

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: P949967

Luminaire Tested: **GALN-SB4C-760-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-760-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

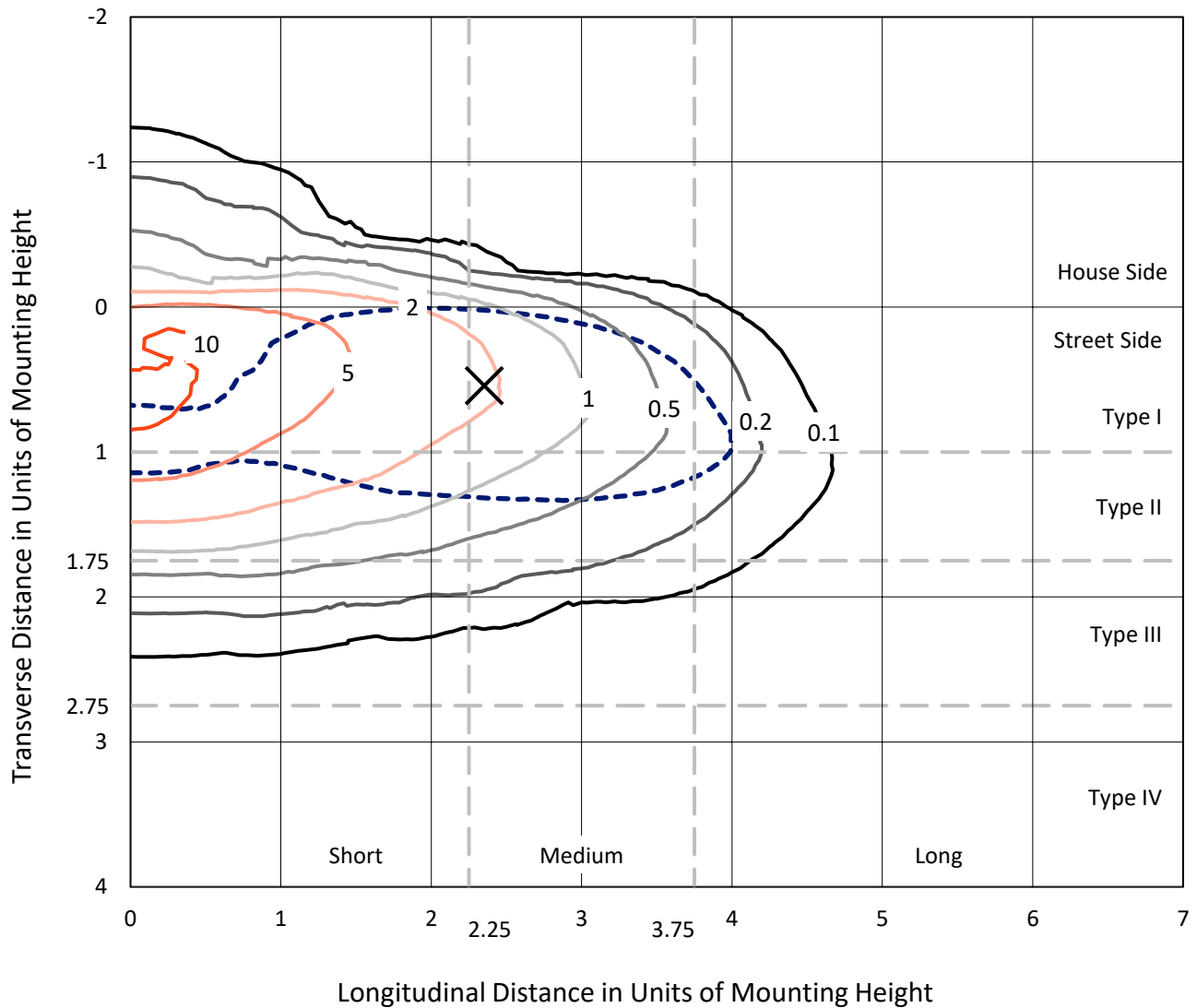
Lumens per Lamp: N/A  
Luminaire Lumens: 26886 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

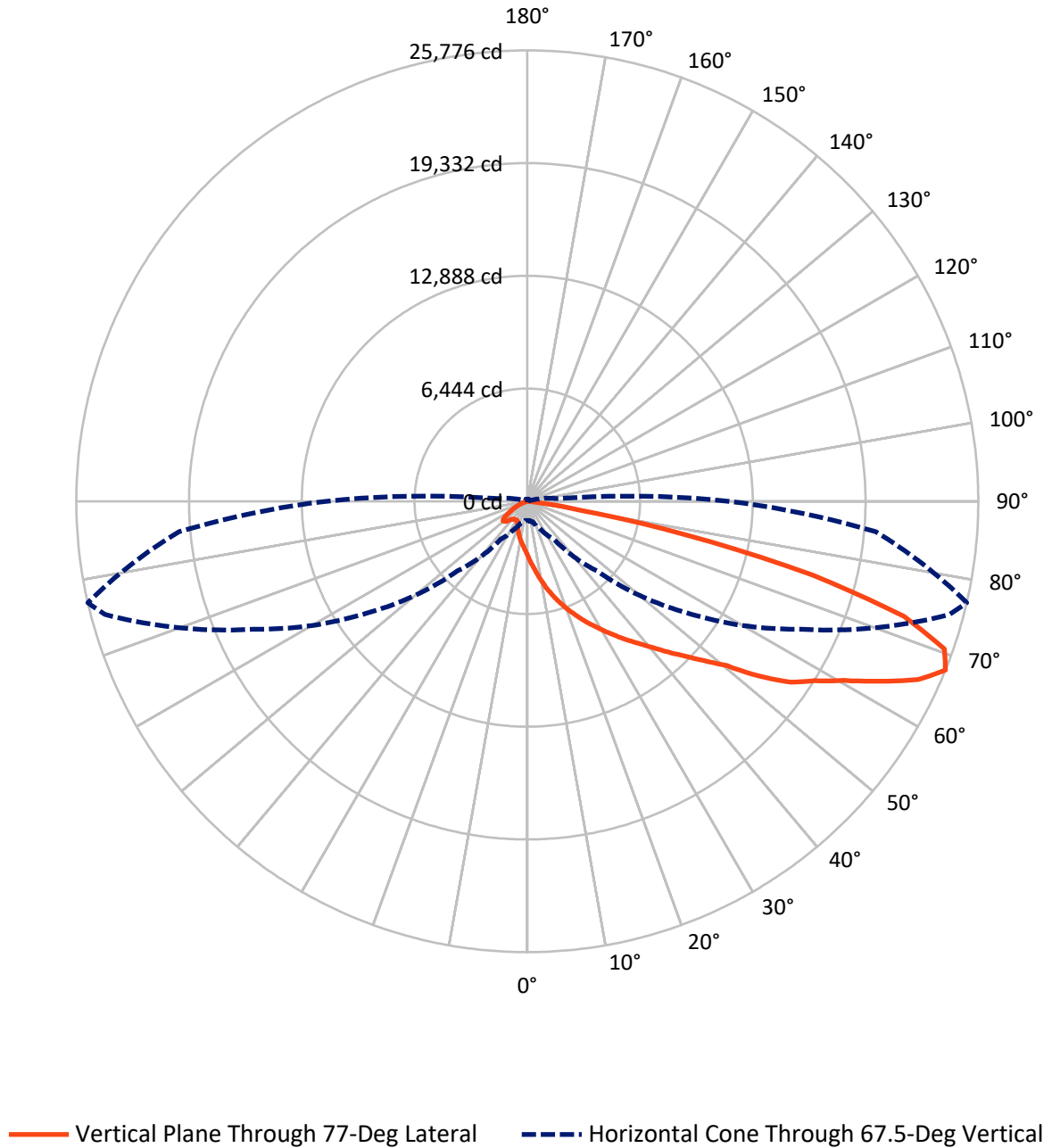
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1978.0	0.0	1978.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	24908.0	0.0	24908.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	26886.0	0.0	26886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.4	1.2
10°-20°	1108.1	4.1
20°-30°	2138.4	8.0
30°-40°	3712.4	13.8
40°-50°	5390.2	20.0
50°-60°	6190.0	23.0
60°-70°	5374.0	20.0
70°-80°	2531.2	9.4
80°-90°	125.2	0.5
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°	26886.0	100.0
0°-180°	26886.0	100.0

**Coefficient of Utilization**



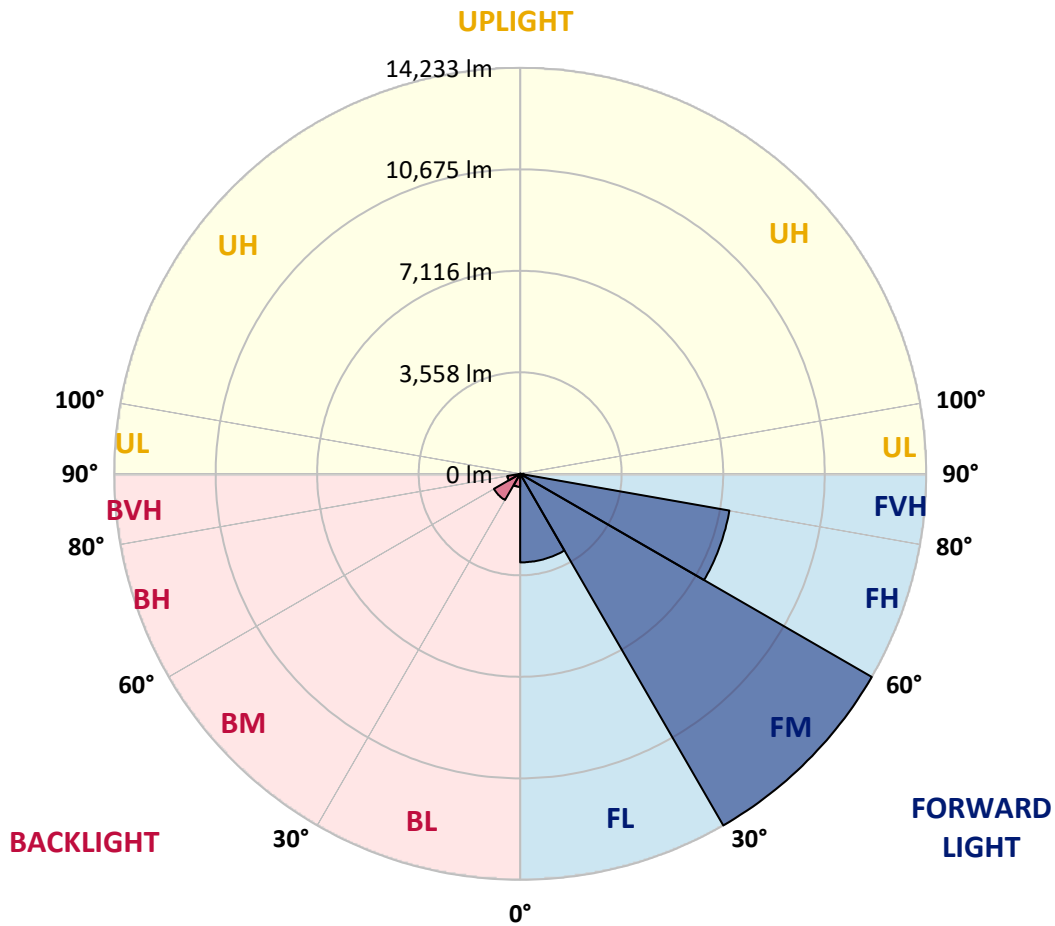
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.0	11.5			
FM (30°-60°)	14232.7	52.9			
FH (60°-80°)	7447.3	27.7			G3/7500
FVH (80°-90°)	122.9	0.5			G2/225
BL (0°-30°)	457.9	1.7	B1/500		
BM (30°-60°)	1059.8	3.9	B2/2500		
BH (60°-80°)	457.9	1.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	<i>3100.4</i>
2.5°	4292.4	4319.1	4280.7	4207.3	4097.1	4025.3	3850.0	3684.7	3501.0	3442.6	<i>3442.6</i>
5°	5232.4	5255.7	5212.3	5132.2	4985.3	4845.0	4614.6	4269.0	3910.1	3794.9	<i>3794.9</i>
7.5°	5928.6	5941.9	5925.2	5851.8	5711.5	5552.9	5295.8	4886.8	4354.2	4227.3	<i>4227.3</i>
10°	6429.4	6472.8	6467.8	6439.4	6346.0	6217.4	5943.6	5477.8	4851.7	4688.1	<i>4688.1</i>
12.5°	6761.7	6810.1	6838.5	6901.9	6896.9	6815.1	6574.7	6082.2	5347.6	5155.6	<i>5155.6</i>
15°	6858.5	6910.3	7018.8	7165.7	7295.9	7337.7	7169.0	6674.9	5893.5	5648.1	<i>5648.1</i>
17.5°	6803.4	6883.5	7013.8	7245.8	7531.3	7720.0	7701.6	7247.5	6389.4	6108.9	<i>6108.9</i>
20°	6925.3	7002.1	7103.9	7299.3	7631.5	7973.8	8110.7	7795.1	6881.9	6588.0	<i>6588.0</i>
22.5°	7599.8	7586.4	7596.4	7628.2	7826.8	8165.8	8447.9	8292.6	7369.4	7068.9	<i>7068.9</i>
25°	8668.3	8608.2	8506.3	8334.4	8284.3	8447.9	8741.8	8733.4	7883.6	7561.4	<i>7561.4</i>
27.5°	9893.7	9883.7	9645.0	9230.9	8997.2	8933.8	9074.0	9162.5	8392.8	8048.9	<i>8048.9</i>
30°	11067.4	11094.1	10771.9	10311.1	9882.1	9633.3	9506.4	9569.9	8910.4	8574.8	<i>8574.8</i>
32.5°	12089.2	12117.6	11767.0	11227.7	10696.8	10396.3	10129.1	9972.2	9474.7	9109.1	<i>9109.1</i>
35°	12952.4	12980.7	12578.4	11982.3	11416.4	11144.2	10842.0	10413.0	10042.3	9701.7	<i>9701.7</i>
37.5°	13723.7	13715.3	13176.1	12575.0	12019.1	11803.7	11645.1	10955.6	10626.7	10297.8	<i>10297.8</i>
40°	14179.5	14214.5	13753.7	13090.9	12551.7	12394.7	12384.7	11628.4	11301.2	10982.3	<i>10982.3</i>
42.5°	14313.0	14374.8	14040.9	13496.6	13007.5	12837.2	13099.3	12356.3	12085.9	11775.3	<i>11775.3</i>
45°	14072.6	14132.7	13980.8	13603.5	13318.0	13207.8	13713.7	13111.0	12924.0	12616.8	<i>12616.8</i>
47.5°	13371.4	13446.5	13483.3	13403.1	13399.8	13511.7	14264.6	13905.7	13919.0	13605.1	<i>13605.1</i>
50°	12014.1	12141.0	12478.2	12762.0	13201.1	13752.1	14800.5	14767.2	15041.0	14770.5	<i>14770.5</i>
52.5°	9546.5	9726.8	10888.8	11665.1	12651.8	13707.0	15389.9	16149.5	17009.4	16613.7	<i>16613.7</i>
55°	7671.6	7671.6	8616.5	10069.0	11580.0	13409.8	15647.0	17047.8	18350.0	18256.5	<i>18256.5</i>
57.5°	6254.1	6329.3	6932.0	8215.8	10029.0	12701.9	15805.6	17612.1	19430.2	19361.8	<i>19361.8</i>
60°	3860.0	4021.9	5160.6	6427.8	8264.3	11441.4	15705.4	18183.0	20740.8	20795.9	<i>20795.9</i>
62.5°	2173.8	2233.9	2741.4	4624.6	6426.1	9746.8	14939.1	18501.9	22417.0	22650.8	<i>22650.8</i>
65°	1500.9	1531.0	1726.3	2878.3	4454.4	7760.1	13441.5	18303.3	24096.6	24569.1	<i>24569.1</i>
67.5°	<i>1090.2</i>	<i>1105.2</i>	<i>1227.1</i>	<i>1758.0</i>	<i>2642.9</i>	<i>5626.4</i>	<i>11094.1</i>	<i>17301.5</i>	<i>24986.5</i>	<i>25776.2</i>	<i>25776.2</i>
70°	838.1	848.1	936.6	1155.3	1561.0	3472.7	8057.2	15309.8	24342.0	25285.3	<i>25285.3</i>
72.5°	681.2	691.2	759.6	854.8	1035.1	2053.5	4883.4	12433.1	21497.1	22515.5	<i>22515.5</i>
75°	574.3	587.7	649.5	711.2	811.4	1318.9	2290.6	8658.3	16166.2	16834.1	<i>16834.1</i>
77.5°	318.9	293.8	527.6	589.4	684.5	834.8	1071.8	5095.5	9054.0	9239.3	<i>9239.3</i>
80°	198.7	205.4	419.1	474.2	525.9	420.7	490.8	1961.7	3138.8	2981.8	<i>2981.8</i>
82.5°	11.7	26.7	322.2	342.3	360.6	180.3	185.3	666.1	756.3	694.5	<i>694.5</i>
85°	0.0	0.0	146.9	118.5	125.2	51.8	53.4	155.3	101.8	110.2	<i>110.2</i>
87.5°	0.0	0.0	0.0	3.3	0.0	5.0	10.0	13.4	5.0	6.7	<i>6.7</i>
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<i>0.0</i>

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3100.4	0°	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4	3100.4
3259.0	2.5°	3142.1	3025.2	2788.1	2556.1	2367.4	2192.1	2066.9	1948.4	1888.3	1884.9
3469.3	5°	3237.3	2991.8	2517.7	2098.6	1761.4	1490.9	1315.6	1190.4	1126.9	1105.2
3728.1	7.5°	3370.8	3001.8	2280.6	1697.9	1300.6	1068.5	968.3	928.3	914.9	899.9
4020.3	10°	3539.4	3025.2	2068.6	1367.4	1025.1	908.2	868.2	851.5	841.5	831.4
4349.2	12.5°	3728.1	3046.9	1858.2	1135.3	901.6	841.5	813.1	793.0	779.7	768.0
4686.4	15°	3911.8	3060.3	1639.5	973.3	838.1	789.7	759.6	737.9	719.6	706.2
5017.0	17.5°	4093.7	3078.6	1434.1	876.5	786.4	737.9	707.9	681.2	666.1	651.1
5364.3	20°	4295.7	3075.3	1240.5	808.1	734.6	686.2	654.5	629.4	614.4	597.7
5731.6	22.5°	4482.7	3058.6	1070.2	749.6	681.2	634.4	599.4	574.3	559.3	545.9
6107.2	25°	4698.1	3045.3	928.3	696.2	631.1	584.3	545.9	522.6	505.9	494.2
6484.5	27.5°	4905.1	3025.2	824.8	647.8	582.7	537.6	500.9	474.2	459.1	450.8
6873.5	30°	5108.8	3020.2	786.4	601.0	539.3	494.2	457.5	432.4	420.7	417.4
7300.9	32.5°	5354.2	3033.6	803.1	584.3	499.2	454.1	419.1	400.7	389.0	389.0
7776.8	35°	5616.4	3030.2	828.1	599.4	472.5	414.0	387.3	375.6	364.0	364.0
8304.3	37.5°	5945.3	3035.2	848.1	624.4	462.5	380.7	365.6	350.6	343.9	343.9
8882.0	40°	6436.1	3200.5	838.1	646.1	459.1	357.3	327.2	322.2	317.2	317.2
9534.8	42.5°	7037.1	3559.5	851.5	647.8	457.5	340.6	300.5	310.5	298.8	297.2
10271.1	45°	7694.9	3951.8	936.6	612.7	455.8	332.2	287.2	298.8	280.5	280.5
11124.2	47.5°	8347.7	4340.8	1023.4	562.6	450.8	330.6	275.5	268.8	263.8	265.5
12236.1	50°	9247.6	4658.0	1056.8	494.2	439.1	327.2	253.8	255.4	252.1	255.4
13803.8	52.5°	10227.7	4724.8	1016.8	417.4	405.7	317.2	238.7	245.4	243.8	247.1
14907.4	55°	10838.7	4653.0	839.8	347.3	353.9	277.1	223.7	237.1	237.1	237.1
15985.9	57.5°	11469.8	4347.5	596.0	282.2	293.8	227.1	210.4	228.7	227.1	225.4
17284.8	60°	11923.9	3853.3	392.3	232.1	233.7	187.0	195.3	215.4	213.7	205.4
18623.8	62.5°	12262.8	3307.4	252.1	197.0	178.6	168.6	178.6	195.3	188.7	170.3
19759.1	65°	12224.4	2551.1	193.7	168.6	146.9	146.9	155.3	170.3	150.3	120.2
19976.1	67.5°	11511.5	1726.3	160.3	141.9	123.5	121.9	128.6	141.9	128.6	101.8
18864.2	70°	10237.7	1128.6	128.6	110.2	98.5	90.2	103.5	121.9	108.5	81.8
16059.4	72.5°	8309.3	687.9	96.8	80.1	71.8	58.4	81.8	100.2	86.8	60.1
11167.6	75°	5375.9	350.6	66.8	51.8	38.4	35.1	60.1	75.1	60.1	36.7
4955.2	77.5°	2056.9	146.9	36.7	23.4	20.0	16.7	33.4	45.1	25.0	8.3
960.0	80°	395.7	61.8	18.4	11.7	10.0	6.7	5.0	3.3	0.0	0.0
170.3	82.5°	68.5	20.0	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
33.4	85°	23.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.7	87.5°	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
3100.4
1881.6
1101.9
896.5
828.1
764.7
704.5
649.5
596.0
544.3
492.5
450.8
415.7
389.0
364.0
343.9
317.2
295.5
280.5
265.5
255.4
247.1
237.1
225.4
205.4
167.0
116.9
98.5
78.5
56.8
31.7
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