

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: P943219

Luminaire Tested: **GALN-SB7C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47300 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

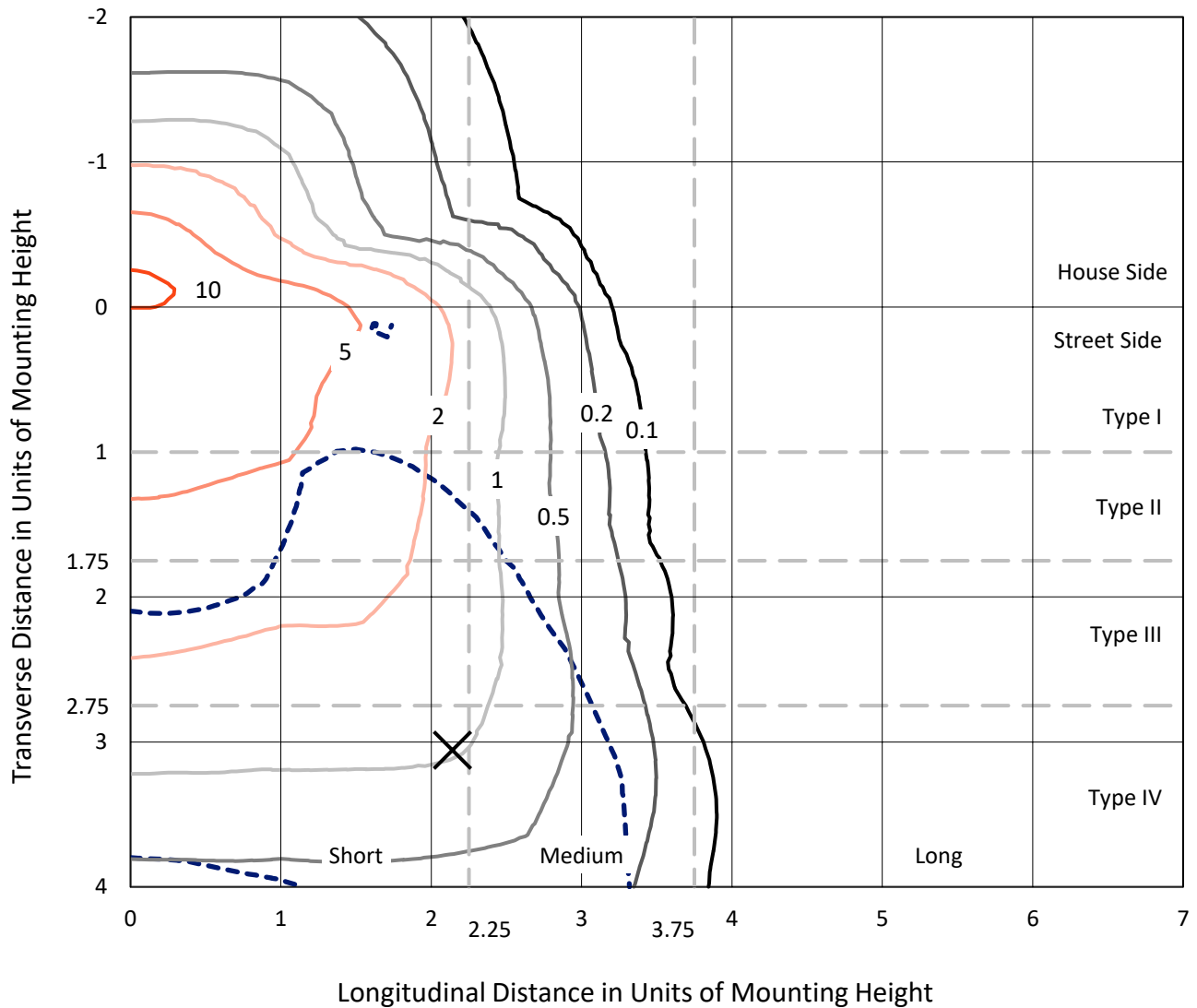
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

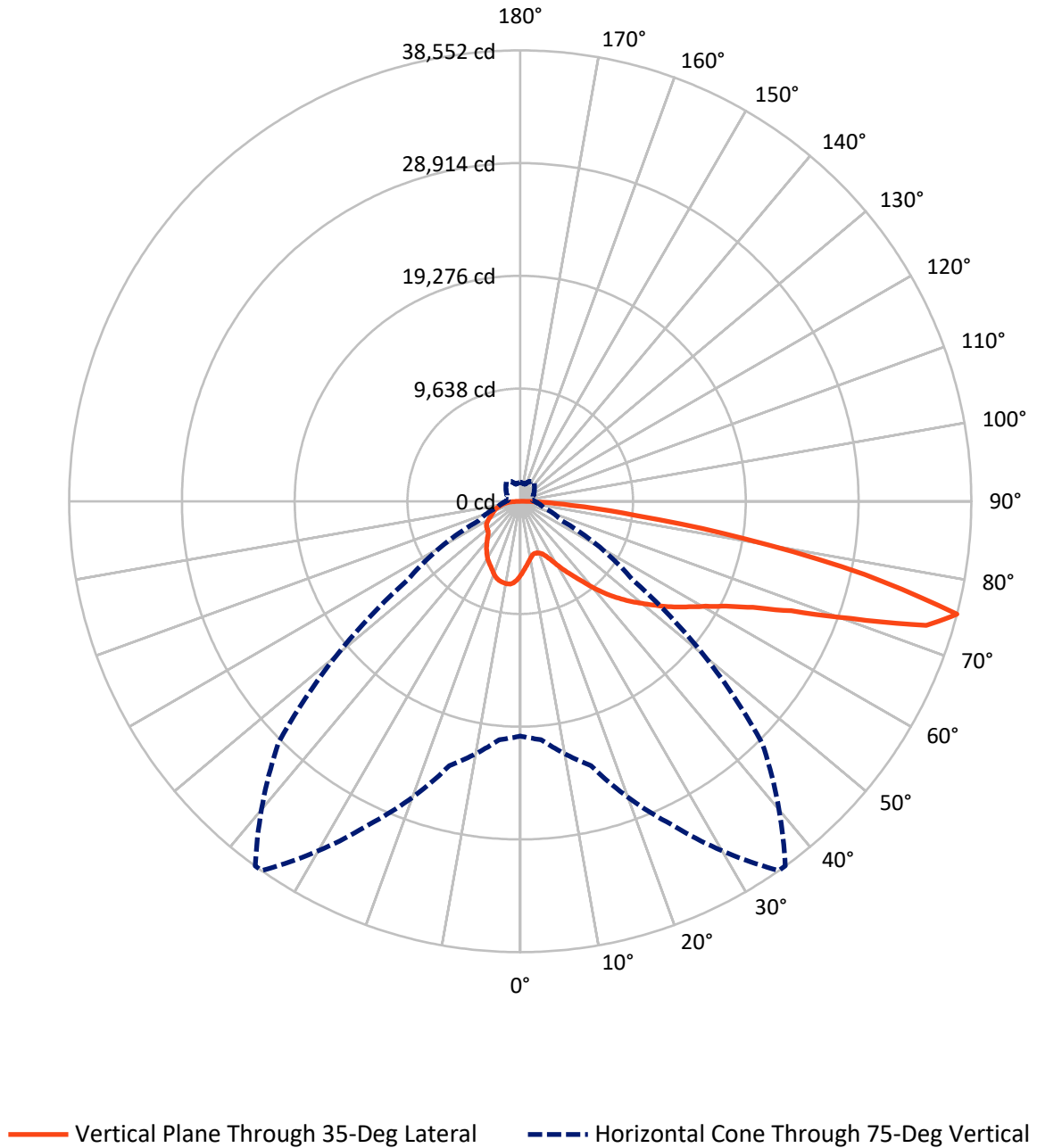
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11256.2	0.0	11256.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	36043.8	0.0	36043.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	47300.0	0.0	47300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.8	1.3
10°-20°	1721.4	3.6
20°-30°	2890.6	6.1
30°-40°	4492.4	9.5
40°-50°	6667.9	14.1
50°-60°	9205.4	19.5
60°-70°	11168.3	23.6
70°-80°	9229.7	19.5
80°-90°	1327.5	2.8
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°	47300.0	100.0
0°-180°	47300.0	100.0

Coefficient of Utilization



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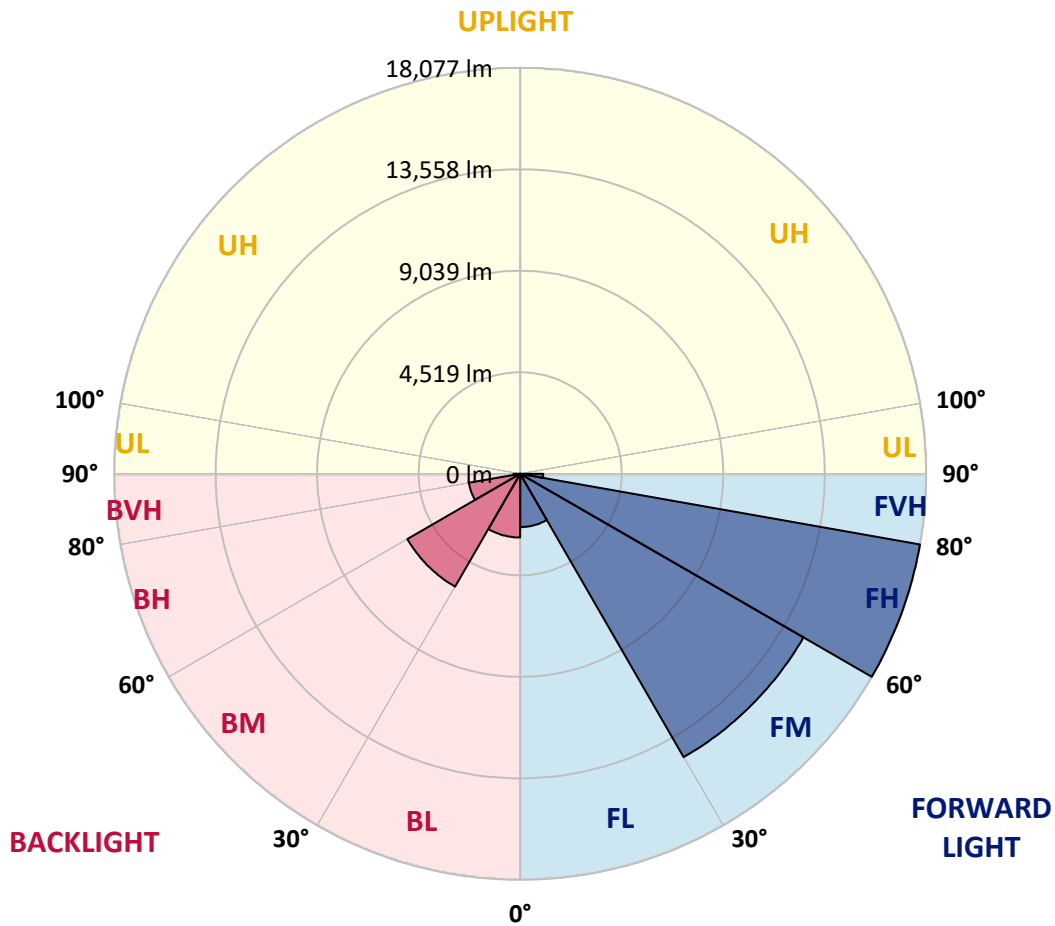
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2372.0	5.0			
FM (30°-60°)	14565.8	30.8			
FH (60°-80°)	18077.3	38.2			G5
FVH (80°-90°)	1028.6	2.2			G5
BL (0°-30°)	2836.7	6.0	B4/5000		
BM (30°-60°)	5799.9	12.3	B4/8500		
BH (60°-80°)	2320.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	298.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0
2.5°	5812.1	5847.9	5863.2	5855.6	5893.9	5888.8	5942.5	6009.0	6101.0	6190.5
5°	5364.6	5403.0	5436.2	5466.9	5541.1	5564.1	5648.4	5776.3	5945.1	6116.4
7.5°	4947.8	4981.1	5032.2	5088.5	5213.8	5236.8	5377.4	5576.9	5812.1	6062.7
10°	4607.7	4641.0	4694.7	4758.6	4914.6	4942.7	5121.7	5387.6	5694.5	6011.5
12.5°	4462.0	4472.2	4502.9	4566.8	4702.4	4720.3	4917.1	5221.4	5579.4	5973.2
15°	4454.3	4474.8	4477.3	4510.6	4623.1	4630.8	4812.3	5114.0	5507.8	5965.5
17.5°	4531.0	4546.4	4523.4	4543.8	4638.4	4651.2	4794.4	5062.9	5484.8	5998.8
20°	4735.6	4748.4	4679.3	4651.2	4720.3	4730.5	4871.1	5096.1	5507.8	6067.8
22.5°	5170.3	5178.0	5009.2	4894.1	4899.2	4904.4	5027.1	5231.7	5597.3	6193.1
25°	5847.9	5842.8	5574.3	5351.8	5224.0	5195.9	5277.7	5451.6	5748.2	6359.3
27.5°	6640.6	6602.2	6333.7	6001.3	5722.6	5681.7	5663.8	5737.9	5963.0	6579.2
30°	7535.5	7499.7	7210.8	6776.1	6390.0	6323.5	6154.7	6116.4	6282.6	6878.4
32.5°	8517.4	8494.4	8149.2	7622.5	7105.9	7029.2	6745.4	6643.1	6773.5	7331.0
35°	9340.8	9320.3	9033.9	8491.9	7860.3	7765.7	7476.7	7361.6	7428.1	7911.4
37.5°	10084.9	10074.6	9829.2	9402.1	8750.1	8635.0	8310.3	8271.9	8259.2	8676.0
40°	10775.3	10749.7	10494.0	10269.0	9785.7	9680.9	9394.5	9361.2	9264.1	9616.9
42.5°	11539.8	11473.3	11102.6	10997.7	10867.3	10780.4	10609.1	10614.2	10399.4	10678.1
45°	12163.7	12125.4	11744.4	11683.0	11823.6	11787.8	11936.2	11974.5	11557.7	11790.4
47.5°	12833.7	12797.9	12475.7	12432.2	12813.2	12823.4	13347.6	13360.4	12687.9	12946.2
50°	13659.6	13608.4	13288.8	13342.5	13769.5	13807.9	14766.8	14679.8	13728.6	14119.8
52.5°	14204.2	14234.9	14165.9	14252.8	14835.8	14871.6	16162.9	15940.4	14759.1	15278.2
55°	14605.7	14667.0	14881.8	15081.3	15960.9	15996.7	17479.8	17139.7	15613.1	16352.1
57.5°	15122.2	15035.3	15436.7	15825.4	17029.7	17124.3	18760.8	18295.5	16370.0	17277.8
60°	15863.7	15802.4	16114.3	16689.6	18226.4	18377.3	20116.0	19336.2	16924.9	18011.6
62.5°	17367.3	17213.8	17262.4	17771.3	19735.1	19934.5	21645.1	20243.9	17201.0	18298.0
65°	19614.9	19351.5	19106.0	19458.9	21859.9	22056.8	23371.1	20957.3	17098.8	17743.1
67.5°	22445.5	22184.7	21882.9	22215.4	24989.7	25145.7	25501.1	21358.8	16293.3	15605.5
70°	24780.0	24682.9	25043.4	26411.4	29988.7	29993.8	28232.0	21026.3	14086.6	11064.2
72.5°	24470.6	24411.8	26311.7	30541.0	36289.2	36153.7	30817.2	18510.2	9489.1	4991.3
75°	20075.1	20456.1	23399.3	30466.8	38552.1	38534.2	29234.4	11767.4	3925.0	2068.6
77.5°	10765.0	11368.5	15191.2	22494.1	30096.1	30548.7	20553.3	4116.8	1685.1	1324.5
80°	3510.8	4037.5	6055.0	11452.9	19556.1	19471.7	8808.9	1616.0	1153.2	938.4
82.5°	1490.7	1552.1	2705.3	5408.1	10036.3	9880.3	2805.0	928.2	810.6	641.8
85°	583.0	652.0	1194.1	2500.8	4346.9	4252.3	1012.6	460.3	519.1	419.4
87.5°	191.8	232.7	427.0	856.6	1352.7	1304.1	248.0	158.5	225.0	191.8
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°
6303.0	0°	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0	6303.0
6320.9	2.5°	6356.7	6397.7	6446.2	6517.8	6579.2	6630.3	6684.0	6717.3	6730.1	6768.4
6331.2	5°	6402.8	6492.3	6612.4	6730.1	6845.1	6914.2	6975.5	7006.2	7034.4	7054.8
6359.3	7.5°	6479.5	6594.5	6783.8	6937.2	7034.4	7090.6	7131.5	7121.3	7131.5	7136.6
6390.0	10°	6546.0	6707.1	6932.1	7077.8	7152.0	7154.5	7144.3	7108.5	7090.6	7093.2
6436.0	12.5°	6625.2	6804.2	7047.1	7169.9	7190.3	7134.1	7090.6	7029.2	7006.2	6996.0
6505.0	15°	6732.6	6937.2	7172.4	7218.5	7167.3	7095.7	7021.6	6921.8	6870.7	6829.8
6622.7	17.5°	6863.0	7088.0	7269.6	7236.4	7126.4	7008.8	6888.6	6737.7	6632.9	6589.4
6783.8	20°	7044.6	7246.6	7343.8	7198.0	7031.8	6852.8	6648.2	6464.1	6367.0	6323.5
6988.3	22.5°	7264.5	7458.8	7415.3	7131.5	6896.3	6609.9	6354.2	6218.7	6170.1	6139.4
7251.7	25°	7527.9	7694.1	7466.5	7034.4	6673.8	6287.7	6090.8	6047.3	6024.3	6001.3
7573.9	27.5°	7870.5	7960.0	7504.8	6891.2	6326.1	5945.1	5873.5	5881.1	5873.5	5835.1
8021.4	30°	8323.1	8305.2	7540.6	6658.5	5927.2	5635.7	5640.8	5674.0	5679.1	5653.6
8645.3	32.5°	8918.9	8737.3	7558.5	6356.7	5546.2	5364.6	5369.7	5405.5	5431.1	5387.6
9461.0	35°	9640.0	9241.1	7530.4	5978.3	5252.1	5106.4	5068.0	5078.2	5085.9	5045.0
10450.5	37.5°	10481.2	9806.2	7405.1	5559.0	5009.2	4853.2	4771.4	4702.4	4661.4	4623.1
11570.5	40°	11404.3	10422.4	7175.0	5149.8	4738.2	4584.7	4462.0	4331.6	4193.5	4142.4
12757.0	42.5°	12370.8	11056.5	6896.3	4758.6	4426.2	4300.9	4170.5	3981.3	3774.2	3669.3
13989.4	45°	13373.2	11706.0	6622.7	4372.5	4106.6	4052.9	3902.0	3674.4	3449.4	3316.5
15224.5	47.5°	14355.1	12319.7	6221.2	3983.8	3807.4	3866.2	3748.6	3538.9	3288.3	3078.6
16449.3	50°	15293.5	12895.0	5564.1	3590.1	3564.5	3810.0	3697.4	3395.7	3109.3	2840.8
17651.1	52.5°	16224.3	13360.4	4722.8	3232.1	3434.1	3794.6	3631.0	3298.6	2948.2	2667.0
18781.3	55°	17014.4	13600.8	3912.2	2925.2	3244.9	3664.2	3551.7	3183.5	2720.7	2421.5
19556.1	57.5°	17464.4	13406.4	3237.2	2623.5	2984.0	3449.4	3416.2	2938.0	2449.6	2219.5
19706.9	60°	17270.1	12618.9	2684.9	2360.1	2736.0	3216.7	3180.9	2695.1	2242.5	2025.2
18898.9	62.5°	16198.7	11117.9	2247.6	2130.0	2511.0	2978.9	2945.7	2508.4	2084.0	1874.3
16753.6	65°	14040.6	9044.2	1907.5	1938.2	2283.4	2692.5	2741.1	2352.5	1958.7	1754.1
12961.5	67.5°	10708.8	6551.1	1641.6	1772.0	2061.0	2411.3	2551.9	2239.9	1853.8	1659.5
7499.7	70°	6103.6	3720.5	1416.6	1610.9	1864.1	2150.5	2406.2	2150.5	1741.3	1580.2
2810.2	72.5°	2314.1	1708.1	1224.8	1449.8	1674.8	1930.5	2245.1	2009.8	1610.9	1490.7
1452.4	75°	1235.0	1040.7	1030.5	1260.6	1457.5	1715.8	2043.1	1871.7	1513.8	1575.1
1004.9	77.5°	841.3	736.4	861.7	1079.1	1219.7	1478.0	1828.3	1662.1	1311.7	1306.6
695.5	80°	583.0	521.6	700.6	869.4	943.5	1242.7	1595.6	1426.8	1068.8	997.2
429.6	82.5°	350.3	340.1	524.2	649.5	667.4	958.9	1322.0	1196.7	874.5	762.0
255.7	85°	191.8	202.0	335.0	381.0	388.7	669.9	1035.6	925.6	672.5	565.1
92.1	87.5°	53.7	69.0	122.7	150.9	186.7	347.8	616.2	549.8	337.5	235.2
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>
6303.0
6765.9
7059.9
7144.3
7098.3
6990.9
6842.6
6592.0
6318.4
6144.5
6001.3
5842.8
5666.3
5408.1
5073.1
4648.7
4165.4
3682.1
3306.2
3055.6
2817.8
2636.3
2395.9
2188.8
1994.5
1841.1
1720.9
1628.8
1559.8
1470.3
1626.3
1204.4
953.8
767.1
570.2
235.2
0.0

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