

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: P951694

Luminaire Tested: **GALN-SB5D-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951694
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-SB5D-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52771 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

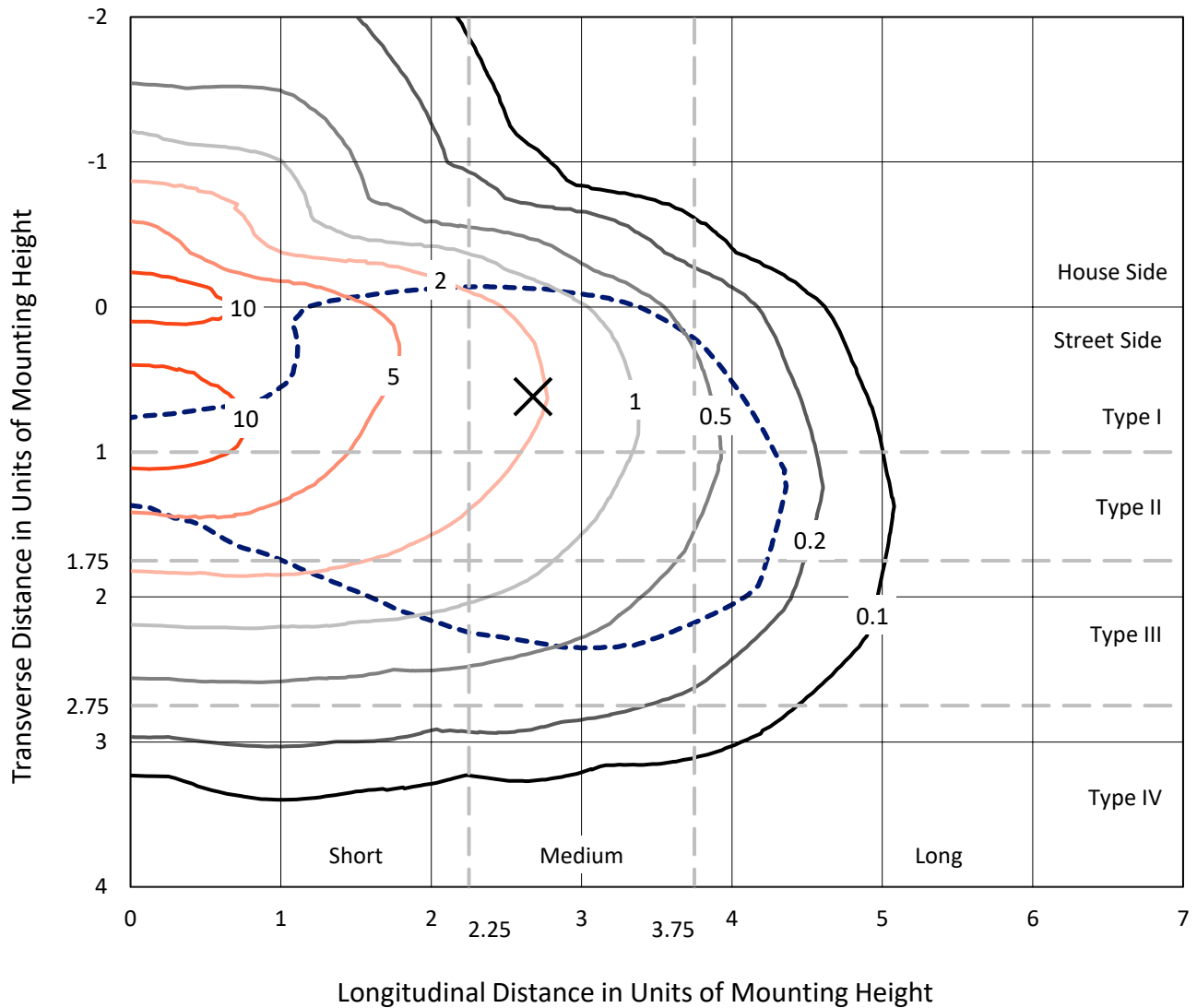
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

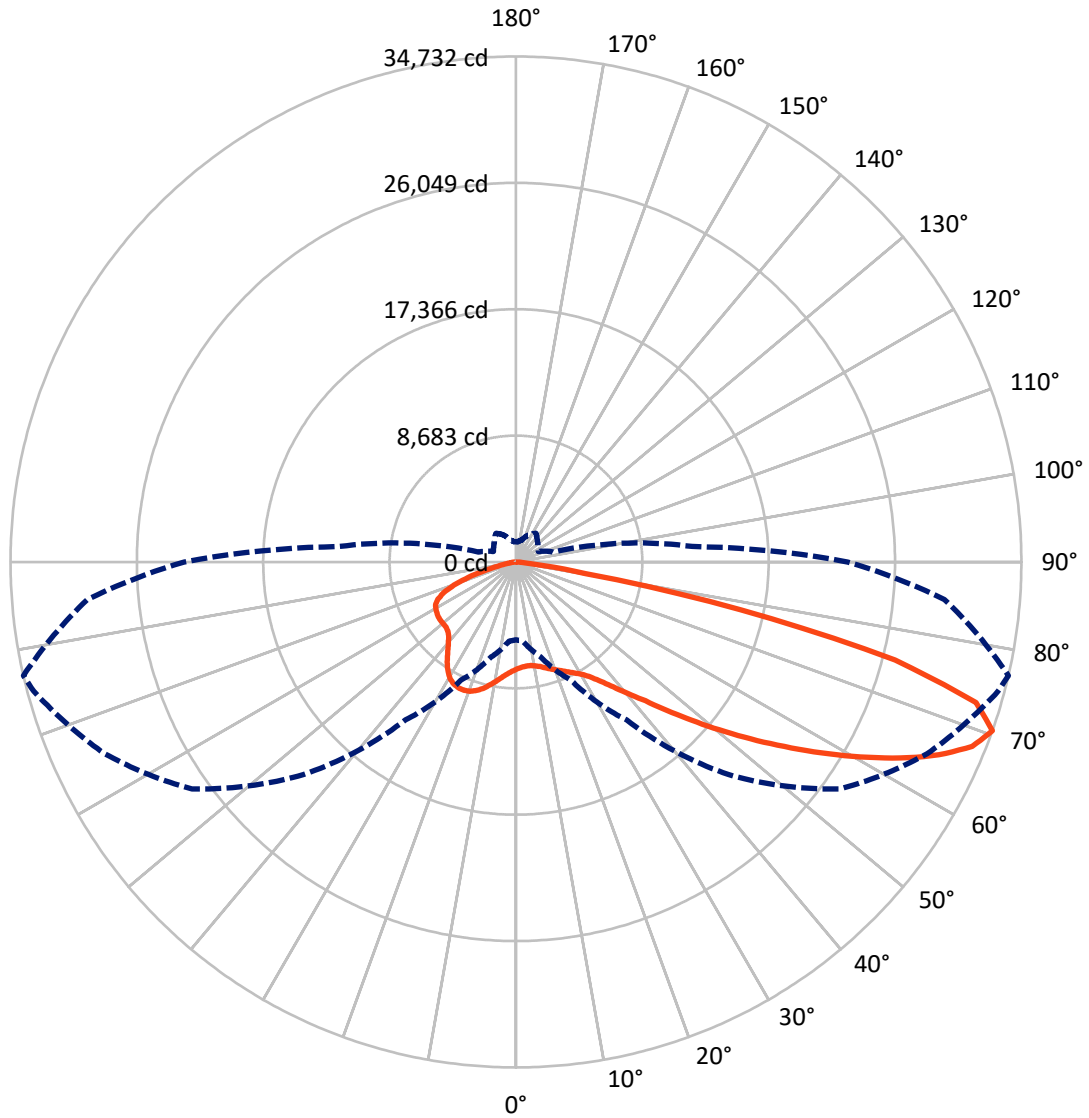
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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
House Side	Lumens	11556.0	0.0	11556.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	41215.0	0.0	41215.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	52771.0	0.0	52771.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.1	1.3
10°-20°	2026.5	3.8
20°-30°	3465.5	6.6
30°-40°	5572.9	10.6
40°-50°	8700.7	16.5
50°-60°	11622.1	22.0
60°-70°	12387.4	23.5
70°-80°	7625.6	14.5
80°-90°	668.2	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°	52771.0	100.0
0°-180°	52771.0	100.0



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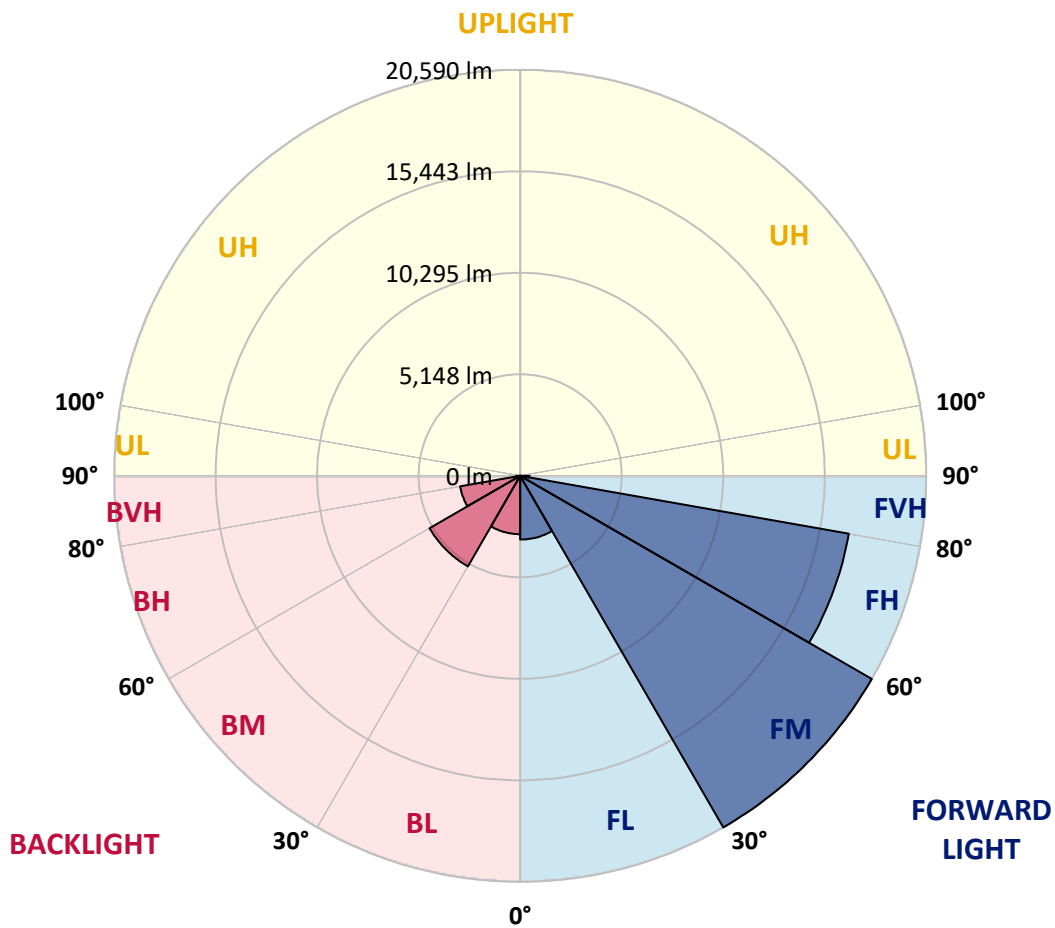
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3233.1	6.1			
FM (30°-60°)	20590.1	39.0			
FH (60°-80°)	16924.5	32.1			G5
FVH (80°-90°)	467.2	0.9			G3/500
BL (0°-30°)	2961.0	5.6	B4/5000		
BM (30°-60°)	5305.6	10.1	B4/8500		
BH (60°-80°)	3088.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	201.0	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°	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0
2.5°	6786.4	6783.7	6818.8	6829.6	6894.5	6940.4	7026.9	7118.8	7237.7	7251.2
5°	6394.5	6394.5	6435.0	6478.3	6562.0	6653.9	6786.4	6945.8	7151.2	7183.7
7.5°	6062.1	6083.7	6118.8	6202.6	6299.9	6432.3	6635.0	6862.0	7132.3	7183.7
10°	5794.5	5818.8	5862.1	5929.6	6075.6	6259.4	6524.2	6816.1	7178.3	7259.3
12.5°	5710.7	5735.0	5759.4	5810.7	5945.8	6162.1	6478.3	6837.7	7289.1	7370.1
15°	5905.3	5935.0	5916.1	5902.6	5972.9	6170.2	6499.9	6916.1	7426.9	7543.1
17.5°	6353.9	6364.8	6321.5	6194.5	6183.7	6289.1	6602.6	7024.2	7599.9	7726.9
20°	7078.3	7059.3	6970.2	6718.8	6575.6	6553.9	6778.3	7186.4	7778.2	7913.4
22.5°	8062.0	8040.4	7862.0	7464.7	7145.8	6935.0	7032.3	7397.2	7978.2	8129.6
25°	9289.0	9259.3	8997.1	8456.6	7962.0	7440.4	7378.3	7675.5	8224.2	8364.7
27.5°	10721.4	10697.1	10413.3	9699.8	8986.3	8132.3	7808.0	8002.6	8480.9	8640.4
30°	12262.0	12332.2	11829.5	11062.0	10159.3	9035.0	8386.3	8405.3	8813.4	8956.6
32.5°	14072.7	14194.4	13589.0	12616.0	11383.6	10016.0	9116.1	8967.4	9297.1	9416.1
35°	15867.3	16005.1	15502.4	14426.8	13007.9	11172.8	9878.2	9613.3	9940.4	10070.1
37.5°	17418.6	17602.4	17342.9	16407.8	14745.7	12567.4	10872.8	10372.8	10732.2	10894.4
40°	18642.9	18924.0	18905.1	18321.3	16794.3	14259.2	12134.9	11310.6	11716.0	11891.7
42.5°	19637.5	19880.7	20091.5	20061.8	18932.1	16180.8	13618.7	12529.5	12837.6	13040.3
45°	20324.0	20583.4	21037.5	21526.7	20988.8	18237.5	15318.7	13975.4	14256.5	14561.9
47.5°	20937.5	21232.1	21821.2	22596.9	22734.7	20302.4	17180.8	15659.2	15915.9	16232.2
50°	20991.5	21245.6	22159.1	23259.1	23975.3	22286.1	19180.8	17548.3	17788.9	18126.7
52.5°	19686.1	20086.1	21680.7	23240.1	24545.5	23945.5	21167.2	19513.2	19783.4	20188.8
55°	15280.8	15867.3	20278.0	22515.8	24342.8	25018.5	23056.4	21602.3	21948.3	22372.6
57.5°	13161.9	13418.7	16097.0	21196.9	23418.5	25296.9	24650.9	23713.1	24269.9	24734.7
60°	11829.5	12043.0	13626.8	19145.6	22202.3	24856.3	25883.3	25680.6	26642.8	27196.8
62.5°	10402.5	10605.2	12045.7	15986.2	20645.6	24123.9	26661.7	27496.8	29075.2	29680.6
65°	8986.3	9159.3	10540.4	13432.2	18667.2	23391.5	27064.4	29067.1	31326.5	31953.5
67.5°	7408.0	7551.2	8856.6	11332.2	16261.9	22388.8	27264.4	30302.2	33285.9	33823.7
70°	5345.9	5456.7	6805.3	8962.0	13243.0	20664.5	27183.3	31177.8	34302.1	34731.8
72.5°	2527.0	2627.0	4210.7	5818.8	9353.9	17307.8	25542.8	30483.3	33269.7	33056.2
75°	1348.6	1435.1	2418.9	3191.8	4940.5	11864.7	20902.3	26259.0	27937.4	26899.5
77.5°	913.5	981.1	1497.3	1916.2	2256.7	5632.3	13434.9	18180.8	17491.6	15778.1
80°	724.3	794.6	1227.0	1297.3	1091.9	2035.1	5551.3	8416.1	6045.8	4835.1
82.5°	556.7	635.1	1032.4	940.5	594.6	835.1	1616.2	2662.1	1548.6	1178.4
85°	340.5	424.3	810.8	600.0	335.1	381.1	548.6	740.5	473.0	394.6
87.5°	173.0	243.2	410.8	218.9	151.3	89.2	145.9	145.9	124.3	108.1
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°
7362.0	0°	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0	7362.0
7324.2	2.5°	7389.1	7443.1	7535.0	7621.5	7689.1	7753.9	7818.8	7853.9	7864.7	7908.0
7364.7	5°	7475.5	7575.5	7753.9	7921.5	8026.9	8091.8	8137.7	8164.7	8170.1	8183.6
7475.5	7.5°	7635.0	7794.5	8043.1	8210.7	8289.0	8283.6	8264.7	8197.2	8170.1	8145.8
7637.7	10°	7859.3	8070.1	8375.5	8491.7	8443.1	8313.4	8145.8	7948.5	7856.6	7767.4
7859.3	12.5°	8137.7	8405.3	8705.3	8699.9	8459.3	8126.9	7737.7	7435.0	7243.1	7105.3
8132.3	15°	8475.5	8783.6	9013.4	8829.6	8302.6	7705.3	7135.0	6740.4	6567.5	6416.1
8408.0	17.5°	8824.2	9153.9	9259.3	8789.0	7908.0	7081.0	6435.0	6124.2	5954.0	5872.9
8705.3	20°	9164.7	9491.7	9405.2	8556.6	7308.0	6372.9	5797.2	5626.9	5591.8	5610.7
8994.4	22.5°	9524.2	9816.0	9435.0	8108.0	6543.1	5648.6	5332.3	5337.7	5416.1	5472.9
9297.1	25°	9891.7	10089.0	9356.6	7459.3	5721.5	5116.1	5037.8	5124.2	5278.3	5389.1
9637.7	27.5°	10245.8	10332.3	9186.3	6656.6	5016.1	4735.1	4748.6	4926.9	5159.4	5313.4
10051.2	30°	10645.8	10548.5	8859.3	5754.0	4526.9	4408.0	4521.5	4729.6	4962.1	5099.9
10572.8	32.5°	11097.1	10735.0	8340.4	4918.8	4181.0	4145.9	4332.4	4467.5	4570.2	4610.7
11264.7	35°	11659.3	10997.1	7675.5	4332.4	3870.2	3954.0	4132.4	4064.8	4024.3	4002.6
12194.4	37.5°	12389.0	11351.2	6897.2	3951.3	3618.9	3816.2	3889.1	3678.3	3518.9	3440.5
13321.4	40°	13267.3	11870.1	6148.5	3656.7	3459.4	3697.2	3570.2	3316.2	3113.5	3002.7
14588.9	42.5°	14243.0	12413.3	5518.8	3435.1	3370.2	3599.9	3335.1	3032.4	2705.4	2670.2
16099.7	45°	15267.3	12972.8	5089.1	3264.8	3327.0	3516.2	3199.9	2710.8	2478.3	2621.6
17615.9	47.5°	16291.6	13486.3	4829.6	3137.8	3305.3	3421.6	3081.0	2532.4	2367.5	2575.6
19240.2	50°	17432.1	13945.7	4713.4	3045.9	3281.0	3383.7	2902.7	2486.4	2251.3	2389.1
20921.3	52.5°	18564.5	14302.5	4626.9	2954.0	3245.9	3354.0	2816.2	2432.4	2110.8	2118.9
22613.1	55°	19694.3	14534.9	4532.4	2832.4	3167.5	3289.1	2808.1	2372.9	2005.4	1967.5
24402.3	57.5°	20899.6	14667.3	4416.1	2697.3	3032.4	3124.3	2800.0	2327.0	1972.9	1910.8
26232.0	60°	22126.6	14861.9	4264.8	2532.4	2851.3	2927.0	2781.0	2310.8	1954.0	1848.6
27956.3	62.5°	23226.6	14929.5	4083.7	2375.6	2618.9	2732.4	2740.5	2297.3	1902.7	1721.6
29388.7	65°	23948.2	14637.6	3767.5	2197.3	2367.5	2532.4	2662.1	2251.3	1810.8	1629.7
30096.8	67.5°	23918.5	13805.2	3272.9	1967.5	2124.3	2310.8	2548.6	2172.9	1700.0	1516.2
29561.7	70°	22805.0	12162.0	2645.9	1700.0	1856.7	2072.9	2402.7	2056.7	1567.5	1391.9
26286.0	72.5°	19559.1	9518.8	1921.6	1386.5	1545.9	1827.0	2213.5	1916.2	1432.4	1281.1
19426.7	75°	13972.7	6024.2	1302.7	1064.8	1202.7	1548.6	1978.3	1751.3	1308.1	1286.5
9729.6	77.5°	7137.7	2878.3	862.1	778.4	837.8	1221.6	1662.1	1564.8	1327.0	1062.1
2767.5	80°	2321.6	1062.1	543.2	529.7	556.7	813.5	1286.5	1283.8	1005.4	721.6
670.3	82.5°	740.5	456.7	354.0	340.5	327.0	510.8	897.3	1016.2	678.4	456.7
240.5	85°	294.6	273.0	208.1	191.9	137.8	240.5	470.3	675.7	505.4	329.7
62.2	87.5°	108.1	108.1	56.8	40.5	29.7	81.1	127.0	202.7	289.2	170.3
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>
7362.0
7932.3
8205.3
8151.2
7740.4
7072.9
6399.9
5897.2
5602.6
5486.4
5418.8
5351.3
5132.3
4632.4
4024.3
3459.4
3010.8
2705.4
2697.3
2672.9
2491.8
2175.6
1994.6
1918.9
1856.7
1721.6
1629.7
1524.3
<i>1408.1</i>
1273.0
1213.5
945.9
637.8
454.0
337.8
167.6
0.0

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