

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: P952053

Luminaire Tested: **GALN-SB6A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952053
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-SB6A-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27149 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

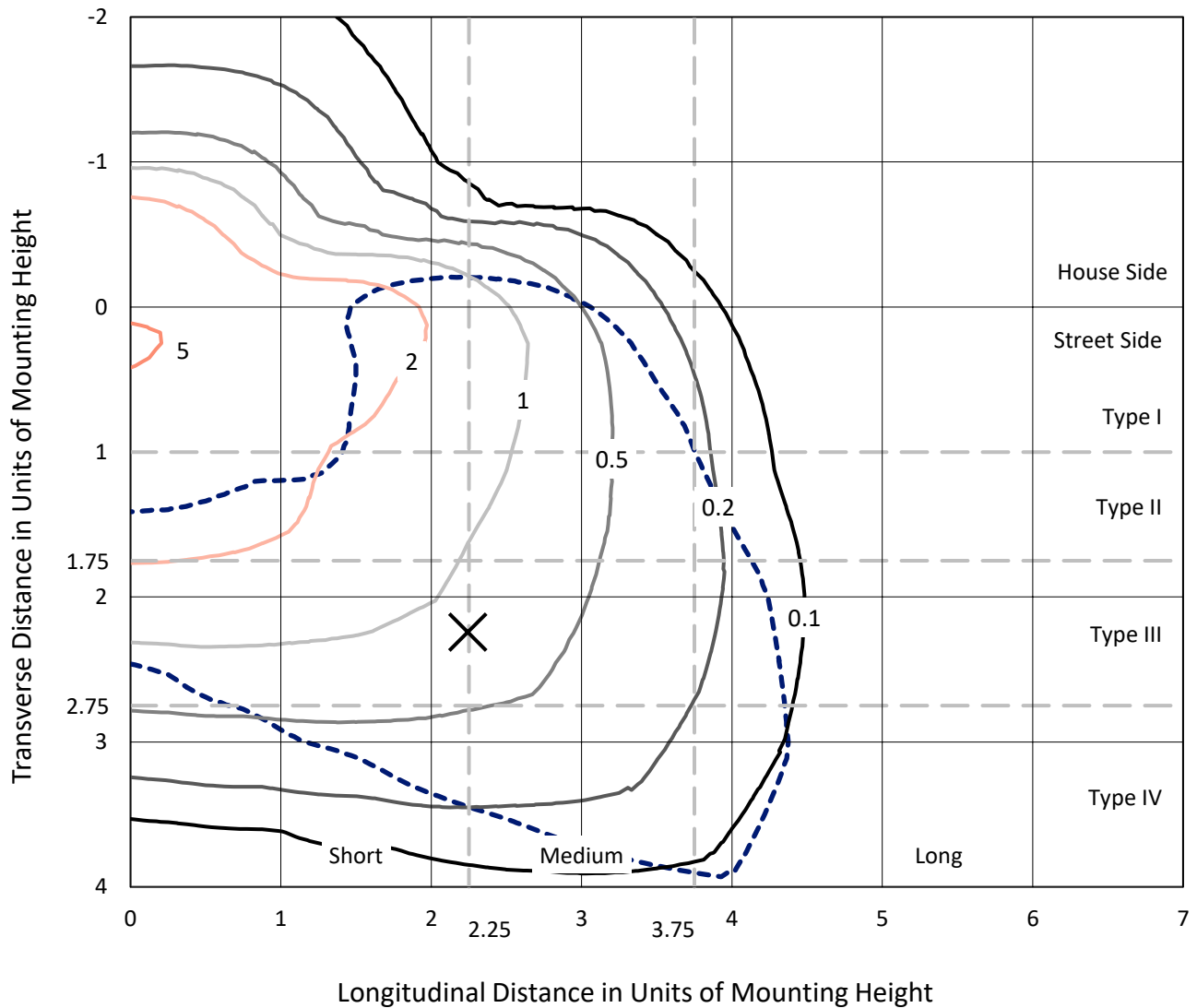
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

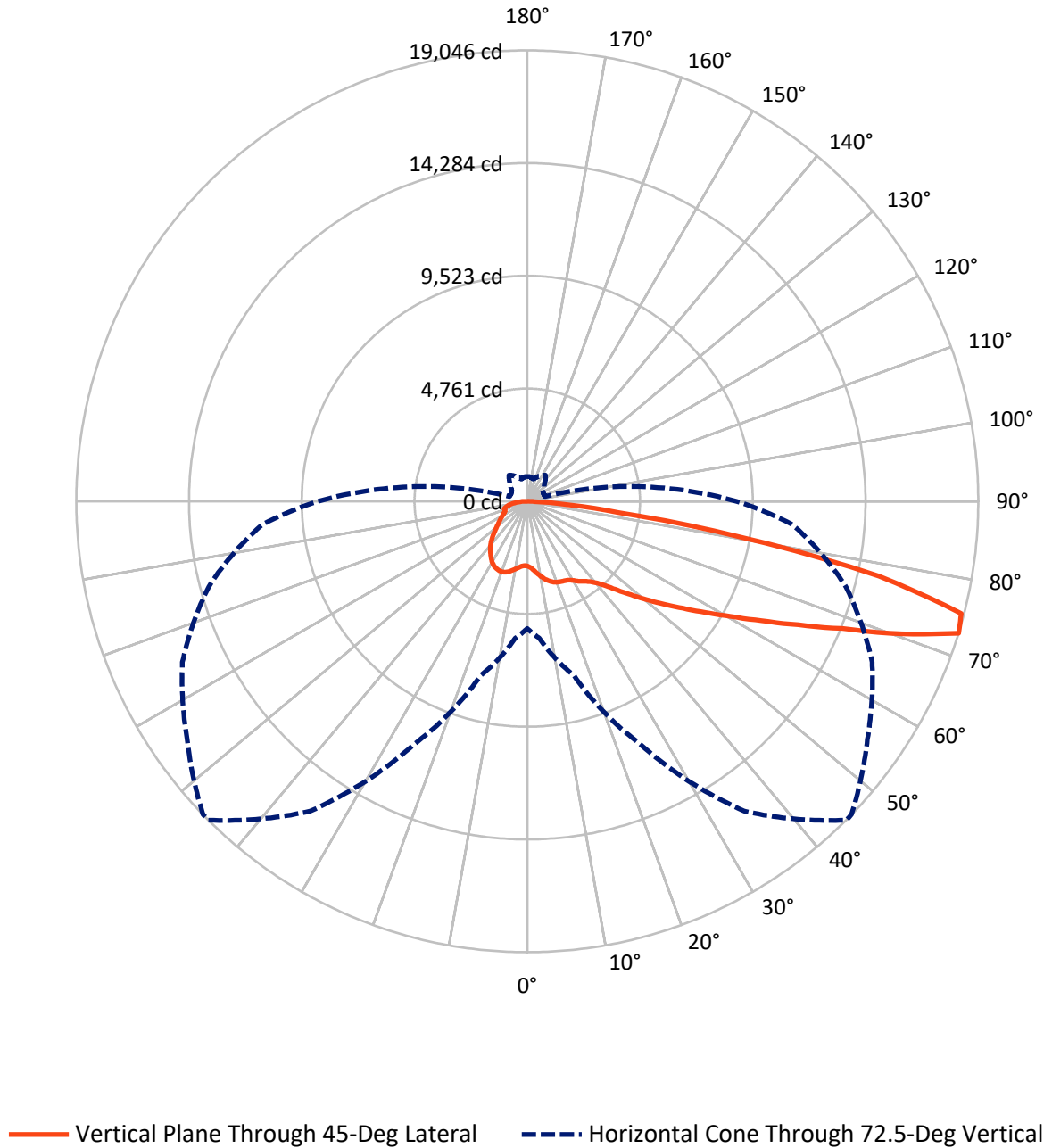
✕ Max cd
 - - - 1/2 Max cd



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	6137.4	0.0	6137.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21011.5	0.0	21011.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	27149.0	0.0	27149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.0
10°-20°	929.4	3.4
20°-30°	1616.8	6.0
30°-40°	2317.7	8.5
40°-50°	3263.5	12.0
50°-60°	4998.7	18.4
60°-70°	7241.3	26.7
70°-80°	5782.6	21.3
80°-90°	720.2	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°	27149.0	100.0
0°-180°	27149.0	100.0

Coefficient of Utilization

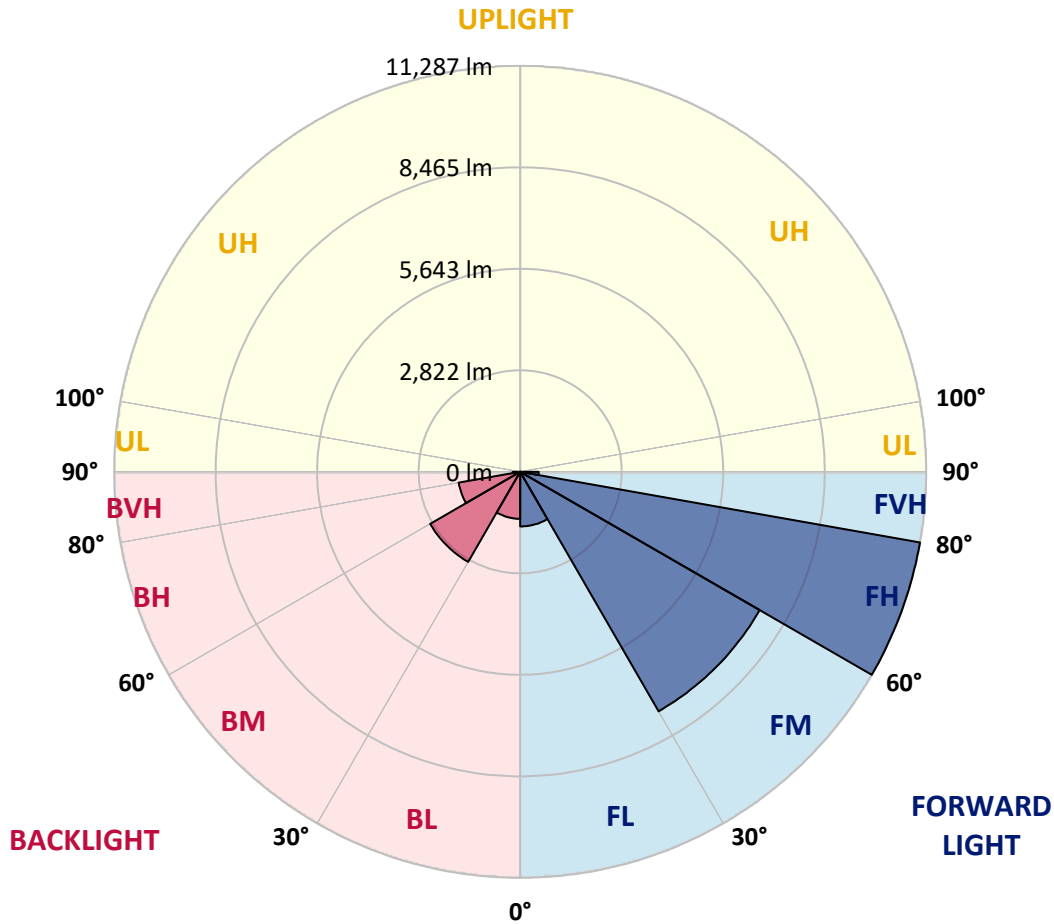


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.2	5.6			
FM (30°-60°)	7690.0	28.3			
FH (60°-80°)	11286.6	41.6			G4/12000
FVH (80°-90°)	516.7	1.9			G4/750
BL (0°-30°)	1306.7	4.8	B3/2500		
BM (30°-60°)	2889.9	10.6	B3/5000		
BH (60°-80°)	1737.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	203.5	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°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8
2.5°	2846.1	2864.7	2847.5	2831.8	2824.6	2806.0	2804.6	2793.2	2786.0	2766.0
5°	3044.9	3069.2	3040.6	3009.1	2980.5	2934.7	2929.0	2896.1	2858.9	2816.0
7.5°	3269.4	3290.9	3258.0	3210.8	3160.7	3084.9	3083.5	3023.4	2964.8	2891.8
10°	3465.3	3493.9	3449.6	3385.2	3322.3	3236.5	3226.5	3157.9	3083.5	2989.1
12.5°	3638.4	3658.4	3615.5	3536.8	3463.9	3378.1	3365.2	3289.4	3206.5	3099.2
15°	3775.7	3801.4	3744.2	3659.8	3582.6	3498.2	3486.8	3418.1	3335.2	3222.2
17.5°	3865.8	3887.2	3828.6	3734.2	3659.8	3589.8	3581.2	3524.0	3451.0	3336.6
20°	3900.1	3923.0	3861.5	3765.7	3697.0	3642.7	3638.4	3596.9	3546.9	3442.5
22.5°	3934.4	3955.9	3875.8	3775.7	3715.6	3681.3	3679.9	3652.7	3632.7	3546.9
25°	4073.2	4078.9	3971.6	3827.2	3741.4	3711.3	3709.9	3708.5	3717.1	3649.8
27.5°	4193.3	4191.9	4100.3	3964.5	3831.5	3768.5	3767.1	3781.4	3808.6	3752.8
30°	4369.2	4353.5	4244.8	4103.2	3981.6	3884.4	3875.8	3862.9	3884.4	3840.0
32.5°	4742.5	4692.4	4516.5	4264.8	4106.1	4031.7	4020.3	3940.2	3948.7	3921.6
35°	5277.4	5211.6	4977.0	4570.9	4260.5	4154.7	4149.0	4047.4	4030.3	4006.0
37.5°	5913.8	5832.3	5559.1	5014.2	4526.5	4297.7	4289.1	4197.6	4127.5	4101.8
40°	6553.1	6450.1	6224.2	5554.8	4918.4	4536.5	4509.4	4370.6	4290.6	4247.7
42.5°	7173.8	7088.0	6894.9	6161.2	5401.8	4885.5	4825.4	4588.0	4528.0	4487.9
45°	7723.0	7645.8	7504.2	6809.1	5968.2	5360.3	5301.7	4914.1	4895.5	4895.5
47.5°	8169.2	8152.1	8001.9	7469.9	6636.1	5900.9	5799.4	5367.5	5417.5	5494.8
50°	8664.1	8616.9	8456.7	8120.6	7421.2	6520.2	6437.3	5923.8	6111.2	6322.9
52.5°	9118.9	9144.6	8965.8	8798.5	8307.9	7211.0	7065.1	6580.3	6985.0	7335.4
55°	9586.5	9588.0	9537.9	9515.0	9237.6	7974.7	7814.5	7369.7	8013.3	8448.1
57.5°	10025.6	10028.5	10102.8	10304.5	10315.9	8855.7	8674.1	8339.4	9156.0	9599.4
60°	10417.5	10437.5	10640.6	11112.5	11264.1	9865.4	9693.8	9485.0	10337.4	10783.6
62.5°	10549.0	10622.0	11073.9	11744.7	12200.9	11104.0	10935.2	10810.8	11578.8	11993.5
65°	10325.9	10493.3	11367.1	12266.7	13164.9	12575.6	12408.3	12272.4	12868.8	13259.3
67.5°	9778.2	9994.1	11350.0	12814.5	14334.8	14346.2	14190.3	13871.4	14251.8	14402.0
70°	8335.1	8658.3	10350.3	13019.0	15677.7	16767.5	16617.3	15796.4	15631.9	14905.4
72.5°	5370.3	5805.1	7621.5	11335.7	15976.6	19045.8	19037.2	17534.1	16068.1	13927.1
75°	1959.4	2225.4	3541.1	7115.2	13410.9	18929.9	18985.7	17236.6	14668.0	10757.9
77.5°	713.7	780.9	1155.6	2734.5	8247.9	15188.6	15304.4	13779.8	10440.4	5399.0
80°	374.7	411.9	592.1	1061.2	3534.0	9020.2	9201.8	8189.2	4907.0	1626.1
82.5°	207.4	224.5	331.8	576.4	1591.8	3857.2	3965.9	3235.1	1726.2	689.3
85°	111.6	118.7	155.9	314.6	778.0	1337.2	1367.3	966.8	687.9	404.7
87.5°	32.9	40.0	51.5	100.1	304.6	300.3	307.5	191.6	271.7	204.5
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°
2738.8	0°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8
2760.3	2.5°	2751.7	2747.4	2731.7	2724.5	2715.9	2714.5	2721.6	2723.1	2724.5	2725.9
2791.7	5°	2777.4	2763.1	2748.8	2740.2	2743.1	2744.5	2758.8	2768.8	2776.0	2781.7
2850.4	7.5°	2827.5	2816.0	2791.7	2790.3	2794.6	2807.5	2826.0	2848.9	2861.8	2871.8
2926.2	10°	2901.8	2880.4	2851.8	2856.1	2864.7	2883.3	2921.9	2940.5	2961.9	2980.5
3019.1	12.5°	2977.6	2959.1	2926.2	2929.0	2943.3	2976.2	3013.4	3036.3	3050.6	3064.9
3119.2	15°	3076.3	3043.4	3007.7	3007.7	3033.4	3069.2	3086.3	3104.9	3113.5	3129.2
3226.5	17.5°	3177.9	3135.0	3087.8	3084.9	3116.4	3133.5	3143.5	3146.4	3149.3	3166.4
3330.9	20°	3279.4	3232.2	3165.0	3159.3	3166.4	3163.6	3162.1	3159.3	3163.6	3185.0
3438.2	22.5°	3379.5	3325.2	3232.2	3206.5	3186.5	3159.3	3157.9	3156.4	3159.3	3180.7
3554.0	25°	3496.8	3431.0	3306.6	3229.4	3162.1	3125.0	3129.2	3130.7	3133.5	3150.7
3674.1	27.5°	3624.1	3551.2	3375.2	3222.2	3100.6	3074.9	3067.7	3072.0	3082.1	3109.2
3794.3	30°	3751.4	3665.6	3438.2	3193.6	3023.4	2987.7	2964.8	2974.8	3006.3	3033.4
3898.7	32.5°	3867.2	3781.4	3488.2	3130.7	2924.7	2869.0	2838.9	2851.8	2883.3	2893.3
4014.5	35°	4003.1	3905.8	3509.7	3030.6	2817.5	2731.7	2691.6	2673.0	2688.7	2678.7
4150.4	37.5°	4154.7	4053.1	3506.8	2899.0	2691.6	2592.9	2537.1	2467.1	2434.2	2399.9
4350.6	40°	4379.2	4233.3	3472.5	2740.2	2535.7	2445.6	2345.5	2226.8	2152.4	2085.2
4673.8	42.5°	4685.3	4483.6	3409.6	2565.8	2359.8	2275.4	2139.6	2000.8	1883.6	1772.0
5164.4	45°	5141.5	4811.1	3330.9	2379.8	2169.6	2086.6	1939.3	1783.4	1650.4	1507.4
5860.9	47.5°	5799.4	5251.6	3256.5	2168.2	1969.4	1893.6	1760.6	1616.1	1458.8	1320.1
6867.8	50°	6703.3	5883.8	3187.9	1962.2	1772.0	1714.8	1609.0	1461.6	1302.9	1191.3
8047.7	52.5°	7853.1	6743.3	3159.3	1763.4	1587.5	1566.1	1481.7	1344.4	1194.2	1099.8
9423.5	55°	9173.2	7771.6	3159.3	1573.2	1425.9	1433.0	1374.4	1247.1	1117.0	1032.6
10842.2	57.5°	10520.4	8812.8	3102.1	1397.3	1288.6	1318.6	1281.4	1169.9	1052.6	965.4
12333.9	60°	11761.8	9685.2	2870.4	1237.1	1167.0	1214.2	1189.9	1094.1	951.1	878.1
13581.0	62.5°	12715.8	10177.2	2424.2	1109.8	1066.9	1121.3	1108.4	994.0	932.5	902.4
14605.1	65°	13193.5	10097.1	1853.5	996.8	982.5	1066.9	1039.7	1035.5	986.8	952.5
14938.3	67.5°	12900.3	9407.8	1344.4	913.9	933.9	1016.9	1121.3	1138.4	1048.3	981.1
14000.1	70°	11614.5	8160.6	1001.1	835.2	872.4	1018.3	1278.6	1191.3	1028.3	949.6
11228.4	72.5°	8835.7	6085.4	776.6	752.3	792.3	1025.4	1348.7	1167.0	971.1	1049.8
6995.0	75°	5052.8	3340.9	623.6	650.7	692.2	958.2	1312.9	1104.1	926.8	963.9
2771.7	77.5°	1926.5	1284.3	514.9	550.6	556.3	836.7	1255.7	1099.8	882.4	861.0
830.9	80°	667.9	502.0	426.2	437.6	430.5	743.7	1204.2	956.8	722.2	646.4
343.2	82.5°	273.2	250.3	337.5	323.2	306.1	577.8	972.5	782.3	590.7	522.0
165.9	85°	118.7	158.8	223.1	195.9	177.3	400.5	779.5	662.2	499.1	430.5
54.3	87.5°	24.3	60.1	94.4	88.7	91.5	267.4	553.5	470.5	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>
2738.8
2731.7
2784.6
2874.7
2976.2
3070.6
3135.0
3172.2
3193.6
3195.0
3173.6
3136.4
3063.5
2929.0
2710.2
2421.3
2089.5
1762.0
1490.3
1304.3
1184.2
1092.7
1024.0
951.1
866.7
892.4
941.1
969.7
936.8
1041.2
963.9
785.2
625.0
516.3
429.1
207.4
0.0

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