

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: P951083

Luminaire Tested: **GALN-SB5B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25902 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

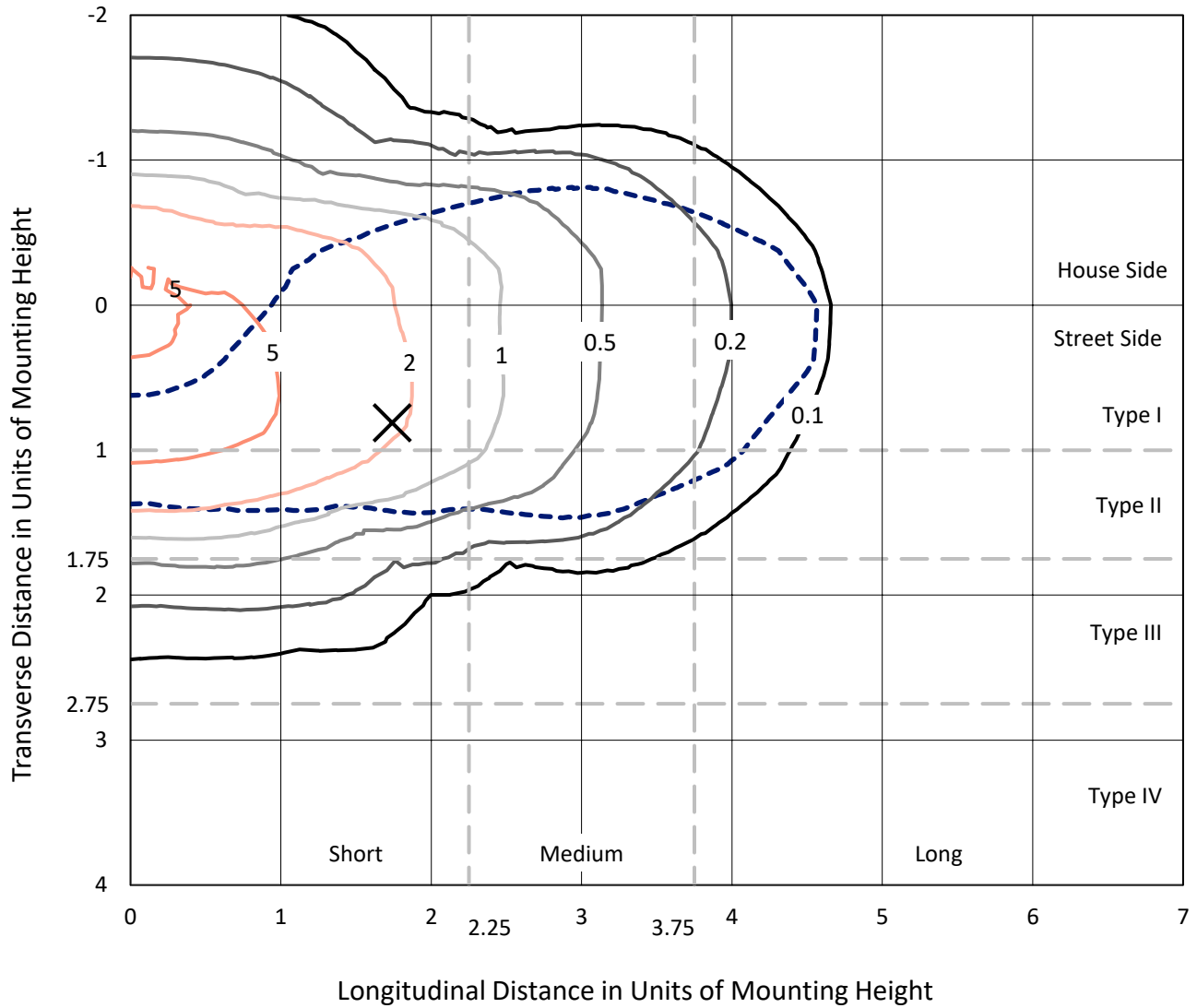
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

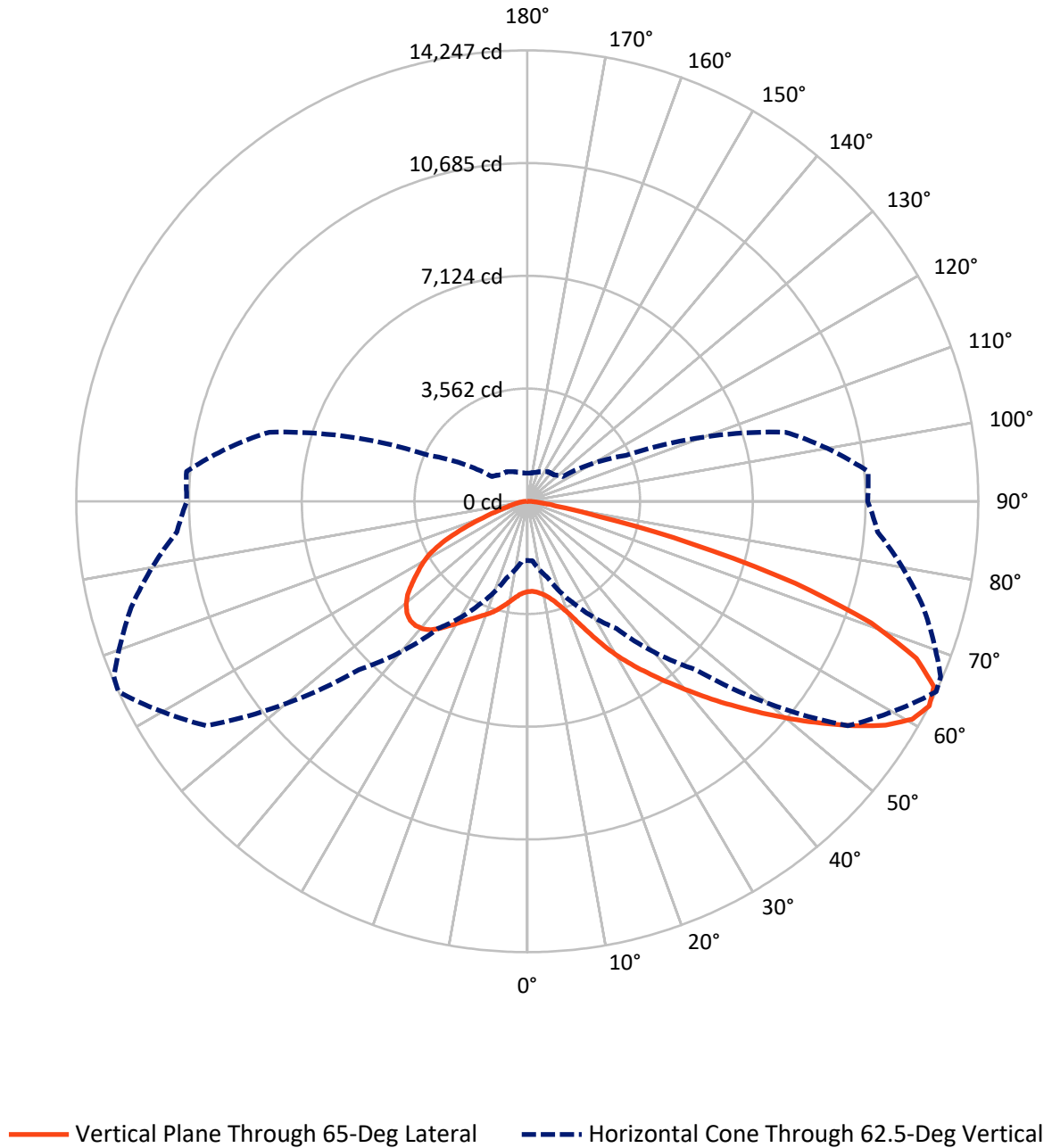
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8173.5	0.0	8173.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	17728.5	0.0	17728.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	25902.0	0.0	25902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.1
10°-20°	965.0	3.7
20°-30°	1956.6	7.6
30°-40°	3385.9	13.1
40°-50°	5124.0	19.8
50°-60°	6007.5	23.2
60°-70°	5036.6	19.4
70°-80°	2780.6	10.7
80°-90°	361.2	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°	25902.0	100.0
0°-180°	25902.0	100.0

Coefficient of Utilization

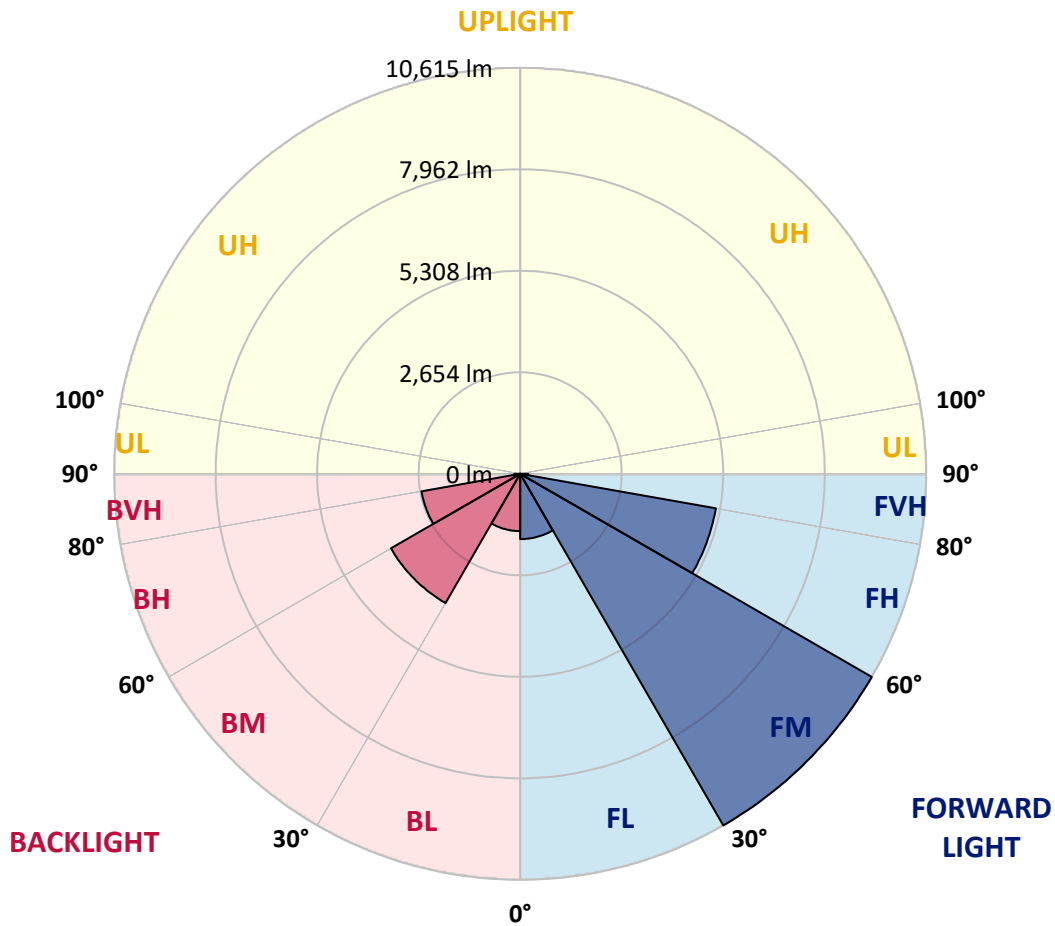


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.3	6.6			
FM (30°-60°)	10615.5	41.0			
FH (60°-80°)	5195.2	20.1			G3/7500
FVH (80°-90°)	210.5	0.8			G2/225
BL (0°-30°)	1498.9	5.8	B3/2500		
BM (30°-60°)	3901.9	15.1	B3/5000		
BH (60°-80°)	2622.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	150.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2.5°	2835.5	2827.4	2834.1	2834.1	2836.8	2835.5	2844.9	2847.6	2851.6	2859.7
5°	2807.3	2805.9	2818.0	2828.8	2839.5	2848.9	2861.0	2878.5	2881.2	2890.6
7.5°	2797.8	2789.8	2808.6	2822.0	2847.6	2870.4	2902.7	2932.2	2944.3	2948.4
10°	2870.4	2857.0	2874.4	2882.5	2904.0	2926.9	2964.5	3011.5	3025.0	3041.1
12.5°	2994.0	2979.3	3004.8	3016.9	3037.0	3057.2	3082.7	3128.4	3135.1	3164.7
15°	3163.4	3145.9	3162.0	3176.8	3210.4	3229.2	3254.7	3299.1	3299.1	3321.9
17.5°	3393.2	3370.3	3382.4	3387.8	3409.3	3437.5	3480.5	3519.5	3539.6	3531.6
20°	3735.8	3707.6	3707.6	3680.7	3672.7	3695.5	3752.0	3805.7	3827.2	3785.6
22.5°	4250.5	4210.2	4187.4	4096.0	4059.7	4062.4	4118.8	4184.7	4202.1	4128.2
25°	4905.0	4841.8	4810.9	4676.5	4594.5	4523.3	4567.7	4652.3	4676.5	4585.1
27.5°	5559.4	5563.4	5533.9	5372.6	5236.9	5106.5	5083.7	5172.4	5197.9	5094.4
30°	6477.2	6381.8	6325.4	6131.9	5938.4	5755.6	5661.5	5697.8	5704.5	5580.9
32.5°	7268.8	7244.6	7123.6	6954.3	6705.7	6419.5	6262.2	6204.4	6193.7	6017.7
35°	8170.5	8157.0	8029.4	7827.8	7559.0	7161.3	6877.7	6712.4	6699.0	6451.7
37.5°	9087.0	9087.0	8962.0	8741.6	8463.4	7966.2	7534.8	7272.8	7229.8	6907.3
40°	9818.0	9773.7	9796.5	9703.8	9385.3	8857.2	8264.5	7884.2	7826.4	7439.4
42.5°	10233.2	10218.5	10355.5	10459.0	10328.7	9906.7	9068.1	8546.7	8466.1	8025.3
45°	10326.0	10309.8	10554.4	10933.4	11116.1	10942.8	9941.6	9244.2	9146.1	8638.1
47.5°	10112.3	10080.0	10438.8	11036.8	11622.8	11927.8	10887.7	10000.8	9858.3	9234.8
50°	9469.9	9439.0	9981.9	10776.1	11793.4	12597.0	11914.4	10803.0	10585.3	9874.4
52.5°	8073.7	8088.5	8939.1	10030.3	11569.0	13013.6	12798.6	11648.3	11386.2	10528.9
55°	6289.1	6321.4	7366.9	8568.2	10671.3	12950.5	13402.0	12519.1	12258.4	11144.4
57.5°	4503.2	4645.6	5625.3	6814.5	8947.2	11949.3	13533.7	13346.9	13094.2	11816.3
60°	2918.8	2944.3	3952.2	5150.9	6813.2	10170.1	13266.3	13974.5	13776.9	12501.6
62.5°	1870.6	1888.1	2502.2	3602.8	4903.6	7524.1	12365.9	14247.3	14186.8	12954.5
65°	1374.7	1361.3	1681.1	2381.3	3303.1	4640.2	10617.6	14115.6	14235.2	13238.0
67.5°	1147.6	1128.8	1286.0	1648.9	2433.7	2635.2	7856.0	13259.5	13697.6	13205.8
70°	1045.5	1029.4	1124.8	1224.2	1898.8	1764.4	3960.3	11527.3	12201.9	12838.9
72.5°	885.6	857.4	987.7	1087.2	1476.9	1353.2	1636.8	8854.5	9676.9	11663.1
75°	686.7	667.9	779.4	956.8	1110.0	1056.2	1034.7	5376.7	6274.3	9019.8
77.5°	544.2	518.7	620.8	745.8	998.5	796.9	753.9	2315.4	3205.0	5758.3
80°	409.9	387.0	471.7	589.9	767.3	600.7	487.8	944.7	1208.1	2917.4
82.5°	291.6	271.5	329.2	432.7	516.0	538.9	299.7	529.5	595.3	1124.8
85°	186.8	174.7	220.4	271.5	327.9	346.7	182.8	276.8	303.7	463.6
87.5°	102.1	83.3	118.3	126.3	151.9	138.4	87.3	100.8	108.8	168.0
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°
2854.3	0°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2859.7	2.5°	2865.0	2869.1	2882.5	2886.5	2895.9	2908.0	2916.1	2924.2	2924.2	2932.2
2902.7	5°	2904.0	2913.4	2941.6	2956.4	2980.6	3004.8	3019.6	3037.0	3047.8	3053.2
2971.2	7.5°	2979.3	2994.0	3034.4	3059.9	3101.6	3135.1	3158.0	3182.2	3187.6	3202.3
3066.6	10°	3081.4	3098.9	3144.6	3192.9	3242.7	3284.3	3305.8	3323.3	3330.0	3332.7
3188.9	12.5°	3198.3	3223.8	3283.0	3342.1	3394.5	3430.8	3436.2	3432.1	3413.3	3397.2
3339.4	15°	3342.1	3364.9	3430.8	3495.3	3546.4	3553.1	3519.5	3498.0	3475.1	3471.1
3507.4	17.5°	3514.1	3526.2	3586.7	3649.8	3653.9	3631.0	3581.3	3561.1	3539.6	3524.9
3726.4	20°	3714.3	3710.3	3753.3	3780.2	3752.0	3682.1	3606.8	3573.2	3551.7	3534.3
3995.2	22.5°	3953.5	3922.6	3917.3	3910.5	3835.3	3688.8	3586.7	3543.7	3510.1	3485.9
4370.1	25°	4301.6	4183.3	4101.4	4055.7	3886.3	3652.5	3522.2	3426.8	3363.6	3321.9
4828.4	27.5°	4737.0	4538.1	4331.2	4219.6	3886.3	3578.6	3366.3	3211.7	3108.3	3065.3
5271.8	30°	5152.2	4943.9	4638.9	4417.2	3876.9	3457.7	3115.0	2900.0	2779.0	2736.0
5650.8	32.5°	5507.0	5279.9	4965.4	4633.5	3854.1	3261.5	2803.2	2565.4	2448.5	2397.4
6025.7	35°	5836.2	5594.4	5293.3	4871.4	3793.6	2973.9	2460.5	2279.1	2148.8	2066.8
6407.4	37.5°	6173.5	5886.0	5603.8	5086.4	3684.8	2637.9	2197.2	2042.6	1889.4	1779.2
6813.2	40°	6540.4	6196.4	5935.7	5214.0	3506.0	2318.1	1992.9	1851.8	1689.2	1572.3
7280.9	42.5°	6969.1	6568.6	6305.2	5279.9	3261.5	2091.0	1859.9	1721.4	1568.2	1472.8
7782.1	45°	7416.6	6978.5	6642.5	5278.6	2988.7	1984.8	1816.9	1679.8	1510.5	1411.0
8296.8	47.5°	7885.6	7407.2	6934.1	5192.5	2752.2	1999.6	1792.7	1589.7	1403.0	1306.2
8816.8	50°	8355.9	7876.2	7216.3	5031.3	2651.4	1967.4	1702.6	1463.4	1243.0	1155.7
9304.7	52.5°	8822.2	8374.7	7459.6	4801.5	2549.2	1847.8	1587.1	1299.5	1177.2	1116.7
9808.6	55°	9291.2	8867.9	7724.3	4466.9	2293.9	1708.0	1393.5	1237.7	1124.8	1069.7
10301.8	57.5°	9761.6	9437.7	7975.6	4132.3	1972.7	1536.0	1287.4	1162.4	1072.4	1025.3
10714.3	60°	10250.7	10089.5	8235.0	3824.5	1655.6	1315.6	1209.4	1101.9	1010.6	958.1
11110.8	62.5°	10754.6	10807.1	8437.9	3428.1	1364.0	1181.2	1139.6	1029.4	940.7	891.0
11438.7	65°	11262.6	11499.1	8570.9	2878.5	1106.0	1053.6	1064.3	950.1	860.0	817.0
11679.2	67.5°	11645.6	11997.7	8533.3	2178.3	907.1	932.6	970.2	866.8	782.1	748.5
11640.2	70°	11688.6	11938.6	8162.4	1491.6	759.3	814.4	865.4	784.8	697.4	673.3
11091.9	72.5°	11116.1	11132.3	7129.0	974.3	642.3	714.9	755.2	701.5	616.8	592.6
9703.8	75°	9615.1	9206.6	5234.2	642.3	537.5	614.1	651.8	614.1	532.2	537.5
7260.7	77.5°	7284.9	6520.2	3178.2	456.9	448.8	516.0	567.1	540.2	470.3	528.1
3651.2	80°	3753.3	3527.5	1417.7	341.3	354.8	412.6	466.3	431.4	372.2	354.8
815.7	82.5°	860.0	999.8	559.0	244.6	256.7	297.0	356.1	323.9	267.4	225.8
340.0	85°	301.0	329.2	247.3	153.2	150.5	185.4	241.9	216.4	181.4	145.1
143.8	87.5°	95.4	125.0	92.7	61.8	64.5	83.3	111.5	102.1	84.7	55.1
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>
2854.3
2932.2
3055.9
3197.0
3326.0
3397.2
3471.1
3526.2
3535.6
3493.9
3338.1
3086.8
2761.6
2422.9
2093.7
1808.8
1595.1
1491.6
1427.1
1319.6
1161.1
1116.7
1064.3
1017.3
954.1
889.6
815.7
749.9
674.6
591.3
518.7
465.0
323.9
223.1
153.2
57.8
0.0

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