

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: P941932

Luminaire Tested: **GALN-SB5C-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26087 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

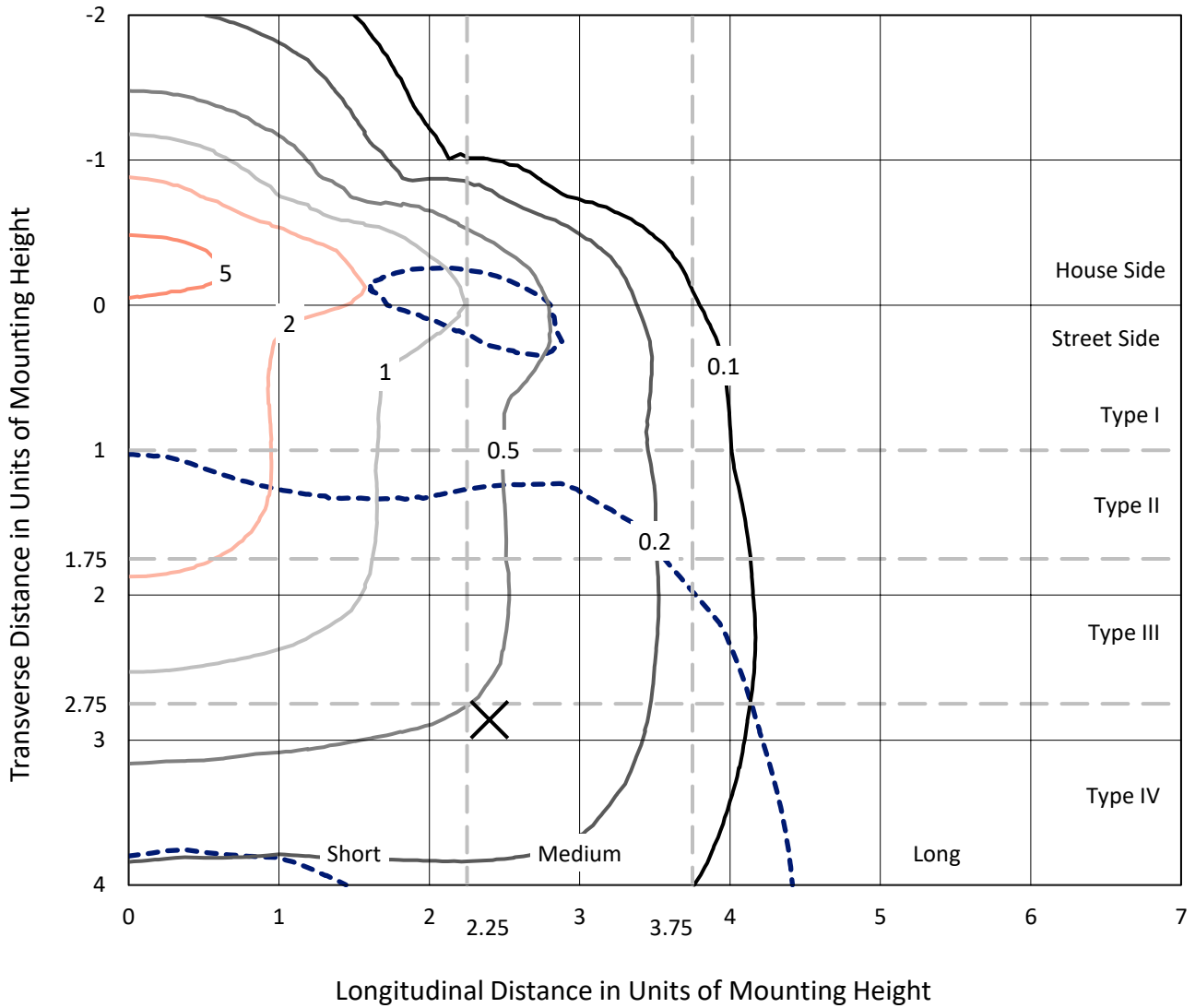
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

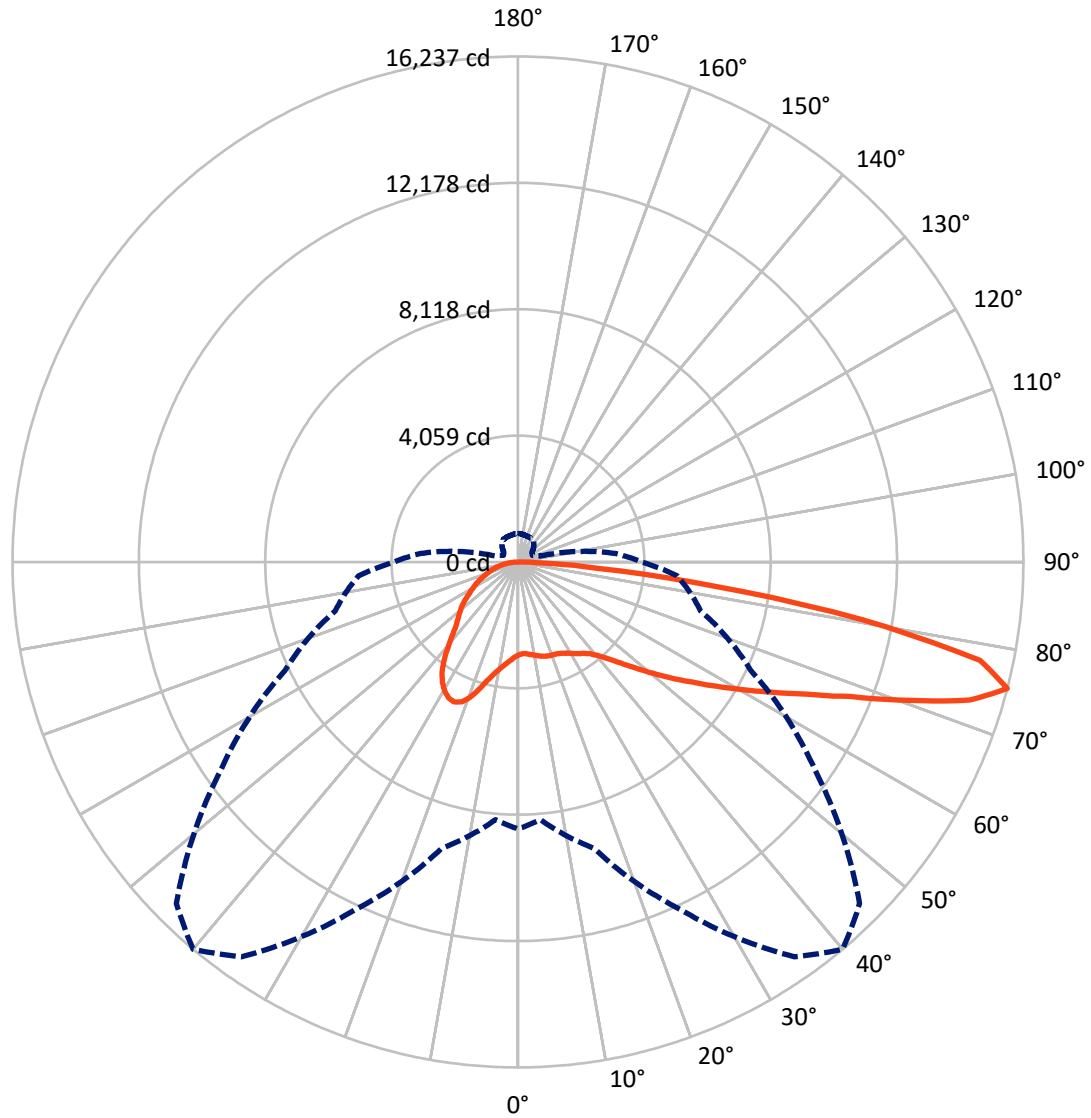
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8082.6	0.0	8082.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18004.4	0.0	18004.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	26087.0	0.0	26087.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	1.1
10°-20°	999.7	3.8
20°-30°	1825.5	7.0
30°-40°	2589.0	9.9
40°-50°	3495.9	13.4
50°-60°	4703.0	18.0
60°-70°	5969.1	22.9
70°-80°	5417.3	20.8
80°-90°	789.7	3.0
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°	26087.0	100.0
0°-180°	26087.0	100.0



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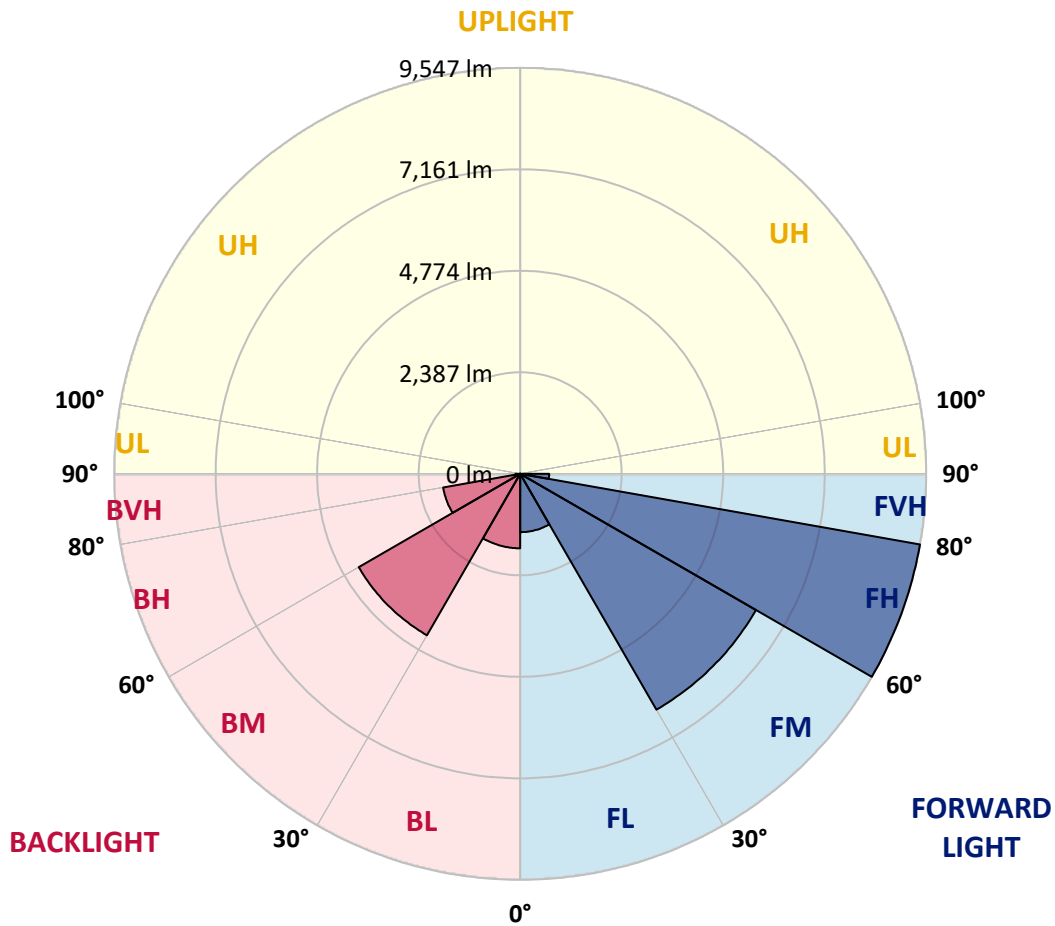
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.2	5.3			
FM (30°-60°)	6403.8	24.5			
FH (60°-80°)	9547.4	36.6			G4/12000
FVH (80°-90°)	681.0	2.6			G4/750
BL (0°-30°)	1750.8	6.7	B3/2500		
BM (30°-60°)	4384.1	16.8	B3/5000		
BH (60°-80°)	1839.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	108.7	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1
2.5°	2937.4	2954.0	2949.9	2944.3	2944.3	2945.7	2944.3	2954.0	2963.7	2973.4
5°	2967.9	2984.5	2976.2	2969.2	2963.7	2962.3	2958.2	2956.8	2962.3	2974.8
7.5°	3027.4	3044.0	3031.5	3019.1	3008.0	3002.5	2996.9	2988.6	2984.5	2991.4
10°	3093.8	3110.4	3095.2	3073.0	3055.0	3048.1	3042.6	3034.3	3028.7	3032.9
12.5°	3160.2	3176.8	3156.0	3125.6	3102.1	3097.9	3091.0	3088.2	3086.9	3085.5
15°	3222.4	3236.3	3210.0	3174.0	3149.1	3142.2	3135.3	3139.4	3146.4	3154.7
17.5°	3270.9	3284.7	3246.0	3198.9	3175.4	3172.6	3168.5	3182.3	3201.7	3222.4
20°	3315.2	3329.0	3279.2	3215.5	3187.9	3187.9	3189.2	3218.3	3246.0	3276.4
22.5°	3377.4	3388.5	3327.6	3240.4	3200.3	3203.1	3214.1	3243.2	3277.8	3319.3
25°	3470.1	3478.4	3403.7	3287.5	3241.8	3250.1	3259.8	3273.6	3306.9	3355.3
27.5°	3619.5	3626.5	3528.2	3370.5	3301.3	3315.2	3329.0	3319.3	3334.5	3376.0
30°	3829.9	3834.0	3709.5	3500.6	3402.3	3409.2	3412.0	3371.9	3342.8	3376.0
32.5°	4078.9	4077.5	3929.5	3658.3	3517.2	3510.2	3486.7	3407.9	3340.1	3369.1
35°	4464.9	4449.7	4258.8	3879.7	3647.2	3604.3	3549.0	3448.0	3353.9	3362.2
37.5°	5104.2	5057.1	4792.9	4242.2	3840.9	3731.6	3650.0	3513.0	3384.3	3359.4
40°	5825.0	5765.5	5475.0	4738.9	4131.5	3955.8	3824.3	3605.7	3434.1	3371.9
42.5°	6680.1	6595.7	6283.0	5324.2	4499.5	4244.9	4047.1	3723.3	3507.5	3412.0
45°	7730.3	7618.2	7175.4	5984.2	4963.0	4624.1	4359.8	3901.8	3619.5	3489.5
47.5°	8791.5	8819.2	8189.6	6739.6	5519.3	5091.7	4751.3	4170.2	3782.8	3614.0
50°	9919.2	9938.5	9198.3	7576.7	6150.2	5620.3	5191.3	4470.5	4009.7	3791.1
52.5°	10799.1	10801.9	10114.3	8452.5	6807.4	6201.4	5665.9	4813.6	4272.6	4026.3
55°	11349.8	11342.9	10756.3	9281.3	7562.9	6811.6	6191.7	5203.8	4593.6	4303.1
57.5°	11749.7	11728.9	11199.0	9993.9	8368.1	7532.4	6786.7	5646.6	4972.7	4632.4
60°	11901.9	11889.4	11499.3	10609.6	9214.9	8329.4	7472.9	6141.9	5403.0	5021.2
62.5°	11960.0	11983.5	11794.0	11205.9	10121.2	9212.1	8227.0	6734.1	5887.3	5461.1
65°	12164.8	12207.7	12168.9	11986.3	11145.1	10245.7	9227.4	7438.3	6415.8	5933.0
67.5°	12570.2	12613.1	12629.7	12920.2	12395.8	11533.9	10475.4	8315.6	7034.3	6422.8
70°	12560.5	12548.0	12841.4	13663.2	13962.1	13317.3	12157.9	9394.8	7771.8	6829.5
72.5°	11432.8	11333.2	12026.4	13654.9	15265.5	15179.7	14212.5	10786.7	8408.3	6879.4
75°	8577.1	8311.4	9535.9	12305.9	15482.7	16236.8	15518.7	11650.1	8257.4	6078.2
77.5°	3668.0	3400.9	4844.1	9109.7	13856.9	15178.3	14320.5	10164.1	6591.6	4019.4
80°	960.2	958.8	1463.9	4130.1	9423.8	11208.7	9833.4	6563.9	3766.2	1436.2
82.5°	397.1	387.4	538.2	1606.4	4604.7	6289.9	5133.2	2927.7	1360.1	388.8
85°	148.0	146.7	261.5	554.8	1624.4	2594.3	1877.6	748.5	339.0	189.6
87.5°	41.5	40.1	56.7	192.3	395.7	600.5	321.0	123.1	95.5	74.7
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°
2983.1	0°	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1	2983.1
2988.6	2.5°	2992.8	2999.7	3012.1	3021.8	3034.3	3048.1	3067.5	3079.9	3092.4	3100.7
2995.5	5°	3005.2	3020.4	3052.3	3084.1	3121.4	3156.0	3196.2	3225.2	3248.7	3255.7
3020.4	7.5°	3032.9	3057.8	3111.8	3165.7	3225.2	3281.9	3340.1	3389.9	3430.0	3445.2
3064.7	10°	3081.3	3114.5	3190.6	3266.7	3345.6	3432.8	3507.5	3579.4	3636.2	3659.7
3117.3	12.5°	3142.2	3183.7	3283.3	3388.5	3497.8	3618.2	3715.0	3803.6	3874.1	3906.0
3190.6	15°	3221.1	3275.0	3402.3	3543.4	3703.9	3871.4	3994.5	4092.7	4171.6	4210.4
3266.7	17.5°	3306.9	3378.8	3539.3	3752.4	3982.1	4202.1	4345.9	4417.9	4499.5	4536.9
3337.3	20°	3389.9	3478.4	3708.1	4018.0	4323.8	4557.6	4673.9	4693.2	4698.8	4702.9
3403.7	22.5°	3475.7	3594.6	3919.8	4352.9	4680.8	4842.7	4859.3	4776.3	4660.0	4606.1
3468.7	25°	3569.7	3727.5	4196.5	4722.3	4987.9	5007.3	4880.0	4678.0	4458.0	4357.0
3521.3	27.5°	3661.1	3881.1	4528.6	5075.1	5209.3	5039.1	4765.2	4478.8	4213.1	4106.6
3558.7	30°	3752.4	4056.8	4895.2	5383.7	5310.3	4960.3	4583.9	4264.3	3997.3	3885.2
3591.9	32.5°	3845.1	4261.5	5317.2	5606.4	5292.3	4792.9	4358.4	4023.6	3788.3	3670.7
3620.9	35°	3950.2	4513.4	5717.1	5728.2	5172.0	4546.6	4060.9	3735.8	3531.0	3436.9
3655.5	37.5°	4087.2	4833.0	6069.9	5758.6	4961.7	4185.4	3691.5	3395.4	3226.6	3183.7
3706.7	40°	4257.4	5217.6	6339.7	5710.2	4650.3	3746.8	3287.5	3050.9	2955.4	2965.1
3775.9	42.5°	4478.8	5647.9	6529.3	5585.7	4217.3	3294.4	2933.3	2828.1	2873.8	2912.5
3879.7	45°	4766.6	6094.8	6646.9	5374.0	3727.5	2911.1	2724.3	2749.3	2783.8	2788.0
4047.1	47.5°	5134.6	6547.3	6724.4	5054.4	3228.0	2641.3	2591.5	2597.1	2590.1	2561.1
4297.5	50°	5594.0	6987.3	6793.6	4631.0	2803.2	2472.5	2406.1	2386.7	2291.3	2197.2
4631.0	52.5°	6117.0	7391.3	6822.6	4105.2	2472.5	2331.4	2223.5	2101.7	1923.2	1894.2
5050.2	55°	6698.1	7764.9	6747.9	3459.0	2194.4	2150.1	1986.9	1840.2	1820.8	1795.9
5602.3	57.5°	7392.7	8167.5	6595.7	2738.2	1909.4	1938.5	1779.3	1795.9	1761.3	1722.6
6312.1	60°	8152.3	8584.0	6328.7	2081.0	1614.7	1674.2	1725.4	1724.0	1714.3	1682.5
7060.6	62.5°	8835.8	8857.9	5802.9	1593.9	1355.9	1469.4	1609.1	1607.8	1599.5	1581.5
7842.4	65°	9242.6	8816.4	4925.7	1254.9	1142.9	1300.6	1451.4	1462.5	1463.9	1462.5
8430.4	67.5°	9170.6	8330.8	3721.9	999.0	967.1	1129.0	1295.1	1310.3	1321.4	1324.1
8505.1	70°	8357.1	7264.0	2426.9	797.0	810.8	978.2	1147.0	1162.2	1171.9	1183.0
7380.2	72.5°	6514.1	5340.8	1389.2	644.8	673.8	848.2	1000.4	1018.3	1023.9	1044.6
5136.0	75°	3969.6	3140.8	749.9	507.8	553.4	725.0	855.1	875.8	885.5	910.4
2522.3	77.5°	1887.3	1360.1	427.5	395.7	445.5	592.2	722.2	745.8	719.5	733.3
696.0	80°	637.8	505.0	269.8	301.6	340.4	462.1	578.4	601.9	546.5	543.8
231.1	82.5°	222.8	204.8	171.6	200.6	220.0	330.7	437.2	467.7	406.8	405.4
103.8	85°	87.2	83.0	95.5	109.3	131.4	203.4	287.8	303.0	250.4	202.0
30.4	87.5°	18.0	19.4	23.5	24.9	40.1	70.6	103.8	127.3	101.0	85.8
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

180°
2983.1
3095.2
3258.4
3446.6
3661.1
3906.0
4207.6
4535.5
4714.0
4621.3
4372.2
4119.0
3897.7
3686.0
3457.7
3214.1
2998.3
2948.5
2815.7
2583.2
2209.6
1903.9
1800.1
1715.7
1671.4
1574.6
1462.5
1326.9
1188.5
1052.9
913.2
722.2
538.2
386.0
199.2
78.9
0.0

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