

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: P943007

Luminaire Tested: **GALN-SB7B-740-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-740-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

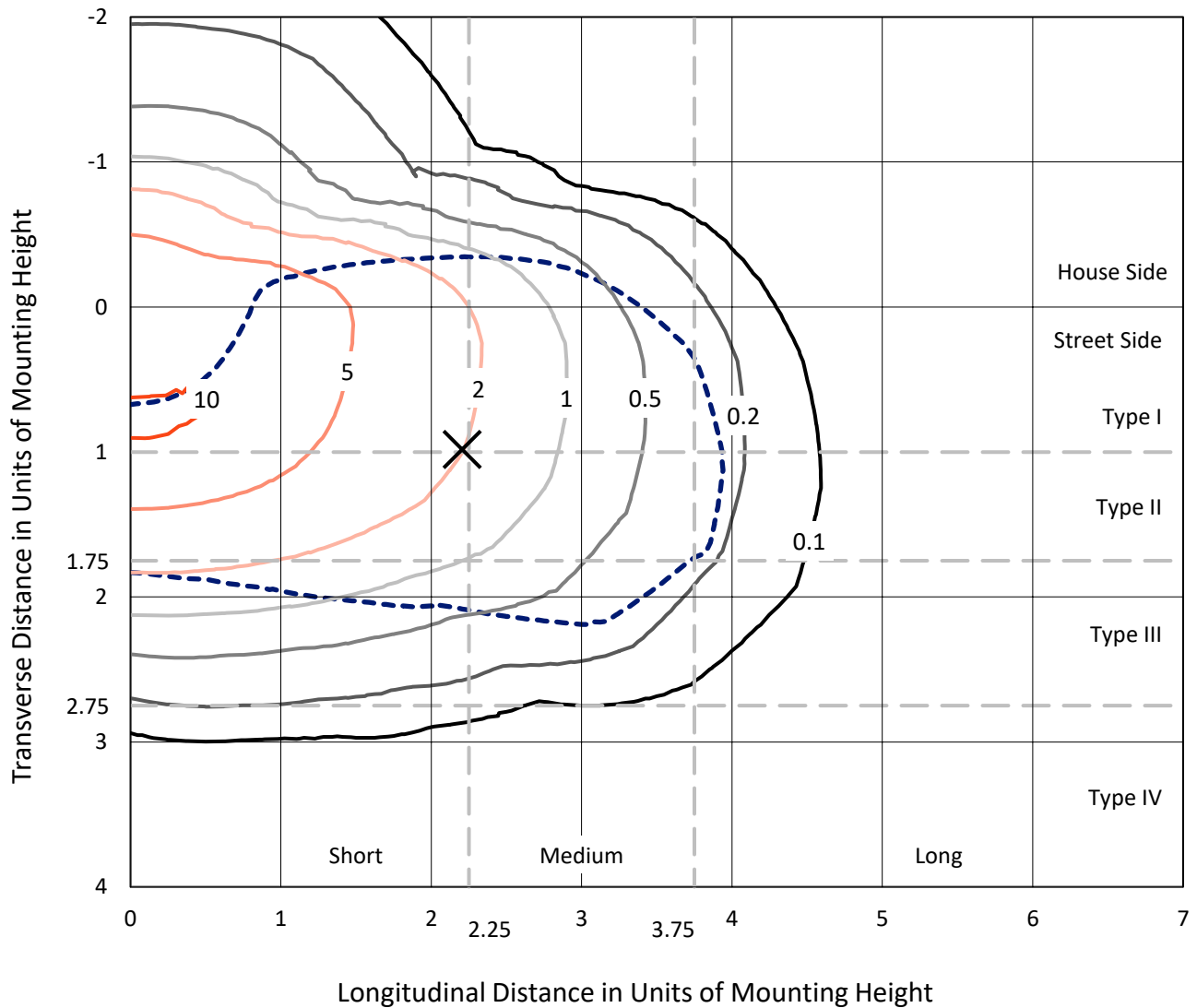
Lumens per Lamp: N/A  
Luminaire Lumens: 42396 lumens  
Efficiency: N/A  
Efficacy: 165.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

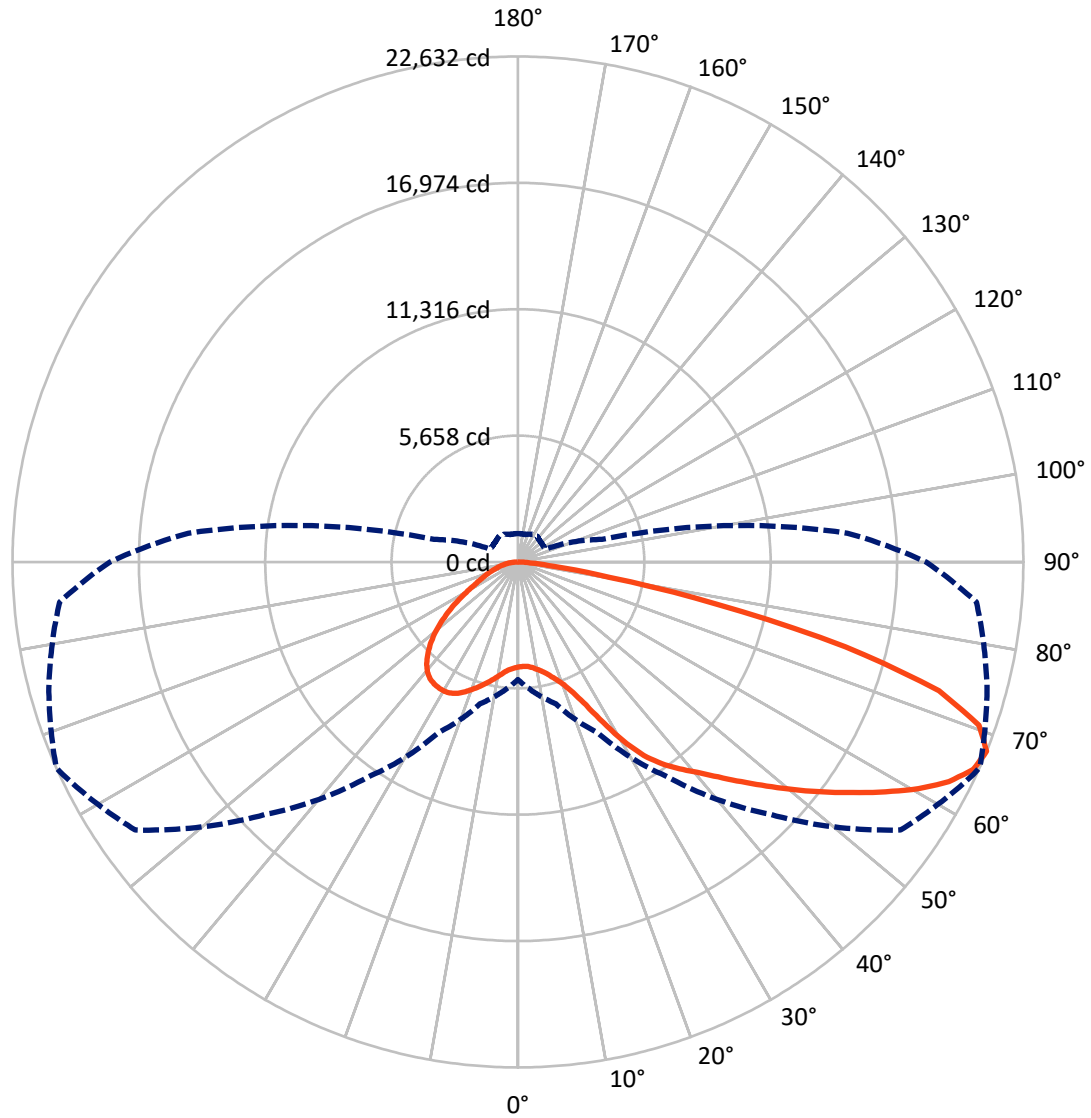
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10541.6	0.0	10541.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	31854.4	0.0	31854.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	42396.0	0.0	42396.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.2	1.1
10°-20°	1540.3	3.6
20°-30°	2968.9	7.0
30°-40°	5205.5	12.3
40°-50°	7738.8	18.3
50°-60°	9809.8	23.1
60°-70°	9598.6	22.6
70°-80°	4578.6	10.8
80°-90°	489.3	1.2
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°	42396.0	100.0
0°-180°	42396.0	100.0

**Coefficient of Utilization**



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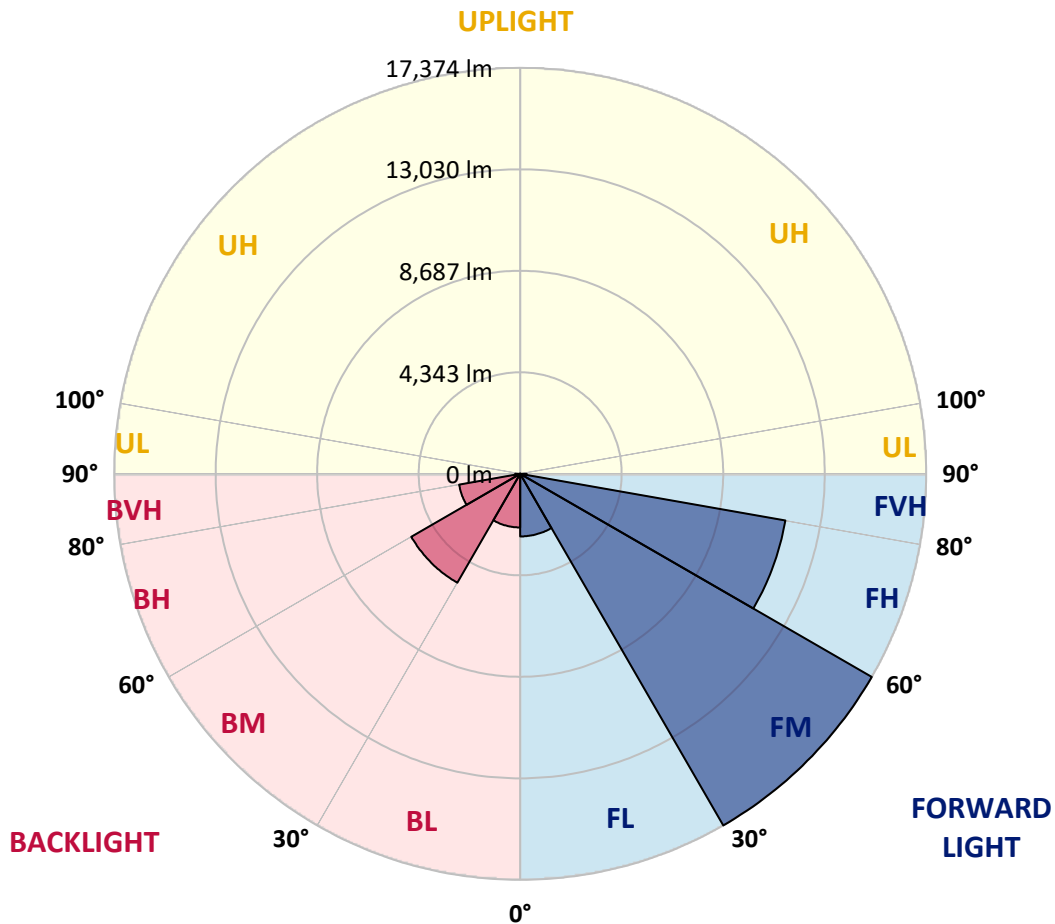
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2679.0	6.3			
FM (30°-60°)	17373.5	41.0			
FH (60°-80°)	11524.4	27.2			G4/12000
FVH (80°-90°)	277.4	0.7			G3/500
BL (0°-30°)	2296.4	5.4	B3/2500		
BM (30°-60°)	5380.6	12.7	B4/8500		
BH (60°-80°)	2652.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	211.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3
2.5°	4653.3	4680.0	4673.3	4662.2	4660.0	4664.4	4671.1	4677.8	4675.5	4686.7
5°	4639.9	4666.6	4664.4	4664.4	4673.3	4691.1	4702.3	4713.4	4702.3	4715.6
7.5°	4648.8	4668.9	4677.8	4686.7	4709.0	4742.4	4769.1	4793.6	4780.2	4795.8
10°	4762.4	4778.0	4786.9	4786.9	4802.5	4840.4	4867.1	4911.7	4900.5	4925.0
12.5°	4969.6	4985.2	4985.2	4976.3	4987.4	5011.9	5020.8	5069.8	5049.8	5089.9
15°	5223.5	5254.7	5230.2	5214.6	5219.1	5243.6	5241.3	5279.2	5259.2	5292.6
17.5°	5504.2	5544.3	5504.2	5502.0	5493.0	5519.8	5522.0	5555.4	5519.8	5544.3
20°	5836.1	5891.8	5858.4	5869.5	5849.4	5860.6	5871.7	5920.7	5865.0	5882.9
22.5°	6303.9	6370.7	6335.0	6377.4	6364.0	6355.1	6352.9	6439.7	6352.9	6359.5
25°	6985.5	7065.7	7003.3	7061.2	7061.2	7090.2	7123.6	7235.0	7090.2	7047.8
27.5°	7992.3	8072.5	7950.0	7985.6	7974.5	8045.8	8010.1	8286.3	8130.4	8061.4
30°	9204.1	9346.6	9115.0	9106.1	9094.9	9208.5	9259.8	9442.4	9284.3	9215.2
32.5°	10513.9	10663.1	10386.9	10306.7	10264.4	10333.4	10291.1	10438.1	10329.0	10222.1
35°	11899.4	12046.4	11783.5	11627.6	11458.3	11313.5	11162.1	11199.9	11097.5	10934.9
37.5°	13209.1	13478.7	13200.2	13033.2	12721.3	12438.4	12015.2	11839.2	11743.4	11594.2
40°	14543.4	14697.1	14485.5	14342.9	14004.4	13561.1	12883.9	12511.9	12382.7	12237.9
42.5°	15525.8	15672.8	15559.2	15461.2	15196.1	14681.5	13806.1	13340.6	13153.5	12990.8
45°	16305.4	16414.5	16343.3	16378.9	16265.3	15766.3	14761.7	14229.3	14035.5	13837.3
47.5°	16619.5	16735.3	16848.9	17060.5	17254.3	16886.8	15788.6	15191.6	14986.7	14784.0
50°	16583.8	16701.9	17031.6	17481.5	18082.9	17960.4	16871.2	16216.3	16026.9	15795.3
52.5°	16298.7	16432.4	16855.6	17604.0	18561.9	18764.6	17973.8	17274.4	17096.2	16819.9
55°	15550.3	15630.4	16265.3	17325.6	18675.5	19325.9	19054.1	18401.5	18223.3	17837.9
57.5°	14162.5	14278.3	15202.8	16574.9	18390.3	19706.8	20003.1	19586.5	19415.0	18860.3
60°	12351.6	12536.4	13594.5	15314.1	17664.2	19704.6	20865.1	20751.5	20608.9	19867.2
62.5°	10302.2	10516.1	11534.1	13532.1	16394.5	19145.5	21404.2	21727.1	21653.6	20796.0
65°	7912.1	8059.1	9072.7	11226.7	14418.7	17944.8	21466.5	22393.2	22406.5	21502.2
67.5°	5268.1	5691.3	6571.2	8424.4	11772.4	15982.4	20918.6	22502.3	22631.5	21745.0
70°	2570.5	3127.4	3989.5	5475.2	8424.4	12973.0	19486.3	21606.9	21894.2	21036.6
72.5°	1067.0	1247.4	1717.4	2702.0	4835.9	8754.1	16608.3	19178.9	19711.2	18639.8
75°	719.5	779.6	982.3	1385.5	2203.0	4316.9	11977.3	14300.6	15158.2	14077.9
77.5°	554.7	592.5	715.0	969.0	1309.8	1632.8	6410.8	8618.2	9061.5	8388.8
80°	436.6	465.5	534.6	706.1	928.9	873.2	2185.2	3904.8	4161.0	3490.5
82.5°	378.7	389.8	383.1	478.9	617.0	510.1	717.3	1441.2	1590.4	1153.9
85°	274.0	305.2	318.5	296.3	327.4	258.4	294.0	510.1	561.3	501.2
87.5°	111.4	164.8	202.7	191.6	120.3	73.5	91.3	149.2	171.5	187.1
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°
4702.3	0°	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3	4702.3
4704.5	2.5°	4706.7	4722.3	4733.5	4746.8	4755.7	4769.1	4795.8	4811.4	4813.7	4824.8
4740.1	5°	4749.1	4771.3	4795.8	4831.5	4871.6	4905.0	4956.2	4991.9	5005.2	5016.4
4827.0	7.5°	4840.4	4871.6	4916.1	4978.5	5036.4	5081.0	5143.3	5185.6	5228.0	5243.6
4965.1	10°	4976.3	5020.8	5085.4	5170.1	5232.4	5290.3	5354.9	5390.6	5432.9	5450.7
5130.0	12.5°	5145.6	5192.3	5277.0	5395.0	5452.9	5493.0	5515.3	5506.4	5515.3	5530.9
5328.2	15°	5339.3	5390.6	5486.4	5613.3	5653.4	5617.8	5568.8	5524.2	5517.5	5522.0
5568.8	17.5°	5568.8	5606.6	5718.0	5824.9	5796.0	5649.0	5542.0	5470.8	5435.1	5424.0
5876.2	20°	5889.5	5889.5	5980.9	6047.7	5853.9	5604.4	5437.4	5321.5	5248.0	5216.8
6294.9	22.5°	6279.4	6243.7	6301.6	6254.9	5842.8	5479.7	5248.0	5047.5	4936.2	4891.6
6880.8	25°	6773.9	6731.5	6715.9	6426.4	5762.6	5281.4	4905.0	4662.2	4564.2	4539.7
7725.0	27.5°	7520.1	7413.2	7210.5	6519.9	5615.6	4969.6	4504.0	4279.0	4223.4	4225.6
8809.8	30°	8513.5	8299.7	7803.0	6535.5	5375.0	4528.5	4094.2	3933.8	3907.1	3918.2
9720.9	32.5°	9433.5	9230.8	8408.9	6464.2	5005.2	4096.4	3726.6	3619.7	3579.6	3593.0
10415.8	35°	10155.2	10099.5	8970.2	6364.0	4550.8	3691.0	3397.0	3305.6	3227.7	3209.8
11070.7	37.5°	10836.8	10814.6	9391.2	6223.7	4100.8	3403.6	3131.9	3011.6	2898.0	2835.6
11794.7	40°	11585.3	11563.0	9667.4	6007.6	3702.1	3154.2	2893.5	2735.4	2595.1	2481.4
12614.4	42.5°	12427.3	12295.9	9798.8	5698.0	3363.5	2942.5	2699.7	2485.9	2301.0	2196.3
13541.0	45°	13347.2	13051.0	9796.6	5303.7	3078.4	2748.7	2492.6	2189.6	2018.1	1920.1
14492.2	47.5°	14322.9	13772.7	9676.3	4867.1	2802.2	2534.9	2171.8	1940.2	1826.6	1766.4
15525.8	50°	15329.7	14447.6	9471.4	4365.9	2519.3	2292.1	1971.3	1813.2	1726.3	1670.6
16550.4	52.5°	16276.4	15060.2	9224.1	3797.9	2232.0	2056.0	1882.2	1759.7	1668.4	1606.0
17543.9	55°	17156.3	15588.1	8874.4	3216.5	1998.1	1897.8	1839.9	1737.5	1632.8	1559.3
18552.9	57.5°	17938.1	15931.2	8270.8	2670.8	1831.0	1788.7	1795.4	1699.6	1579.3	1516.9
19546.4	60°	18588.6	16182.9	7377.5	2165.1	1695.1	1681.8	1726.3	1628.3	1488.0	1416.7
20386.2	62.5°	18978.4	16178.4	6281.6	1773.1	1579.3	1583.8	1635.0	1539.2	1396.6	1329.8
20825.0	65°	18945.0	15781.9	5078.7	1516.9	1467.9	1472.4	1539.2	1441.2	1320.9	1280.8
20604.5	67.5°	18274.5	14815.2	3895.9	1349.9	1345.4	1365.5	1443.4	1374.4	1274.1	1269.7
19290.2	70°	16459.1	12808.2	2806.7	1216.2	1218.4	1247.4	1349.9	1332.1	1249.6	1258.5
16218.5	72.5°	13198.0	9765.4	1884.5	1075.9	1078.1	1124.9	1260.8	1298.6	1225.1	1343.2
11507.3	75°	8789.8	6090.0	1211.8	926.6	928.9	989.0	1182.8	1234.0	1158.3	1338.7
5987.6	77.5°	4223.4	2737.6	877.6	779.6	779.6	835.3	1022.4	1104.8	986.8	1040.2
1924.6	80°	1459.0	1029.1	690.5	628.2	614.8	652.7	862.0	957.8	850.9	784.1
628.2	82.5°	574.7	534.6	554.7	487.8	443.3	467.8	670.5	790.8	625.9	565.8
354.2	85°	329.7	347.5	392.0	323.0	256.2	287.3	492.3	568.0	472.2	416.5
115.8	87.5°	89.1	122.5	180.4	167.1	115.8	122.5	233.9	314.1	271.8	209.4
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>
4702.3
4822.6
5014.1
5245.8
5459.6
5535.4
5537.6
5439.6
5210.1
4884.9
4544.1
4232.3
3956.1
3610.8
3223.2
2837.8
2492.6
2203.0
1915.7
1753.1
1650.6
1579.3
1530.3
1476.8
1385.5
1309.8
1278.6
1276.4
1256.3
1361.0
1349.9
953.4
735.1
563.6
425.5
216.1
0.0

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