

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: P954267

Luminaire Tested: **GALN-SB7C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45263 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

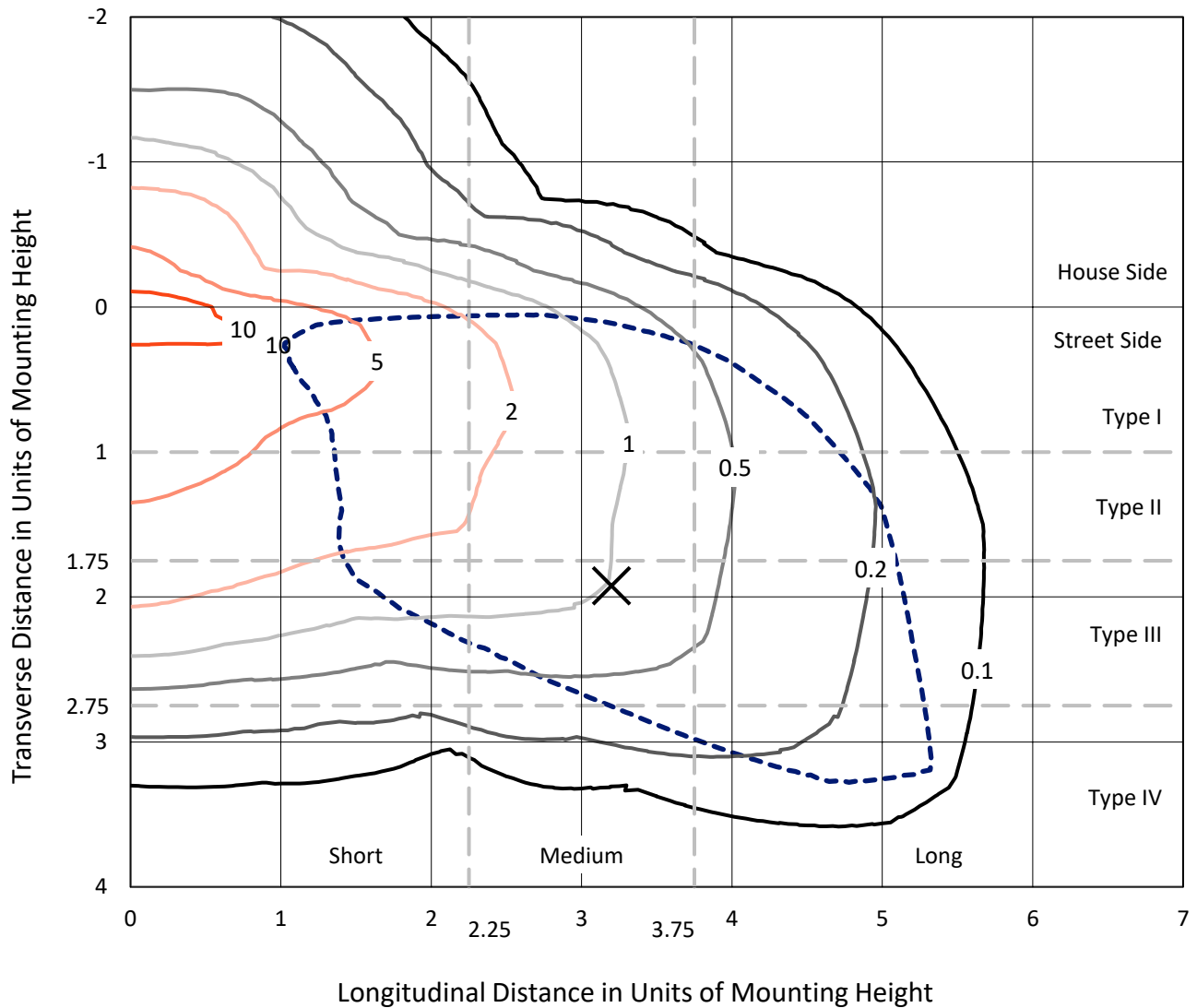
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

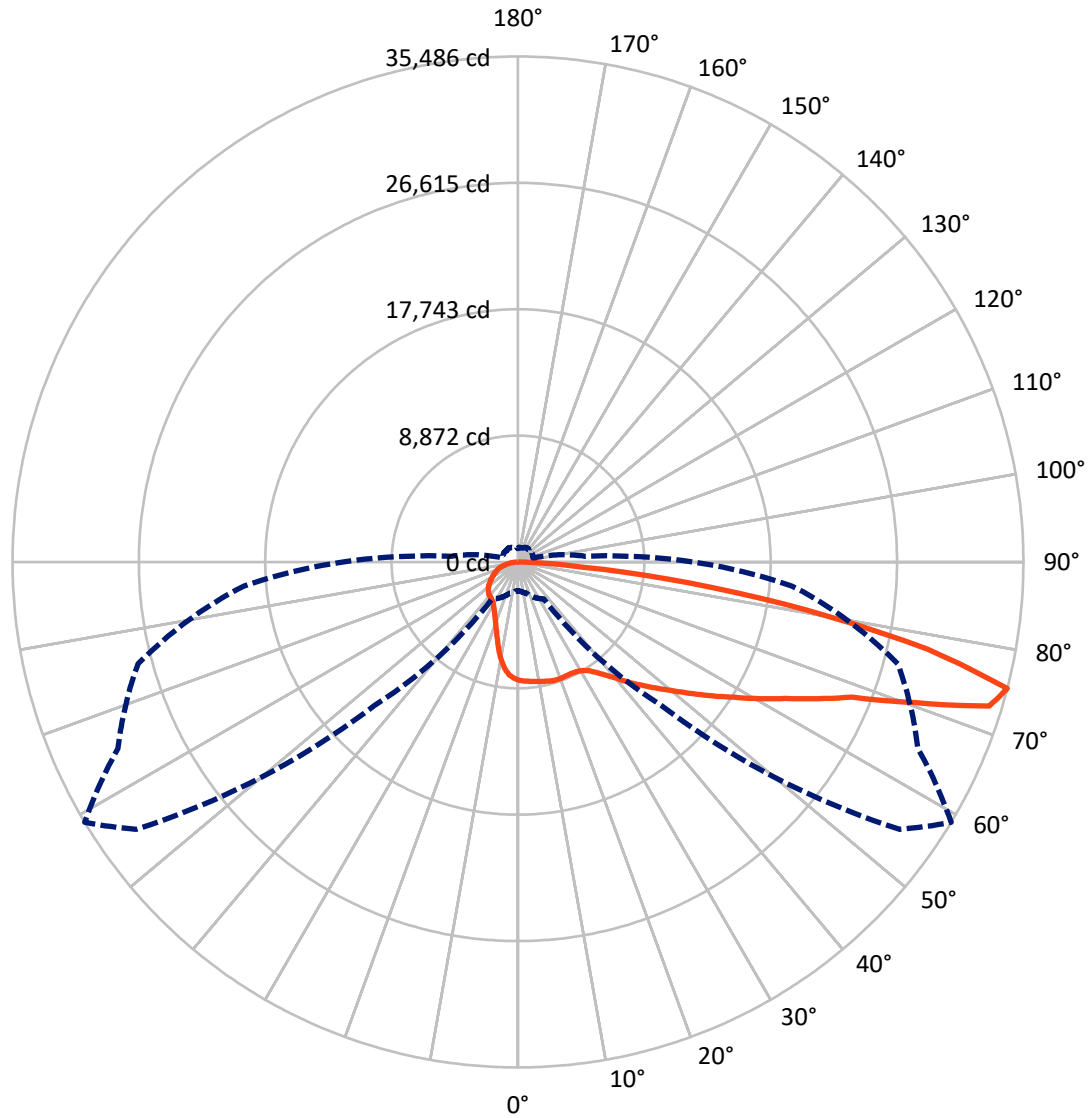
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8489.4	0.0	8489.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	36773.6	0.0	36773.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	45263.0	0.0	45263.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.9	1.6
10°-20°	1904.1	4.2
20°-30°	2892.2	6.4
30°-40°	4299.2	9.5
40°-50°	6393.6	14.1
50°-60°	8678.6	19.2
60°-70°	10595.1	23.4
70°-80°	8314.9	18.4
80°-90°	1440.4	3.2
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°	45263.0	100.0
0°-180°	45263.0	100.0



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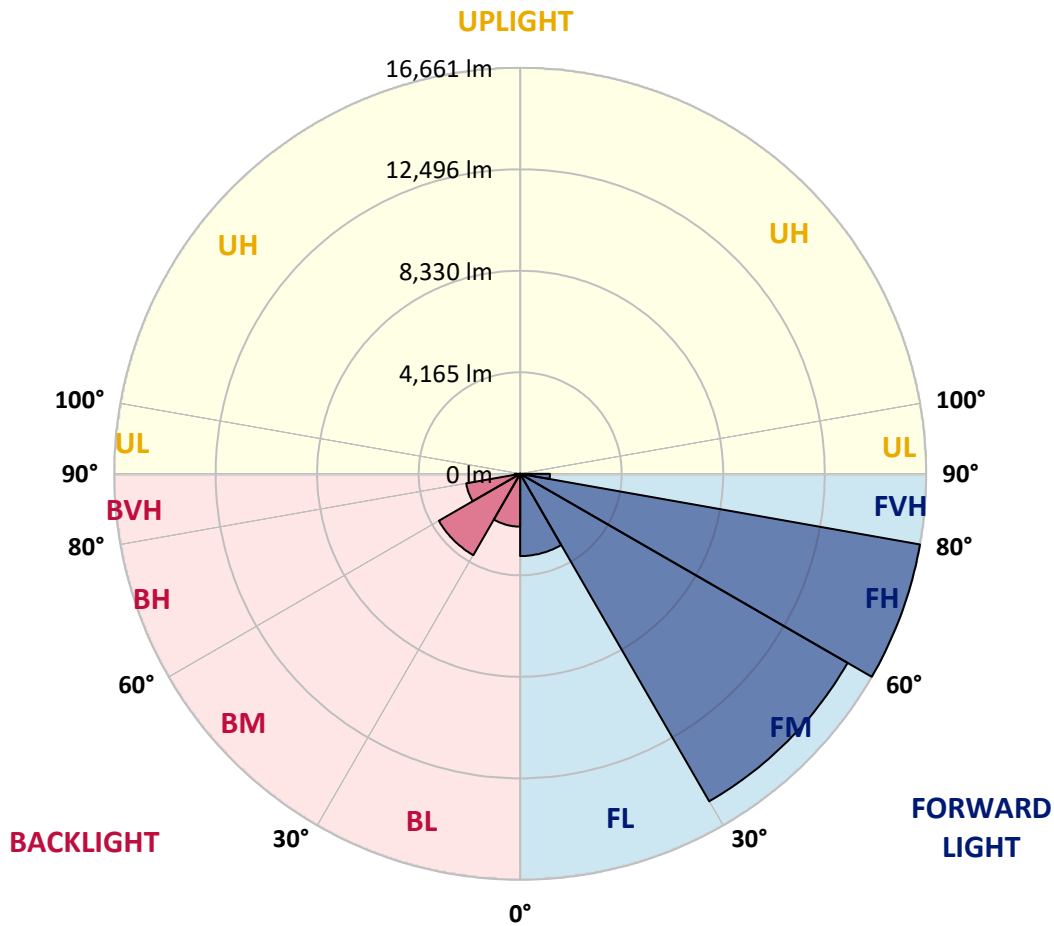
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3374.8	7.5			
FM (30°-60°)	15518.0	34.3			
FH (60°-80°)	16660.9	36.8			G5
FVH (80°-90°)	1219.9	2.7			G5
BL (0°-30°)	2166.4	4.8	B3/2500		
BM (30°-60°)	3853.3	8.5	B3/5000		
BH (60°-80°)	2249.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	220.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9
2.5°	8378.5	8349.3	8378.5	8366.4	8361.5	8351.8	8354.2	8371.2	8361.5	8373.7
5°	8322.5	8305.5	8334.7	8327.4	8359.1	8363.9	8395.6	8415.1	8427.2	8429.7
7.5°	8230.0	8213.0	8254.4	8288.4	8356.6	8376.1	8441.8	8473.5	8490.5	8519.8
10°	7891.6	7884.2	7986.5	8115.6	8276.3	8376.1	8475.9	8529.5	8556.3	8634.2
12.5°	7292.6	7302.3	7436.2	7684.6	8006.0	8327.4	8514.9	8592.8	8634.2	8731.6
15°	6720.4	6717.9	6864.0	7129.4	7579.9	8113.1	8534.4	8668.3	8738.9	8882.6
17.5°	6389.2	6379.5	6481.7	6683.8	7102.6	7784.4	8485.7	8709.7	8860.6	9040.8
20°	6328.3	6308.9	6362.4	6462.3	6759.3	7424.0	8359.1	8709.7	8958.0	9191.8
22.5°	6549.9	6518.3	6496.3	6484.2	6615.7	7127.0	8215.4	8680.5	9101.7	9408.5
25°	6995.5	6946.8	6834.8	6725.2	6686.3	6993.1	8088.8	8673.2	9316.0	9700.7
27.5°	7716.2	7655.4	7428.9	7165.9	6929.8	7061.2	8032.8	8717.0	9552.2	10009.9
30°	8609.9	8544.1	8259.2	7855.0	7431.4	7314.5	8103.4	8846.0	9854.1	10421.4
32.5°	9410.9	9337.9	9094.4	8682.9	8110.7	7752.8	8327.4	9092.0	10328.9	10993.6
35°	10121.9	10036.7	9817.6	9437.7	8943.4	8368.8	8731.6	9527.8	11003.4	11923.8
37.5°	10818.3	10718.5	10479.9	10078.1	9732.3	9189.4	9289.2	10087.8	11899.4	13053.6
40°	11597.5	11453.8	11164.1	10767.2	10431.2	10151.2	10022.1	10774.5	12810.1	14314.9
42.5°	12352.3	12216.0	11870.2	11531.7	11110.5	11030.2	10871.9	11578.0	13806.0	15700.3
45°	13165.6	13002.4	12583.6	12155.1	11889.7	11614.5	11694.9	12381.5	14782.4	17112.6
47.5°	13927.7	13745.1	13250.8	12773.6	12627.5	12106.4	12449.7	13265.4	15797.7	18544.3
50°	14339.2	14159.0	13747.5	13316.5	13202.1	12712.7	13267.8	14236.9	16861.8	19971.2
52.5°	14682.5	14487.7	13949.6	13711.0	13676.9	13372.5	14275.9	15347.3	17925.8	21232.4
55°	15047.8	14831.1	14144.4	13930.1	14086.0	14112.8	15471.4	16606.1	19050.8	22462.1
57.5°	15469.0	15193.9	14331.9	14115.2	14485.3	14979.6	16844.7	17911.2	20156.2	23601.6
60°	15865.9	15588.3	14692.3	14409.8	14916.3	15985.2	18420.1	19491.5	21407.8	24617.0
62.5°	15943.8	15714.9	14979.6	14977.1	15500.7	17158.8	20285.3	21086.3	22501.0	25620.2
65°	14594.9	14451.2	14015.4	14955.2	16338.3	18848.7	22362.2	23126.8	23891.4	26496.7
67.5°	11108.1	11127.6	11095.9	12909.9	15661.4	21276.3	25369.4	25310.9	25608.0	27480.4
70°	5079.2	5193.7	5938.8	8911.8	12547.1	21556.3	30341.4	29584.2	27762.9	28753.9
72.5°	2744.1	2831.8	3136.2	4317.1	7543.4	19165.2	34057.1	34595.2	30628.8	29611.0
75°	2013.7	2062.4	2274.2	2744.1	3167.8	14244.2	32725.2	35486.4	30986.7	27611.9
77.5°	1507.2	1529.1	1702.0	2174.4	1621.7	7509.3	26148.5	29389.4	26525.9	22686.1
80°	1093.3	1117.6	1246.7	1631.4	1137.1	2746.6	17955.0	20628.6	18166.9	14460.9
82.5°	754.8	764.6	820.6	1110.3	793.8	1066.5	10187.7	12096.6	10141.4	5074.4
85°	455.3	467.5	491.9	647.7	450.5	506.5	4397.5	4548.4	3031.5	1212.6
87.5°	187.5	199.7	219.1	272.7	177.7	141.2	725.6	910.7	567.3	355.5
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°
8307.9	0°	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9	8307.9
8332.3	2.5°	8320.1	8303.1	8256.8	8193.5	8135.0	8062.0	8030.3	8003.6	7979.2	7932.9
8398.0	5°	8371.2	8325.0	8200.8	8040.1	7857.5	7657.8	7463.0	7329.1	7214.6	7129.4
8473.5	7.5°	8449.1	8361.5	8135.0	7806.3	7387.5	6959.0	6571.8	6296.7	6089.7	6014.2
8580.6	10°	8529.5	8424.8	8030.3	7450.8	6727.7	6067.8	5554.0	5271.6	5106.0	5052.4
8707.2	12.5°	8624.5	8471.1	7867.2	6956.5	5989.9	5266.7	4818.7	4653.1	4567.9	4538.7
8863.1	15°	8763.3	8510.0	7621.3	6338.1	5286.2	4682.3	4392.6	4278.1	4234.3	4231.9
9023.8	17.5°	8868.0	8517.3	7239.0	5675.8	4745.6	4329.3	4090.7	4046.8	4076.0	4119.9
9182.1	20°	8984.8	8451.6	6737.4	5071.9	4365.8	4020.0	3920.2	3949.4	4020.0	4083.3
9391.5	22.5°	9067.6	8332.3	6131.1	4602.0	4037.1	3842.3	3837.4	3898.3	3937.3	3968.9
9637.4	25°	9140.7	8130.2	5488.3	4207.5	3766.8	3735.2	3788.7	3769.2	3742.5	3769.2
9883.3	27.5°	9194.2	7811.2	4913.7	3861.8	3576.9	3662.1	3630.5	3586.6	3584.2	3598.8
10173.1	30°	9177.2	7385.1	4441.3	3533.1	3443.0	3525.8	3450.3	3443.0	3435.7	3443.0
10608.9	32.5°	9177.2	6900.5	4078.5	3306.6	3357.7	3326.1	3318.8	3301.7	3272.5	3270.1
11200.6	35°	9228.3	6416.0	3766.8	3184.9	3287.1	3211.7	3216.5	3175.1	3114.3	3085.0
11984.6	37.5°	9333.0	6026.4	3457.6	3126.4	3163.0	3160.5	3141.0	3070.4	2963.3	2870.8
12963.5	40°	9586.3	5912.0	3245.7	3099.6	3104.5	3133.7	3082.6	2946.2	2702.8	2551.8
13956.9	42.5°	9983.1	6104.3	3199.5	3033.9	3065.6	3094.8	2994.9	2678.4	2505.5	2415.4
14999.1	45°	10487.2	6440.3	3299.3	2938.9	2973.0	3024.2	2727.1	2576.1	2498.2	2500.7
16031.5	47.5°	11125.1	6793.4	3484.4	2856.2	2839.1	2868.3	2549.4	2456.8	2349.7	2376.5
17022.5	50°	11862.9	7151.3	3659.7	2744.1	2690.6	2595.6	2434.9	2347.3	2210.9	2147.6
17979.4	52.5°	12661.5	7497.1	3730.3	2607.8	2529.9	2420.3	2357.0	2249.9	2084.3	1979.6
18882.7	55°	13418.8	7811.2	3652.4	2444.7	2369.2	2283.9	2274.2	2208.5	2030.7	1884.6
19686.3	57.5°	14134.7	8074.2	3457.6	2279.1	2206.0	2154.9	2220.6	2189.0	1965.0	1777.5
20446.0	60°	14741.0	8254.4	3175.1	2111.1	2059.9	2033.2	2133.0	2123.2	1872.4	1663.0
21127.7	62.5°	15223.1	8325.0	2863.5	1950.4	1938.2	1889.5	2011.2	2011.2	1755.6	1551.0
21726.7	65°	15600.5	8256.8	2546.9	1792.1	1816.4	1743.4	1862.7	1848.1	1631.4	1451.2
22415.8	67.5°	15934.1	8032.8	2196.3	1636.3	1692.3	1599.7	1706.9	1672.8	1495.0	1351.4
23012.4	70°	16082.6	7511.7	1797.0	1480.4	1548.6	1458.5	1551.0	1487.7	1341.6	1244.2
22357.4	72.5°	14889.5	6243.1	1414.7	1317.3	1375.7	1302.7	1383.0	1310.0	1176.1	1132.2
19306.4	75°	12318.2	4684.8	1088.4	1139.5	1183.4	1127.4	1180.9	1127.4	1005.6	1037.3
14261.3	77.5°	8945.9	3163.0	832.7	952.1	971.5	942.3	988.6	927.7	818.1	810.8
7107.5	80°	4448.6	1853.0	652.6	752.4	745.1	725.6	779.2	750.0	657.4	696.4
1918.7	82.5°	1288.1	793.8	474.8	528.4	513.8	518.6	557.6	572.2	857.1	849.8
596.6	85°	404.2	311.7	284.9	294.6	280.0	287.3	328.7	652.6	603.9	353.1
185.1	87.5°	104.7	107.1	70.6	75.5	77.9	92.5	104.7	396.9	189.9	124.2
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>
8307.9
7911.0
7058.8
5882.7
4969.7
4546.0
4241.6
4136.9
4105.3
3986.0
3786.3
3623.2
3469.8
3301.7
3114.3
2902.4
2571.3
2415.4
2512.8
2444.7
2164.6
1977.1
1884.6
1767.7
1655.7
1543.7
1441.5
1341.6
1224.8
1095.7
947.2
774.3
689.1
869.3
382.3
131.5
0.0

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