

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: P951717

Luminaire Tested: **GALN-SB5D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951717
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-SB5D-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54277 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

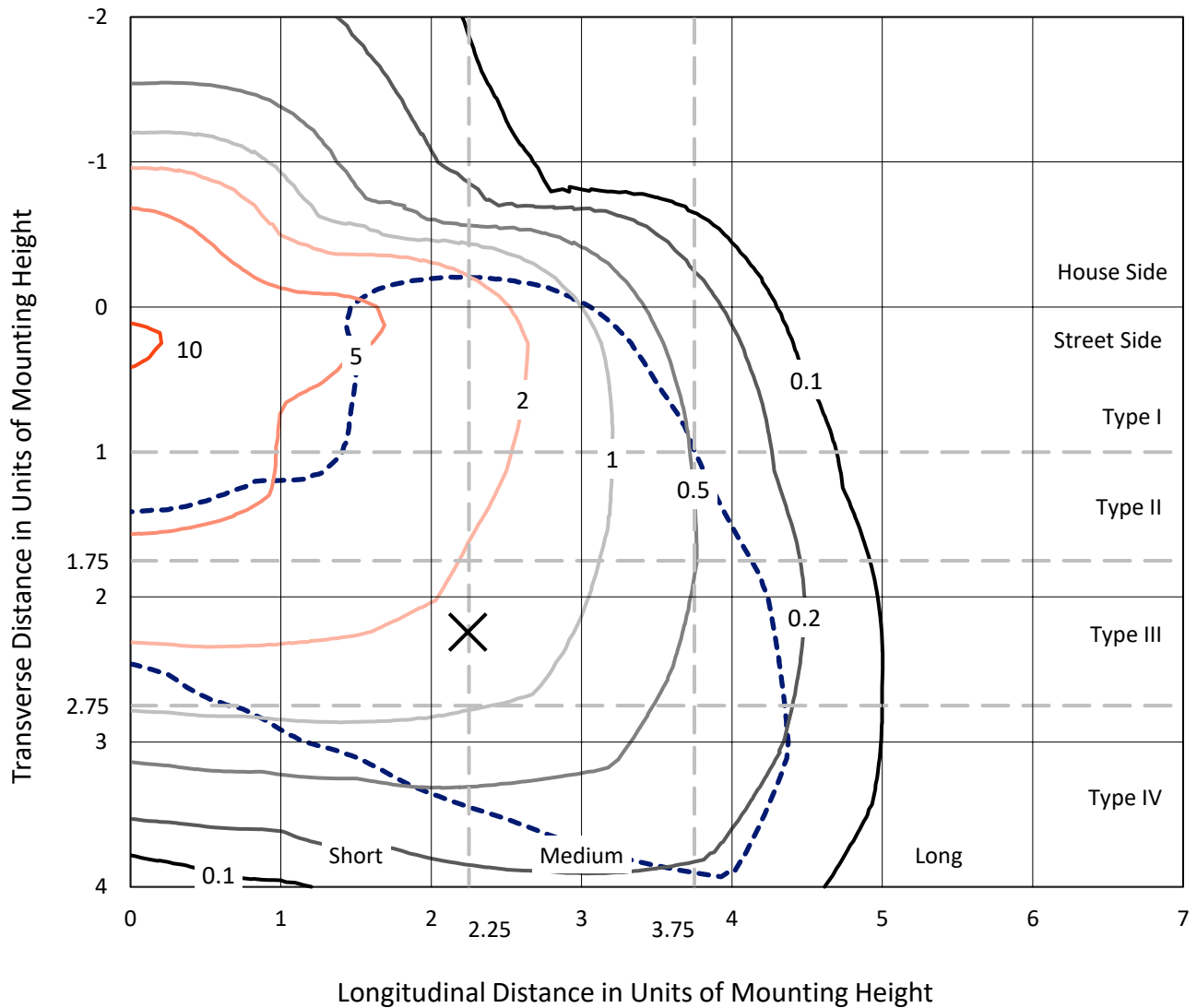
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

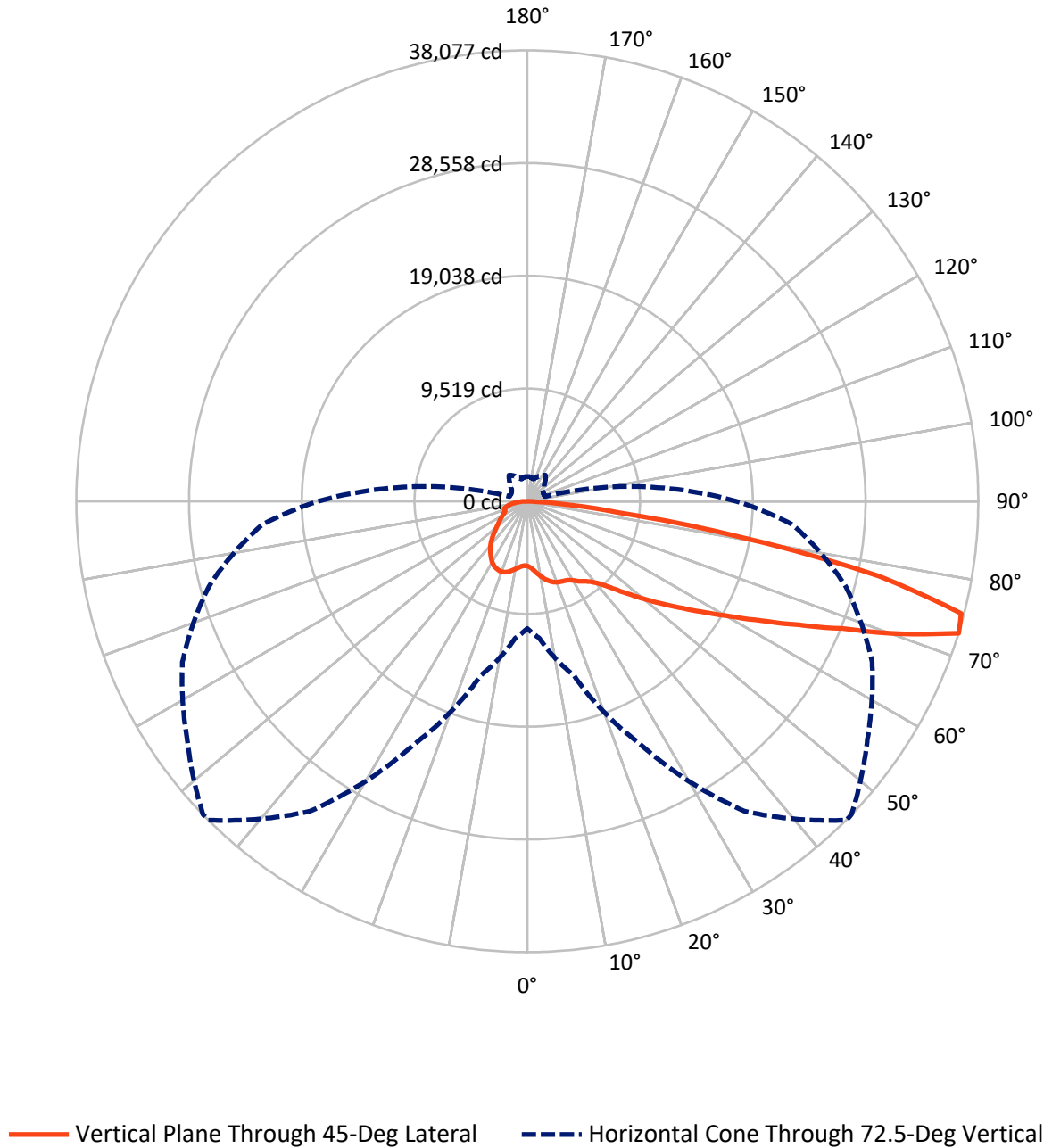
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	12270.2	0.0	12270.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	42006.8	0.0	42006.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	54277.0	0.0	54277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.3	1.0
10°-20°	1858.1	3.4
20°-30°	3232.3	6.0
30°-40°	4633.6	8.5
40°-50°	6524.4	12.0
50°-60°	9993.5	18.4
60°-70°	14477.1	26.7
70°-80°	11560.8	21.3
80°-90°	1439.8	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°	54277.0	100.0
0°-180°	54277.0	100.0

Coefficient of Utilization



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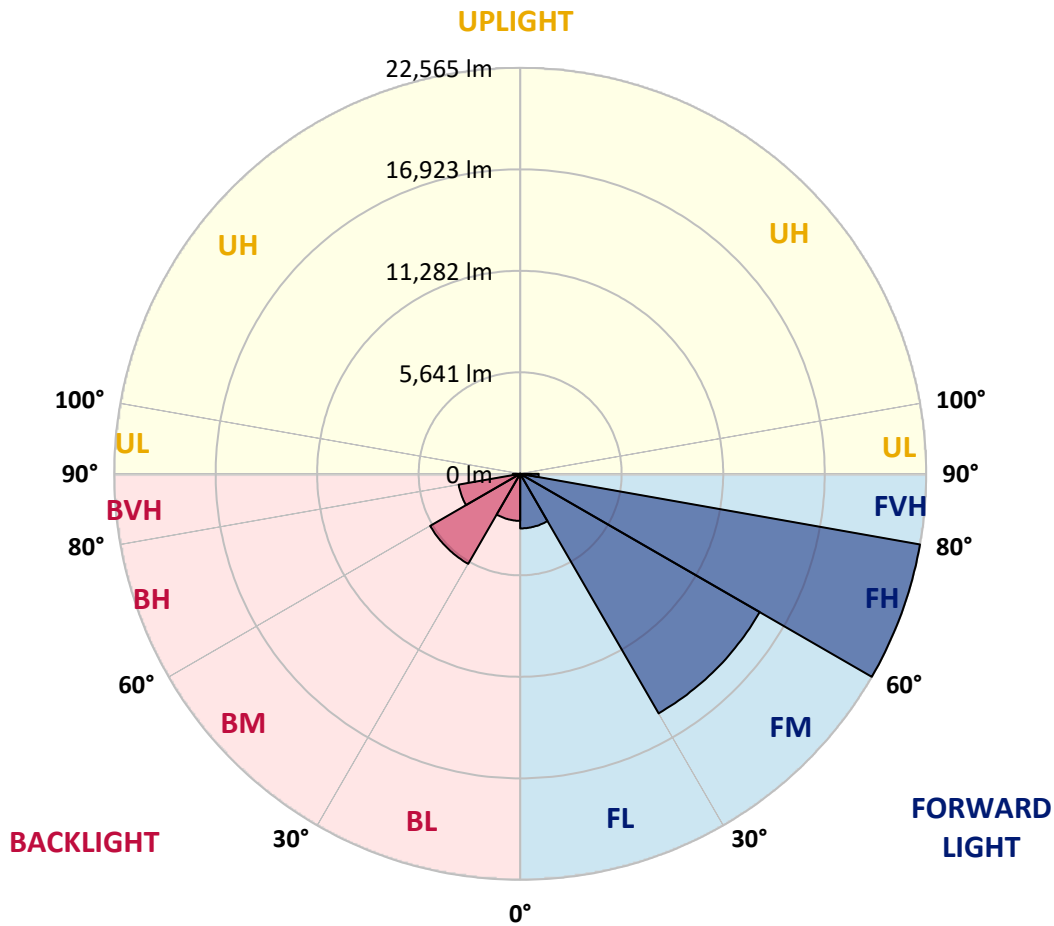
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3035.3	5.6			
FM (30°-60°)	15374.1	28.3			
FH (60°-80°)	22564.5	41.6			G5
FVH (80°-90°)	1033.0	1.9			G5
BL (0°-30°)	2612.4	4.8	B4/5000		
BM (30°-60°)	5777.5	10.6	B4/8500		
BH (60°-80°)	3473.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	406.9	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°	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5
2.5°	5689.9	5727.1	5692.8	5661.3	5647.0	5609.9	5607.0	5584.1	5569.8	5529.8
5°	6087.4	6136.0	6078.8	6015.9	5958.7	5867.2	5855.8	5790.0	5715.7	5629.9
7.5°	6536.3	6579.2	6513.4	6419.1	6319.0	6167.4	6164.6	6044.5	5927.3	5781.4
10°	6928.0	6985.2	6896.5	6767.9	6642.1	6470.5	6450.5	6313.3	6164.6	5975.9
12.5°	7274.0	7314.0	7228.2	7071.0	6925.1	6753.6	6727.9	6576.3	6410.5	6196.0
15°	7548.5	7599.9	7485.6	7316.9	7162.5	6993.8	6970.9	6833.6	6667.8	6441.9
17.5°	7728.6	7771.5	7654.3	7465.5	7316.9	7176.8	7159.6	7045.2	6899.4	6670.7
20°	7797.2	7843.0	7720.0	7528.4	7391.2	7282.5	7274.0	7191.1	7091.0	6882.3
22.5°	7865.8	7908.7	7748.6	7548.5	7428.4	7359.7	7356.9	7302.6	7262.5	7091.0
25°	8143.2	8154.6	7940.2	7651.4	7479.8	7419.8	7416.9	7414.1	7431.2	7296.8
27.5°	8383.4	8380.5	8197.5	7925.9	7660.0	7534.2	7531.3	7559.9	7614.2	7502.7
30°	8735.1	8703.6	8486.3	8203.2	7960.2	7765.8	7748.6	7722.9	7765.8	7677.1
32.5°	9481.3	9381.2	9029.6	8526.3	8209.0	8060.3	8037.4	7877.3	7894.4	7840.1
35°	10550.7	10419.2	9950.2	9138.2	8517.8	8306.2	8294.7	8091.7	8057.4	8008.8
37.5°	11823.1	11660.1	11114.0	10024.6	9049.6	8592.1	8574.9	8391.9	8251.8	8200.4
40°	13101.2	12895.3	12443.5	11105.4	9833.0	9069.6	9015.3	8737.9	8577.8	8492.0
42.5°	14342.1	14170.5	13784.5	12317.7	10799.4	9767.2	9647.2	9172.5	9052.4	8972.4
45°	15440.0	15285.6	15002.6	13613.0	11931.7	10716.5	10599.3	9824.4	9787.3	9787.3
47.5°	16332.1	16297.8	15997.6	14933.9	13267.0	11797.3	11594.3	10730.8	10830.9	10985.3
50°	17321.4	17227.1	16906.8	16234.9	14836.7	13035.4	12869.6	11843.1	12217.6	12640.8
52.5°	18230.7	18282.1	17924.7	17590.2	16609.5	14416.4	14124.8	13155.5	13964.7	14665.2
55°	19165.7	19168.5	19068.4	19022.7	18468.0	15943.3	15623.0	14733.8	16020.5	16889.7
57.5°	20043.4	20049.2	20197.8	20601.0	20623.9	17704.6	17341.4	16672.4	18305.0	19191.4
60°	20826.9	20866.9	21272.9	22216.5	22519.6	19723.2	19380.1	18962.6	20666.8	21558.9
62.5°	21089.9	21235.8	22139.3	23480.3	24392.4	22199.3	21861.9	21613.2	23148.6	23977.8
65°	20643.9	20978.4	22725.4	24523.9	26319.5	25141.5	24807.0	24535.4	25727.7	26508.2
67.5°	19548.8	19980.5	22691.1	25619.0	28658.4	28681.3	28369.6	27732.0	28492.6	28792.8
70°	16663.8	17310.0	20692.5	26027.9	31343.3	33522.0	33221.8	31580.6	31251.8	29799.3
72.5°	10736.5	11605.8	15237.0	22662.5	31940.9	38076.8	38059.7	35054.6	32123.8	27843.5
75°	3917.2	4449.0	7079.5	14224.8	26811.3	37845.2	37956.7	34459.9	29324.6	21507.4
77.5°	1426.8	1561.2	2310.3	5466.9	16489.4	30365.4	30597.0	27549.0	20872.6	10793.7
80°	749.1	823.5	1183.7	2121.6	7065.2	18033.4	18396.5	16372.2	9810.1	3251.0
82.5°	414.6	448.9	663.3	1152.3	3182.4	7711.4	7928.7	6467.7	3451.1	1378.2
85°	223.0	237.3	311.7	629.0	1555.4	2673.4	2733.5	1932.9	1375.3	809.2
87.5°	65.8	80.1	102.9	200.1	609.0	600.4	614.7	383.1	543.3	408.9
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°
5475.5	0°	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5	5475.5
5518.4	2.5°	5501.2	5492.6	5461.2	5446.9	5429.7	5426.9	5441.2	5444.0	5446.9	5449.8
5581.3	5°	5552.7	5524.1	5495.5	5478.4	5484.1	5486.9	5515.5	5535.5	5549.8	5561.3
5698.5	7.5°	5652.8	5629.9	5581.3	5578.4	5587.0	5612.7	5649.9	5695.7	5721.4	5741.4
5850.1	10°	5801.4	5758.6	5701.4	5710.0	5727.1	5764.3	5841.5	5878.6	5921.5	5958.7
6035.9	12.5°	5953.0	5915.8	5850.1	5855.8	5884.4	5950.1	6024.5	6070.2	6098.8	6127.4
6236.1	15°	6150.3	6084.5	6013.0	6013.0	6064.5	6136.0	6170.3	6207.5	6224.6	6256.1
6450.5	17.5°	6353.3	6267.5	6173.2	6167.4	6230.3	6264.7	6284.7	6290.4	6296.1	6330.4
6659.2	20°	6556.3	6461.9	6327.6	6316.1	6330.4	6324.7	6321.8	6316.1	6324.7	6367.6
6873.7	22.5°	6756.4	6647.8	6461.9	6410.5	6370.4	6316.1	6313.3	6310.4	6316.1	6359.0
7105.3	25°	6990.9	6859.4	6610.6	6456.2	6321.8	6247.5	6256.1	6258.9	6264.7	6299.0
7345.5	27.5°	7245.4	7099.6	6747.9	6441.9	6198.9	6147.4	6133.1	6141.7	6161.7	6216.0
7585.6	30°	7499.9	7328.3	6873.7	6384.7	6044.5	5973.0	5927.3	5947.3	6010.2	6064.5
7794.4	32.5°	7731.5	7559.9	6973.7	6258.9	5847.2	5735.7	5675.6	5701.4	5764.3	5784.3
8026.0	35°	8003.1	7808.7	7016.6	6058.8	5632.8	5461.2	5381.1	5344.0	5375.4	5355.4
8297.6	37.5°	8306.2	8103.2	7010.9	5795.7	5381.1	5183.8	5072.3	4932.2	4866.5	4797.8
8697.9	40°	8755.1	8463.4	6942.3	5478.4	5069.5	4889.3	4689.2	4451.9	4303.2	4168.8
9344.1	42.5°	9367.0	8963.8	6816.5	5129.5	4717.8	4549.1	4277.5	4000.1	3765.7	3542.6
10324.8	45°	10279.1	9618.6	6659.2	4757.8	4337.5	4171.7	3877.2	3565.5	3299.6	3013.7
11717.3	47.5°	11594.3	10499.2	6510.5	4334.6	3937.2	3785.7	3519.8	3231.0	2916.5	2639.1
13730.2	50°	13401.4	11763.0	6373.3	3922.9	3542.6	3428.3	3216.7	2922.2	2604.8	2381.8
16089.1	52.5°	15700.2	13481.4	6316.1	3525.5	3173.8	3130.9	2962.2	2687.7	2387.5	2198.8
18839.7	55°	18339.3	15537.2	6316.1	3145.2	2850.7	2865.0	2747.8	2493.3	2233.1	2064.4
21676.1	57.5°	21032.8	17618.8	6201.7	2793.5	2576.2	2636.2	2561.9	2338.9	2104.4	1930.0
24658.3	60°	23514.6	19362.9	5738.5	2473.3	2333.2	2427.5	2378.9	2187.3	1901.4	1755.6
27151.6	62.5°	25421.7	20346.5	4846.5	2218.8	2133.0	2241.7	2215.9	1987.2	1864.2	1804.2
29198.8	65°	26376.7	20186.4	3705.6	1992.9	1964.3	2133.0	2078.7	2070.1	1972.9	1904.3
29865.0	67.5°	25790.6	18808.2	2687.7	1827.1	1867.1	2032.9	2241.7	2276.0	2095.8	1961.5
27989.3	70°	23220.1	16315.0	2001.5	1669.8	1744.2	2035.8	2556.2	2381.8	2055.8	1898.6
22448.1	72.5°	17664.5	12166.2	1552.6	1504.0	1584.0	2050.1	2696.3	2333.2	1941.4	2098.7
13984.7	75°	10101.8	6679.2	1246.6	1301.0	1383.9	1915.7	2624.8	2207.4	1852.8	1927.1
5541.3	77.5°	3851.4	2567.6	1029.3	1100.8	1112.3	1672.7	2510.4	2198.8	1764.2	1721.3
1661.2	80°	1335.3	1003.6	852.1	874.9	860.6	1486.8	2407.5	1912.8	1443.9	1292.4
686.2	82.5°	546.1	500.4	674.8	646.2	611.9	1155.1	1944.3	1564.0	1180.9	1043.6
331.7	85°	237.3	317.4	446.0	391.7	354.5	800.6	1558.3	1323.8	997.9	860.6
108.7	87.5°	48.6	120.1	188.7	177.3	183.0	534.7	1106.5	940.7	706.2	529.0
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>
5475.5
5461.2
5567.0
5747.1
5950.1
6138.8
6267.5
6341.9
6384.7
6387.6
6344.7
6270.4
6124.5
5855.8
5418.3
4840.7
4177.4
3522.6
2979.4
2607.6
2367.5
2184.5
2047.2
1901.4
1732.7
1784.2
1881.4
1938.6
1872.8
2081.5
1927.1
1569.7
1249.5
1032.2
857.8
414.6
0.0

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