

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: P941304

Luminaire Tested: **GALN-SB4D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31507 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

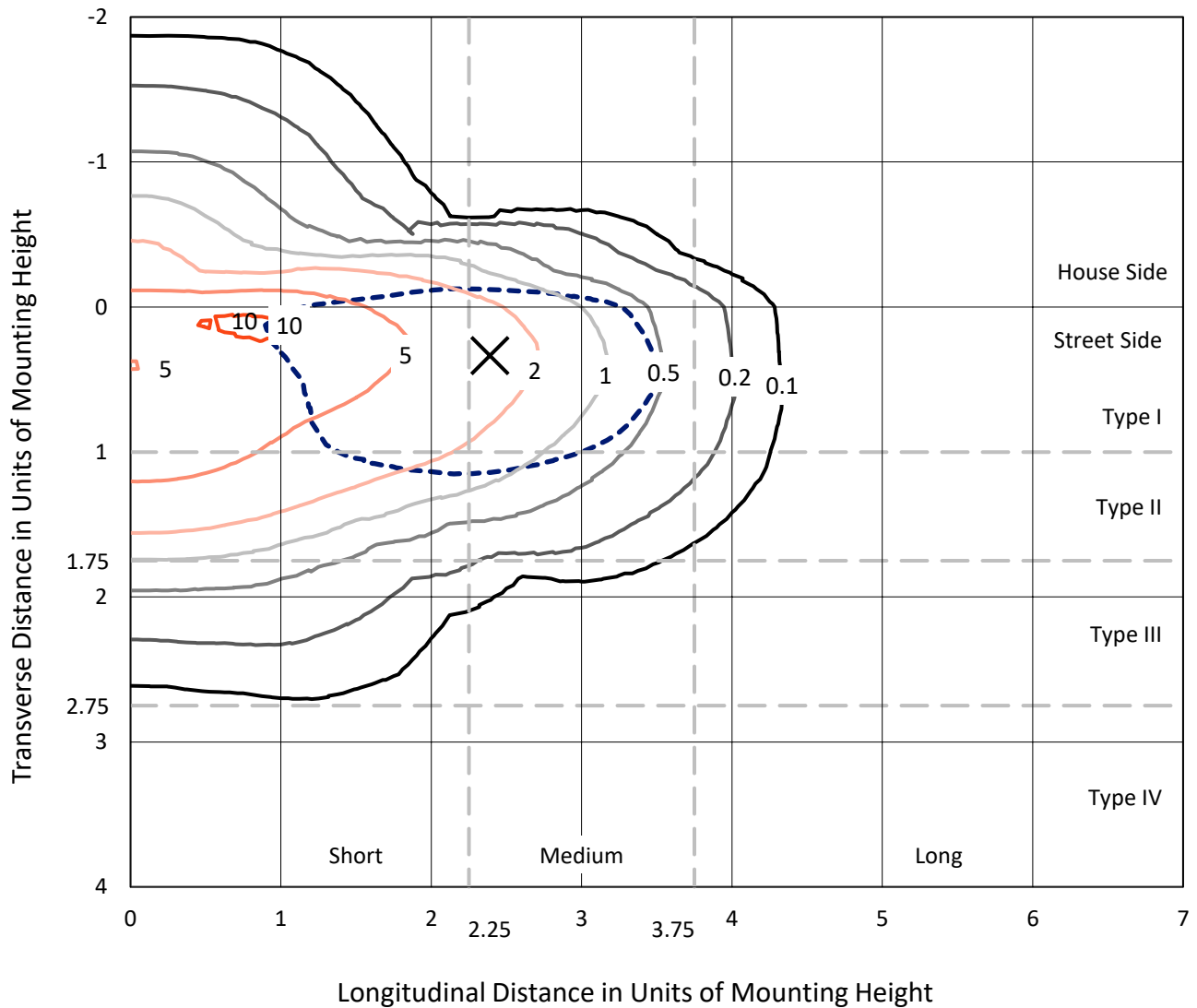
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941304
 CATALOG NUMBER: GALN-SB4D-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

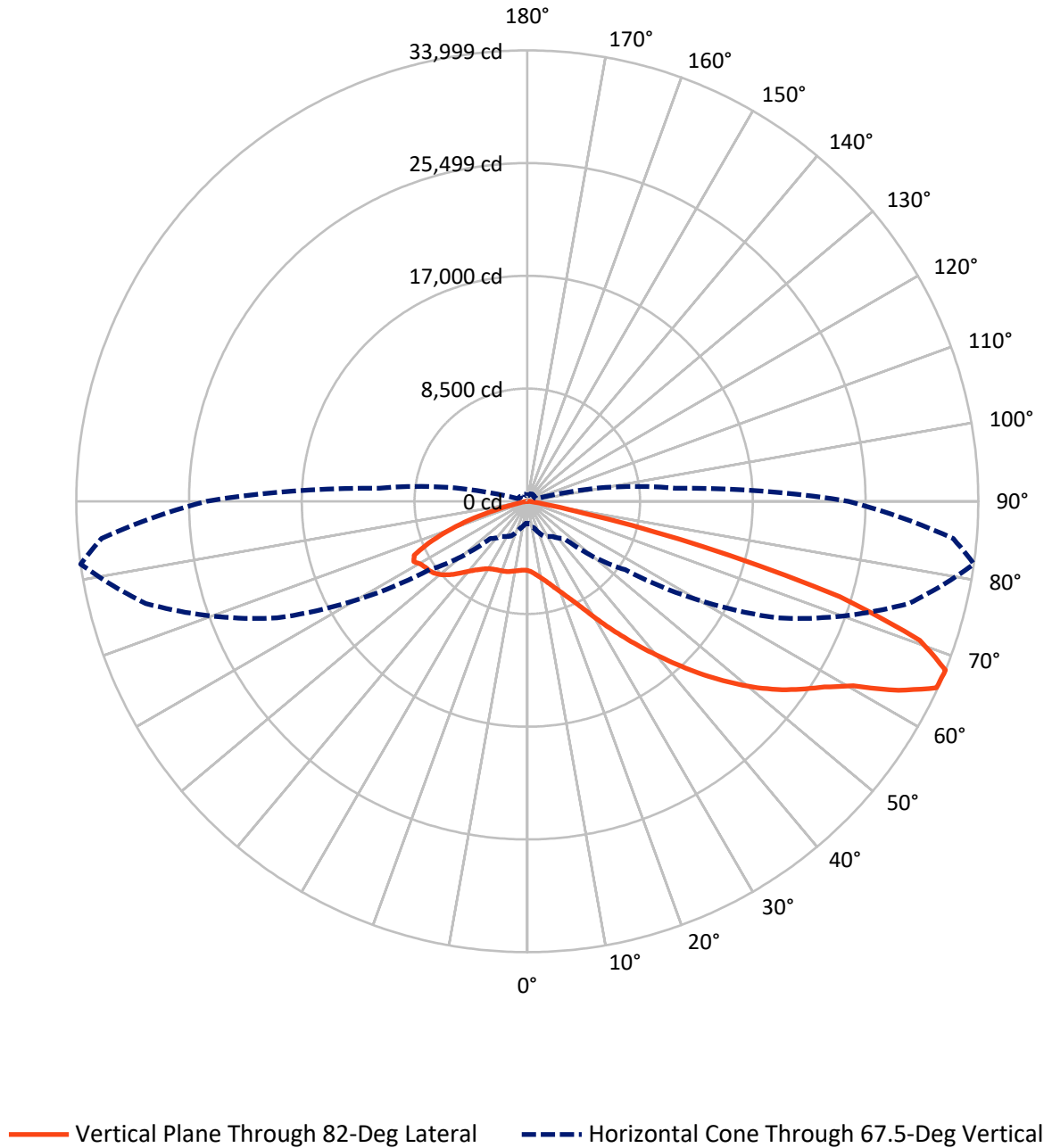
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB4D-740-U-T2-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5707.2	0.0	5707.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25799.8	0.0	25799.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	31507.0	0.0	31507.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	1.5
10°-20°	1208.4	3.8
20°-30°	1935.5	6.1
30°-40°	3422.6	10.9
40°-50°	5996.7	19.0
50°-60°	7997.9	25.4
60°-70°	7445.7	23.6
70°-80°	2857.6	9.1
80°-90°	177.5	0.6
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°	31507.0	100.0
0°-180°	31507.0	100.0



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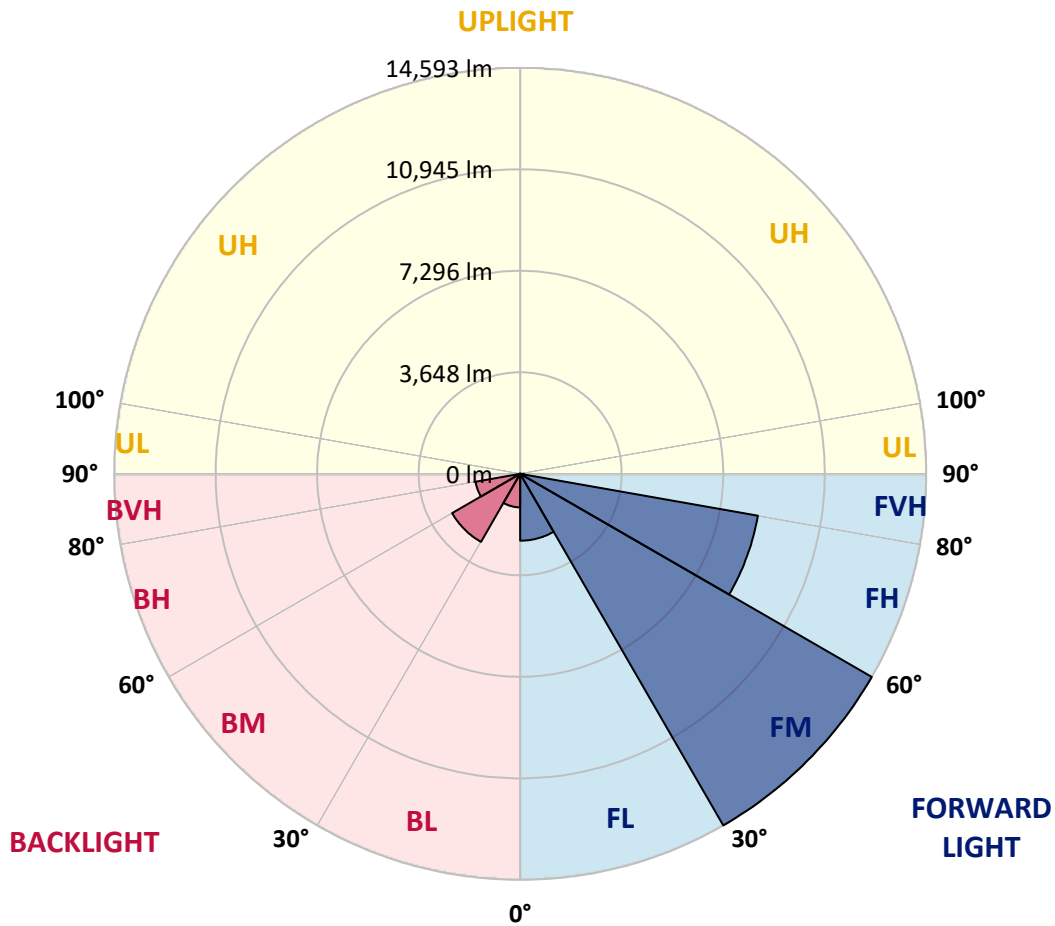
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2403.6	7.6			
FM (30°-60°)	14592.8	46.3			
FH (60°-80°)	8674.4	27.5			G4/12000
FVH (80°-90°)	129.0	0.4			G2/225
BL (0°-30°)	1205.3	3.8	B3/2500		
BM (30°-60°)	2824.5	9.0	B3/5000		
BH (60°-80°)	1628.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	48.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6
2.5°	5516.8	5548.6	5530.4	5521.3	5505.5	5482.8	5464.6	5407.9	5348.9	5310.4
5°	5628.0	5659.7	5657.4	5666.5	5677.9	5684.7	5680.1	5616.6	5532.7	5466.9
7.5°	5532.7	5569.0	5598.5	5643.8	5723.2	5807.2	5848.0	5834.4	5748.2	5657.4
10°	5262.7	5301.3	5371.6	5478.2	5646.1	5827.6	5979.6	6049.9	5995.4	5895.6
12.5°	4768.2	4806.8	4945.2	5176.5	5457.8	5773.1	6063.5	6251.8	6265.4	6165.6
15°	4212.5	4251.0	4398.5	4688.8	5117.6	5623.4	6108.9	6465.0	6585.2	6499.0
17.5°	3867.7	3901.7	4012.8	4246.5	4693.4	5324.0	6093.0	6691.9	6966.3	6898.3
20°	3763.3	3792.8	3845.0	4008.3	4380.3	5013.2	5988.6	6905.1	7376.9	7338.4
22.5°	3874.5	3901.7	3917.6	3990.2	4223.8	4809.1	5857.1	7122.9	7853.3	7857.8
25°	4130.8	4158.0	4139.9	4185.2	4287.3	4745.5	5807.2	7379.2	8452.1	8502.1
27.5°	4552.7	4555.0	4511.9	4509.6	4525.5	4840.8	5859.3	7653.7	9207.5	9300.5
30°	5398.8	5364.8	5199.2	5020.0	4938.4	5126.6	6004.5	7978.0	10099.0	10264.6
32.5°	6703.2	6653.3	6349.3	5920.6	5489.6	5587.1	6265.4	8347.8	11069.9	11369.3
35°	8118.7	8105.1	7787.5	7150.1	6397.0	6242.7	6689.6	8833.2	12129.3	12605.6
37.5°	9434.4	9427.6	9246.1	8495.2	7578.8	7156.9	7370.1	9468.4	13263.5	13953.1
40°	10636.6	10657.1	10475.6	9804.1	8880.9	8329.7	8295.6	10253.3	14524.7	15420.7
42.5°	11675.6	11698.3	11514.5	11017.7	10167.1	9627.2	9432.1	11215.1	15756.5	16997.3
45°	12381.1	12521.7	12494.5	12097.5	11487.3	10927.0	10797.7	12421.9	17160.6	18669.1
47.5°	12580.7	12710.0	12914.1	12968.6	12596.6	12045.3	12199.6	13875.9	18580.7	20343.2
50°	12088.4	12208.7	12632.9	13197.7	13456.3	13286.2	13562.9	15434.4	20034.7	22012.8
52.5°	11117.5	11240.0	11775.4	12669.1	13724.0	14259.3	14930.8	16970.1	21443.4	23593.9
55°	9713.4	9842.7	10530.0	11541.7	13213.6	14660.8	16071.8	18503.5	22734.1	25016.2
57.5°	7803.4	7898.7	8613.2	10028.7	11929.6	14261.6	16913.4	20177.6	23950.0	26413.5
60°	5085.8	5169.7	6000.0	7578.8	9801.9	12927.7	17081.2	22044.5	25565.1	28230.5
62.5°	3382.2	3438.9	3931.2	5090.3	6902.8	10366.7	16099.0	23534.9	27933.4	31392.7
65°	2320.6	2377.3	2869.6	3677.1	4459.7	6857.4	13274.8	23337.5	30079.3	33903.9
67.5°	1655.9	1703.6	2121.0	2883.2	3228.0	3983.4	8998.8	20815.1	29770.8	33999.1
70°	1186.4	1213.6	1558.4	2245.7	2565.6	2393.2	5004.1	15919.8	26066.5	31395.0
72.5°	830.2	839.3	1082.0	1710.4	2066.5	1746.7	2381.8	10614.0	19714.9	24641.9
75°	562.6	573.9	728.2	1254.4	1658.2	1333.8	1261.2	5691.5	11573.5	13640.0
77.5°	344.8	349.3	469.6	857.5	1240.8	1016.3	812.1	2411.3	4477.9	4396.2
80°	195.1	195.1	299.4	533.1	846.1	655.6	569.4	1025.3	1417.8	1245.4
82.5°	108.9	111.2	217.8	331.2	560.3	387.9	313.0	474.1	612.5	542.2
85°	45.4	49.9	133.8	156.5	267.7	192.8	127.0	199.6	226.8	201.9
87.5°	4.5	6.8	40.8	29.5	31.8	38.6	18.1	38.6	31.8	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941304
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5219.6	0°	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6	5219.6
5296.8	2.5°	5253.7	5219.6	5133.4	5033.6	4902.1	4838.5	4752.3	4693.4	4643.5	4648.0
5428.3	5°	5355.7	5269.5	5076.7	4836.3	4536.8	4323.6	4096.8	3940.3	3813.2	3786.0
5609.8	7.5°	5496.4	5360.3	5022.3	4589.0	4083.2	3699.8	3357.3	3137.2	2980.7	2930.8
5829.8	10°	5677.9	5480.5	4952.0	4278.2	3550.1	3062.4	2694.9	2522.5	2415.9	2379.6
6088.5	12.5°	5888.8	5618.9	4859.0	3899.4	3001.1	2531.6	2297.9	2211.7	2177.7	2166.3
6406.0	15°	6154.2	5791.3	4718.3	3450.3	2536.1	2207.2	2107.4	2096.0	2100.6	2096.0
6787.1	17.5°	6469.5	5979.6	4489.2	2987.5	2223.1	2041.6	2005.3	2014.4	2025.7	2023.4
7213.6	20°	6814.3	6165.6	4196.6	2576.9	2009.8	1923.6	1903.2	1912.3	1921.4	1916.8
7705.8	22.5°	7206.8	6365.2	3872.2	2257.1	1866.9	1814.7	1792.1	1794.3	1794.3	1785.2
8329.7	25°	7676.3	6585.2	3531.9	2030.2	1758.0	1717.2	1690.0	1680.9	1667.3	1640.1
9087.3	27.5°	8236.6	6818.9	3205.3	1871.4	1671.8	1633.3	1601.5	1578.8	1544.8	1499.4
9996.9	30°	8867.3	7102.4	2928.5	1771.6	1603.8	1565.2	1528.9	1494.9	1445.0	1388.3
11042.7	32.5°	9609.0	7406.4	2726.6	1705.9	1542.5	1501.7	1458.6	1417.8	1363.3	1306.6
12217.7	35°	10493.7	7773.9	2608.7	1660.5	1494.9	1440.4	1392.8	1347.4	1306.6	1256.7
13494.9	37.5°	11453.3	8164.1	2572.4	1637.8	1463.1	1379.2	1324.8	1293.0	1288.5	1259.0
14876.3	40°	12503.6	8626.8	2599.6	1624.2	1429.1	1320.2	1261.2	1254.4	1265.8	1213.6
16353.1	42.5°	13615.1	9175.8	2645.0	1608.3	1381.5	1261.2	1204.5	1204.5	1195.5	1122.9
17913.7	45°	14817.3	9808.7	2690.4	1569.7	1324.8	1202.3	1159.2	1143.3	1104.7	1034.4
19483.5	47.5°	16028.7	10452.9	2724.4	1499.4	1256.7	1152.4	1113.8	1077.5	1020.8	957.3
21023.8	50°	17178.8	11031.3	2688.1	1395.1	1179.6	1104.7	1063.9	1014.0	952.7	909.6
22482.4	52.5°	18206.4	11532.7	2533.8	1272.6	1097.9	1054.8	1018.5	966.3	916.4	871.1
23798.0	55°	19100.1	11938.7	2261.6	1156.9	1025.3	1011.7	975.4	909.6	841.6	803.0
25102.4	57.5°	19957.6	12247.2	1921.4	1061.6	959.5	964.1	909.6	850.7	787.1	746.3
26860.4	60°	21098.6	12660.1	1576.6	973.2	889.2	902.8	843.9	800.8	721.4	669.2
29875.1	62.5°	22922.4	13302.0	1252.2	864.3	807.6	812.1	787.1	735.0	639.7	578.4
32109.5	65°	24369.7	13066.1	986.8	746.3	714.6	721.4	721.4	664.6	562.6	492.2
32229.8	67.5°	24206.4	11187.9	787.1	630.6	626.1	630.6	646.5	598.9	499.1	442.3
29775.3	70°	22298.6	8899.0	630.6	524.0	544.4	533.1	578.4	546.7	449.1	392.4
23083.5	72.5°	18195.0	6410.6	480.9	433.3	417.4	435.5	521.7	492.2	374.3	310.8
12226.8	75°	10632.1	3420.8	358.4	342.5	301.7	362.9	462.8	419.7	285.8	229.1
3747.4	77.5°	3461.6	1193.2	263.1	251.8	224.6	292.6	394.7	353.9	233.6	181.5
1097.9	80°	927.8	360.7	179.2	165.6	145.2	217.8	313.0	281.3	167.9	118.0
471.8	82.5°	372.0	152.0	104.3	93.0	79.4	149.7	247.3	226.8	124.8	74.9
147.4	85°	120.2	49.9	38.6	29.5	36.3	93.0	147.4	154.3	88.5	38.6
22.7	87.5°	15.9	6.8	6.8	9.1	6.8	15.9	45.4	43.1	25.0	4.5
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>
5219.6
4602.6
3724.8
2880.9
2352.4
2159.5
2093.8
2018.9
1914.5
1780.7
1635.5
1494.9
1383.7
1308.9
1252.2
1256.7
1215.9
1122.9
1032.1
955.0
902.8
866.5
798.5
741.8
662.4
573.9
485.4
433.3
385.6
304.0
222.3
174.7
115.7
74.9
29.5
0.0
0.0

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