

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: P954216

Luminaire Tested: **GALN-SB7C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56238 lumens
Efficiency: N/A
Efficacy: 160.5 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

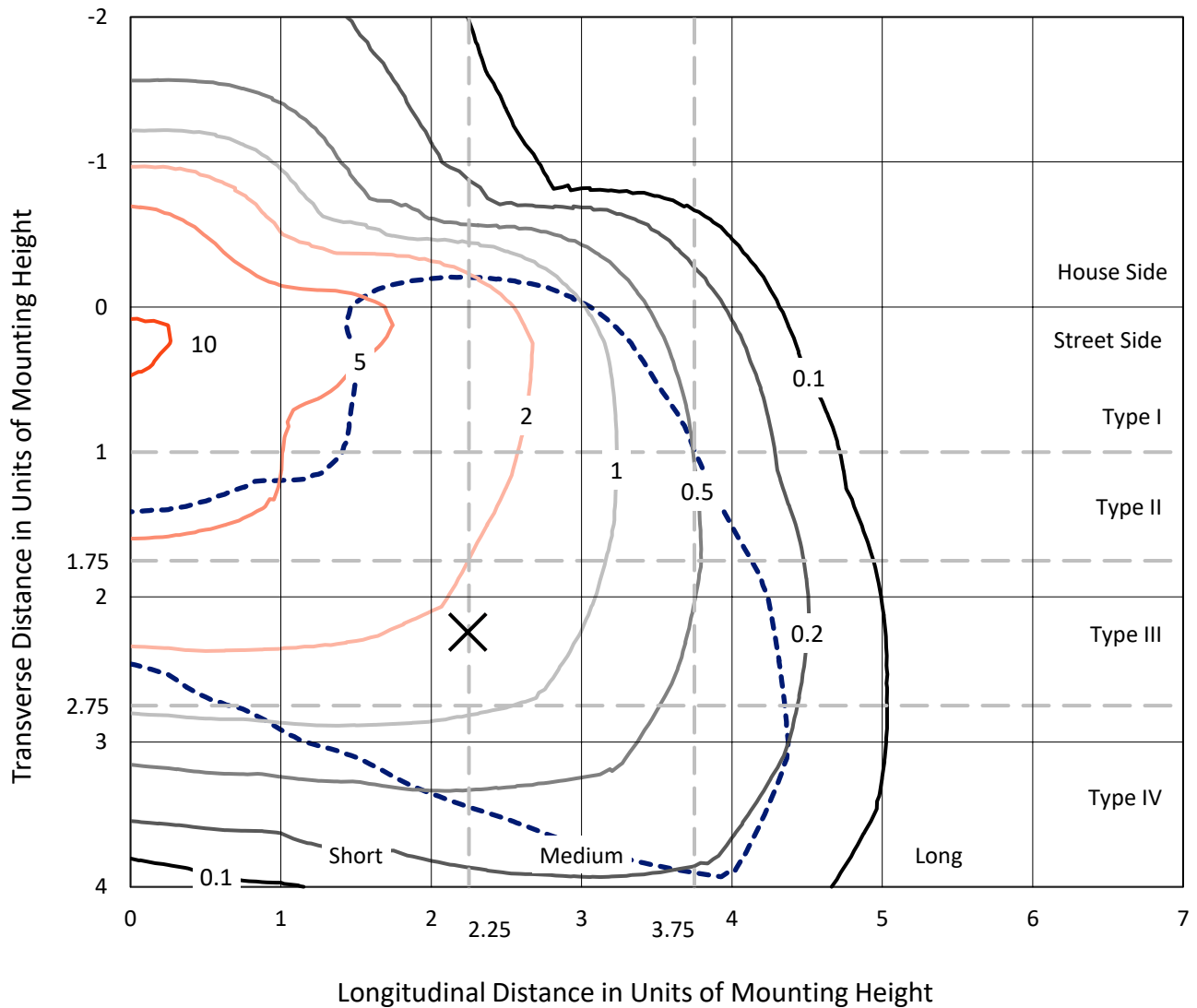
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

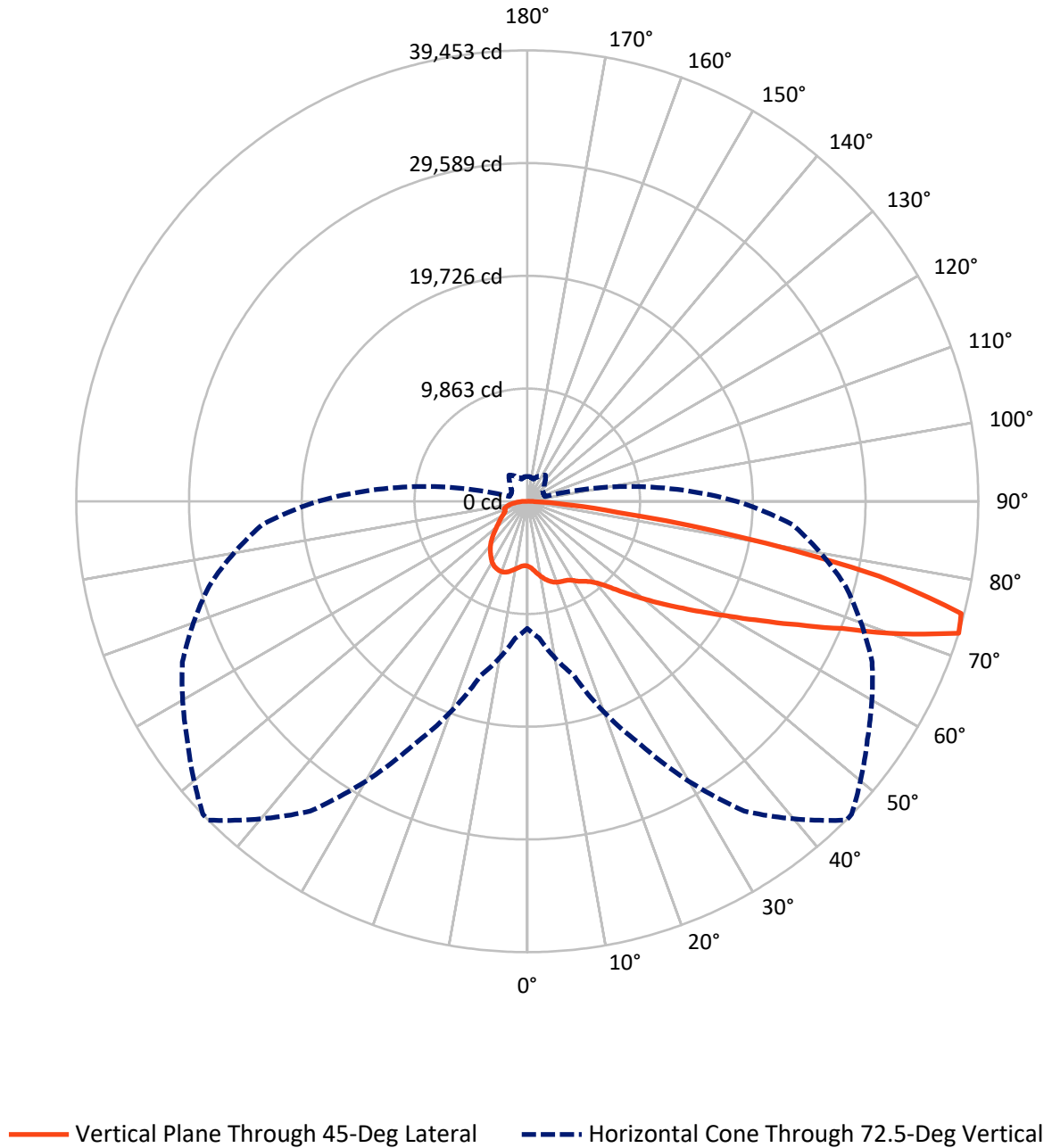
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	12713.5	0.0	12713.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	43524.5	0.0	43524.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	56238.0	0.0	56238.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.4	1.0
10°-20°	1925.2	3.4
20°-30°	3349.1	6.0
30°-40°	4801.0	8.5
40°-50°	6760.2	12.0
50°-60°	10354.6	18.4
60°-70°	15000.1	26.7
70°-80°	11978.5	21.3
80°-90°	1491.9	2.7
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°	56238.0	100.0
0°-180°	56238.0	100.0



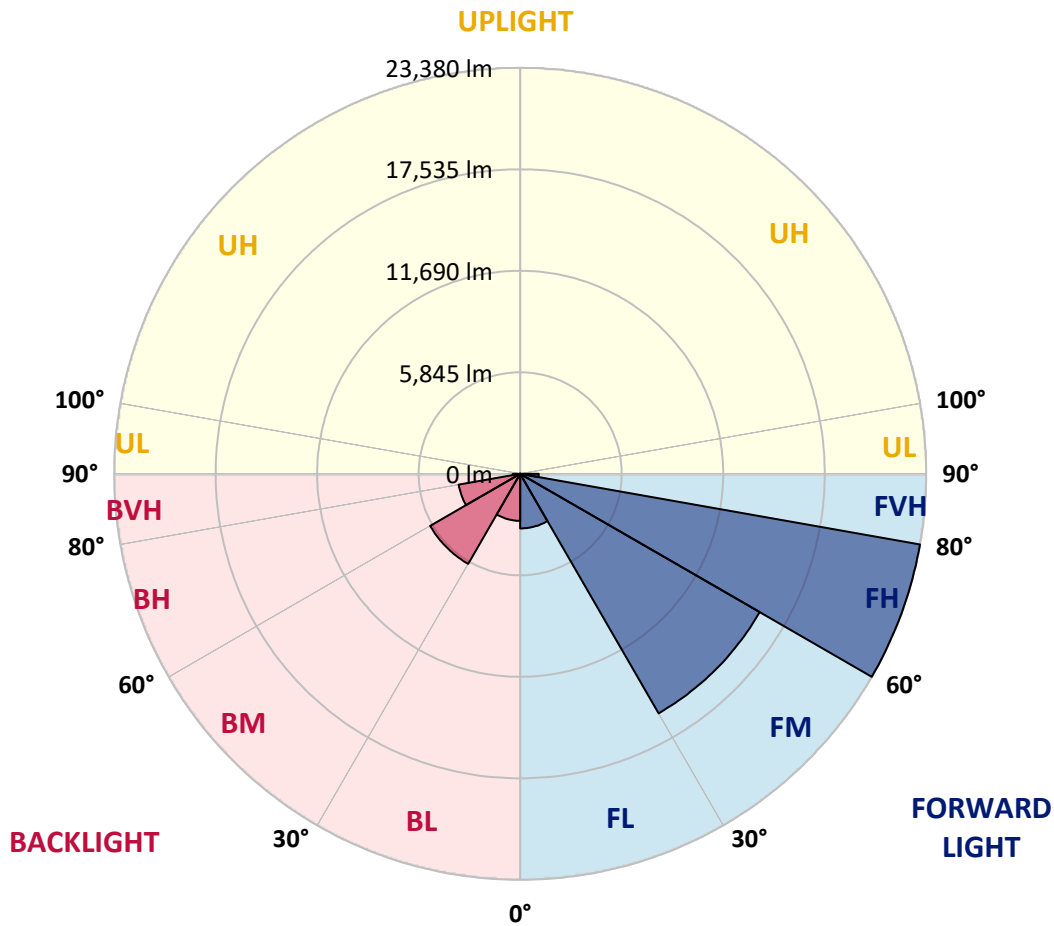
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.9	5.6			
FM (30°-60°)	15929.5	28.3			
FH (60°-80°)	23379.8	41.6			G5
FVH (80°-90°)	1070.3	1.9			G5
BL (0°-30°)	2706.8	4.8	B4/5000		
BM (30°-60°)	5986.2	10.6	B4/8500		
BH (60°-80°)	3598.9	6.4	B4/5000		G4/5000
BVH (80°-90°)	421.6	0.7			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°	45°	46°	55°	65°	75°
0°	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3
2.5°	5895.5	5934.0	5898.5	5865.9	5851.1	5812.6	5809.6	5785.9	5771.1	5729.6
5°	6307.3	6357.7	6298.4	6233.2	6174.0	6079.2	6067.3	5999.2	5922.2	5833.3
7.5°	6772.4	6816.9	6748.7	6651.0	6547.3	6390.3	6387.3	6262.9	6141.4	5990.3
10°	7178.3	7237.6	7145.7	7012.4	6882.0	6704.3	6683.6	6541.4	6387.3	6191.8
12.5°	7536.8	7578.3	7489.4	7326.4	7175.3	6997.6	6970.9	6813.9	6642.1	6419.9
15°	7821.2	7874.5	7756.0	7581.2	7421.2	7246.4	7222.7	7080.5	6908.7	6674.7
17.5°	8007.8	8052.3	7930.8	7735.3	7581.2	7436.0	7418.3	7299.8	7148.7	6911.7
20°	8078.9	8126.3	7998.9	7800.4	7658.2	7545.7	7536.8	7450.9	7347.2	7130.9
22.5°	8150.0	8194.5	8028.6	7821.2	7696.8	7625.7	7622.7	7566.4	7524.9	7347.2
25°	8437.4	8449.2	8227.1	7927.8	7750.1	7687.9	7684.9	7681.9	7699.7	7560.5
27.5°	8686.3	8683.3	8493.7	8212.2	7936.7	7806.4	7803.4	7833.0	7889.3	7773.8
30°	9050.6	9018.1	8792.9	8499.6	8247.8	8046.3	8028.6	8001.9	8046.3	7954.5
32.5°	9823.9	9720.2	9355.8	8834.4	8505.5	8351.5	8327.8	8161.9	8179.7	8123.4
35°	10931.9	10795.6	10309.7	9468.4	8825.5	8606.3	8594.4	8384.1	8348.5	8298.2
37.5°	12250.2	12081.4	11515.5	10386.8	9376.5	8902.5	8884.7	8695.1	8550.0	8496.6
40°	13574.5	13361.2	12893.1	11506.6	10188.3	9397.3	9341.0	9053.6	8887.7	8798.8
42.5°	14860.2	14682.5	14282.5	12762.7	11189.6	10120.1	9995.7	9503.9	9379.5	9296.5
45°	15997.9	15837.9	15544.6	14104.8	12362.8	11103.7	10982.2	10179.4	10140.9	10140.9
47.5°	16922.2	16886.6	16575.6	15473.5	13746.3	12223.6	12013.2	11118.5	11222.2	11382.2
50°	17947.2	17849.5	17517.7	16821.5	15372.8	13506.4	13334.5	12271.0	12659.1	13097.5
52.5°	18889.3	18942.7	18572.3	18225.7	17209.6	14937.3	14635.1	13630.8	14469.2	15195.0
55°	19858.1	19861.1	19757.4	19710.0	19135.2	16519.3	16187.5	15266.1	16599.3	17499.9
57.5°	20767.6	20773.5	20927.6	21345.3	21369.0	18344.2	17968.0	17274.7	18966.4	19884.8
60°	21579.4	21620.8	22041.5	23019.2	23333.2	20435.8	20080.3	19647.8	21413.4	22337.8
62.5°	21851.9	22003.0	22939.2	24328.6	25273.7	23001.4	22651.8	22394.1	23985.0	24844.1
65°	21389.7	21736.4	23546.5	25410.0	27270.4	26049.9	25703.2	25421.8	26657.2	27466.0
67.5°	20255.1	20702.4	23510.9	26544.6	29693.8	29717.5	29394.6	28734.0	29522.0	29833.1
70°	17265.9	17935.4	21440.1	26968.3	32475.7	34733.2	34422.1	32721.6	32380.9	30875.9
72.5°	11124.4	12025.1	15787.5	23481.3	33094.9	39452.5	39434.8	36321.1	33284.5	28849.5
75°	4058.7	4609.8	7335.3	14738.8	27780.0	39212.6	39328.1	35704.9	30384.1	22284.4
77.5°	1478.3	1617.6	2393.8	5664.4	17085.1	31462.5	31702.5	28544.4	21626.8	11183.7
80°	776.2	853.2	1226.5	2198.2	7320.5	18684.9	19061.2	16963.7	10164.6	3368.4
82.5°	429.6	465.1	687.3	1193.9	3297.3	7990.0	8215.2	6701.3	3575.8	1428.0
85°	231.1	245.9	322.9	651.8	1611.6	2770.0	2832.2	2002.7	1425.0	838.4
87.5°	68.1	83.0	106.7	207.4	631.0	622.1	637.0	397.0	562.9	423.6
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°
5673.3	0°	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3	5673.3
5717.8	2.5°	5700.0	5691.1	5658.5	5643.7	5625.9	5623.0	5637.8	5640.7	5643.7	5646.7
5782.9	5°	5753.3	5723.7	5694.1	5676.3	5682.2	5685.2	5714.8	5735.5	5750.3	5762.2
5904.4	7.5°	5857.0	5833.3	5782.9	5780.0	5788.9	5815.5	5854.0	5901.4	5928.1	5948.8
6061.4	10°	6011.1	5966.6	5907.4	5916.3	5934.0	5972.5	6052.5	6091.0	6135.5	6174.0
6254.0	12.5°	6168.1	6129.6	6061.4	6067.3	6097.0	6165.1	6242.1	6289.5	6319.2	6348.8
6461.4	15°	6372.5	6304.3	6230.3	6230.3	6283.6	6357.7	6393.2	6431.7	6449.5	6482.1
6683.6	17.5°	6582.8	6494.0	6396.2	6390.3	6455.4	6491.0	6511.7	6517.7	6523.6	6559.1
6899.8	20°	6793.2	6695.4	6556.2	6544.3	6559.1	6553.2	6550.2	6544.3	6553.2	6597.6
7122.0	22.5°	7000.6	6888.0	6695.4	6642.1	6600.6	6544.3	6541.4	6538.4	6544.3	6588.8
7362.0	25°	7243.5	7107.2	6849.5	6689.5	6550.2	6473.2	6482.1	6485.1	6491.0	6526.5
7610.8	27.5°	7507.1	7356.1	6991.7	6674.7	6422.8	6369.5	6354.7	6363.6	6384.3	6440.6
7859.7	30°	7770.8	7593.1	7122.0	6615.4	6262.9	6188.8	6141.4	6162.1	6227.3	6283.6
8076.0	32.5°	8010.8	7833.0	7225.7	6485.1	6058.5	5942.9	5880.7	5907.4	5972.5	5993.3
8315.9	35°	8292.2	8090.8	7270.1	6277.7	5836.3	5658.5	5575.6	5537.0	5569.6	5548.9
8597.4	37.5°	8606.3	8395.9	7264.2	6005.1	5575.6	5371.1	5255.6	5110.4	5042.3	4971.2
9012.1	40°	9071.4	8769.2	7193.1	5676.3	5252.6	5066.0	4858.6	4612.7	4458.7	4319.4
9681.7	42.5°	9705.4	9287.7	7062.8	5314.8	4888.2	4713.4	4432.0	4144.6	3901.7	3670.6
10697.8	45°	10650.4	9966.1	6899.8	4929.7	4494.2	4322.4	4017.2	3694.3	3418.8	3122.5
12140.6	47.5°	12013.2	10878.6	6745.8	4491.3	4079.5	3922.4	3646.9	3347.7	3021.8	2734.5
14226.3	50°	13885.6	12188.0	6603.6	4064.6	3670.6	3552.1	3332.9	3027.7	2698.9	2467.8
16670.4	52.5°	16267.5	13968.5	6544.3	3652.8	3288.5	3244.0	3069.2	2784.8	2473.7	2278.2
19520.4	55°	19001.9	16098.6	6544.3	3258.8	2953.7	2968.5	2847.0	2583.4	2313.8	2139.0
22459.2	57.5°	21792.7	18255.4	6425.8	2894.4	2669.3	2731.5	2654.5	2423.4	2180.5	1999.7
25549.2	60°	24364.2	20062.5	5945.9	2562.6	2417.5	2515.2	2464.9	2266.4	1970.1	1819.0
28132.6	62.5°	26340.2	21081.6	5021.6	2299.0	2210.1	2322.7	2296.0	2059.0	1931.6	1869.4
30253.8	65°	27329.7	20915.7	3839.5	2064.9	2035.3	2210.1	2153.8	2144.9	2044.2	1973.1
30944.0	67.5°	26722.4	19487.8	2784.8	1893.1	1934.6	2106.4	2322.7	2358.2	2171.6	2032.3
29000.6	70°	24059.0	16904.4	2073.8	1730.1	1807.2	2109.3	2648.5	2467.8	2130.1	1967.1
23259.1	72.5°	18302.8	12605.7	1608.7	1558.3	1641.3	2124.2	2793.7	2417.5	2011.6	2174.5
14489.9	75°	10466.8	6920.6	1291.7	1348.0	1433.9	1984.9	2719.6	2287.1	1919.7	1996.8
5741.5	77.5°	3990.6	2660.4	1066.5	1140.6	1152.4	1733.1	2601.1	2278.2	1827.9	1783.5
1721.3	80°	1383.5	1039.9	882.8	906.5	891.7	1540.5	2494.5	1982.0	1496.1	1339.1
711.0	82.5°	565.9	518.4	699.2	669.5	634.0	1196.9	2014.5	1620.5	1223.5	1081.3
343.7	85°	245.9	328.8	462.2	405.9	367.4	829.5	1614.6	1371.7	1033.9	891.7
112.6	87.5°	50.4	124.4	195.5	183.7	189.6	554.0	1146.5	974.7	731.8	548.1
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>
5673.3
5658.5
5768.1
5954.8
6165.1
6360.6
6494.0
6571.0
6615.4
6618.4
6573.9
6496.9
6345.8
6067.3
5614.1
5015.6
4328.3
3649.9
3087.0
2701.9
2453.0
2263.4
2121.2
1970.1
1795.3
1848.6
1949.4
2008.6
1940.5
2156.8
1996.8
1626.5
1294.6
1069.5
888.8
429.6
0.0

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