

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: P942485

Luminaire Tested: **GALN-SB6C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44999 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

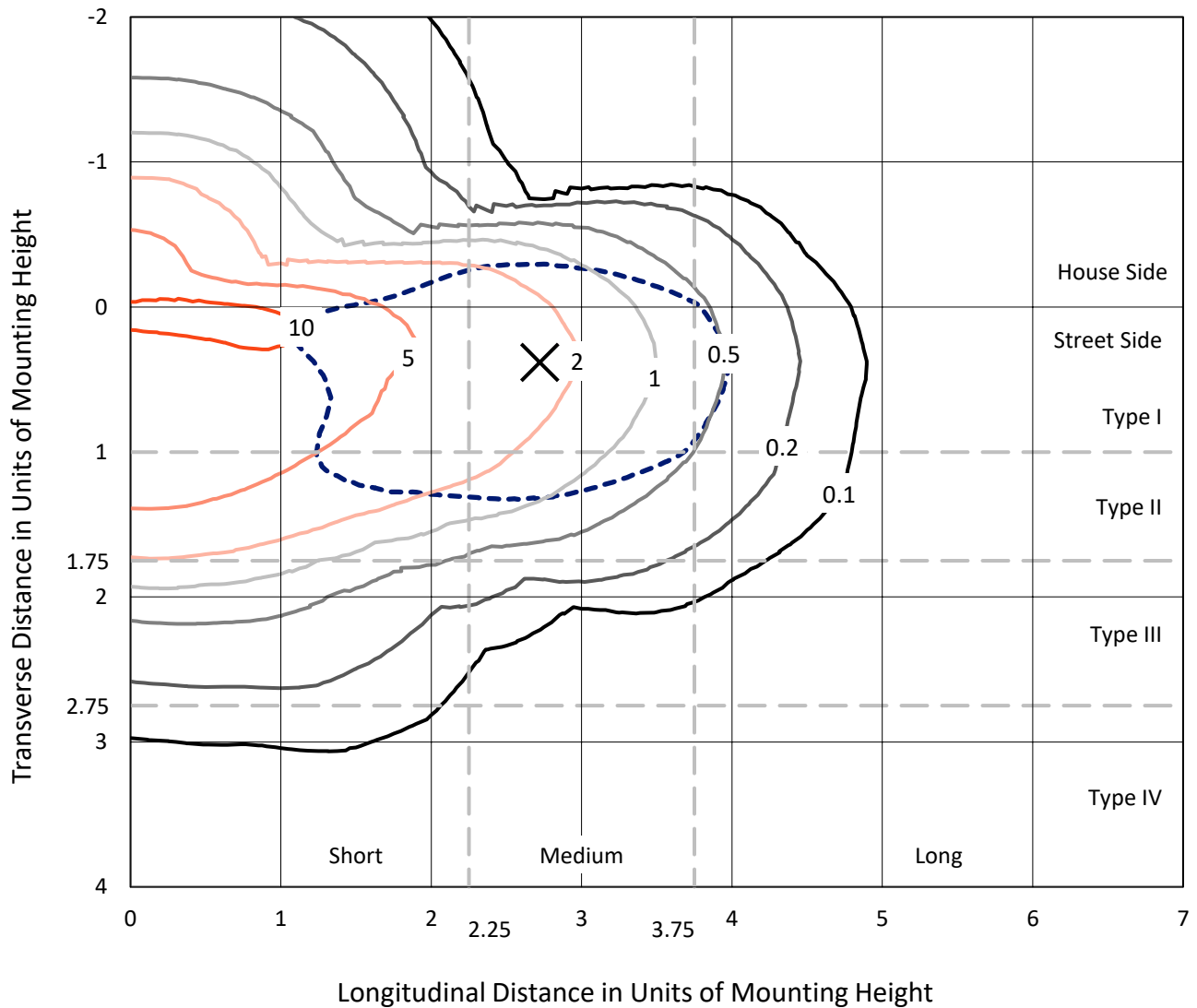
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

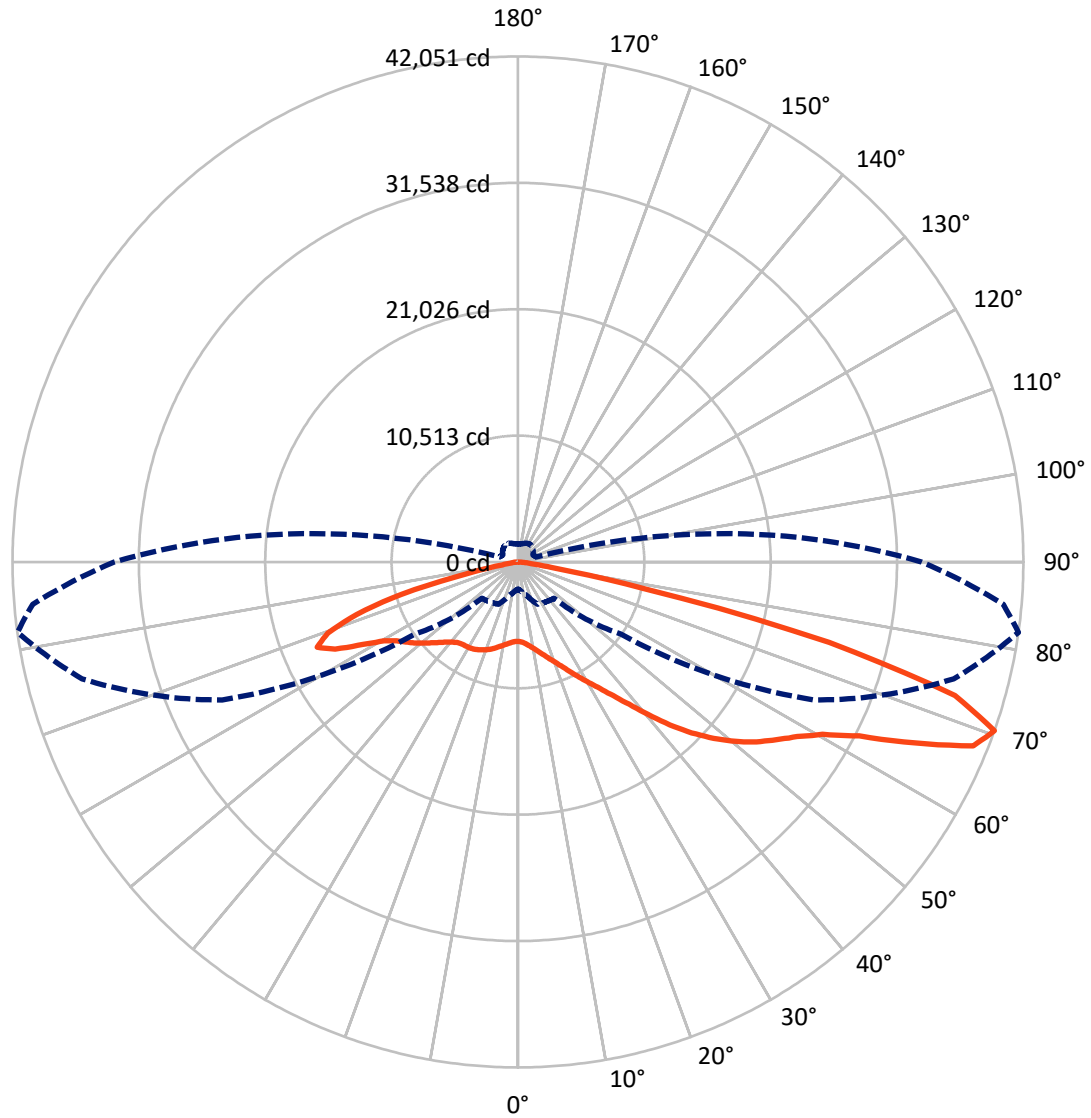
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11093.4	0.0	11093.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	33905.6	0.0	33905.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	44999.0	0.0	44999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.9	1.4
10°-20°	1789.7	4.0
20°-30°	2993.9	6.7
30°-40°	4677.3	10.4
40°-50°	7449.1	16.6
50°-60°	10366.4	23.0
60°-70°	10843.7	24.1
70°-80°	5667.5	12.6
80°-90°	588.5	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°	44999.0	100.0
0°-180°	44999.0	100.0

Coefficient of Utilization



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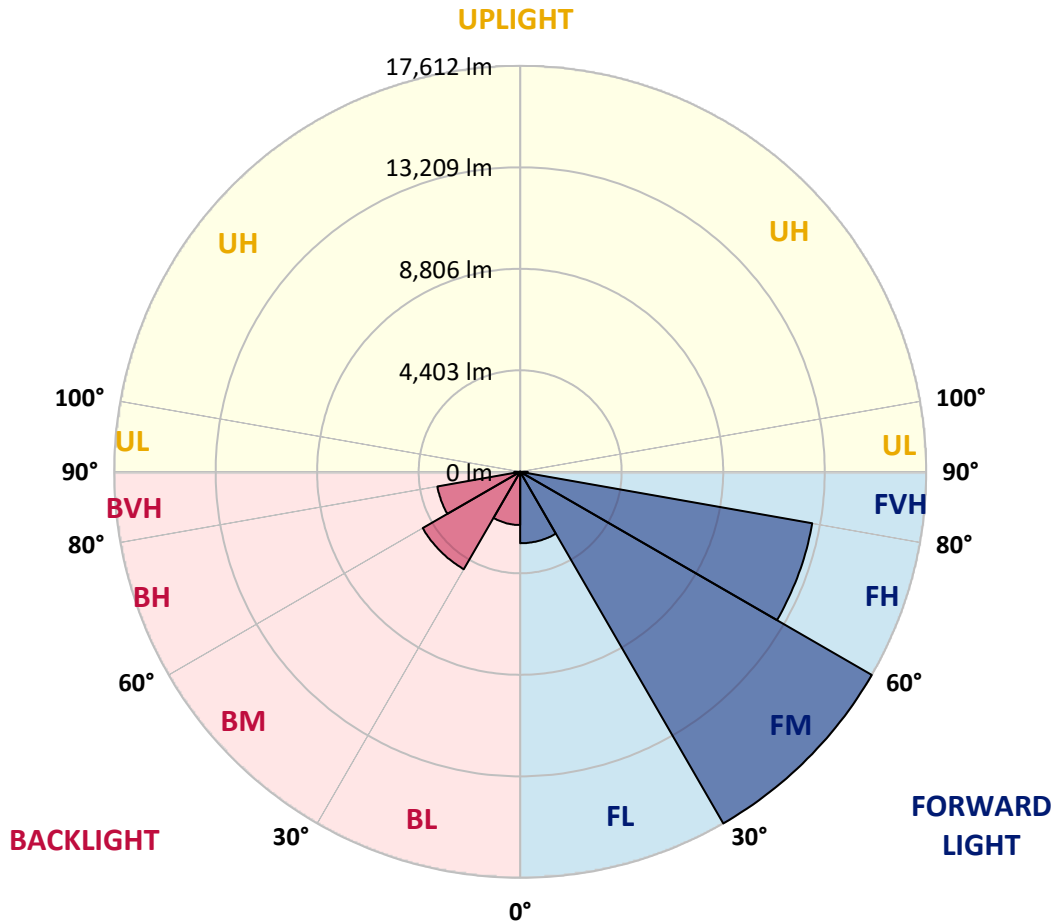
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3098.7	6.9			
FM (30°-60°)	17612.2	39.1			
FH (60°-80°)	12865.4	28.6			G5
FVH (80°-90°)	329.4	0.7			G3/500
BL (0°-30°)	2307.8	5.1	B3/2500		
BM (30°-60°)	4880.6	10.8	B3/5000		
BH (60°-80°)	3645.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	259.1	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4
2.5°	6755.0	6793.2	6781.3	6769.3	6769.3	6752.6	6750.2	6726.4	6707.3	6676.2
5°	6841.0	6881.6	6876.8	6886.3	6917.4	6924.5	6931.7	6917.4	6879.2	6841.0
7.5°	6764.6	6809.9	6824.3	6881.6	6977.1	7063.0	7127.5	7153.8	7118.0	7063.0
10°	6506.7	6556.8	6607.0	6743.1	6912.6	7115.6	7287.5	7390.2	7383.0	7330.5
12.5°	5983.8	6036.3	6143.7	6408.8	6719.2	7077.4	7397.3	7612.2	7686.2	7648.0
15°	5565.9	5611.3	5692.5	5964.7	6368.2	6912.6	7437.9	7855.8	8044.4	8022.9
17.5°	5554.0	5573.1	5623.2	5752.1	6062.6	6654.7	7394.9	8094.5	8455.1	8452.7
20°	5764.1	5771.2	5799.9	5826.2	6002.9	6458.9	7285.1	8292.7	8915.9	8915.9
22.5°	6055.4	6050.6	6079.3	6055.4	6141.4	6442.2	7215.8	8467.0	9429.3	9467.5
25°	6492.4	6468.5	6461.3	6406.4	6423.1	6597.4	7292.3	8665.2	10038.2	10117.0
27.5°	7075.0	7036.8	7010.5	6883.9	6841.0	6917.4	7526.3	8904.0	10716.3	10852.4
30°	7834.3	7765.0	7726.8	7507.2	7352.0	7363.9	7879.7	9221.6	11425.5	11645.2
32.5°	8870.6	8763.1	8660.5	8299.9	8015.8	7922.6	8335.7	9660.9	12194.4	12545.4
35°	10031.0	9945.1	9835.2	9278.9	8841.9	8627.0	8951.8	10274.6	13094.5	13650.9
37.5°	11148.5	11074.5	11127.0	10377.3	9813.7	9500.9	9758.8	11098.4	14204.9	15026.3
40°	12304.2	12246.9	12254.0	11537.7	10881.1	10530.1	10737.8	12132.3	15477.5	16661.9
42.5°	13560.2	13517.2	13373.9	12738.8	12000.9	11673.8	11864.8	13326.2	16843.3	18524.3
45°	14966.6	14940.3	14806.6	14078.3	13233.0	12865.3	13123.2	14644.2	18216.3	20277.0
47.5°	16181.9	16203.4	16186.7	15573.1	14696.7	14157.1	14465.1	16019.6	19493.8	21924.5
50°	16766.9	16879.2	17043.9	16852.9	16308.5	15759.3	15819.0	17347.2	20711.5	23469.4
52.5°	16461.3	16673.8	17122.7	17428.4	17638.5	17523.9	17363.9	18665.2	21857.7	24863.9
55°	15322.3	15620.8	16365.8	17103.6	18175.7	19009.1	19219.2	20126.5	22975.1	26091.2
57.5°	13247.4	13732.1	14400.7	15893.0	17698.2	19727.8	21382.5	22153.8	24159.5	27402.1
60°	9689.6	10339.1	11170.0	13390.6	16026.7	19343.3	23223.5	25267.4	25842.9	29099.8
62.5°	6201.0	6602.2	7366.3	9458.0	12488.1	17373.4	23787.0	29159.5	28696.3	31883.9
65°	4245.5	4503.3	5203.0	6377.7	8073.1	12932.2	22277.9	32077.3	33228.2	36296.5
67.5°	3085.0	3280.8	3877.7	4906.9	5260.3	7652.8	17287.5	31943.6	37633.7	40842.9
70°	2249.3	2387.8	2889.2	3877.7	4047.3	4257.4	10472.8	27153.8	37538.2	42051.1
72.5°	1666.7	1762.2	2098.9	3008.6	3276.0	2874.9	5183.9	19734.9	32256.4	38034.8
75°	1205.8	1277.5	1525.8	2301.8	2621.8	2189.6	2586.0	11532.9	22500.0	26755.0
77.5°	921.7	976.6	1139.0	1685.8	2098.9	1642.8	1604.6	5305.6	10668.6	10721.1
80°	740.2	776.0	864.4	1186.7	1609.4	1229.7	1045.8	2141.8	3371.5	2853.4
82.5°	544.4	604.1	730.7	833.3	1150.9	847.7	637.5	1081.7	1282.2	1103.2
85°	310.4	351.0	441.7	596.9	735.4	518.1	365.3	479.9	596.9	489.5
87.5°	109.8	143.3	155.2	234.0	320.0	214.9	140.9	138.5	195.8	145.7
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°
6597.4	0°	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4	6597.4
6669.0	2.5°	6645.2	6633.2	6585.5	6521.0	6454.1	6389.7	6368.2	6322.8	6291.8	6275.1
6824.3	5°	6778.9	6740.7	6628.5	6485.2	6334.8	6172.4	6057.8	5952.7	5876.3	5804.7
7036.8	7.5°	6969.9	6903.1	6709.6	6458.9	6191.5	5921.7	5721.1	5568.3	5465.6	5398.8
7285.1	10°	7192.0	7089.3	6793.2	6418.3	6005.2	5618.4	5382.0	5250.7	5186.2	5150.4
7569.2	12.5°	7447.5	7301.8	6879.2	6325.2	5721.1	5279.4	5117.0	5078.8	5081.2	5083.6
7927.4	15°	7762.6	7559.7	6948.4	6122.2	5351.0	5019.1	4990.4	5052.5	5117.0	5148.0
8333.3	17.5°	8118.4	7831.9	6960.4	5788.0	4988.1	4852.0	4942.7	5076.4	5174.3	5217.3
8787.0	20°	8500.5	8108.9	6874.4	5315.2	4689.6	4715.9	4878.2	5050.1	5157.6	5212.5
9305.2	22.5°	8937.4	8405.0	6669.0	4818.5	4446.0	4567.8	4758.8	4926.0	5038.2	5093.1
9914.0	25°	9436.5	8736.9	6346.7	4400.7	4235.9	4400.7	4591.7	4730.2	4820.9	4871.1
10594.5	27.5°	9990.4	9083.1	5916.9	4068.8	4052.1	4228.7	4386.3	4493.8	4541.5	4579.7
11318.0	30°	10546.8	9398.3	5396.4	3818.0	3892.1	4059.2	4171.4	4219.2	4233.5	4240.7
12125.1	32.5°	11148.5	9670.5	4849.6	3610.3	3739.3	3894.5	3961.3	3982.8	3915.9	3870.6
13104.1	35°	11876.8	9961.8	4314.7	3445.6	3588.8	3722.5	3744.0	3724.9	3646.1	3553.0
14331.4	37.5°	12777.0	10324.7	3887.3	3328.6	3447.9	3536.3	3510.0	3505.3	3512.4	3402.6
15807.1	40°	13880.1	10797.5	3574.5	3237.8	3333.3	3352.4	3278.4	3319.0	3354.8	3187.7
17426.0	42.5°	15105.1	11368.2	3376.3	3175.7	3237.8	3192.5	3077.8	3123.2	3118.4	2898.8
19052.0	45°	16353.9	11989.0	3307.1	3130.4	3149.5	3058.7	2932.2	2944.1	2843.8	2645.7
20611.3	47.5°	17595.5	12655.2	3350.0	3092.2	3039.6	2937.0	2839.1	2786.5	2638.5	2490.4
22106.0	50°	18813.3	13354.8	3507.6	3015.8	2889.2	2829.5	2757.9	2664.8	2507.2	2380.6
23519.6	52.5°	19942.7	14059.2	3684.3	2889.2	2700.6	2736.4	2691.0	2583.6	2428.4	2299.4
24856.7	55°	21012.4	14763.6	3753.6	2714.9	2523.9	2655.2	2628.9	2430.8	2244.5	2139.4
26255.9	57.5°	22177.6	15611.3	3677.2	2492.8	2380.6	2562.1	2461.8	2242.1	2134.7	2055.9
28077.8	60°	23791.8	16941.2	3512.4	2218.2	2244.5	2423.6	2251.7	2160.9	2043.9	1955.6
30809.4	62.5°	26473.2	19422.1	3247.4	1946.0	2084.5	2218.2	2151.4	2060.6	1941.3	1855.3
35479.9	65°	30436.9	22870.1	2748.3	1733.5	1905.4	2017.7	2043.9	1953.2	1829.0	1738.3
39572.6	67.5°	33779.8	25033.4	2079.8	1556.8	1721.6	1855.3	1929.3	1841.0	1709.6	1621.3
40530.1	70°	33596.0	23462.3	1587.9	1382.5	1559.2	1695.3	1790.8	1721.6	1580.7	1497.1
36814.7	72.5°	29840.0	19627.5	1284.6	1205.8	1394.5	1528.2	1642.8	1590.3	1447.0	1365.8
26969.9	75°	21922.1	13932.7	1026.7	1026.7	1189.1	1353.9	1480.4	1447.0	1315.7	1258.4
11322.8	77.5°	9240.7	5845.3	804.7	852.4	988.5	1162.8	1320.4	1332.4	1217.8	1289.4
2994.3	80°	2457.0	1611.7	613.7	671.0	776.0	959.9	1148.5	1143.7	1019.6	952.7
1112.7	82.5°	936.0	635.1	437.0	472.8	561.1	735.4	909.7	938.4	814.2	704.4
437.0	85°	360.6	272.2	269.8	284.1	327.1	487.1	687.7	711.6	613.7	520.5
121.8	87.5°	93.1	81.2	100.3	95.5	150.4	260.3	394.0	408.3	374.9	217.3
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>
6597.4
6294.2
5833.3
5413.1
5160.0
5088.3
5145.7
5226.8
5226.8
5107.4
4885.4
4594.1
4257.4
3884.9
3557.8
3409.7
3192.5
2896.4
2652.8
2490.4
2371.1
2301.8
2129.9
2048.7
1950.8
1855.3
1743.1
1623.7
1504.3
1365.8
1241.6
1170.0
885.9
704.4
537.2
310.4
0.0

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