

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: P951150

Luminaire Tested: **GALN-SB5B-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27155 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

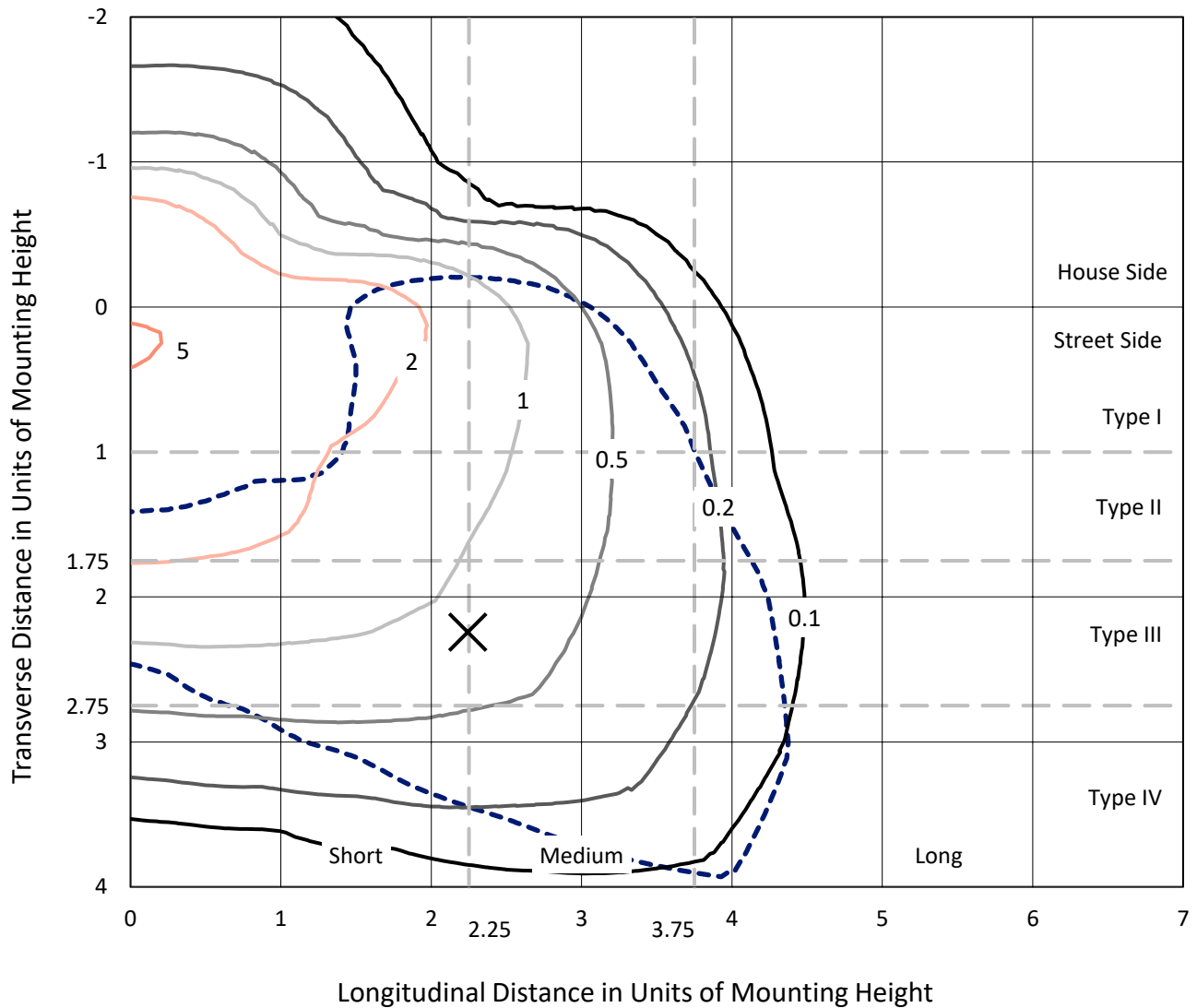
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

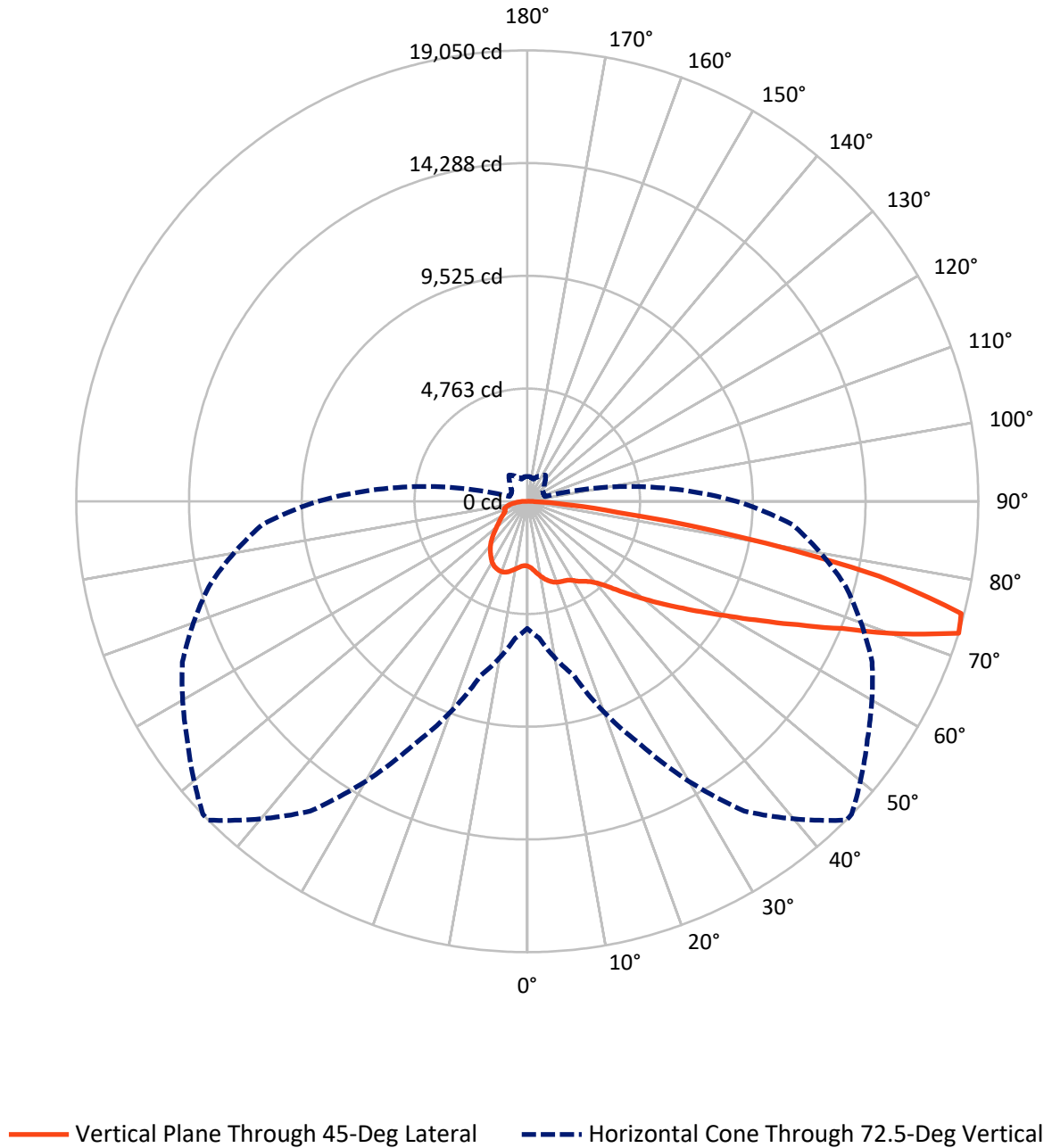
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	6138.8	0.0	6138.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21016.2	0.0	21016.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	27155.0	0.0	27155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.0
10°-20°	929.6	3.4
20°-30°	1617.1	6.0
30°-40°	2318.2	8.5
40°-50°	3264.2	12.0
50°-60°	4999.8	18.4
60°-70°	7242.9	26.7
70°-80°	5783.9	21.3
80°-90°	720.4	2.7
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°	27155.0	100.0
0°-180°	27155.0	100.0

Coefficient of Utilization



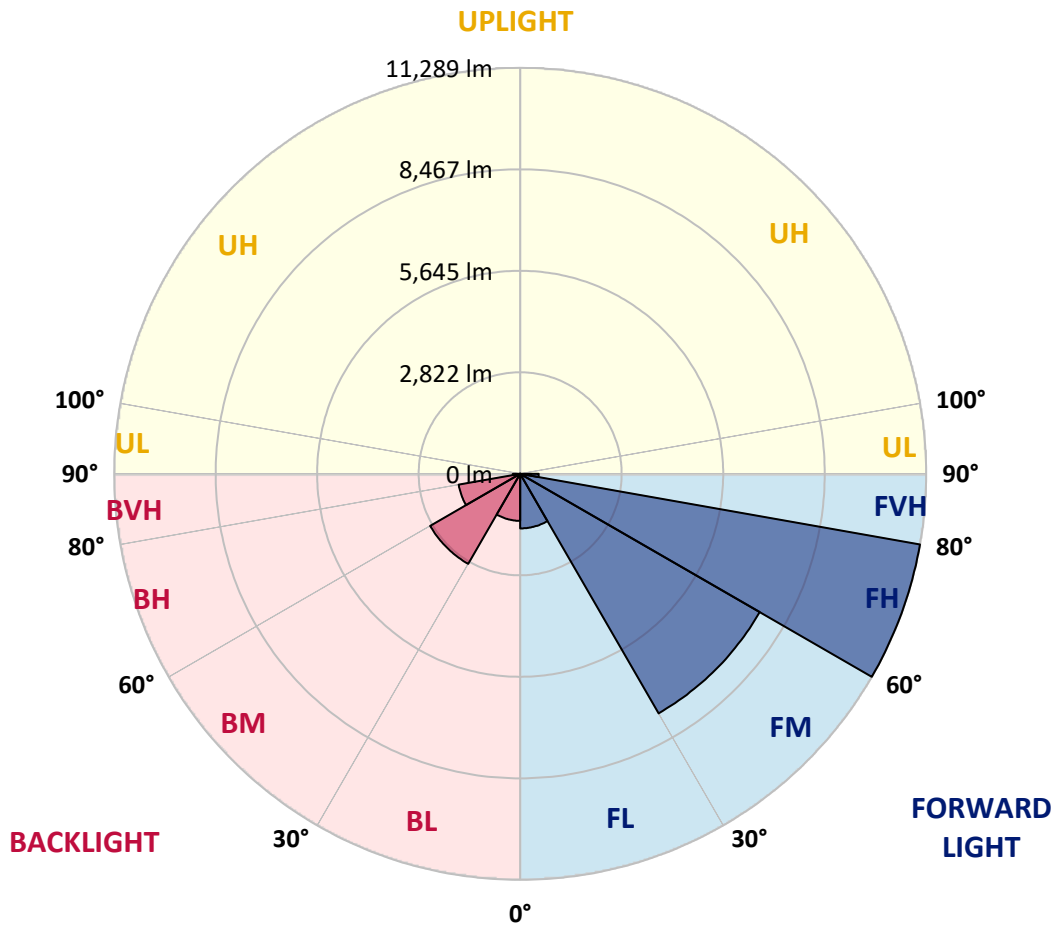
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.5	5.6			
FM (30°-60°)	7691.7	28.3			
FH (60°-80°)	11289.1	41.6			G4/12000
FVH (80°-90°)	516.8	1.9			G4/750
BL (0°-30°)	1307.0	4.8	B3/2500		
BM (30°-60°)	2890.5	10.6	B3/5000		
BH (60°-80°)	1737.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	203.6	0.7			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°	45°	46°	55°	65°	75°
0°	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4
2.5°	2846.7	2865.3	2848.1	2832.4	2825.2	2806.6	2805.2	2793.8	2786.6	2766.6
5°	3045.5	3069.9	3041.2	3009.8	2981.2	2935.4	2929.7	2896.8	2859.6	2816.7
7.5°	3270.1	3291.6	3258.7	3211.5	3161.4	3085.6	3084.2	3024.1	2965.4	2892.5
10°	3466.1	3494.7	3450.4	3386.0	3323.1	3237.2	3227.2	3158.5	3084.2	2989.7
12.5°	3639.2	3659.2	3616.3	3537.6	3464.7	3378.8	3366.0	3290.2	3207.2	3099.9
15°	3776.5	3802.3	3745.1	3660.7	3583.4	3499.0	3487.6	3418.9	3335.9	3222.9
17.5°	3866.6	3888.1	3829.5	3735.0	3660.7	3590.6	3582.0	3524.8	3451.8	3337.4
20°	3901.0	3923.9	3862.4	3766.5	3697.8	3643.5	3639.2	3597.7	3547.6	3443.2
22.5°	3935.3	3956.8	3876.7	3776.5	3716.4	3682.1	3680.7	3653.5	3633.5	3547.6
25°	4074.1	4079.8	3972.5	3828.0	3742.2	3712.2	3710.7	3709.3	3717.9	3650.6
27.5°	4194.2	4192.8	4101.2	3965.4	3832.3	3769.4	3767.9	3782.2	3809.4	3753.6
30°	4370.2	4354.4	4245.7	4104.1	3982.5	3885.2	3876.7	3863.8	3885.2	3840.9
32.5°	4743.5	4693.5	4517.5	4265.8	4107.0	4032.6	4021.1	3941.0	3949.6	3922.4
35°	5278.6	5212.7	4978.1	4571.9	4261.5	4155.6	4149.9	4048.3	4031.2	4006.8
37.5°	5915.1	5833.6	5560.4	5015.3	4527.5	4298.7	4290.1	4198.5	4128.4	4102.7
40°	6554.6	6451.6	6225.5	5556.1	4919.5	4537.6	4510.4	4371.6	4291.5	4248.6
42.5°	7175.4	7089.6	6896.4	6162.6	5403.0	4886.6	4826.5	4589.0	4529.0	4488.9
45°	7724.7	7647.5	7505.8	6810.6	5969.5	5361.5	5302.9	4915.2	4896.6	4896.6
47.5°	8171.0	8153.9	8003.7	7471.5	6637.5	5902.3	5800.7	5368.7	5418.7	5496.0
50°	8666.0	8618.8	8458.6	8122.4	7422.9	6521.7	6438.7	5925.1	6112.5	6324.2
52.5°	9120.9	9146.6	8967.8	8800.4	8309.8	7212.6	7066.7	6581.7	6986.6	7337.0
55°	9588.7	9590.1	9540.0	9517.1	9239.6	7976.5	7816.3	7371.4	8015.1	8450.0
57.5°	10027.8	10030.7	10105.1	10306.8	10318.2	8857.7	8676.0	8341.3	9158.1	9601.5
60°	10419.8	10439.8	10642.9	11115.0	11266.6	9867.6	9695.9	9487.1	10339.7	10786.0
62.5°	10551.4	10624.3	11076.4	11747.3	12203.6	11106.4	10937.6	10813.2	11581.3	11996.2
65°	10328.2	10495.6	11369.6	12269.4	13167.8	12578.4	12411.0	12275.1	12871.7	13262.2
67.5°	9780.3	9996.3	11352.5	12817.3	14337.9	14349.4	14193.4	13874.4	14255.0	14405.2
70°	8337.0	8660.3	10352.5	13021.9	15681.2	16771.2	16621.0	15799.9	15635.4	14908.7
72.5°	5371.5	5806.4	7623.1	11338.2	15980.1	19050.0	19041.4	17538.0	16071.7	13930.2
75°	1959.8	2225.9	3541.9	7116.7	13413.8	18934.1	18989.9	17240.4	14671.2	10760.2
77.5°	713.8	781.1	1155.8	2735.1	8249.7	15191.9	15307.8	13782.9	10442.7	5400.1
80°	374.8	412.0	592.2	1061.4	3534.8	9022.2	9203.8	8191.1	4908.1	1626.5
82.5°	207.4	224.6	331.9	576.5	1592.1	3858.1	3966.8	3235.8	1726.6	689.5
85°	111.6	118.7	155.9	314.7	778.2	1337.5	1367.6	967.0	688.1	404.8
87.5°	32.9	40.1	51.5	100.1	304.7	300.4	307.6	191.7	271.8	204.6
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°
2739.4	0°	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4	2739.4
2760.9	2.5°	2752.3	2748.0	2732.3	2725.1	2716.5	2715.1	2722.2	2723.7	2725.1	2726.5
2792.3	5°	2778.0	2763.7	2749.4	2740.8	2743.7	2745.1	2759.4	2769.5	2776.6	2782.3
2851.0	7.5°	2828.1	2816.7	2792.3	2790.9	2795.2	2808.1	2826.7	2849.6	2862.4	2872.4
2926.8	10°	2902.5	2881.0	2852.4	2856.7	2865.3	2883.9	2922.5	2941.1	2962.6	2981.2
3019.8	12.5°	2978.3	2959.7	2926.8	2929.7	2944.0	2976.9	3014.1	3037.0	3051.3	3065.6
3119.9	15°	3077.0	3044.1	3008.3	3008.3	3034.1	3069.9	3087.0	3105.6	3114.2	3129.9
3227.2	17.5°	3178.6	3135.7	3088.5	3085.6	3117.1	3134.2	3144.2	3147.1	3150.0	3167.1
3331.6	20°	3280.1	3232.9	3165.7	3160.0	3167.1	3164.3	3162.8	3160.0	3164.3	3185.7
3438.9	22.5°	3380.3	3325.9	3232.9	3207.2	3187.2	3160.0	3158.5	3157.1	3160.0	3181.4
3554.8	25°	3497.6	3431.8	3307.3	3230.1	3162.8	3125.6	3129.9	3131.4	3134.2	3151.4
3675.0	27.5°	3624.9	3551.9	3376.0	3222.9	3101.3	3075.6	3068.4	3072.7	3082.7	3109.9
3795.1	30°	3752.2	3666.4	3438.9	3194.3	3024.1	2988.3	2965.4	2975.4	3006.9	3034.1
3899.5	32.5°	3868.1	3782.2	3489.0	3131.4	2925.4	2869.6	2839.5	2852.4	2883.9	2893.9
4015.4	35°	4004.0	3906.7	3510.5	3031.2	2818.1	2732.3	2692.2	2673.6	2689.3	2679.3
4151.3	37.5°	4155.6	4054.0	3507.6	2899.6	2692.2	2593.5	2537.7	2467.6	2434.7	2400.4
4351.6	40°	4380.2	4234.3	3473.3	2740.8	2536.3	2446.2	2346.0	2227.3	2152.9	2085.7
4674.9	42.5°	4686.3	4484.6	3410.3	2566.3	2360.3	2275.9	2140.0	2001.3	1884.0	1772.4
5165.5	45°	5142.7	4812.2	3331.6	2380.4	2170.1	2087.1	1939.8	1783.8	1650.8	1507.7
5862.2	47.5°	5800.7	5252.8	3257.3	2168.6	1969.8	1894.0	1760.9	1616.5	1459.1	1320.4
6869.3	50°	6704.8	5885.1	3188.6	1962.6	1772.4	1715.2	1609.3	1462.0	1303.2	1191.6
8049.4	52.5°	7854.9	6744.8	3160.0	1763.8	1587.9	1566.4	1482.0	1344.7	1194.5	1100.1
9425.6	55°	9175.2	7773.3	3160.0	1573.6	1426.2	1433.4	1374.7	1247.4	1117.2	1032.8
10844.6	57.5°	10522.8	8814.8	3102.8	1397.6	1288.9	1318.9	1281.7	1170.2	1052.8	965.6
12336.6	60°	11764.4	9687.4	2871.0	1237.4	1167.3	1214.5	1190.2	1094.3	951.3	878.3
13584.0	62.5°	12718.6	10179.5	2424.7	1110.1	1067.2	1121.5	1108.6	994.2	932.7	902.6
14608.3	65°	13196.4	10099.3	1853.9	997.1	982.8	1067.2	1040.0	1035.7	987.0	952.7
14941.6	67.5°	12903.1	9409.8	1344.7	914.1	934.1	1017.1	1121.5	1138.7	1048.6	981.3
14003.2	70°	11617.1	8162.4	1001.4	835.4	872.6	1018.5	1278.9	1191.6	1028.5	949.9
11230.9	72.5°	8837.6	6086.8	776.8	752.4	792.5	1025.7	1349.0	1167.3	971.3	1050.0
6996.6	75°	5054.0	3341.7	623.7	650.9	692.4	958.4	1313.2	1104.3	927.0	964.2
2772.3	77.5°	1926.9	1284.6	515.0	550.7	556.5	836.8	1256.0	1100.1	882.6	861.2
831.1	80°	668.0	502.1	426.3	437.7	430.6	743.9	1204.5	957.0	722.4	646.6
343.3	82.5°	273.2	250.3	337.6	323.3	306.1	577.9	972.7	782.5	590.8	522.1
165.9	85°	118.7	158.8	223.2	196.0	177.4	400.5	779.6	662.3	499.2	430.6
54.4	87.5°	24.3	60.1	94.4	88.7	91.6	267.5	553.6	470.6	353.3	264.6
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>
2739.4
2732.3
2785.2
2875.3
2976.9
3071.3
3135.7
3172.9
3194.3
3195.7
3174.3
3137.1
3064.1
2929.7
2710.8
2421.8
2090.0
1762.4
1490.6
1304.6
1184.5
1092.9
1024.2
951.3
866.9
892.6
941.3
969.9
937.0
1041.4
964.2
785.3
625.1
516.4
429.2
207.4
0.0

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