

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: P954298

Luminaire Tested: **GALN-SB7C-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954298  
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-SB7C-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

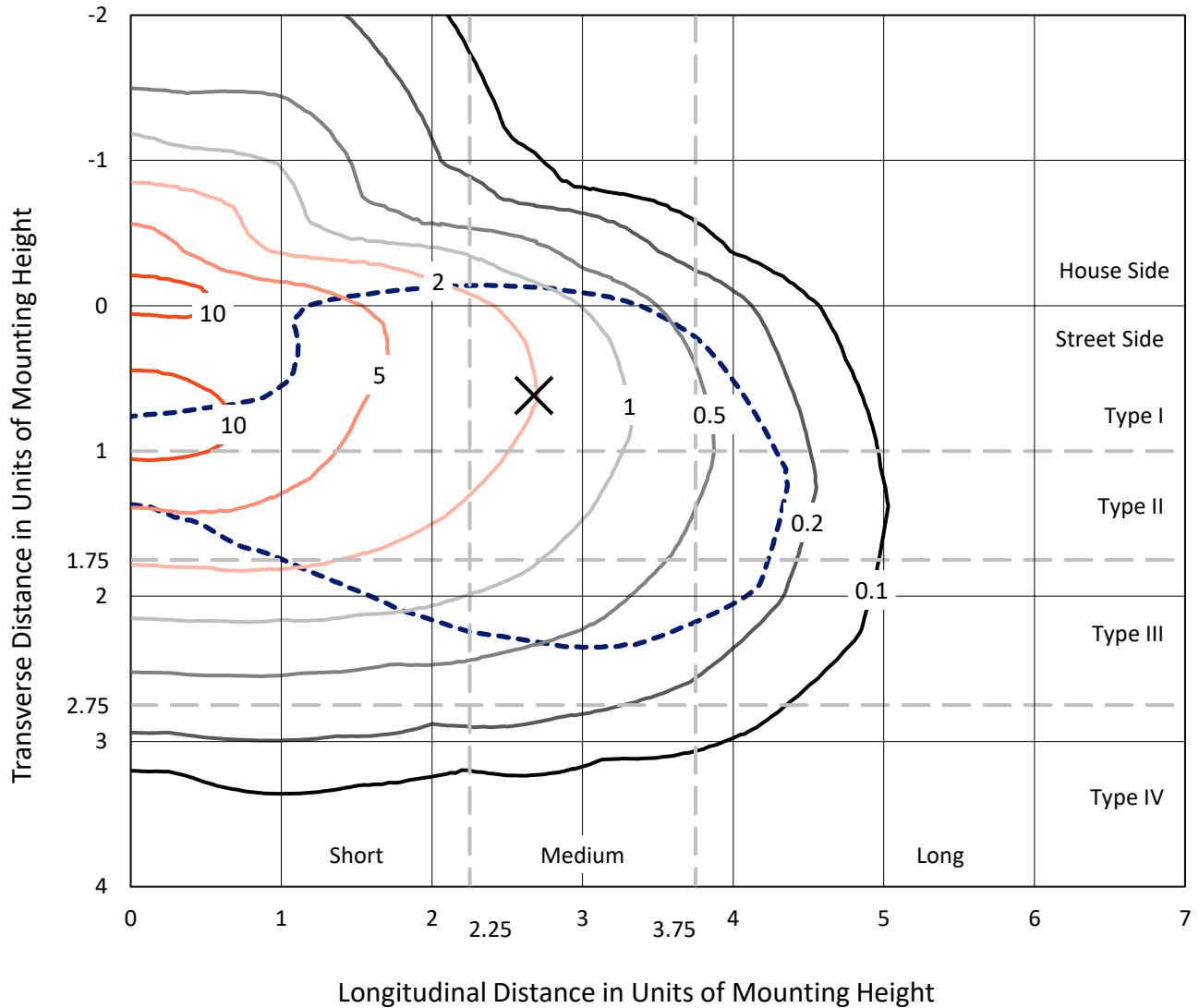
Lumens per Lamp: N/A  
Luminaire Lumens: 49130 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

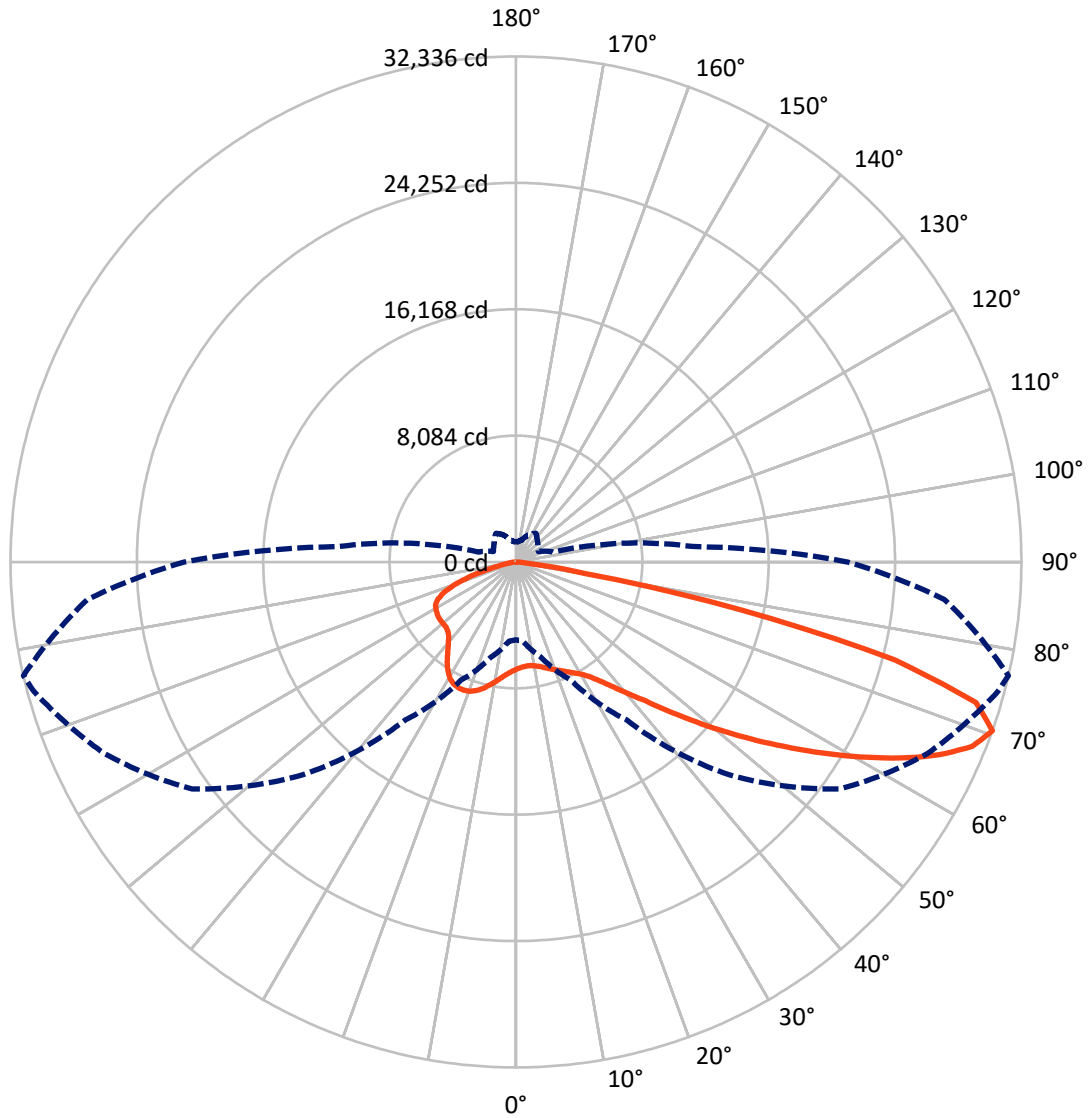
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	10758.7	0.0	10758.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	38371.3	0.0	38371.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	49130.0	0.0	49130.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.7	1.3
10°-20°	1886.6	3.8
20°-30°	3226.4	6.6
30°-40°	5188.4	10.6
40°-50°	8100.4	16.5
50°-60°	10820.2	22.0
60°-70°	11532.7	23.5
70°-80°	7099.5	14.5
80°-90°	622.1	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°	49130.0	100.0
0°-180°	49130.0	100.0



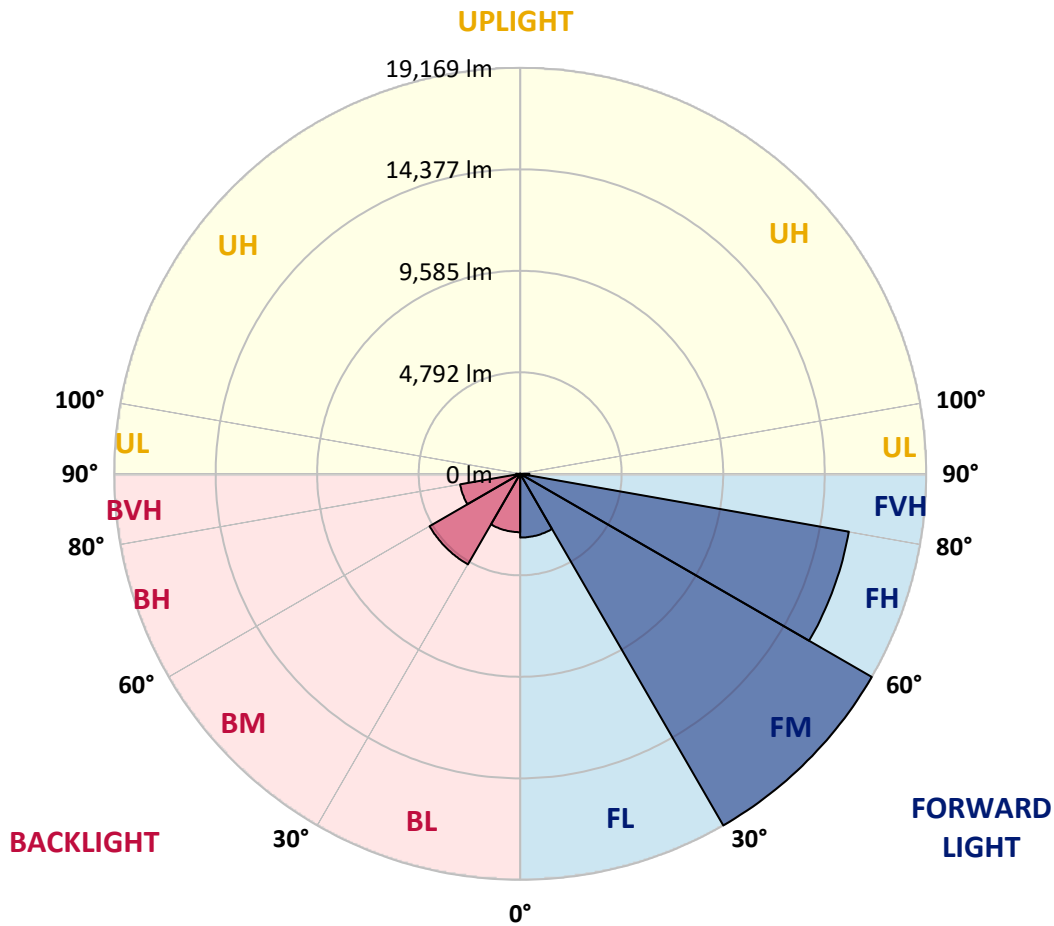
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3010.0	6.1			
FM (30°-60°)	19169.5	39.0			
FH (60°-80°)	15756.8	32.1			G5
FVH (80°-90°)	435.0	0.9			G3/500
BL (0°-30°)	2756.7	5.6	B4/5000		
BM (30°-60°)	4939.6	10.1	B3/5000		
BH (60°-80°)	2875.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	187.1	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°	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1
2.5°	6318.1	6315.6	6348.3	6358.4	6418.8	6461.6	6542.1	6627.6	6738.3	6750.9
5°	5953.3	5953.3	5991.0	6031.3	6109.3	6194.8	6318.1	6466.6	6657.8	6688.0
7.5°	5643.8	5663.9	5696.6	5774.6	5865.2	5988.5	6177.2	6388.6	6640.2	6688.0
10°	5394.7	5417.3	5457.6	5520.5	5656.4	5827.5	6074.1	6345.8	6683.0	6758.5
12.5°	5316.7	5339.3	5362.0	5409.8	5535.6	5736.9	6031.3	6365.9	6786.1	6861.6
15°	5497.9	5525.5	5507.9	5495.3	5560.8	5744.4	6051.4	6438.9	6914.5	7022.7
17.5°	5915.5	5925.6	5885.4	5767.1	5757.0	5855.2	6147.0	6539.6	7075.5	7193.8
20°	6589.9	6572.3	6489.2	6255.2	6121.9	6101.7	6310.6	6690.5	7241.6	7367.4
22.5°	7505.8	7485.6	7319.6	6949.7	6652.8	6456.5	6547.1	6886.8	7427.8	7568.7
25°	8648.1	8620.4	8376.4	7873.1	7412.7	6927.1	6869.2	7146.0	7656.7	7787.6
27.5°	9981.7	9959.1	9694.9	9030.6	8366.3	7571.2	7269.3	7450.4	7895.8	8044.2
30°	11415.9	11481.3	11013.3	10298.7	9458.3	8411.6	7807.7	7825.3	8205.3	8338.6
32.5°	13101.8	13215.0	12651.4	11745.5	10598.2	9325.0	8487.1	8348.7	8655.7	8766.4
35°	14772.5	14900.8	14432.8	13431.4	12110.4	10401.9	9196.6	8950.1	9254.5	9375.3
37.5°	16216.8	16387.9	16146.3	15275.7	13728.3	11700.3	10122.6	9657.1	9991.8	10142.7
40°	17356.6	17618.3	17600.7	17057.2	15635.6	13275.4	11297.7	10530.2	10907.7	11071.2
42.5°	18282.6	18509.0	18705.3	18677.6	17625.9	15064.4	12679.0	11665.0	11951.9	12140.6
45°	18921.7	19163.3	19586.0	20041.4	19540.7	16979.2	14261.7	13011.2	13272.9	13557.2
47.5°	19492.9	19767.1	20315.7	21037.8	21166.1	18901.6	15995.4	14578.8	14817.8	15112.2
50°	19543.2	19779.7	20630.2	21654.3	22321.1	20748.4	17857.4	16337.6	16561.5	16876.0
52.5°	18327.9	18700.3	20184.8	21636.7	22852.0	22293.4	19706.7	18166.8	18418.5	18795.9
55°	14226.5	14772.5	18878.9	20962.3	22663.3	23292.3	21465.6	20111.9	20433.9	20829.0
57.5°	12253.8	12492.8	14986.4	19734.4	21802.7	23551.5	22950.1	22077.0	22595.3	23028.1
60°	11013.3	11212.1	12686.6	17824.6	20670.4	23141.3	24097.5	23908.8	24804.5	25320.4
62.5°	9684.8	9873.5	11214.6	14883.2	19221.1	22459.5	24822.1	25599.6	27069.1	27632.7
65°	8366.3	8527.3	9813.1	12505.4	17379.3	21777.6	25197.1	27061.6	29165.1	29748.8
67.5°	6896.9	7030.2	8245.5	10550.4	15139.9	20844.1	25383.3	28211.4	30989.3	31490.0
70°	4977.0	5080.2	6335.7	8343.7	12329.3	19238.7	25307.8	29026.7	31935.4	32335.5
72.5°	2352.6	2445.7	3920.2	5417.3	8708.5	16113.6	23780.4	28380.0	30974.2	30775.4
75°	1255.6	1336.1	2252.0	2971.6	4599.6	11046.0	19460.2	24447.2	26009.8	25043.6
77.5°	850.5	913.4	1394.0	1784.0	2101.0	5243.7	12507.9	16926.4	16284.7	14689.5
80°	674.3	739.8	1142.3	1207.8	1016.5	1894.7	5168.2	7835.4	5628.7	4501.5
82.5°	518.3	591.3	961.2	875.6	553.6	777.5	1504.7	2478.4	1441.8	1097.1
85°	317.0	395.0	754.9	558.6	312.0	354.8	510.8	689.4	440.3	367.4
87.5°	161.0	226.5	382.5	203.8	140.9	83.0	135.9	135.9	115.7	100.6
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°
6854.1	0°	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1	6854.1
6818.9	2.5°	6879.2	6929.6	7015.1	7095.6	7158.5	7218.9	7279.3	7312.0	7322.1	7362.4
6856.6	5°	6959.8	7052.9	7218.9	7374.9	7473.1	7533.5	7576.2	7601.4	7606.4	7619.0
6959.8	7.5°	7108.2	7256.7	7488.2	7644.2	7717.1	7712.1	7694.5	7631.6	7606.4	7583.8
7110.7	10°	7317.1	7513.3	7797.7	7905.8	7860.6	7739.8	7583.8	7400.1	7314.5	7231.5
7317.1	12.5°	7576.2	7825.3	8104.6	8099.6	7875.7	7566.2	7203.8	6922.0	6743.4	6615.0
7571.2	15°	7890.8	8177.6	8391.5	8220.4	7729.7	7173.6	6642.7	6275.4	6114.3	5973.4
7827.8	17.5°	8215.3	8522.3	8620.4	8182.6	7362.4	6592.4	5991.0	5701.7	5543.2	5467.7
8104.6	20°	8532.4	8836.8	8756.3	7966.2	6803.8	5933.2	5397.2	5238.7	5206.0	5223.6
8373.9	22.5°	8867.0	9138.8	8784.0	7548.5	6091.7	5258.8	4964.4	4969.5	5042.4	5095.3
8655.7	25°	9209.2	9392.9	8711.0	6944.7	5326.8	4763.1	4690.2	4770.7	4914.1	5017.3
8972.7	27.5°	9538.9	9619.4	8552.5	6197.4	4670.0	4408.4	4420.9	4587.0	4803.4	4946.8
9357.7	30°	9911.2	9820.7	8248.0	5357.0	4214.6	4103.9	4209.6	4403.3	4619.7	4748.0
9843.3	32.5°	10331.4	9994.3	7764.9	4579.5	3892.5	3859.8	4033.4	4159.3	4254.9	4292.6
10487.5	35°	10854.8	10238.3	7146.0	4033.4	3603.2	3681.2	3847.2	3784.3	3746.6	3726.5
11353.0	37.5°	11534.2	10568.0	6421.3	3678.7	3369.2	3552.9	3620.8	3424.5	3276.1	3203.1
12402.3	40°	12351.9	11051.1	5724.3	3404.4	3220.7	3442.1	3323.9	3087.4	2898.6	2795.5
13582.4	42.5°	13260.3	11556.8	5138.0	3198.1	3137.7	3351.6	3105.0	2823.2	2518.7	2486.0
14988.9	45°	14213.9	12077.7	4738.0	3039.5	3097.4	3273.6	2979.2	2523.7	2307.3	2440.7
16400.5	47.5°	15167.6	12555.8	4496.4	2921.3	3077.3	3185.5	2868.4	2357.7	2204.2	2397.9
17912.7	50°	16229.4	12983.5	4388.2	2835.7	3054.6	3150.3	2702.4	2314.9	2096.0	2224.3
19477.8	52.5°	17283.7	13315.6	4307.7	2750.2	3021.9	3122.6	2621.9	2264.6	1965.1	1972.7
21052.9	55°	18335.4	13532.0	4219.6	2637.0	2949.0	3062.2	2614.3	2209.2	1867.0	1831.8
22718.6	57.5°	19457.6	13655.3	4111.4	2511.2	2823.2	2908.7	2606.8	2166.4	1836.8	1778.9
24422.1	60°	20600.0	13836.5	3970.5	2357.7	2654.6	2725.0	2589.2	2151.3	1819.2	1721.1
26027.4	62.5°	21624.1	13899.4	3802.0	2211.7	2438.2	2543.9	2551.4	2138.8	1771.4	1602.8
27361.0	65°	22295.9	13627.6	3507.6	2045.7	2204.2	2357.7	2478.4	2096.0	1685.8	1517.3
28020.2	67.5°	22268.2	12852.7	3047.1	1831.8	1977.7	2151.3	2372.8	2023.0	1582.7	1411.6
27522.0	70°	21231.6	11322.8	2463.3	1582.7	1728.6	1929.9	2236.9	1914.8	1459.4	1295.8
24472.4	72.5°	18209.6	8862.0	1789.0	1290.8	1439.3	1700.9	2060.8	1784.0	1333.6	1192.7
18086.3	75°	13008.7	5608.6	1212.8	991.4	1119.7	1441.8	1841.8	1630.5	1217.8	1197.7
9058.3	77.5°	6645.2	2679.7	802.7	724.7	780.0	1137.3	1547.5	1456.9	1235.4	988.9
2576.6	80°	2161.4	988.9	505.8	493.2	518.3	757.4	1197.7	1195.2	936.0	671.8
624.0	82.5°	689.4	425.2	329.6	317.0	304.5	475.6	835.4	946.1	631.6	425.2
223.9	85°	274.3	254.1	193.7	178.6	128.3	223.9	437.8	629.0	470.5	307.0
57.9	87.5°	100.6	100.6	52.8	37.7	27.7	75.5	118.3	188.7	269.2	158.5
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>
6854.1
7385.0
7639.1
7588.8
7206.3
6584.9
5958.3
5490.3
5216.0
5107.9
5044.9
4982.0
4778.2
4312.7
3746.6
3220.7
2803.0
2518.7
2511.2
2488.5
2319.9
2025.5
1856.9
1786.5
1728.6
1602.8
1517.3
1419.1
1310.9
1185.1
1129.8
880.7
593.8
422.7
314.5
156.0
0.0

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