

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: P943217

Luminaire Tested: **GALN-SB7C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943217
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-SB7C-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47889 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

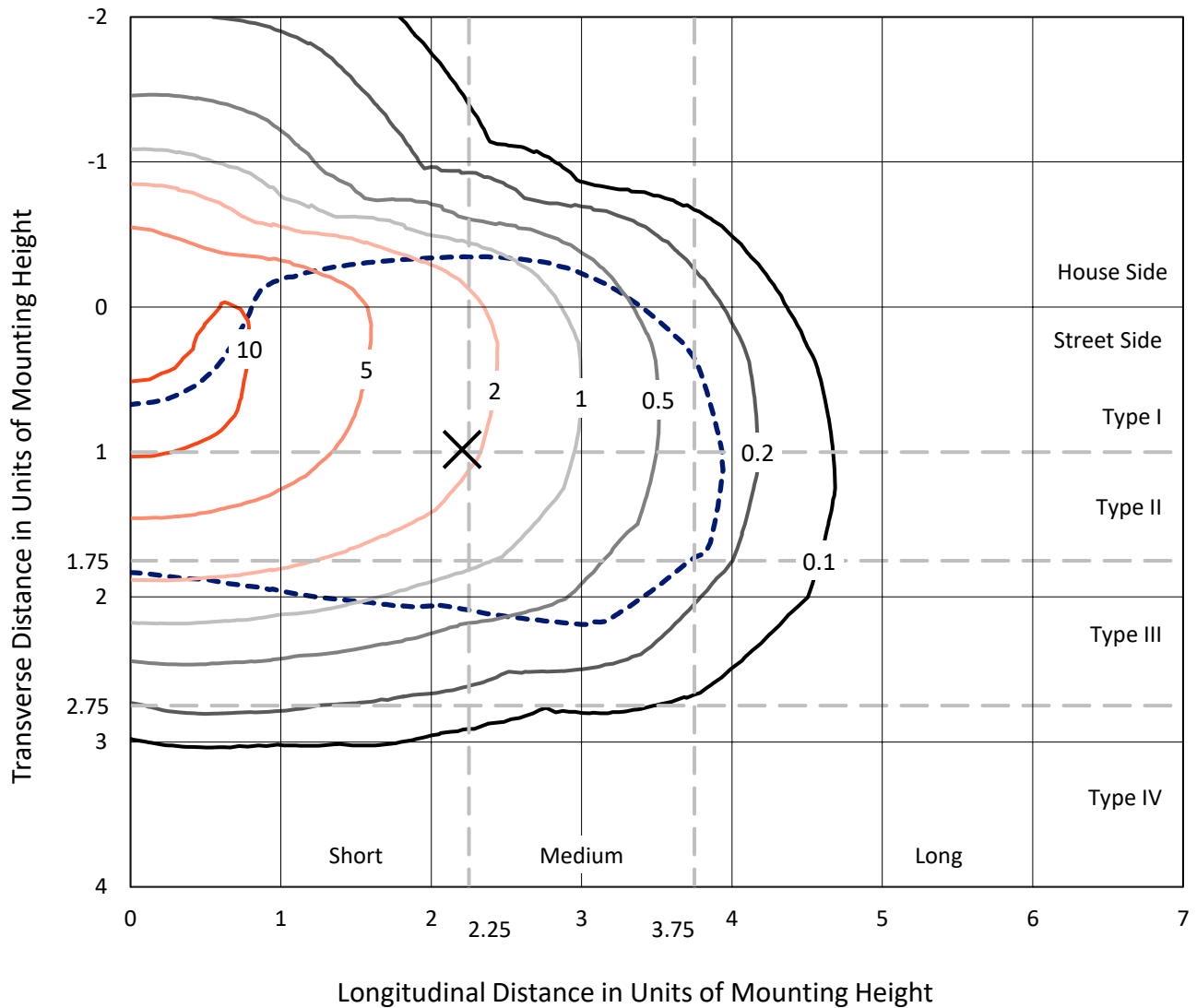
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

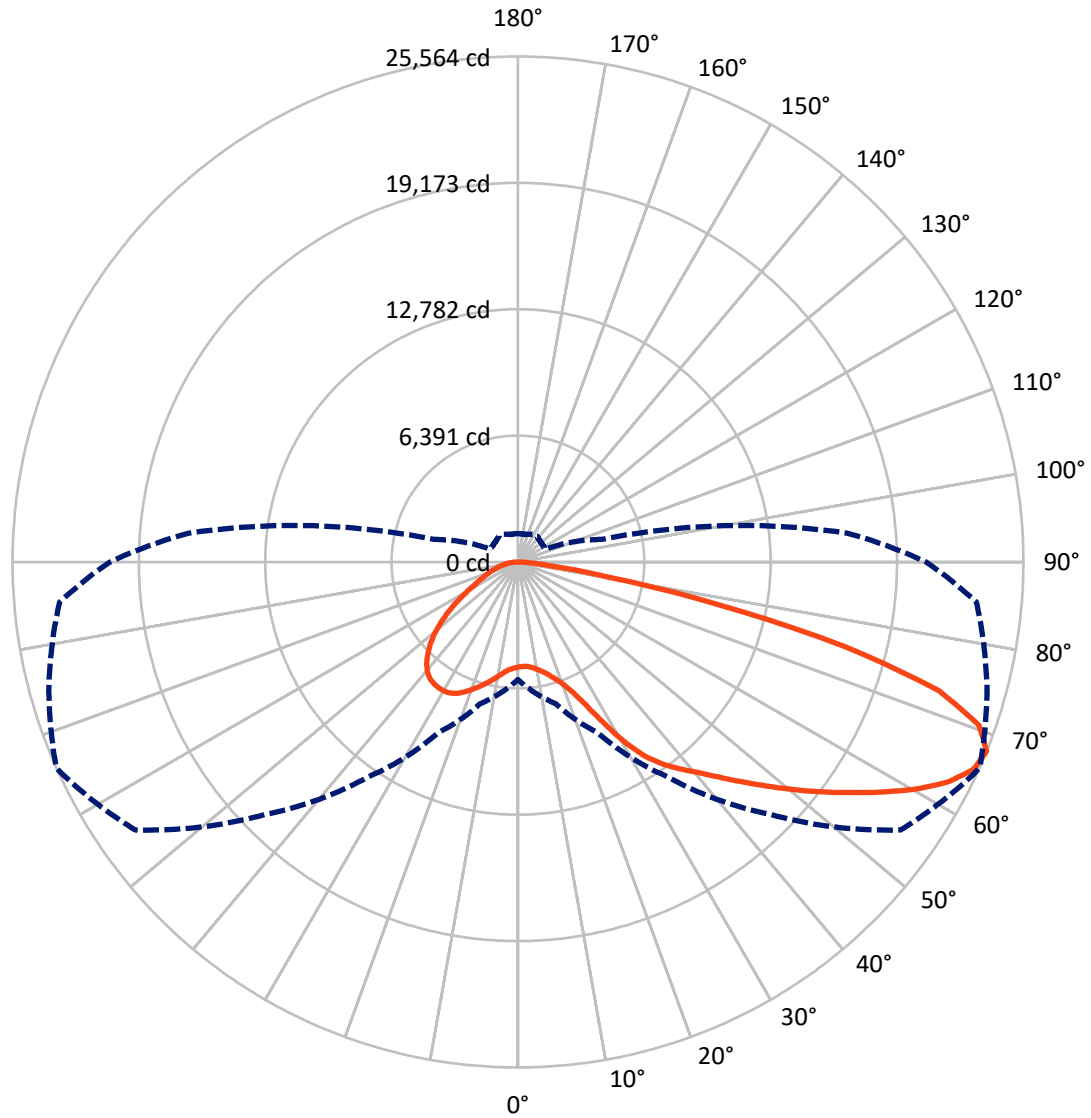
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type 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
House Side	Lumens	11907.5	0.0	11907.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	35981.5	0.0	35981.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	47889.0	0.0	47889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.6	1.1
10°-20°	1739.9	3.6
20°-30°	3353.5	7.0
30°-40°	5879.9	12.3
40°-50°	8741.5	18.3
50°-60°	11080.7	23.1
60°-70°	10842.2	22.6
70°-80°	5171.8	10.8
80°-90°	552.7	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°	47889.0	100.0
0°-180°	47889.0	100.0

Coefficient of Utilization



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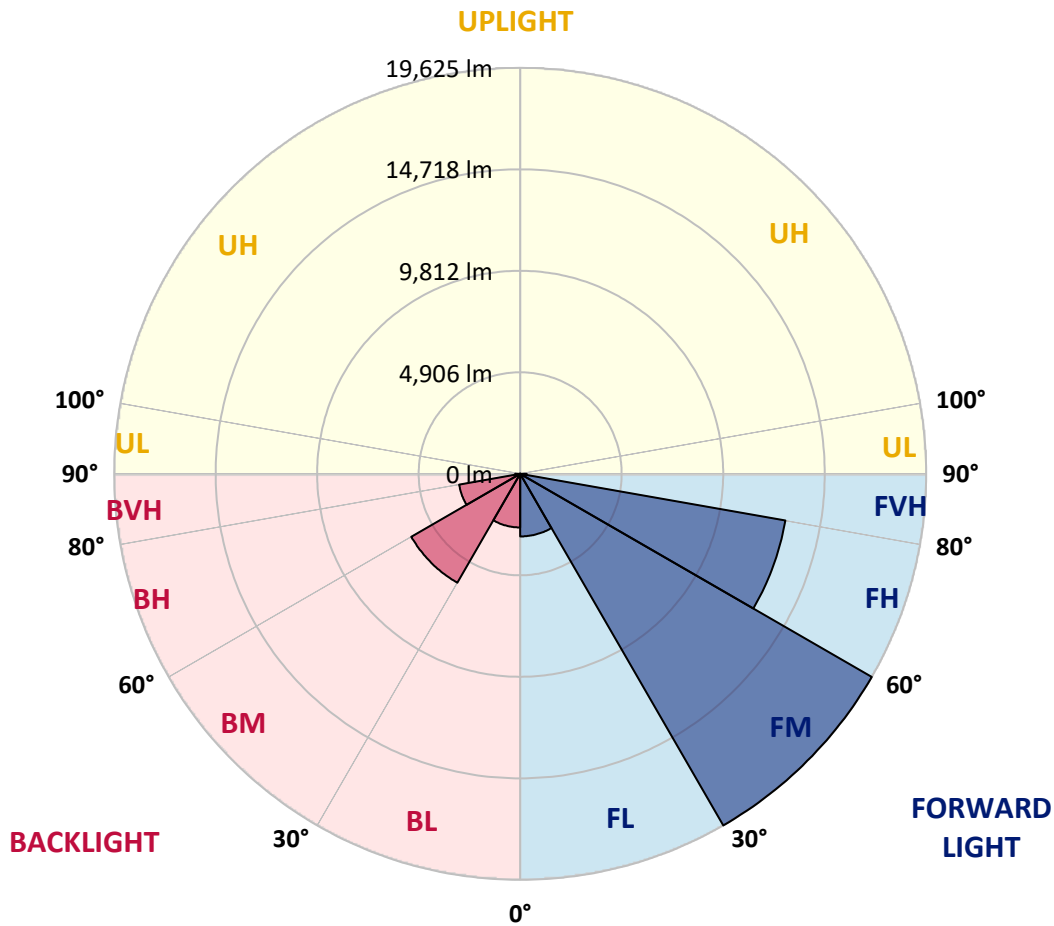
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3026.1	6.3			
FM (30°-60°)	19624.5	41.0			
FH (60°-80°)	13017.5	27.2			G5
FVH (80°-90°)	313.4	0.7			G3/500
BL (0°-30°)	2593.9	5.4	B4/5000		
BM (30°-60°)	6077.7	12.7	B4/8500		
BH (60°-80°)	2996.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	239.4	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5
2.5°	5256.2	5286.4	5278.8	5266.2	5263.7	5268.7	5276.3	5283.8	5281.3	5293.9
5°	5241.1	5271.3	5268.7	5268.7	5278.8	5298.9	5311.5	5324.1	5311.5	5326.6
7.5°	5251.1	5273.8	5283.8	5293.9	5319.1	5356.8	5387.0	5414.7	5399.6	5417.2
10°	5379.5	5397.1	5407.1	5407.1	5424.7	5467.5	5497.7	5548.0	5535.5	5563.1
12.5°	5613.5	5631.1	5631.1	5621.0	5633.6	5661.3	5671.3	5726.7	5704.0	5749.3
15°	5900.3	5935.5	5907.8	5890.2	5895.3	5922.9	5920.4	5963.2	5940.6	5978.3
17.5°	6217.3	6262.6	6217.3	6214.8	6204.7	6234.9	6237.5	6275.2	6234.9	6262.6
20°	6592.2	6655.1	6617.4	6630.0	6607.3	6619.9	6632.5	6687.8	6624.9	6645.1
22.5°	7120.6	7196.1	7155.8	7203.6	7188.5	7178.5	7176.0	7274.1	7176.0	7183.5
25°	7890.5	7981.1	7910.7	7976.1	7976.1	8008.8	8046.5	8172.3	8008.8	7961.0
27.5°	9027.8	9118.4	8980.0	9020.3	9007.7	9088.2	9048.0	9360.0	9183.8	9105.8
30°	10396.6	10557.6	10296.0	10285.9	10273.3	10401.6	10459.5	10665.8	10487.2	10409.2
32.5°	11876.1	12044.7	11732.7	11642.1	11594.3	11672.3	11624.5	11790.5	11667.2	11546.5
35°	13441.1	13607.2	13310.3	13134.1	12942.9	12779.4	12608.3	12651.0	12535.3	12351.6
37.5°	14920.6	15225.0	14910.5	14721.8	14369.5	14050.0	13571.9	13373.2	13265.0	13096.4
40°	16427.7	16601.3	16362.3	16201.3	15818.8	15318.1	14553.2	14133.0	13987.1	13823.5
42.5°	17537.3	17703.4	17575.1	17464.4	17165.0	16583.7	15594.9	15069.0	14857.7	14674.0
45°	18418.0	18541.3	18460.8	18501.0	18372.7	17809.1	16674.3	16073.0	15854.1	15630.1
47.5°	18772.7	18903.6	19031.9	19270.9	19489.8	19074.7	17834.2	17159.9	16928.4	16699.5
50°	18732.5	18865.8	19238.2	19746.5	20425.8	20287.5	19057.1	18317.3	18103.5	17841.8
52.5°	18410.4	18561.4	19039.5	19884.9	20966.8	21195.8	20302.5	19512.5	19311.2	18999.2
55°	17565.0	17655.6	18372.7	19570.4	21095.1	21829.8	21522.9	20785.6	20584.4	20149.1
57.5°	15997.5	16128.3	17172.5	18722.4	20773.1	22260.1	22594.7	22124.2	21930.5	21304.0
60°	13951.9	14160.7	15355.9	17298.3	19952.8	22257.6	23568.5	23440.1	23279.1	22441.2
62.5°	11637.0	11878.6	13028.5	15285.4	18518.6	21626.0	24177.4	24542.2	24459.2	23490.5
65°	8937.2	9103.3	10248.1	12681.2	16286.8	20269.8	24247.8	25294.5	25309.6	24288.1
67.5°	5950.6	6428.7	7422.5	9516.0	13297.7	18053.1	23628.9	25417.8	25563.7	24562.3
70°	2903.6	3532.6	4506.4	6184.6	9516.0	14653.9	22011.0	24406.3	24730.9	23762.2
72.5°	1205.2	1409.0	1939.9	3052.0	5462.5	9888.3	18760.2	21663.8	22265.1	21054.9
75°	812.7	880.6	1109.6	1565.0	2488.4	4876.2	13529.2	16153.5	17122.2	15901.9
77.5°	626.5	669.3	807.7	1094.5	1479.5	1844.3	7241.4	9734.9	10235.6	9475.7
80°	493.2	525.9	603.9	797.6	1049.2	986.3	2468.3	4410.8	4700.1	3942.8
82.5°	427.7	440.3	432.8	541.0	697.0	576.2	810.2	1627.9	1796.5	1303.3
85°	309.5	344.7	359.8	334.6	369.9	291.9	332.1	576.2	634.1	566.1
87.5°	125.8	186.2	229.0	216.4	135.9	83.0	103.2	168.6	193.7	211.4
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°
5311.5	0°	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5	5311.5
5314.0	2.5°	5316.6	5334.2	5346.7	5361.8	5371.9	5387.0	5417.2	5434.8	5437.3	5449.9
5354.3	5°	5364.4	5389.5	5417.2	5457.5	5502.7	5540.5	5598.4	5638.6	5653.7	5666.3
5452.4	7.5°	5467.5	5502.7	5553.1	5623.5	5688.9	5739.3	5809.7	5857.5	5905.3	5922.9
5608.4	10°	5621.0	5671.3	5744.3	5839.9	5910.4	5975.8	6048.7	6089.0	6136.8	6156.9
5794.6	12.5°	5812.2	5865.1	5960.7	6094.0	6159.5	6204.7	6229.9	6219.8	6229.9	6247.5
6018.6	15°	6031.1	6089.0	6197.2	6340.6	6385.9	6345.6	6290.3	6240.0	6232.4	6237.5
6290.3	17.5°	6290.3	6333.1	6458.9	6579.6	6546.9	6380.9	6260.1	6179.6	6139.3	6126.7
6637.5	20°	6652.6	6652.6	6755.8	6831.3	6612.4	6330.6	6141.8	6011.0	5928.0	5892.7
7110.5	22.5°	7092.9	7052.7	7118.1	7065.3	6599.8	6189.6	5928.0	5701.5	5575.7	5525.4
7772.3	25°	7651.5	7603.7	7586.1	7259.0	6509.2	5965.7	5540.5	5266.2	5155.5	5127.8
8725.9	27.5°	8494.4	8373.6	8144.7	7364.7	6343.1	5613.5	5087.6	4833.5	4770.6	4773.1
9951.2	30°	9616.6	9375.1	8814.0	7382.3	6071.4	5115.3	4624.6	4443.5	4413.3	4425.8
10980.3	32.5°	10655.8	10426.8	9498.3	7301.8	5653.7	4627.1	4209.5	4088.7	4043.4	4058.5
11765.4	35°	11471.0	11408.1	10132.4	7188.5	5140.4	4169.2	3837.1	3733.9	3645.9	3625.7
12505.1	37.5°	12240.9	12215.7	10607.9	7030.0	4632.2	3844.6	3537.7	3401.8	3273.5	3203.0
13322.8	40°	13086.3	13061.2	10919.9	6786.0	4181.8	3562.8	3268.4	3089.8	2931.3	2803.0
14248.8	42.5°	14037.4	13889.0	11068.4	6436.2	3799.3	3323.8	3049.5	2808.0	2599.1	2480.9
15295.5	45°	15076.6	14741.9	11065.9	5990.9	3477.3	3104.9	2815.5	2473.3	2279.6	2168.9
16369.9	47.5°	16178.6	15557.2	10930.0	5497.7	3165.3	2863.3	2453.2	2191.5	2063.2	1995.3
17537.3	50°	17315.9	16319.5	10698.5	4931.6	2845.7	2589.1	2226.8	2048.1	1950.0	1887.1
18694.7	52.5°	18385.3	17011.5	10419.2	4290.0	2521.1	2322.4	2126.1	1987.7	1884.6	1814.1
19816.9	55°	19379.1	17607.8	10024.2	3633.3	2257.0	2143.7	2078.3	1962.6	1844.3	1761.3
20956.7	57.5°	20262.3	17995.3	9342.3	3016.8	2068.2	2020.4	2028.0	1919.8	1783.9	1713.5
22078.9	60°	20997.0	18279.6	8333.4	2445.7	1914.8	1899.7	1950.0	1839.3	1680.8	1600.3
23027.5	62.5°	21437.3	18274.6	7095.4	2002.8	1783.9	1789.0	1846.8	1738.6	1577.6	1502.1
23523.2	65°	21399.6	17826.7	5736.7	1713.5	1658.1	1663.2	1738.6	1627.9	1492.1	1446.8
23274.1	67.5°	20642.2	16734.7	4400.7	1524.8	1519.7	1542.4	1630.4	1552.4	1439.2	1434.2
21789.6	70°	18591.6	14467.7	3170.3	1373.8	1376.3	1409.0	1524.8	1504.6	1411.5	1421.6
18319.8	72.5°	14908.0	11030.7	2128.6	1215.3	1217.8	1270.6	1424.1	1466.9	1383.9	1517.2
12998.3	75°	9928.6	6879.1	1368.8	1046.7	1049.2	1117.2	1336.1	1393.9	1308.4	1512.2
6763.3	77.5°	4770.6	3092.3	991.4	880.6	880.6	943.5	1154.9	1248.0	1114.6	1175.0
2173.9	80°	1648.1	1162.4	780.0	709.5	694.4	737.2	973.7	1081.9	961.2	885.7
709.5	82.5°	649.2	603.9	626.5	551.0	500.7	528.4	757.4	893.2	707.0	639.1
400.1	85°	372.4	392.5	442.8	364.8	289.4	324.6	556.1	641.6	533.4	470.5
130.8	87.5°	100.6	138.4	203.8	188.7	130.8	138.4	264.2	354.8	307.0	236.5
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>
5311.5
5447.4
5663.8
5925.5
6167.0
6252.6
6255.1
6144.4
5885.2
5517.8
5132.9
4780.6
4468.6
4078.6
3640.8
3205.5
2815.5
2488.4
2163.9
1980.2
1864.4
1783.9
1728.6
1668.2
1565.0
1479.5
1444.3
1441.7
1419.1
1537.3
1524.8
1076.9
830.3
636.6
480.6
244.1
0.0

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