

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: P953981

Luminaire Tested: **GALN-SB7B-840-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953981  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-840-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

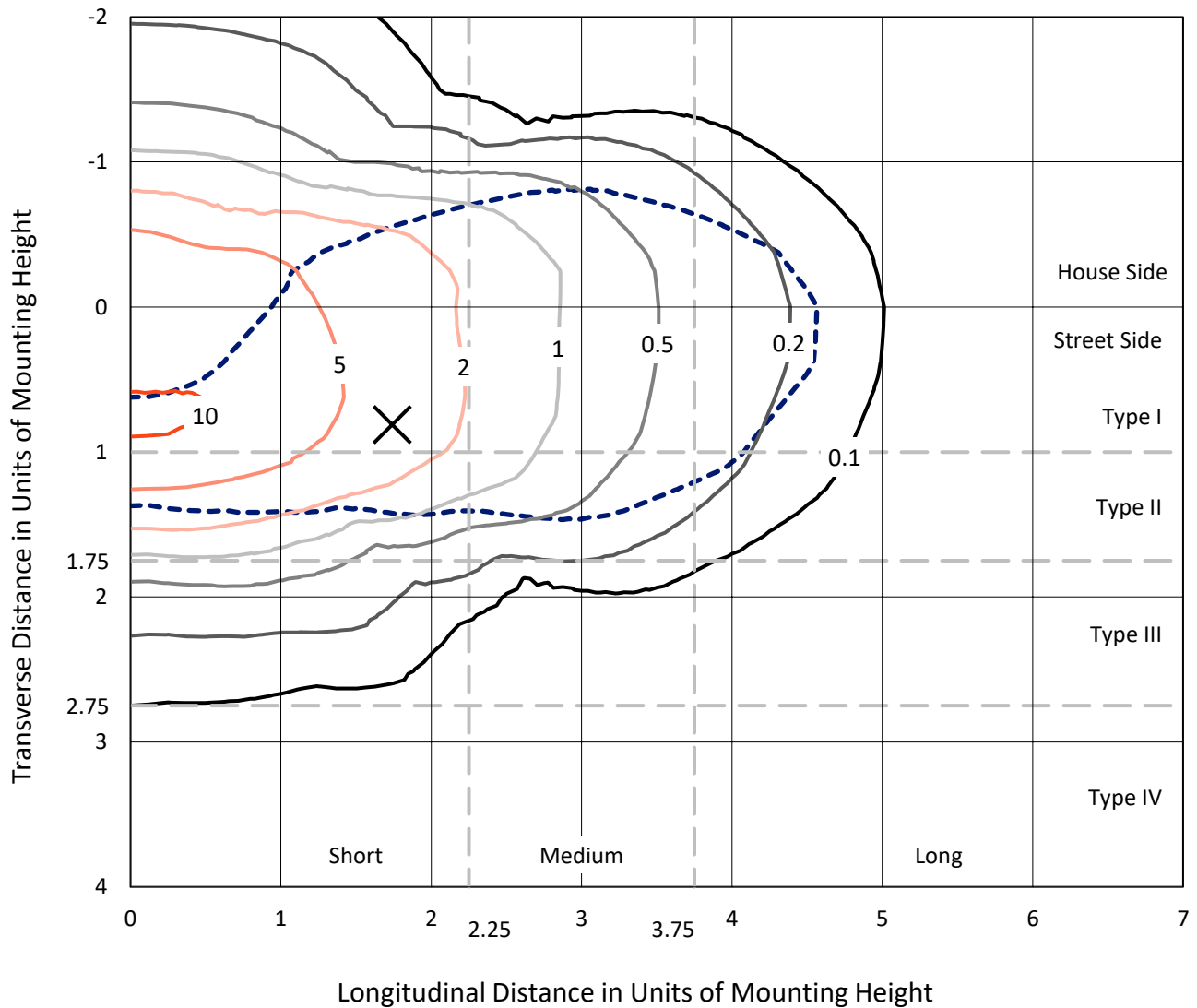
Lumens per Lamp: N/A  
Luminaire Lumens: 38818 lumens  
Efficiency: N/A  
Efficacy: 151.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

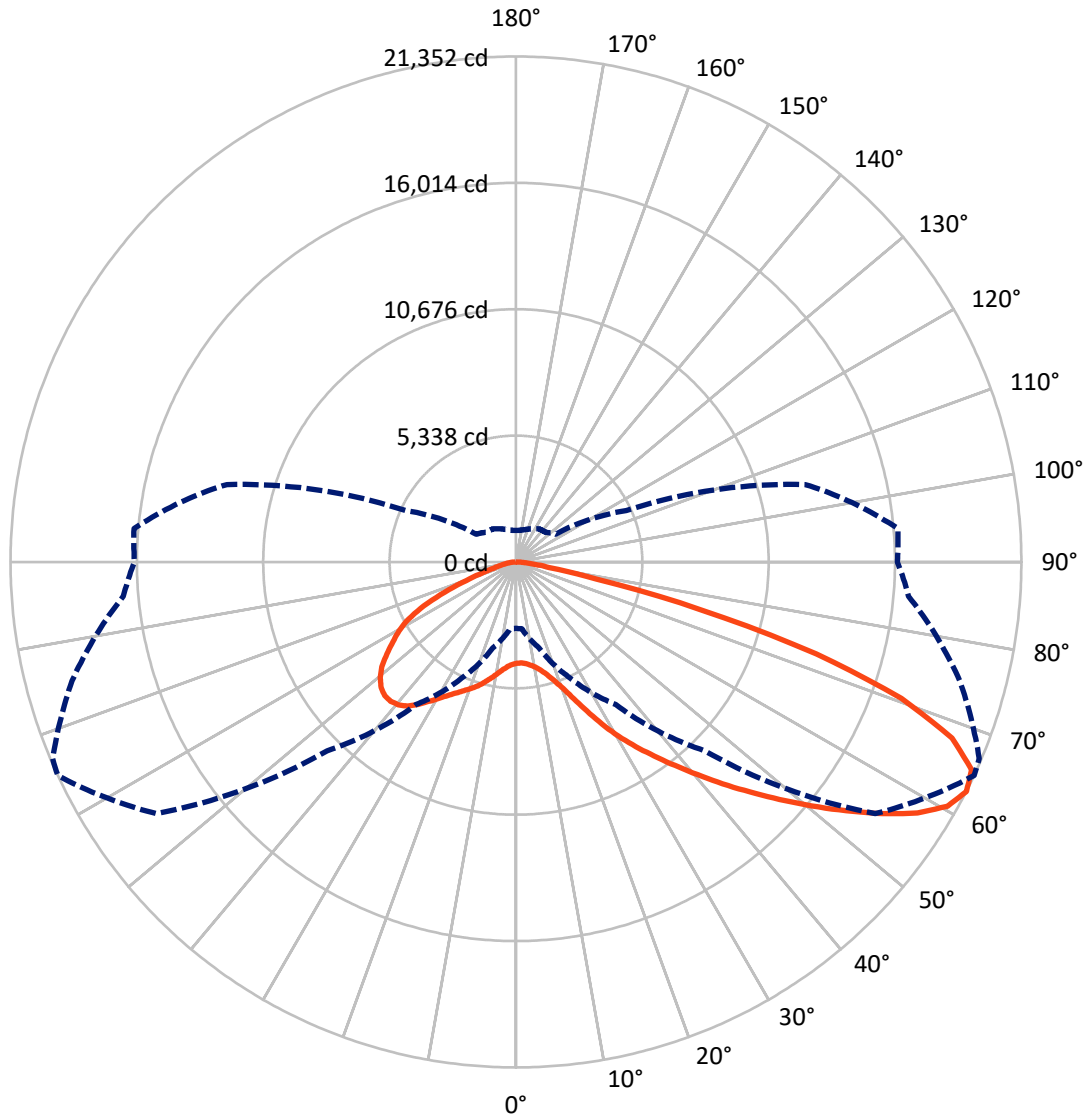
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12249.3	0.0	12249.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	26568.7	0.0	26568.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	38818.0	0.0	38818.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.5	1.1
10°-20°	1446.2	3.7
20°-30°	2932.3	7.6
30°-40°	5074.3	13.1
40°-50°	7679.0	19.8
50°-60°	9003.2	23.2
60°-70°	7548.1	19.4
70°-80°	4167.1	10.7
80°-90°	541.3	1.4
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°	38818.0	100.0
0°-180°	38818.0	100.0

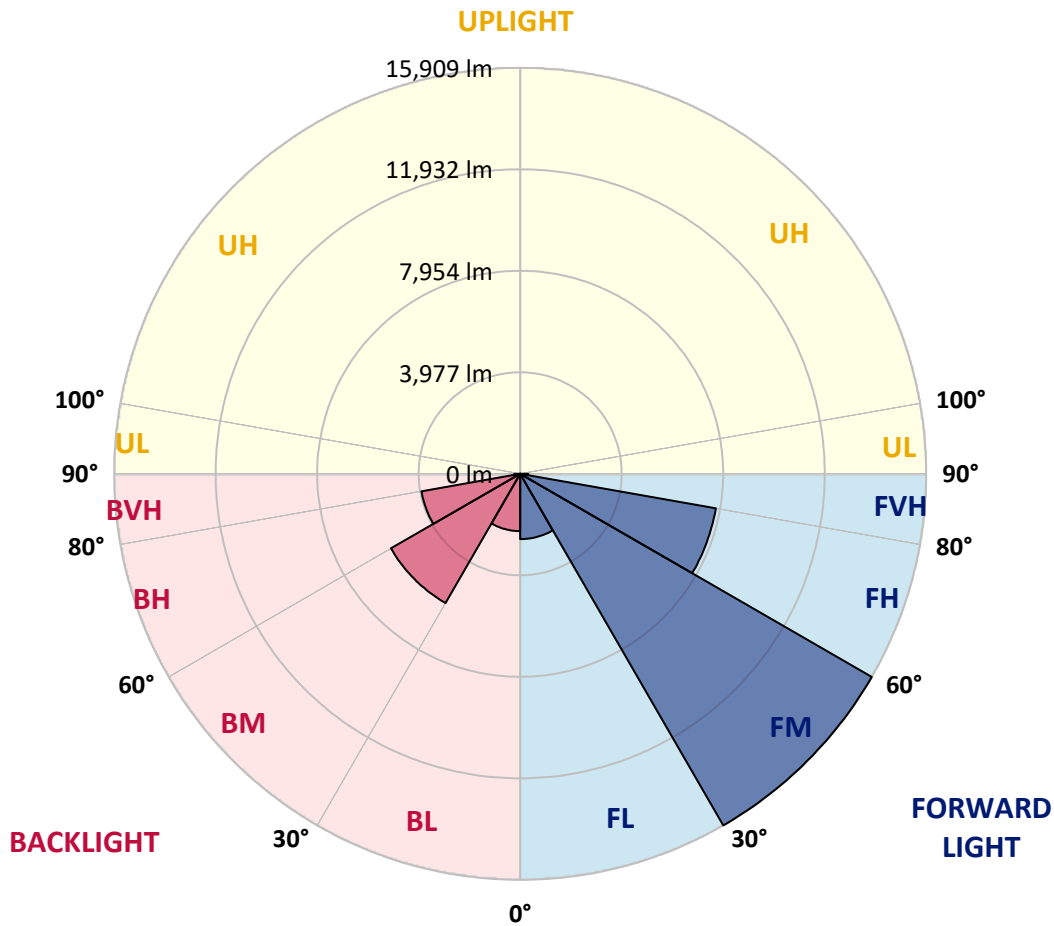


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2558.6	6.6			
FM (30°-60°)	15908.9	41.0			
FH (60°-80°)	7785.7	20.1			G4/12000
FVH (80°-90°)	315.5	0.8			G3/500
BL (0°-30°)	2246.4	5.8	B3/2500		
BM (30°-60°)	5847.6	15.1	B4/8500		
BH (60°-80°)	3929.5	10.1	B4/5000		G4/5000
BVH (80°-90°)	225.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6
2.5°	4249.4	4237.3	4247.4	4247.4	4251.4	4249.4	4263.5	4267.5	4273.5	4285.6
5°	4207.1	4205.1	4223.2	4239.3	4255.4	4269.5	4287.6	4313.8	4317.9	4332.0
7.5°	4193.0	4180.9	4209.1	4229.2	4267.5	4301.7	4350.1	4394.4	4412.5	4418.5
10°	4301.7	4281.6	4307.8	4319.9	4352.1	4386.3	4442.7	4513.2	4533.3	4557.5
12.5°	4487.0	4464.9	4503.1	4521.3	4551.5	4581.7	4619.9	4688.4	4698.5	4742.8
15°	4740.8	4714.6	4738.8	4760.9	4811.3	4839.5	4877.7	4944.2	4944.2	4978.4
17.5°	5085.2	5050.9	5069.0	5077.1	5109.3	5151.6	5216.1	5274.5	5304.7	5292.6
20°	5598.7	5556.4	5556.4	5516.1	5504.1	5538.3	5622.9	5703.4	5735.7	5673.2
22.5°	6370.0	6309.6	6275.4	6138.4	6084.1	6088.1	6172.7	6271.4	6297.5	6186.8
25°	7350.8	7256.2	7209.8	7008.5	6885.6	6778.9	6845.3	6972.2	7008.5	6871.5
27.5°	8331.6	8337.6	8293.3	8051.7	7848.3	7652.9	7618.7	7751.6	7789.9	7634.8
30°	9707.1	9564.1	9479.5	9189.5	8899.5	8625.6	8484.7	8539.0	8549.1	8363.8
32.5°	10893.3	10857.1	10675.8	10422.1	10049.5	9620.5	9384.9	9298.3	9282.2	9018.4
35°	12244.7	12224.5	12033.2	11731.1	11328.3	10732.2	10307.3	10059.6	10039.4	9668.9
37.5°	13618.2	13618.2	13430.9	13100.6	12683.7	11938.5	11292.1	10899.4	10834.9	10351.6
40°	14713.7	14647.3	14681.5	14542.5	14065.2	13273.8	12385.6	11815.7	11729.1	11149.1
42.5°	15336.0	15313.9	15519.3	15674.4	15479.0	14846.7	13590.0	12808.6	12687.7	12027.2
45°	15475.0	15450.8	15817.4	16385.3	16659.2	16399.4	14899.0	13853.8	13706.8	12945.5
47.5°	15154.8	15106.4	15644.2	16540.4	17418.4	17875.6	16316.8	14987.6	14774.1	13839.7
50°	14192.1	14145.8	14959.4	16149.7	17674.2	18878.5	17855.5	16189.9	15863.7	14798.3
52.5°	12099.7	12121.8	13396.6	15031.9	17337.9	19502.8	19180.6	17456.7	17064.0	15779.1
55°	9425.2	9473.5	11040.3	12840.8	15992.6	19408.2	20084.9	18761.7	18371.0	16701.5
57.5°	6748.7	6962.1	8430.3	10212.6	13408.7	17907.8	20282.2	20002.3	19623.7	17708.4
60°	4374.2	4412.5	5923.0	7719.4	10210.6	15241.4	19881.5	20942.8	20646.8	18735.5
62.5°	2803.4	2829.6	3749.9	5399.3	7348.8	11276.0	18532.1	21351.6	21261.0	19414.2
65°	2060.2	2040.1	2519.4	3568.7	4950.2	6954.1	15912.0	21154.3	21333.5	19839.2
67.5°	1719.9	1691.7	1927.3	2471.1	3647.2	3949.3	11773.4	19871.4	20527.9	19790.8
70°	1566.8	1542.7	1685.7	1834.7	2845.7	2644.3	5935.0	17275.4	18286.4	19241.0
72.5°	1327.2	1284.9	1480.2	1629.3	2213.3	2028.0	2453.0	13269.7	14502.3	17478.8
75°	1029.1	1000.9	1168.1	1433.9	1663.5	1582.9	1550.7	8057.7	9403.0	13517.5
77.5°	815.6	777.4	930.4	1117.7	1496.3	1194.3	1129.8	3470.0	4803.2	8629.7
80°	614.2	580.0	706.9	884.1	1150.0	900.2	731.1	1415.8	1810.5	4372.2
82.5°	437.0	406.8	493.4	648.5	773.3	807.6	449.1	793.5	892.2	1685.7
85°	279.9	261.8	330.3	406.8	491.4	519.6	273.9	414.9	455.1	694.8
87.5°	153.1	124.9	177.2	189.3	227.6	207.4	130.9	151.0	163.1	251.7
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°
4277.6	0°	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6
4285.6	2.5°	4293.7	4299.7	4319.9	4325.9	4340.0	4358.1	4370.2	4382.3	4382.3	4394.4
4350.1	5°	4352.1	4366.2	4408.5	4430.6	4466.9	4503.1	4525.3	4551.5	4567.6	4575.6
4452.8	7.5°	4464.9	4487.0	4547.4	4585.7	4648.1	4698.5	4732.7	4769.0	4777.0	4799.2
4595.8	10°	4617.9	4644.1	4712.6	4785.1	4859.6	4922.0	4954.3	4980.4	4990.5	4994.5
4779.0	12.5°	4793.1	4831.4	4920.0	5008.6	5087.2	5141.5	5149.6	5143.6	5115.4	5091.2
5004.6	15°	5008.6	5042.9	5141.5	5238.2	5314.7	5324.8	5274.5	5242.2	5208.0	5202.0
5256.3	17.5°	5266.4	5284.5	5375.2	5469.8	5475.9	5441.6	5367.1	5336.9	5304.7	5282.5
5584.6	20°	5566.5	5560.4	5624.9	5665.2	5622.9	5518.2	5405.4	5355.0	5322.8	5296.6
5987.4	22.5°	5925.0	5878.6	5870.6	5860.5	5747.7	5528.2	5375.2	5310.7	5260.4	5224.1
6549.3	25°	6446.6	6269.3	6146.5	6078.0	5824.3	5473.8	5278.5	5135.5	5040.9	4978.4
7236.0	27.5°	7099.1	6801.0	6490.9	6323.7	5824.3	5363.1	5044.9	4813.3	4658.2	4593.8
7900.6	30°	7721.4	7409.2	6952.1	6619.8	5810.2	5181.8	4668.3	4346.0	4164.8	4100.3
8468.6	32.5°	8253.1	7912.7	7441.5	6944.0	5775.9	4887.8	4201.0	3844.6	3669.4	3592.8
9030.4	35°	8746.5	8384.0	7932.8	7300.5	5685.3	4456.8	3687.5	3415.6	3220.3	3097.4
9602.4	37.5°	9252.0	8821.0	8398.1	7622.7	5522.2	3953.3	3292.8	3061.2	2831.6	2666.4
10210.6	40°	9801.8	9286.2	8895.5	7814.0	5254.3	3474.0	2986.6	2775.2	2531.5	2356.3
10911.4	42.5°	10444.2	9844.1	9449.3	7912.7	4887.8	3133.7	2787.3	2579.8	2350.2	2207.3
11662.6	45°	11114.8	10458.3	9954.8	7910.7	4479.0	2974.6	2722.8	2517.4	2263.7	2114.6
12434.0	47.5°	11817.7	11100.8	10391.8	7781.8	4124.5	2996.7	2686.6	2382.5	2102.5	1957.5
13213.4	50°	12522.6	11803.6	10814.8	7540.1	3973.5	2948.4	2551.6	2193.2	1862.9	1732.0
13944.4	52.5°	13221.4	12550.8	11179.3	7195.8	3820.4	2769.1	2378.4	1947.5	1764.2	1673.6
14699.6	55°	13924.3	13289.9	11576.0	6694.3	3437.8	2559.7	2088.4	1854.8	1685.7	1603.1
15438.7	57.5°	14629.1	14143.8	11952.6	6192.8	2956.4	2301.9	1929.3	1742.0	1607.1	1536.6
16057.0	60°	15362.2	15120.5	12341.3	5731.6	2481.2	1971.6	1812.5	1651.4	1514.5	1435.9
16651.1	62.5°	16117.4	16196.0	12645.4	5137.5	2044.1	1770.2	1707.8	1542.7	1409.7	1335.2
17142.5	65°	16878.7	17233.2	12844.8	4313.8	1657.5	1578.9	1595.0	1423.8	1288.9	1224.5
17503.0	67.5°	17452.7	17980.3	12788.4	3264.6	1359.4	1397.7	1454.1	1299.0	1172.1	1121.8
17444.6	70°	17517.1	17891.7	12232.6	2235.5	1137.9	1220.4	1297.0	1176.1	1045.2	1009.0
16622.9	72.5°	16659.2	16683.3	10683.9	1460.1	962.7	1071.4	1131.8	1051.3	924.4	888.1
14542.5	75°	14409.6	13797.4	7844.2	962.7	805.6	920.4	976.8	920.4	797.5	805.6
10881.2	77.5°	10917.5	9771.6	4762.9	684.7	672.7	773.3	849.9	809.6	704.9	791.5
5471.8	80°	5624.9	5286.6	2124.7	511.5	531.7	618.3	698.8	646.5	557.9	531.7
1222.5	82.5°	1288.9	1498.4	837.8	366.5	384.7	445.1	533.7	485.4	400.8	338.3
509.5	85°	451.1	493.4	370.6	229.6	225.6	277.9	362.5	324.2	271.9	217.5
215.5	87.5°	143.0	187.3	139.0	92.6	96.7	124.9	167.2	153.1	126.9	82.6
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>
4277.6
4394.4
4579.7
4791.1
4984.5
5091.2
5202.0
5284.5
5298.6
5236.2
5002.6
4626.0
4138.6
3631.1
3137.7
2710.7
2390.5
2235.5
2138.8
1977.7
1740.0
1673.6
1595.0
1524.5
1429.9
1333.2
1222.5
1123.8
1011.0
886.1
777.4
696.8
485.4
334.3
229.6
86.6
0.0

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