

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: P956797

Luminaire Tested: **GALN-SB9B-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

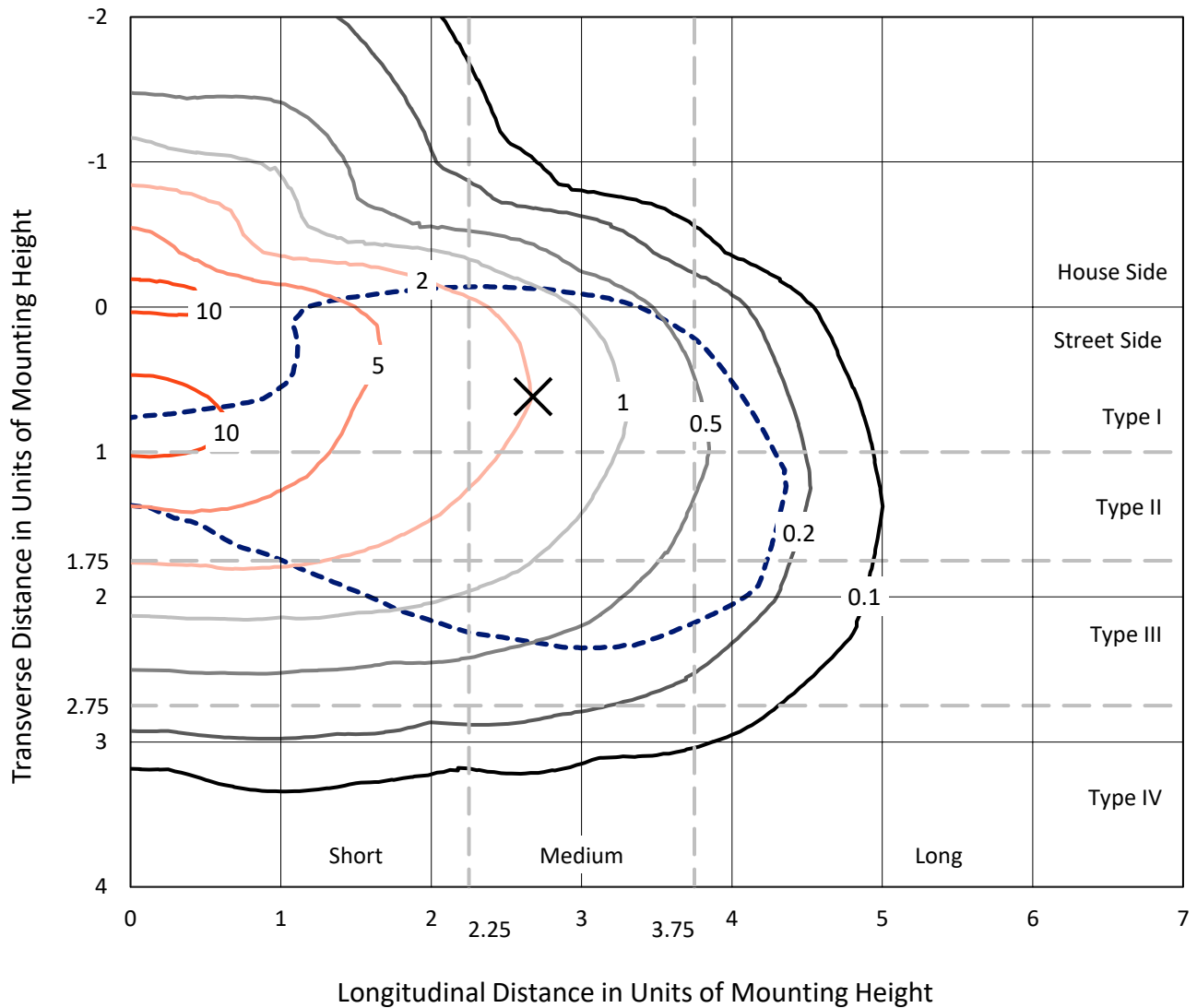
Lumens per Lamp: N/A  
Luminaire Lumens: 47312 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

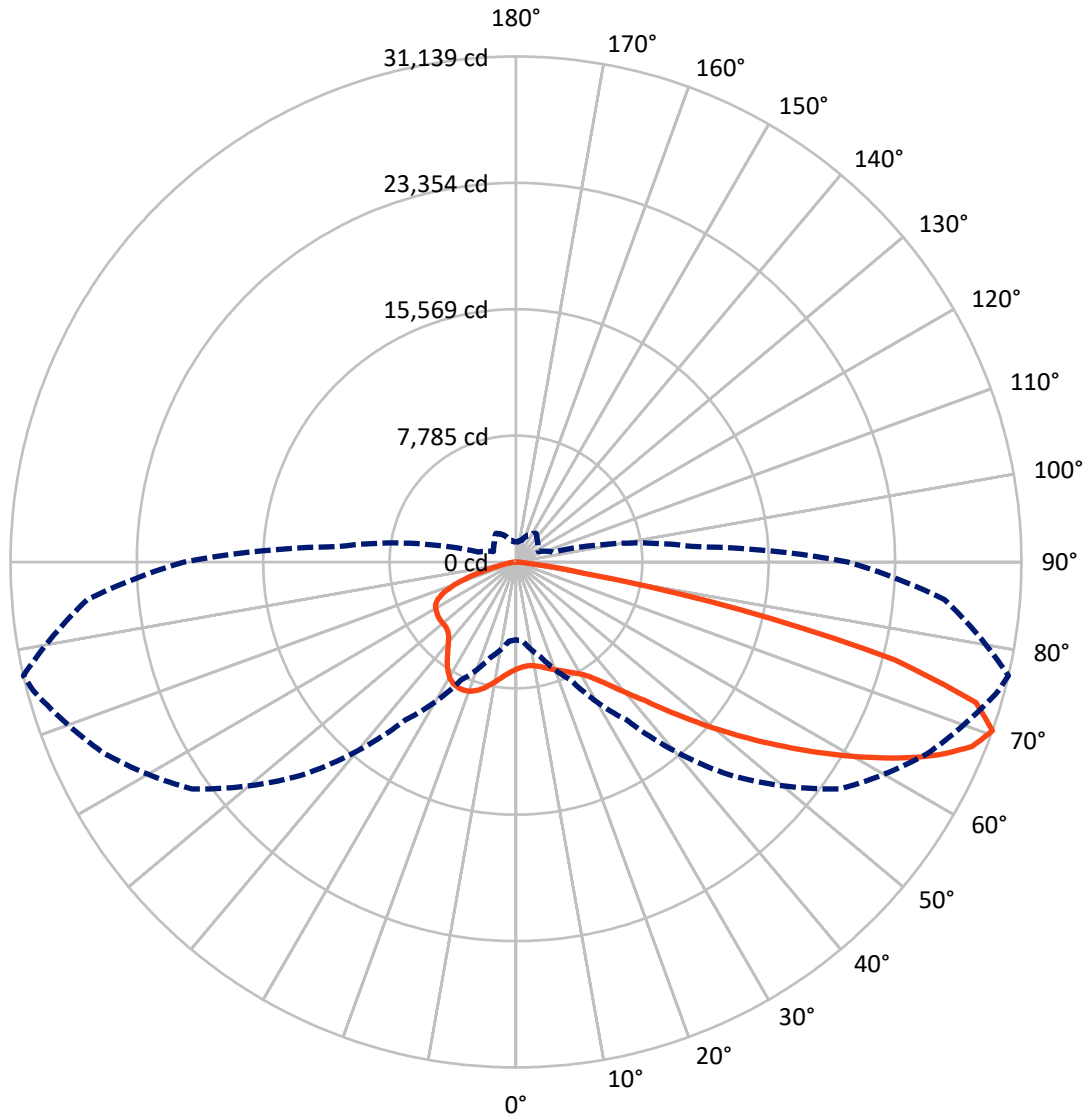
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10360.6	0.0	10360.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	36951.4	0.0	36951.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	47312.0	0.0	47312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.5	1.3
10°-20°	1816.8	3.8
20°-30°	3107.0	6.6
30°-40°	4996.4	10.6
40°-50°	7800.7	16.5
50°-60°	10419.8	22.0
60°-70°	11105.9	23.5
70°-80°	6836.8	14.5
80°-90°	599.1	1.3
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°	47312.0	100.0
0°-180°	47312.0	100.0

**Coefficient of Utilization**



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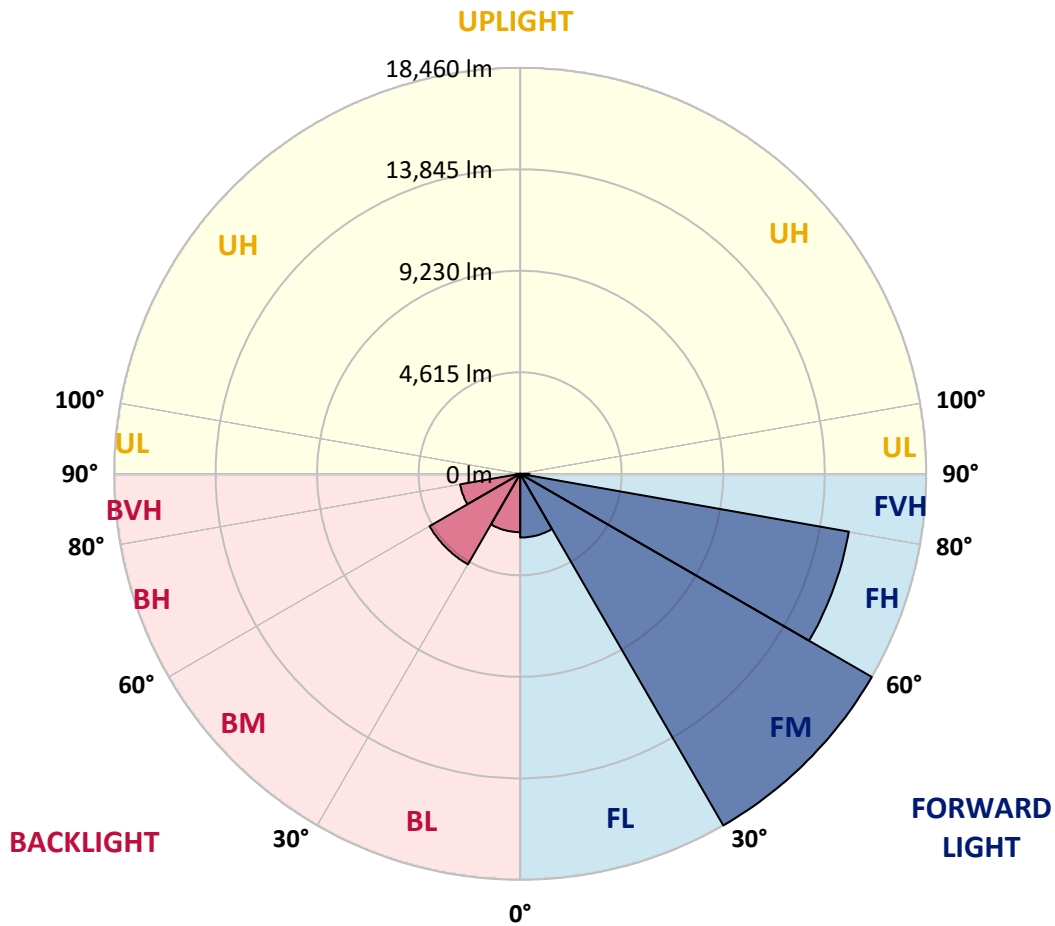
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2898.6	6.1			
FM (30°-60°)	18460.1	39.0			
FH (60°-80°)	15173.8	32.1			G5
FVH (80°-90°)	418.9	0.9			G3/500
BL (0°-30°)	2654.7	5.6	B4/5000		
BM (30°-60°)	4756.8	10.1	B3/5000		
BH (60°-80°)	2768.9	5.9	B4/5000		G4/5000
BVH (80°-90°)	180.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5
2.5°	6084.3	6081.9	6113.4	6123.1	6181.3	6222.5	6300.0	6382.4	6489.0	6501.1
5°	5733.0	5733.0	5769.3	5808.1	5883.2	5965.6	6084.3	6227.3	6411.5	6440.5
7.5°	5435.0	5454.3	5485.8	5561.0	5648.2	5766.9	5948.6	6152.2	6394.5	6440.5
10°	5195.1	5216.9	5255.6	5316.2	5447.1	5611.8	5849.3	6111.0	6435.7	6508.4
12.5°	5120.0	5141.8	5163.6	5209.6	5330.8	5524.6	5808.1	6130.4	6535.0	6607.7
15°	5294.4	5321.1	5304.1	5292.0	5355.0	5531.9	5827.5	6200.6	6658.6	6762.8
17.5°	5696.6	5706.3	5667.6	5553.7	5544.0	5638.5	5919.6	6297.6	6813.7	6927.6
20°	6346.0	6329.1	6249.1	6023.8	5895.3	5876.0	6077.1	6443.0	6973.6	7094.8
22.5°	7228.0	7208.6	7048.7	6692.5	6406.6	6217.6	6304.8	6632.0	7152.9	7288.6
25°	8328.1	8301.5	8066.4	7581.8	7138.4	6670.7	6615.0	6881.5	7373.4	7499.4
27.5°	9612.3	9590.5	9336.1	8696.4	8056.7	7291.0	7000.3	7174.7	7603.6	7746.6
30°	10993.5	11056.5	10605.8	9917.6	9108.3	8100.3	7518.8	7535.8	7901.6	8030.1
32.5°	12617.0	12726.0	12183.2	11310.9	10206.0	8979.9	8173.0	8039.8	8335.4	8442.0
35°	14225.9	14349.4	13898.8	12934.4	11662.3	10017.0	8856.3	8618.9	8912.1	9028.4
37.5°	15616.7	15781.5	15548.9	14710.5	13220.3	11267.3	9748.0	9299.8	9622.0	9767.4
40°	16714.4	16966.4	16949.4	16426.0	15057.0	12784.1	10879.6	10140.6	10504.0	10661.5
42.5°	17606.1	17824.1	18013.1	17986.5	16973.6	14506.9	12209.9	11233.4	11509.6	11691.3
45°	18221.5	18454.1	18861.2	19299.8	18817.6	16350.9	13734.0	12529.7	12781.7	13055.5
47.5°	18771.6	19035.7	19563.9	20259.3	20382.9	18202.1	15403.5	14039.3	14269.5	14553.0
50°	18820.0	19047.8	19866.8	20853.0	21495.1	19980.7	17196.6	15733.0	15948.7	16251.6
52.5°	17649.7	18008.3	19437.9	20836.0	22006.4	21468.4	18977.5	17494.6	17736.9	18100.4
55°	13700.1	14225.9	18180.3	20186.6	21824.6	22430.4	20671.3	19367.6	19677.8	20058.2
57.5°	11800.4	12030.6	14431.8	19004.2	20995.9	22680.0	22100.9	21260.1	21759.2	22176.0
60°	10605.8	10797.2	12217.1	17165.1	19905.6	22285.0	23205.8	23024.1	23886.7	24383.4
62.5°	9326.4	9508.1	10799.6	14332.5	18509.9	21628.4	23903.6	24652.4	26067.4	26610.2
65°	8056.7	8211.8	9450.0	12042.7	16736.2	20971.7	24264.7	26060.2	28085.9	28648.0
67.5°	6641.6	6770.1	7940.4	10160.0	14579.6	20072.8	24444.0	27167.5	29842.6	30324.8
70°	4792.8	4892.2	6101.3	8034.9	11873.1	18526.8	24371.3	27952.6	30753.7	31138.9
72.5°	2265.6	2355.2	3775.2	5216.9	8386.3	15517.4	22900.5	27329.9	29828.1	29636.6
75°	1209.1	1286.7	2168.7	2861.7	4429.4	10637.3	18740.1	23542.6	25047.3	24116.9
77.5°	819.0	879.6	1342.4	1718.0	2023.3	5049.7	12045.1	16300.0	15682.1	14145.9
80°	649.4	712.4	1100.1	1163.1	978.9	1824.6	4977.0	7545.5	5420.4	4334.9
82.5°	499.2	569.4	925.6	843.2	533.1	748.7	1449.0	2386.7	1388.4	1056.5
85°	305.3	380.4	726.9	537.9	300.5	341.7	491.9	663.9	424.0	353.8
87.5°	155.1	218.1	368.3	196.3	135.7	80.0	130.8	130.8	111.5	96.9
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°
6600.5	0°	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5	6600.5
6566.5	2.5°	6624.7	6673.1	6755.5	6833.1	6893.6	6951.8	7010.0	7041.5	7051.1	7089.9
6602.9	5°	6702.2	6791.9	6951.8	7102.0	7196.5	7254.7	7295.9	7320.1	7325.0	7337.1
6702.2	7.5°	6845.2	6988.1	7211.1	7361.3	7431.6	7426.7	7409.8	7349.2	7325.0	7303.1
6847.6	10°	7046.3	7235.3	7509.1	7613.3	7569.7	7453.4	7303.1	7126.3	7043.9	6963.9
7046.3	12.5°	7295.9	7535.8	7804.7	7799.9	7584.2	7286.2	6937.3	6665.9	6493.8	6370.3
7291.0	15°	7598.8	7875.0	8081.0	7916.2	7443.7	6908.2	6396.9	6043.1	5888.1	5752.4
7538.2	17.5°	7911.3	8207.0	8301.5	7879.8	7089.9	6348.5	5769.3	5490.7	5338.0	5265.3
7804.7	20°	8216.6	8509.8	8432.3	7671.5	6552.0	5713.6	5197.5	5044.8	5013.3	5030.3
8064.0	22.5°	8538.9	8800.6	8459.0	7269.2	5866.3	5064.2	4780.7	4785.6	4855.8	4906.7
8335.4	25°	8868.5	9045.3	8388.7	6687.7	5129.6	4586.9	4516.6	4594.1	4732.3	4831.6
8640.7	27.5°	9185.9	9263.4	8236.0	5968.0	4497.2	4245.2	4257.3	4417.3	4625.6	4763.8
9011.4	30°	9544.5	9457.3	7942.8	5158.7	4058.7	3952.0	4053.8	4240.4	4448.8	4572.3
9479.1	32.5°	9949.1	9624.5	7477.6	4410.0	3748.5	3717.0	3884.2	4005.3	4097.4	4133.8
10099.4	35°	10453.1	9859.5	6881.5	3884.2	3469.8	3545.0	3704.9	3644.3	3608.0	3588.6
10932.9	37.5°	11107.4	10176.9	6183.7	3542.5	3244.5	3421.4	3486.8	3297.8	3154.8	3084.6
11943.3	40°	11894.9	10642.1	5512.5	3278.4	3101.5	3314.8	3200.9	2973.1	2791.4	2692.0
13079.8	42.5°	12769.6	11129.2	4947.9	3079.7	3021.6	3227.5	2990.1	2718.7	2425.5	2394.0
14434.3	45°	13687.9	11630.8	4562.6	2927.1	2982.8	3152.4	2868.9	2430.3	2222.0	2350.4
15793.6	47.5°	14606.3	12091.1	4330.0	2813.2	2963.4	3067.6	2762.3	2270.4	2122.6	2309.2
17249.9	50°	15628.8	12503.1	4225.8	2730.8	2941.6	3033.7	2602.4	2229.2	2018.4	2142.0
18757.0	52.5°	16644.1	12822.9	4148.3	2648.4	2910.1	3007.0	2524.8	2180.8	1892.4	1899.7
20273.9	55°	17656.9	13031.3	4063.5	2539.4	2839.8	2948.9	2517.6	2127.5	1797.9	1764.0
21877.9	57.5°	18737.6	13150.0	3959.3	2418.2	2718.7	2801.1	2510.3	2086.3	1768.8	1713.1
23518.4	60°	19837.7	13324.5	3823.6	2270.4	2556.3	2624.2	2493.3	2071.7	1751.9	1657.4
25064.3	62.5°	20823.9	13385.1	3661.3	2129.9	2348.0	2449.7	2457.0	2059.6	1705.8	1543.5
26348.5	65°	21470.9	13123.4	3377.8	1970.0	2122.6	2270.4	2386.7	2018.4	1623.5	1461.1
26983.4	67.5°	21444.2	12377.1	2934.3	1764.0	1904.5	2071.7	2285.0	1948.2	1524.1	1359.3
26503.6	70°	20445.9	10903.8	2372.2	1524.1	1664.7	1858.5	2154.1	1844.0	1405.4	1247.9
23566.8	72.5°	17535.8	8534.1	1722.8	1243.0	1386.0	1638.0	1984.5	1718.0	1284.2	1148.5
17417.1	75°	12527.3	5401.0	1167.9	954.7	1078.3	1388.4	1773.7	1570.2	1172.8	1153.4
8723.1	77.5°	6399.3	2580.6	773.0	697.8	751.2	1095.2	1490.2	1403.0	1189.7	952.3
2481.2	80°	2081.4	952.3	487.0	474.9	499.2	729.3	1153.4	1151.0	901.4	647.0
600.9	82.5°	663.9	409.5	317.4	305.3	293.2	458.0	804.5	911.1	608.2	409.5
215.7	85°	264.1	244.7	186.6	172.0	123.6	215.7	421.6	605.8	453.1	295.6
55.7	87.5°	96.9	96.9	50.9	36.3	26.7	72.7	113.9	181.7	259.3	152.7
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>
6600.5
7111.7
7356.5
7308.0
6939.7
6341.2
5737.8
5287.1
5023.0
4918.8
4858.3
4797.7
4601.4
4153.2
3608.0
3101.5
2699.3
2425.5
2418.2
2396.4
2234.1
1950.6
1788.2
1720.4
1664.7
1543.5
1461.1
1366.6
1262.4
1141.3
1088.0
848.1
571.8
407.1
302.9
150.2
0.0

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