

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: P954004

Luminaire Tested: **GALN-SB7B-850-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954004  
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-SB7B-850-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

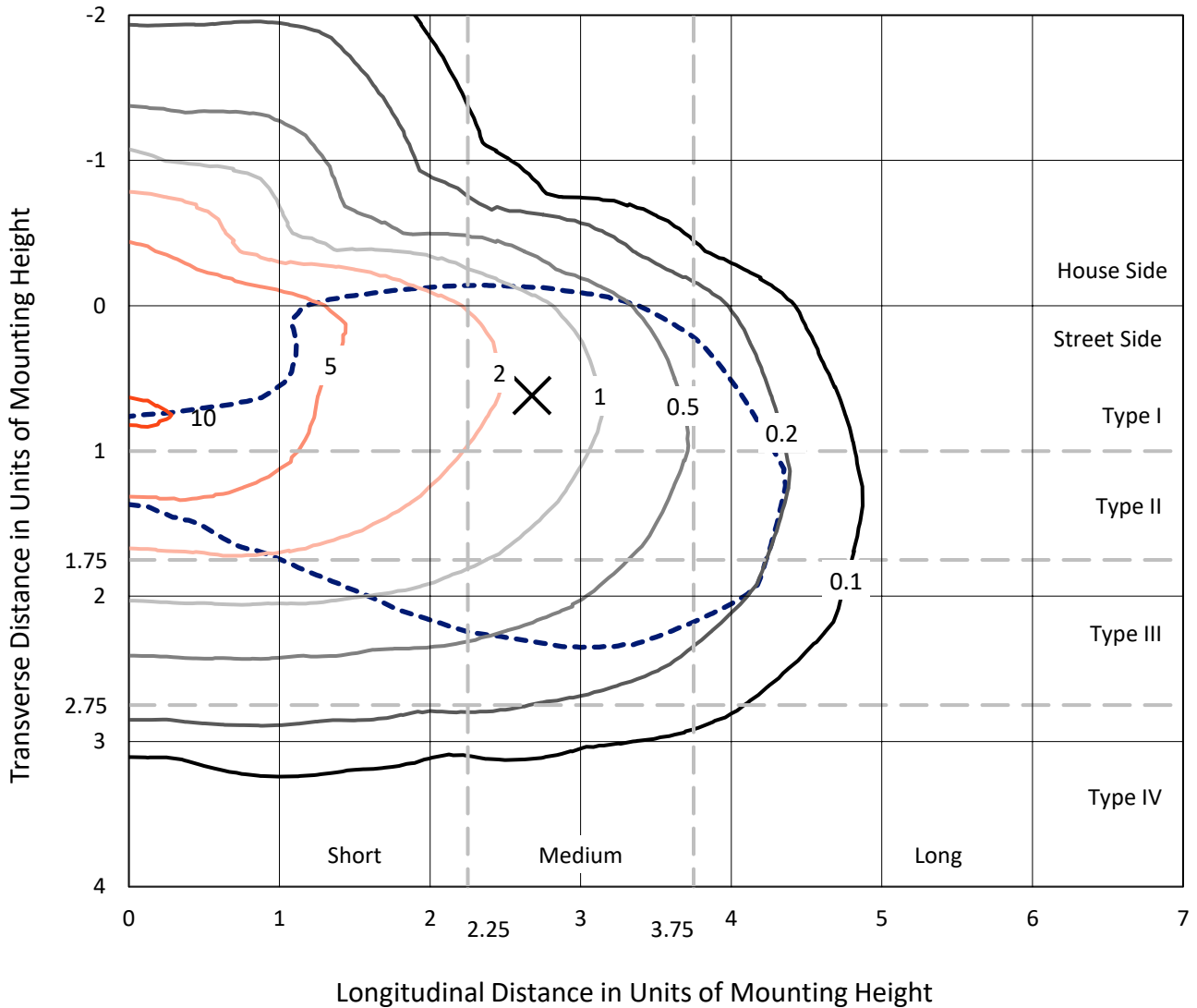
Lumens per Lamp: N/A  
Luminaire Lumens: 39324 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

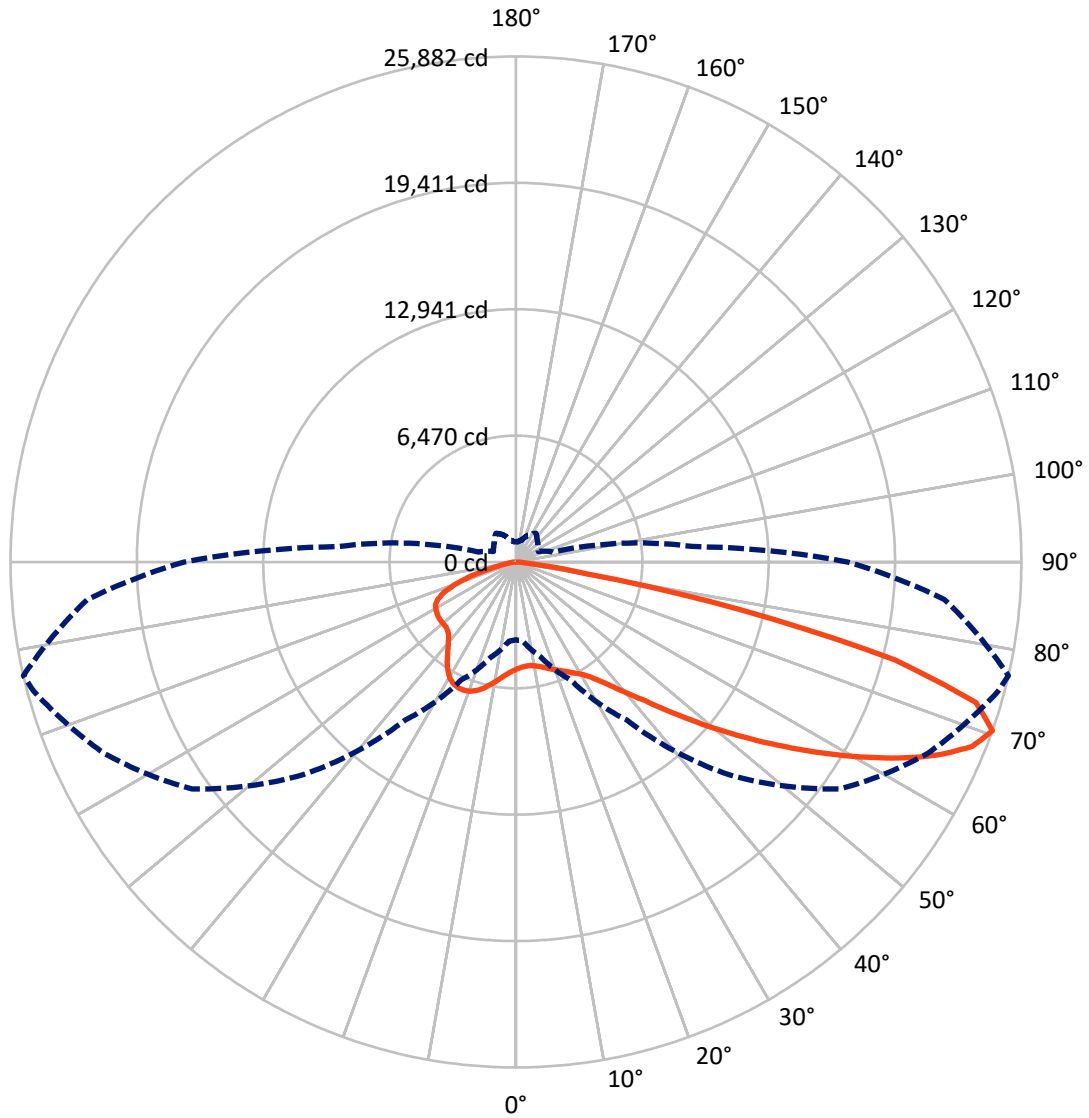
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	8611.3	0.0	8611.3
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	30712.7	0.0	30712.7
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	39324.0	0.0	39324.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.2	1.3
10°-20°	1510.1	3.8
20°-30°	2582.4	6.6
30°-40°	4152.8	10.6
40°-50°	6483.6	16.5
50°-60°	8660.6	22.0
60°-70°	9230.8	23.5
70°-80°	5682.5	14.5
80°-90°	497.9	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°	39324.0	100.0
0°-180°	39324.0	100.0



REPORT NUMBER: P954004

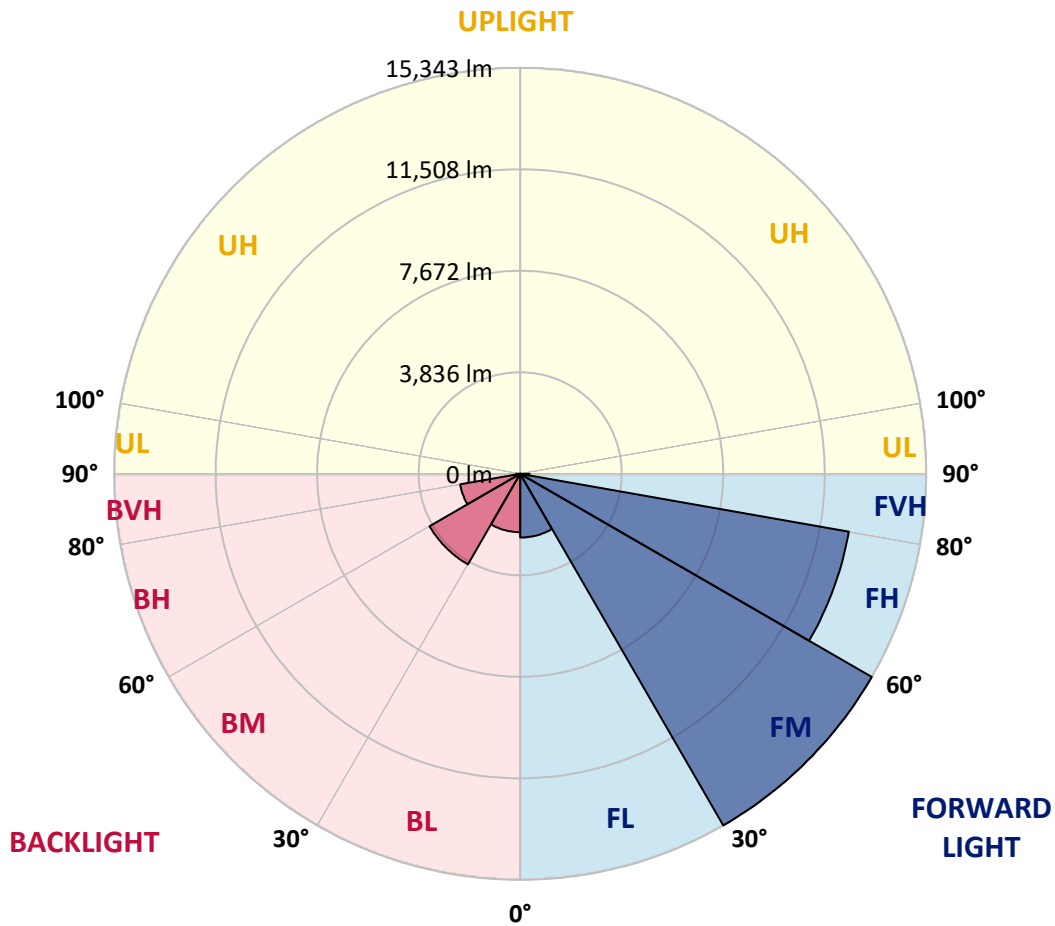
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.2	6.1			
FM (30°-60°)	15343.4	39.0			
FH (60°-80°)	12611.9	32.1			G5
FVH (80°-90°)	348.2	0.9			G3/500
BL (0°-30°)	2206.5	5.6	B3/2500		
BM (30°-60°)	3953.7	10.1	B3/5000		
BH (60°-80°)	2301.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	149.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1
2.5°	5057.1	5055.1	5081.2	5089.3	5137.6	5171.9	5236.3	5304.8	5393.4	5403.5
5°	4765.1	4765.1	4795.3	4827.5	4889.9	4958.4	5057.1	5175.9	5329.0	5353.1
7.5°	4517.3	4533.4	4559.6	4622.1	4694.6	4793.3	4944.3	5113.5	5314.9	5353.1
10°	4318.0	4336.1	4368.3	4418.7	4527.4	4664.4	4861.7	5079.2	5349.1	5409.5
12.5°	4255.5	4273.6	4291.8	4330.0	4430.7	4591.9	4827.5	5095.3	5431.7	5492.1
15°	4400.5	4422.7	4408.6	4398.5	4450.9	4597.9	4843.6	5153.8	5534.4	5621.0
17.5°	4734.8	4742.9	4710.7	4616.0	4608.0	4686.5	4920.1	5234.3	5663.3	5757.9
20°	5274.6	5260.5	5194.0	5006.7	4900.0	4883.9	5051.0	5355.1	5796.2	5896.9
22.5°	6007.7	5991.6	5858.6	5562.6	5324.9	5167.8	5240.4	5512.2	5945.2	6058.0
25°	6922.0	6899.9	6704.5	6301.7	5933.2	5544.5	5498.1	5719.7	6128.5	6233.2
27.5°	7989.4	7971.3	7759.8	7228.1	6696.5	6060.0	5818.4	5963.4	6319.8	6438.7
30°	9137.4	9189.7	8815.2	8243.2	7570.5	6732.7	6249.4	6263.4	6567.6	6674.3
32.5°	10486.7	10577.4	10126.2	9401.2	8482.8	7463.8	6793.1	6682.4	6928.1	7016.7
35°	11824.0	11926.7	11552.1	10750.6	9693.2	8325.8	7361.1	7163.7	7407.4	7504.1
37.5°	12980.0	13117.0	12923.7	12226.8	10988.2	9365.0	8102.2	7729.6	7997.5	8118.3
40°	13892.4	14101.8	14087.7	13652.7	12514.8	10625.7	9042.7	8428.5	8730.6	8861.5
42.5°	14633.5	14814.8	14971.9	14949.7	14107.9	12057.6	10148.4	9336.8	9566.4	9717.4
45°	15145.1	15338.4	15676.7	16041.3	15640.5	13590.3	11415.2	10414.2	10623.7	10851.3
47.5°	15602.2	15821.8	16260.8	16838.8	16941.5	15128.9	12802.8	11668.9	11860.3	12095.9
50°	15642.5	15831.8	16512.5	17332.2	17865.9	16607.2	14293.2	13076.7	13256.0	13507.7
52.5°	14669.8	14967.8	16156.1	17318.1	18290.9	17843.8	15773.4	14540.9	14742.3	15044.4
55°	11387.0	11824.0	15110.8	16778.4	18139.8	18643.3	17181.2	16097.7	16355.5	16671.7
57.5°	9808.0	9999.4	11995.2	15795.6	17451.1	18850.8	18369.4	17670.6	18085.5	18431.9
60°	8815.2	8974.3	10154.4	14267.0	16544.8	18522.5	19287.8	19136.8	19853.7	20266.6
62.5°	7751.8	7902.8	8976.3	11912.6	15384.7	17976.7	19867.8	20490.1	21666.3	22117.4
65°	6696.5	6825.3	7854.5	10009.4	13910.5	17430.9	20167.9	21660.3	23343.9	23811.2
67.5°	5520.3	5627.0	6599.8	8444.6	12118.1	16683.7	20316.9	22580.6	24804.1	25204.8
70°	3983.6	4066.2	5071.2	6678.3	9868.5	15398.8	20256.5	23233.2	25561.3	25881.5
72.5°	1883.1	1957.6	3137.8	4336.1	6970.4	12897.5	19034.0	22715.6	24792.0	24632.9
75°	1005.0	1069.4	1802.5	2378.5	3681.5	8841.3	15576.1	19567.7	20818.4	20045.1
77.5°	680.7	731.1	1115.7	1427.9	1681.7	4197.1	10011.4	13548.0	13034.4	11757.6
80°	539.7	592.1	914.3	966.7	813.6	1516.5	4136.7	6271.5	4505.3	3603.0
82.5°	414.9	473.3	769.3	700.9	443.1	622.3	1204.4	1983.8	1154.0	878.1
85°	253.8	316.2	604.2	447.1	249.7	284.0	408.8	551.8	352.4	294.0
87.5°	128.9	181.3	306.1	163.1	112.8	66.5	108.8	108.8	92.6	80.6
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°
5486.1	0°	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1	5486.1
5457.9	2.5°	5506.2	5546.5	5615.0	5679.4	5729.7	5778.1	5826.4	5852.6	5860.7	5892.9
5488.1	5°	5570.6	5645.2	5778.1	5902.9	5981.5	6029.8	6064.1	6084.2	6088.2	6098.3
5570.6	7.5°	5689.5	5808.3	5993.6	6118.4	6176.8	6172.8	6158.7	6108.4	6088.2	6070.1
5691.5	10°	5856.6	6013.7	6241.3	6327.9	6291.6	6195.0	6070.1	5923.1	5854.6	5788.2
5856.6	12.5°	6064.1	6263.4	6487.0	6483.0	6303.7	6056.0	5766.0	5540.4	5397.4	5294.7
6060.0	15°	6315.8	6545.4	6716.6	6579.6	6186.9	5741.8	5316.9	5022.8	4893.9	4781.2
6265.5	17.5°	6575.6	6821.3	6899.9	6549.4	5892.9	5276.6	4795.3	4563.7	4436.8	4376.4
6487.0	20°	6829.4	7073.1	7008.6	6376.2	5445.8	4748.9	4320.0	4193.1	4166.9	4181.0
6702.5	22.5°	7097.2	7314.7	7030.8	6041.9	4875.8	4209.2	3973.6	3977.6	4036.0	4078.3
6928.1	25°	7371.1	7518.2	6972.4	5558.6	4263.6	3812.4	3754.0	3818.5	3933.3	4015.9
7181.8	27.5°	7635.0	7699.4	6845.5	4960.4	3737.9	3528.5	3538.5	3671.5	3844.7	3959.5
7490.0	30°	7933.0	7860.5	6601.8	4287.7	3373.4	3284.8	3369.4	3524.4	3697.7	3800.4
7878.7	32.5°	8269.4	7999.5	6215.1	3665.4	3115.6	3089.4	3228.4	3329.1	3405.6	3435.8
8394.2	35°	8688.3	8194.8	5719.7	3228.4	2884.0	2946.4	3079.4	3029.0	2998.8	2982.7
9087.0	37.5°	9232.0	8458.7	5139.7	2944.4	2696.7	2843.7	2898.1	2741.0	2622.2	2563.8
9926.9	40°	9886.6	8845.4	4581.8	2724.9	2577.9	2755.1	2660.5	2471.1	2320.1	2237.5
10871.4	42.5°	10613.6	9250.2	4112.5	2559.8	2511.4	2682.6	2485.2	2259.7	2016.0	1989.8
11997.2	45°	11376.9	9667.1	3792.3	2432.9	2479.2	2620.2	2384.5	2020.0	1846.8	1953.6
13127.1	47.5°	12140.2	10049.7	3599.0	2338.2	2463.1	2549.7	2295.9	1887.1	1764.2	1919.3
14337.5	50°	12990.1	10392.1	3512.4	2269.7	2445.0	2521.5	2163.0	1852.9	1677.6	1780.4
15590.1	52.5°	13834.0	10657.9	3447.9	2201.3	2418.8	2499.3	2098.6	1812.6	1572.9	1579.0
16850.9	55°	14675.8	10831.1	3377.4	2110.6	2360.4	2451.0	2092.5	1768.3	1494.4	1466.2
18184.1	57.5°	15574.0	10929.8	3290.8	2009.9	2259.7	2328.2	2086.5	1734.0	1470.2	1423.9
19547.6	60°	16488.4	11074.8	3178.0	1887.1	2124.7	2181.1	2072.4	1721.9	1456.1	1377.6
20832.5	62.5°	17308.1	11125.2	3043.1	1770.3	1951.5	2036.1	2042.2	1711.9	1417.8	1282.9
21899.9	65°	17845.8	10907.7	2807.5	1637.4	1764.2	1887.1	1983.8	1677.6	1349.4	1214.4
22427.6	67.5°	17823.6	10287.4	2438.9	1466.2	1583.0	1721.9	1899.2	1619.2	1266.8	1129.8
22028.8	70°	16993.9	9062.9	1971.7	1266.8	1383.6	1544.7	1790.4	1532.6	1168.1	1037.2
19587.9	72.5°	14575.1	7093.2	1431.9	1033.2	1152.0	1361.4	1649.4	1427.9	1067.4	954.6
14476.4	75°	10412.2	4489.1	970.7	793.5	896.2	1154.0	1474.2	1305.1	974.8	958.7
7250.3	77.5°	5318.9	2144.9	642.5	580.0	624.3	910.3	1238.6	1166.1	988.9	791.5
2062.3	80°	1730.0	791.5	404.8	394.7	414.9	606.2	958.7	956.6	749.2	537.7
499.5	82.5°	551.8	340.4	263.8	253.8	243.7	380.6	668.6	757.3	505.5	340.4
179.2	85°	219.5	203.4	155.1	143.0	102.7	179.2	350.4	503.5	376.6	245.7
46.3	87.5°	80.6	80.6	42.3	30.2	22.2	60.4	94.7	151.0	215.5	126.9
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>
5486.1
5911.0
6114.4
6074.1
5768.0
5270.6
4769.1
4394.5
4175.0
4088.4
4038.0
3987.7
3824.5
3451.9
2998.8
2577.9
2243.6
2016.0
2009.9
1991.8
1856.9
1621.2
1486.3
1429.9
1383.6
1282.9
1214.4
1135.9
<b>1049.3</b>
948.6
904.3
704.9
475.3
338.3
251.7
124.9
0.0

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