

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: P942669

Luminaire Tested: **GALN-SB6D-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942669
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-SB6D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64526 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

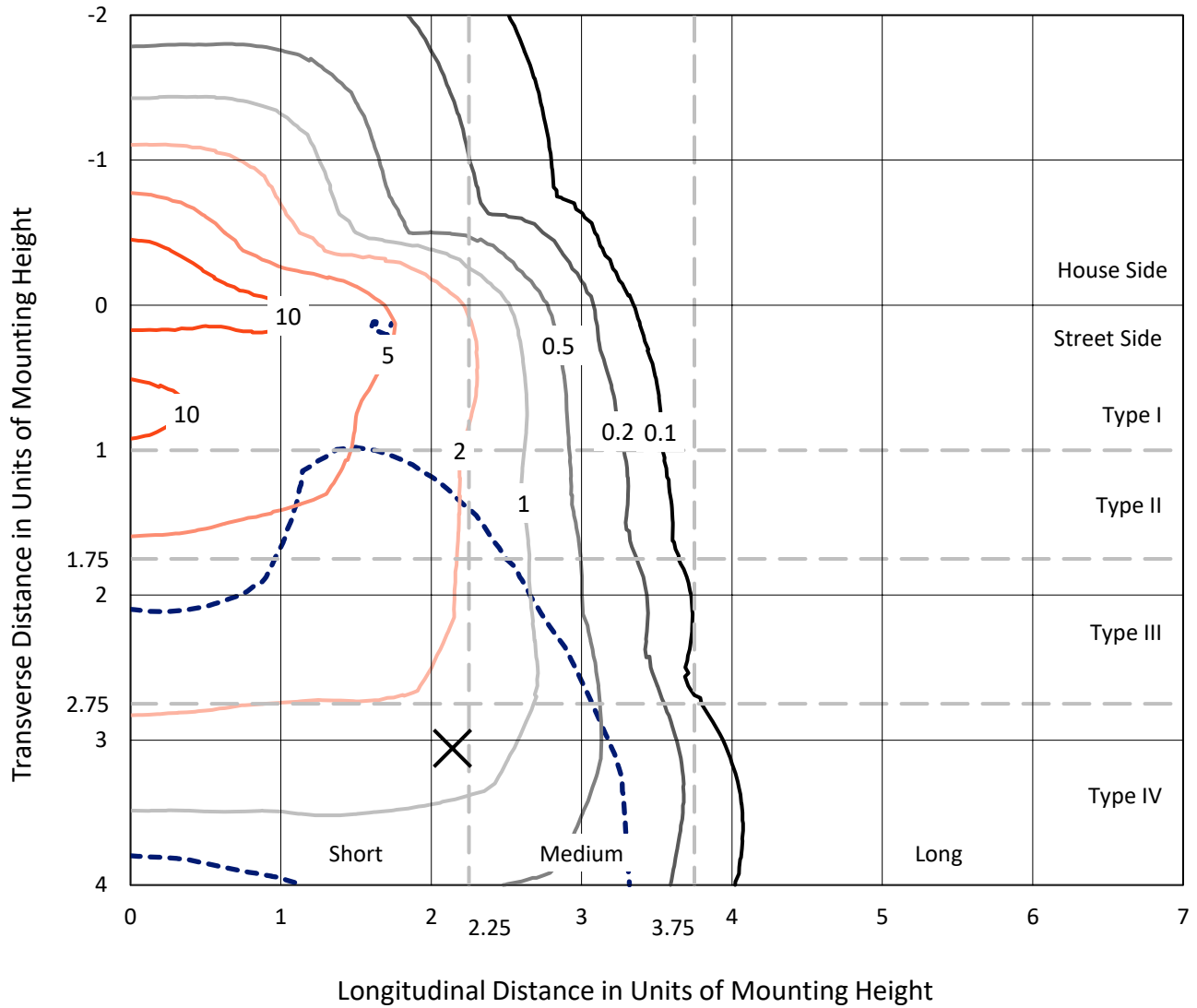
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

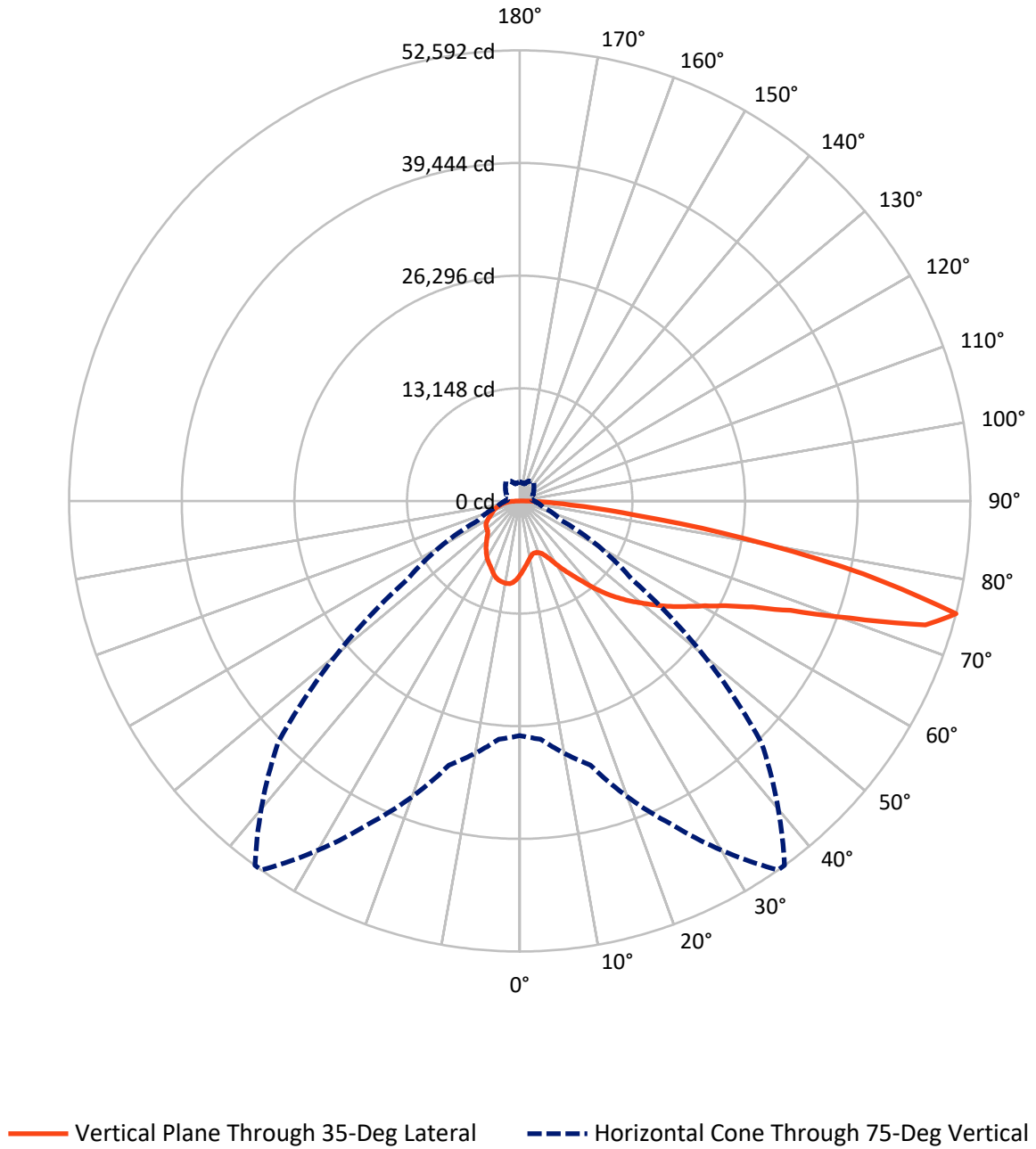
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	15355.6	0.0	15355.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	49170.4	0.0	49170.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	64526.0	0.0	64526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.1	1.3
10°-20°	2348.2	3.6
20°-30°	3943.3	6.1
30°-40°	6128.5	9.5
40°-50°	9096.3	14.1
50°-60°	12557.9	19.5
60°-70°	15235.6	23.6
70°-80°	12591.1	19.5
80°-90°	1811.0	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°	64526.0	100.0
0°-180°	64526.0	100.0

Coefficient of Utilization



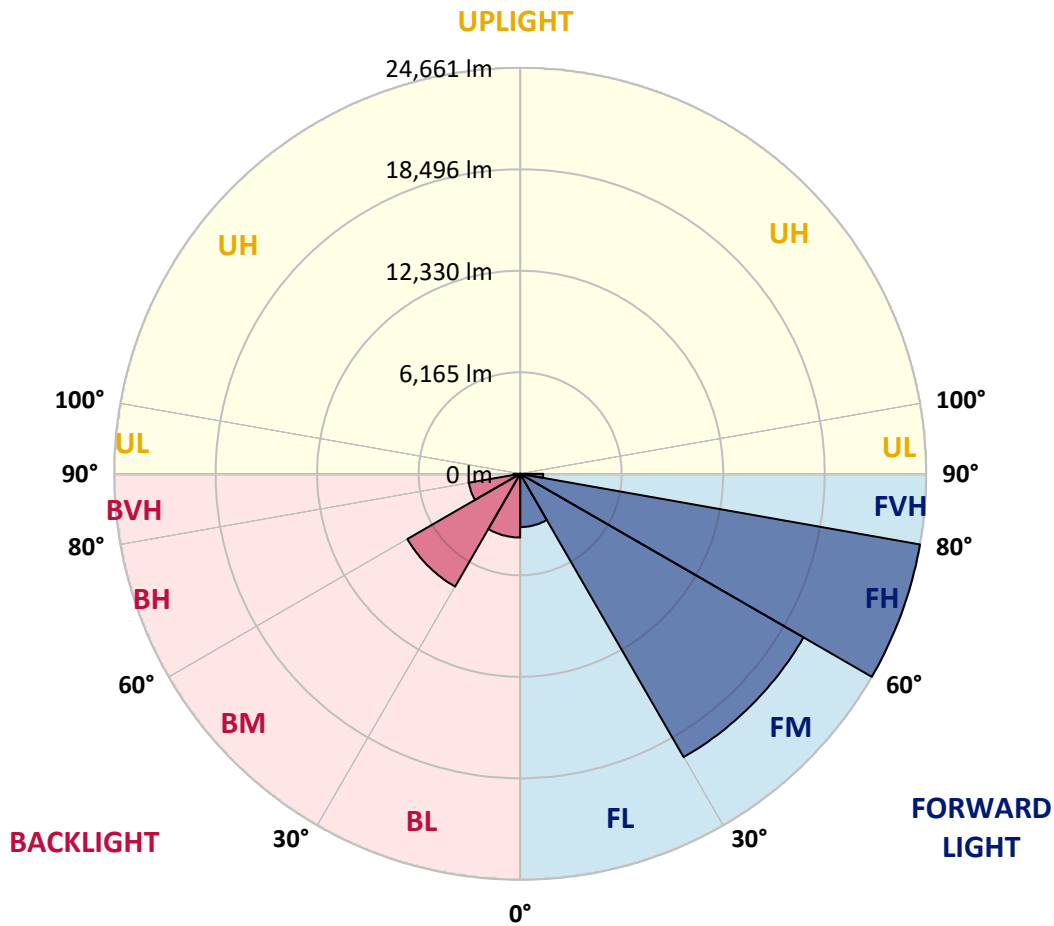
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3235.9	5.0			
FM (30°-60°)	19870.5	30.8			
FH (60°-80°)	24660.9	38.2			G5
FVH (80°-90°)	1403.2	2.2			G5
BL (0°-30°)	3869.8	6.0	B4/5000		
BM (30°-60°)	7912.1	12.3	B4/8500		
BH (60°-80°)	3165.8	4.9	B4/5000		G4/5000
BVH (80°-90°)	407.8	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°	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5
2.5°	7928.8	7977.6	7998.5	7988.1	8040.4	8033.4	8106.7	8197.4	8323.0	8445.0
5°	7318.3	7370.7	7416.0	7457.9	7559.0	7590.4	7705.5	7879.9	8110.2	8343.9
7.5°	6749.8	6795.1	6864.9	6941.6	7112.5	7143.9	7335.8	7607.9	7928.8	8270.6
10°	6285.8	6331.2	6404.4	6491.6	6704.4	6742.8	6987.0	7349.7	7768.3	8200.9
12.5°	6087.0	6100.9	6142.8	6230.0	6414.9	6439.3	6707.9	7123.0	7611.4	8148.5
15°	6076.5	6104.4	6107.9	6153.3	6306.7	6317.2	6564.9	6976.5	7513.7	8138.1
17.5°	6181.2	6202.1	6170.7	6198.6	6327.7	6345.1	6540.5	6906.7	7482.3	8183.4
20°	6460.2	6477.7	6383.5	6345.1	6439.3	6453.3	6645.1	6952.1	7513.7	8277.6
22.5°	7053.2	7063.7	6833.5	6676.5	6683.5	6690.5	6857.9	7137.0	7635.8	8448.5
25°	7977.6	7970.6	7604.4	7300.9	7126.5	7088.1	7199.7	7436.9	7841.6	8675.3
27.5°	9059.0	9006.7	8640.4	8186.9	7806.7	7750.9	7726.5	7827.6	8134.6	8975.3
30°	10279.9	10231.0	9836.9	9243.9	8717.1	8626.4	8396.2	8343.9	8570.6	9383.4
32.5°	11619.3	11588.0	11117.0	10398.5	9693.8	9589.2	9202.0	9062.5	9240.4	10000.8
35°	12742.6	12714.7	12324.0	11584.5	10722.9	10593.8	10199.6	10042.7	10133.4	10792.6
37.5°	13757.6	13743.7	13408.8	12826.3	11936.8	11779.8	11336.8	11284.5	11267.0	11835.6
40°	14699.5	14664.6	14315.8	14008.8	13349.5	13206.5	12815.8	12770.5	12637.9	13119.3
42.5°	15742.5	15651.8	15146.0	15002.9	14825.0	14706.4	14472.7	14479.7	14186.7	14566.9
45°	16593.6	16541.3	16021.5	15937.8	16129.6	16080.8	16283.1	16335.5	15766.9	16084.3
47.5°	17507.5	17458.7	17019.2	16959.9	17479.6	17493.6	18208.6	18226.1	17308.7	17661.0
50°	18634.2	18564.4	18128.4	18201.7	18784.2	18836.5	20144.6	20026.0	18728.4	19262.1
52.5°	19377.2	19419.1	19324.9	19443.5	20238.8	20287.6	22049.2	21745.7	20134.2	20842.3
55°	19924.9	20008.6	20301.6	20573.7	21773.6	21822.5	23845.6	23381.7	21299.2	22307.3
57.5°	20629.5	20510.9	21058.5	21588.8	23231.7	23360.8	25593.3	24958.4	22331.7	23570.1
60°	21641.1	21557.4	21982.9	22767.8	24864.2	25070.0	27442.0	26378.1	23088.7	24571.2
62.5°	23692.2	23482.9	23549.1	24243.3	26922.3	27194.4	29528.0	27616.4	23465.4	24961.9
65°	26758.3	26399.0	26064.2	26545.6	29821.0	30089.6	31882.6	28589.7	23325.9	24204.9
67.5°	30619.8	30264.0	29852.4	30305.9	34090.6	34303.4	34788.3	29137.3	22227.1	21288.8
70°	33804.6	33672.0	34163.9	36030.1	40910.1	40917.1	38513.7	28683.8	19216.7	15093.6
72.5°	33382.5	33302.3	35894.0	41663.6	49505.2	49320.3	42040.3	25251.4	12944.9	6809.1
75°	27386.2	27906.0	31920.9	41562.4	52592.3	52567.9	39881.1	16052.9	5354.5	2822.0
77.5°	14685.5	15508.7	20723.7	30686.1	41056.7	41674.1	28038.5	5616.1	2298.8	1806.9
80°	4789.4	5507.9	8260.2	15623.9	26678.1	26563.0	12017.0	2204.6	1573.2	1280.2
82.5°	2033.6	2117.4	3690.6	7377.6	13691.4	13478.6	3826.6	1266.2	1105.8	875.5
85°	795.3	889.5	1629.0	3411.5	5930.0	5801.0	1381.3	627.9	708.1	572.1
87.5°	261.6	317.4	582.5	1168.6	1845.3	1779.0	338.4	216.3	307.0	261.6
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°
8598.5	0°	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5	8598.5
8622.9	2.5°	8671.8	8727.6	8793.9	8891.5	8975.3	9045.0	9118.3	9163.6	9181.1	9233.4
8636.9	5°	8734.6	8856.7	9020.6	9181.1	9338.0	9432.2	9515.9	9557.8	9596.2	9624.1
8675.3	7.5°	8839.2	8996.2	9254.3	9463.6	9596.2	9672.9	9728.7	9714.8	9728.7	9735.7
8717.1	10°	8929.9	9149.7	9456.6	9655.5	9756.6	9760.1	9746.2	9697.3	9672.9	9676.4
8779.9	12.5°	9038.0	9282.2	9613.6	9781.0	9808.9	9732.2	9672.9	9589.2	9557.8	9543.8
8874.1	15°	9184.6	9463.6	9784.5	9847.3	9777.6	9679.9	9578.7	9442.7	9372.9	9317.1
9034.6	17.5°	9362.5	9669.4	9917.1	9871.7	9721.7	9561.3	9397.3	9191.5	9048.5	8989.2
9254.3	20°	9610.1	9885.7	10018.2	9819.4	9592.7	9348.5	9069.4	8818.3	8685.7	8626.4
9533.4	22.5°	9910.1	10175.2	10115.9	9728.7	9407.8	9017.1	8668.3	8483.4	8417.1	8375.3
9892.7	25°	10269.4	10496.1	10185.7	9596.2	9104.3	8577.6	8309.0	8249.7	8218.3	8186.9
10332.2	27.5°	10736.8	10858.9	10238.0	9400.8	8629.9	8110.2	8012.5	8023.0	8012.5	7960.2
10942.6	30°	11354.2	11329.8	10286.8	9083.4	8085.8	7688.1	7695.1	7740.4	7747.4	7712.5
11793.8	32.5°	12167.0	11919.3	10311.3	8671.8	7566.0	7318.3	7325.3	7374.2	7409.0	7349.7
12906.5	35°	13150.7	12606.5	10272.9	8155.5	7164.9	6966.0	6913.7	6927.7	6938.1	6882.3
14256.5	37.5°	14298.3	13377.4	10102.0	7583.4	6833.5	6620.7	6509.1	6414.9	6359.1	6306.7
15784.3	40°	15557.6	14218.1	9788.0	7025.3	6463.7	6254.4	6087.0	5909.1	5720.7	5651.0
17402.9	42.5°	16876.1	15083.2	9407.8	6491.6	6038.2	5867.2	5689.3	5431.2	5148.7	5005.6
19084.2	45°	18243.5	15969.2	9034.6	5964.9	5602.1	5528.9	5323.1	5012.6	4705.6	4524.3
20769.0	47.5°	19583.0	16806.4	8486.9	5434.7	5194.0	5274.2	5113.8	4827.7	4485.9	4199.8
22439.9	50°	20863.2	17591.2	7590.4	4897.5	4862.6	5197.5	5044.0	4632.4	4241.7	3875.4
24079.4	52.5°	22132.9	18226.1	6442.8	4409.1	4684.7	5176.6	4953.3	4499.8	4021.9	3638.2
25621.2	55°	23210.8	18554.0	5337.0	3990.6	4426.6	4998.7	4845.2	4342.9	3711.5	3303.4
26678.1	57.5°	23824.7	18288.9	4416.1	3578.9	4070.8	4705.6	4660.3	4008.0	3341.7	3027.8
26883.9	60°	23559.6	17214.5	3662.7	3219.7	3732.4	4388.2	4339.4	3676.6	3059.2	2762.7
25781.6	62.5°	22098.0	15166.9	3066.2	2905.7	3425.5	4063.8	4018.5	3422.0	2842.9	2556.9
22855.0	65°	19154.0	12337.9	2602.2	2644.1	3115.0	3673.1	3739.4	3209.2	2672.0	2392.9
17681.9	67.5°	14608.8	8936.9	2239.5	2417.4	2811.5	3289.4	3481.3	3055.7	2529.0	2263.9
10231.0	70°	8326.4	5075.4	1932.5	2197.6	2542.9	2933.6	3282.4	2933.6	2375.5	2155.7
3833.6	72.5°	3156.9	2330.1	1670.9	1977.8	2284.8	2633.6	3062.7	2741.8	2197.6	2033.6
1981.3	75°	1684.8	1419.7	1405.8	1719.7	1988.3	2340.6	2787.1	2553.4	2065.0	2148.8
1370.9	77.5°	1147.6	1004.6	1175.5	1472.0	1663.9	2016.2	2494.1	2267.4	1789.5	1782.5
948.8	80°	795.3	711.6	955.8	1186.0	1287.2	1695.3	2176.7	1946.4	1458.1	1360.4
586.0	82.5°	477.9	463.9	715.1	886.0	910.4	1308.1	1803.4	1632.5	1193.0	1039.5
348.8	85°	261.6	275.6	457.0	519.7	530.2	913.9	1412.7	1262.7	917.4	770.9
125.6	87.5°	73.3	94.2	167.4	205.8	254.6	474.4	840.7	750.0	460.4	320.9
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>
8598.5
9229.9
9631.0
9746.2
9683.4
9536.9
9334.5
8992.7
8619.5
8382.3
8186.9
7970.6
7730.0
7377.6
6920.7
6341.6
5682.4
5023.1
4510.3
4168.5
3844.0
3596.4
3268.5
2985.9
2720.8
2511.5
2347.6
2222.0
2127.8
2005.7
2218.5
1643.0
1301.1
1046.5
777.9
320.9
0.0

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