0°	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9	3475.9
3491.8	2.5°	3483.0	3484.7	3461.9	3423.2	3381.0	3345.9	3302.0	3266.8	3242.2	3235.2
3523.4	5°	3507.6	3495.3	3430.3	3312.5	3171.9	3050.7	2915.4	2808.2	2737.9	2708.0
3556.8	7.5°	3544.5	3509.3	3367.0	3135.0	2866.2	2627.2	2384.7	2196.6	2077.1	2017.4
3588.4	10°	3576.1	3505.8	3261.6	2878.5	2467.3	2105.2	1778.4	1551.7	1425.2	1365.4
3625.3	12.5°	3606.0	3504.1	3124.5	2574.4	2017.4	1574.5	1270.5	1158.1	1122.9	1110.6
3685.1	15°	3662.2	3509.3	2952.3	2226.5	1569.3	1189.7	1079.0	1077.2	1084.3	1080.7
3776.4	17.5°	3739.5	3514.6	2757.2	1857.5	1210.8	1049.1	1043.8	1059.7	1070.2	1064.9
3890.7	20°	3839.7	3535.7	2549.8	1491.9	1040.3	1014.0	1026.3	1040.3	1049.1	1040.3
4043.5	22.5°	3980.3	3572.6	2323.2	1198.5	985.8	992.9	1003.4	1019.2	1028.0	1015.7
4238.6	25°	4152.5	3630.6	2100.0	1042.1	959.5	968.3	984.1	1001.7	1012.2	999.9
4484.6	27.5°	4375.7	3723.7	1894.4	1006.9	933.1	938.4	961.2	987.6	1001.7	985.8
4834.3	30°	4699.0	3876.6	1716.9	1022.7	917.3	905.0	936.6	973.5	989.4	975.3
5310.6	32.5°	5127.8	4092.8	1607.9	1047.4	910.3	866.3	896.2	943.7	970.0	961.2
5932.6	35°	5690.1	4421.4	1565.8	1075.5	905.0	825.9	847.0	898.0	943.7	952.5
6716.4	37.5°	6372.0	4878.3	1578.1	1087.8	889.2	792.5	803.1	847.0	906.8	934.9
7598.6	40°	7146.9	5410.7	1648.3	1075.5	871.6	764.4	766.2	799.6	852.3	894.5
8547.5	42.5°	7946.5	6032.8	1778.4	1029.8	855.8	739.8	734.6	757.4	792.5	822.4
9494.7	45°	8707.4	6672.5	1906.7	966.5	836.5	715.2	702.9	711.7	718.7	731.0
10417.3	47.5°	9371.7	7122.3	1869.8	908.5	810.1	687.1	666.0	662.5	641.4	639.7
11241.5	50°	9830.3	7220.7	1660.6	850.5	771.5	655.5	622.1	601.0	564.1	546.5
11858.3	52.5°	9976.2	6832.4	1356.6	792.5	708.2	613.3	565.9	532.5	486.8	471.0
12213.2	55°	9782.9	6071.5	1084.3	722.3	620.3	557.1	504.3	460.4	423.5	404.2
12251.9	57.5°	9310.2	5103.2	857.6	639.7	527.2	493.8	441.1	397.1	365.5	346.2
11823.1	60°	8526.4	4052.3	678.3	541.2	449.9	425.3	370.8	342.7	314.6	291.7
10716.0	62.5°	7336.7	2892.5	532.5	428.8	376.1	347.9	316.3	295.2	261.8	230.2
8725.0	65°	5725.3	1769.6	411.2	314.6	302.3	288.2	268.9	249.5	209.1	177.5
5691.9	67.5°	3611.3	838.2	293.5	237.2	239.0	232.0	223.2	207.4	177.5	149.4
2549.8	70°	1590.4	405.9	193.3	181.0	177.5	177.5	184.5	179.2	151.1	124.8
885.7	72.5°	541.2	217.9	144.1	137.1	128.3	126.5	154.6	149.4	121.3	96.7
441.1	75°	282.9	145.9	105.4	98.4	77.3	93.1	123.0	116.0	86.1	63.3
291.7	77.5°	184.5	103.7	72.0	63.3	43.9	61.5	91.4	80.8	51.0	31.6
191.5	80°	116.0	68.5	42.2	29.9	21.1	33.4	49.2	35.1	19.3	7.0
112.5	82.5°	61.5	35.1	15.8	10.5	8.8	10.5	12.3	8.8	3.5	0.0
58.0	85°	24.6	12.3	5.3	3.5	1.8	0.0	3.5	1.8	0.0	0.0
10.5	87.5°	8.8	1.8	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>
3475.9
3247.5
2718.5
2026.2
1367.2
1107.1
1079.0
1063.2
1038.6
1014.0
998.1
985.8
973.5
961.2
952.5
941.9
908.5
834.7
738.1
637.9
548.3
469.2
404.2
342.7
286.4
224.9
172.2
145.9
119.5
91.4
58.0
28.1
5.3
0.0
0.0
0.0
0.0

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