

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: P942729

Luminaire Tested: **GALN-SB6D-840-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942729
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-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 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: 58339 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

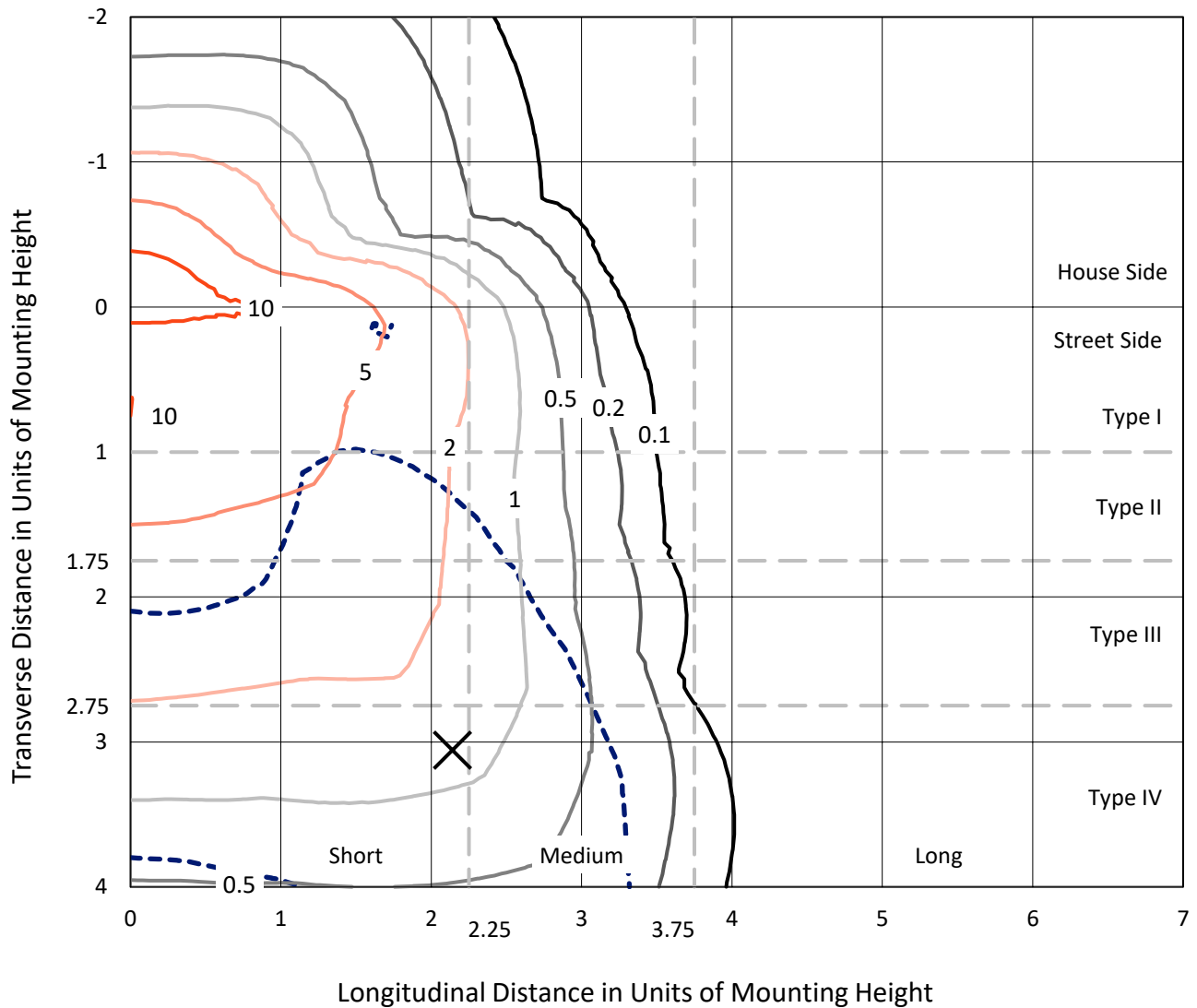
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

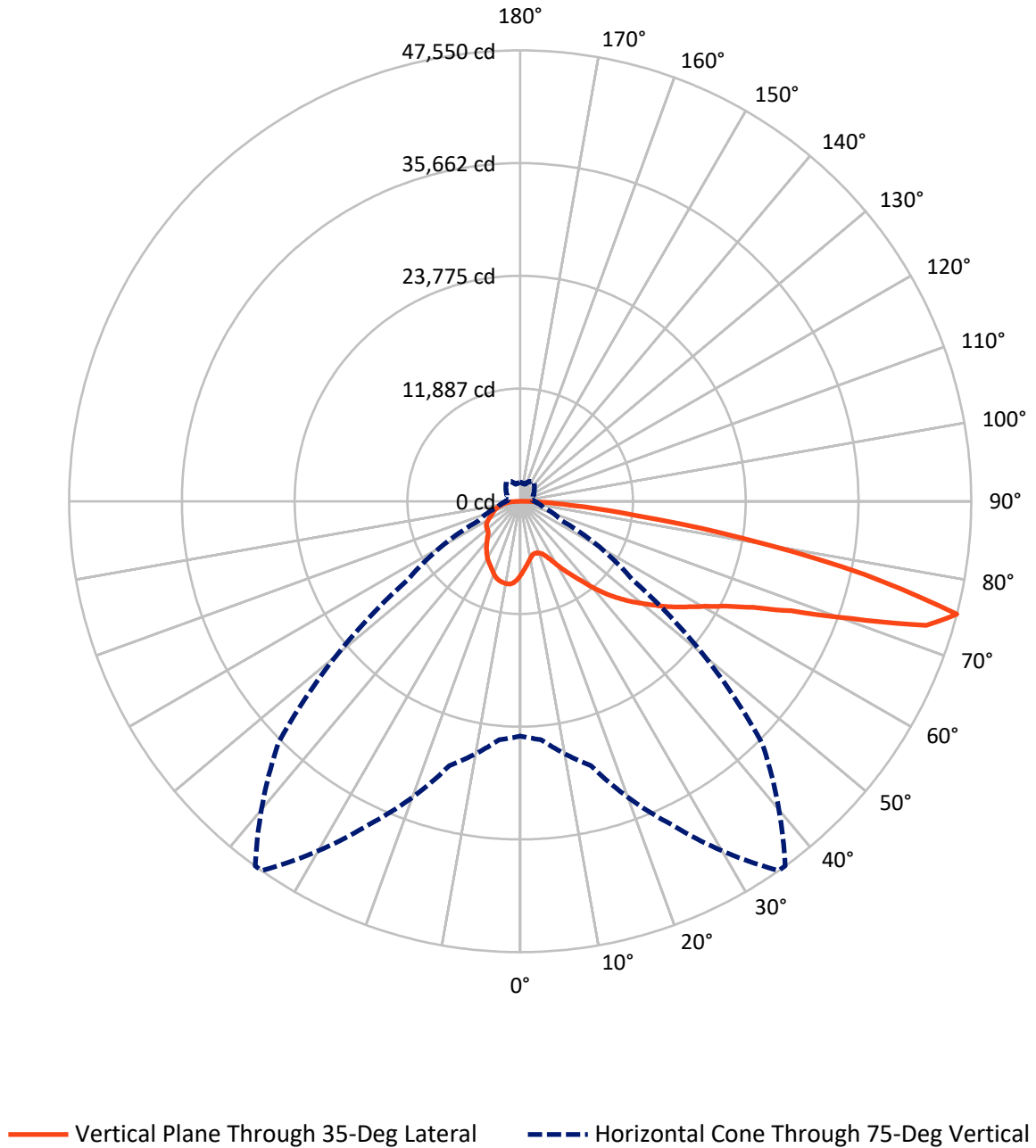
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	13883.2	0.0	13883.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	44455.8	0.0	44455.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	58339.0	0.0	58339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.0	1.3
10°-20°	2123.1	3.6
20°-30°	3565.2	6.1
30°-40°	5540.8	9.5
40°-50°	8224.1	14.1
50°-60°	11353.8	19.5
60°-70°	13774.8	23.6
70°-80°	11383.8	19.5
80°-90°	1637.3	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°	58339.0	100.0
0°-180°	58339.0	100.0

Coefficient of Utilization



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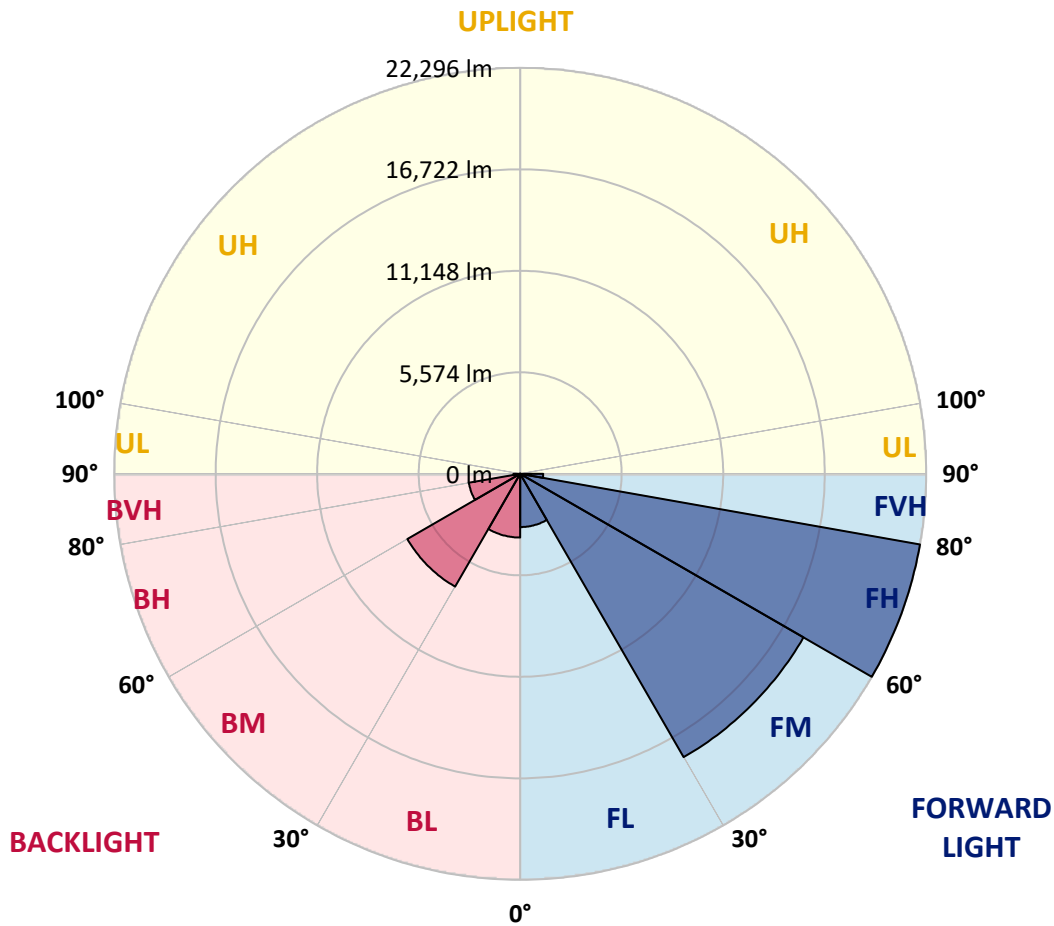
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2925.6	5.0			
FM (30°-60°)	17965.2	30.8			
FH (60°-80°)	22296.3	38.2			G5
FVH (80°-90°)	1268.6	2.2			G5
BL (0°-30°)	3498.8	6.0	B4/5000		
BM (30°-60°)	7153.5	12.3	B4/8500		
BH (60°-80°)	2862.3	4.9	B4/5000		G4/5000
BVH (80°-90°)	368.7	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°	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1
2.5°	7168.5	7212.7	7231.6	7222.2	7269.5	7263.2	7329.4	7411.4	7524.9	7635.3
5°	6616.6	6663.9	6704.9	6742.8	6834.2	6862.6	6966.7	7124.4	7332.5	7543.8
7.5°	6102.6	6143.6	6206.6	6276.0	6430.6	6458.9	6632.4	6878.4	7168.5	7477.6
10°	5683.1	5724.1	5790.3	5869.2	6061.6	6096.3	6317.0	6645.0	7023.5	7414.5
12.5°	5503.3	5516.0	5553.8	5632.7	5799.8	5821.9	6064.7	6440.0	6881.5	7367.2
15°	5493.9	5519.1	5522.3	5563.3	5702.0	5711.5	5935.4	6307.6	6793.2	7357.8
17.5°	5588.5	5607.4	5579.0	5604.3	5721.0	5736.7	5913.3	6244.5	6764.9	7398.8
20°	5840.8	5856.6	5771.4	5736.7	5821.9	5834.5	6007.9	6285.5	6793.2	7483.9
22.5°	6376.9	6386.4	6178.3	6036.3	6042.6	6048.9	6200.3	6452.6	6903.6	7638.5
25°	7212.7	7206.4	6875.2	6600.9	6443.2	6408.5	6509.4	6723.9	7089.7	7843.4
27.5°	8190.4	8143.1	7811.9	7401.9	7058.2	7007.7	6985.6	7077.1	7354.6	8114.7
30°	9294.2	9250.0	8893.7	8357.5	7881.3	7799.3	7591.1	7543.8	7748.8	8483.7
32.5°	10505.2	10476.9	10051.1	9401.4	8764.4	8669.7	8319.7	8193.5	8354.4	9041.9
35°	11520.8	11495.5	11142.3	10473.7	9694.7	9578.0	9221.7	9079.7	9161.7	9757.8
37.5°	12438.5	12425.9	12123.1	11596.4	10792.2	10650.3	10249.8	10202.5	10186.7	10700.8
40°	13290.0	13258.5	12943.1	12665.6	12069.5	11940.2	11587.0	11546.0	11426.1	11861.4
42.5°	14233.0	14151.0	13693.7	13564.4	13403.6	13296.3	13085.0	13091.3	12826.4	13170.2
45°	15002.5	14955.2	14485.3	14409.6	14583.1	14538.9	14721.8	14769.1	14255.1	14542.1
47.5°	15828.8	15784.7	15387.3	15333.7	15803.6	15816.2	16462.7	16478.5	15649.1	15967.6
50°	16847.5	16784.4	16390.2	16456.4	16983.1	17030.4	18213.1	18105.8	16932.6	17415.2
52.5°	17519.2	17557.1	17471.9	17579.2	18298.2	18342.4	19935.0	19660.7	18203.6	18843.8
55°	18014.4	18090.1	18355.0	18601.0	19685.9	19730.0	21559.2	21139.8	19257.0	20168.4
57.5°	18651.5	18544.2	19039.4	19518.7	21004.2	21120.9	23139.3	22565.3	20190.5	21310.1
60°	19566.0	19490.4	19875.1	20584.7	22480.1	22666.2	24810.8	23848.9	20874.9	22215.2
62.5°	21420.5	21231.2	21291.2	21918.8	24340.9	24586.9	26696.7	24968.5	21215.5	22568.4
65°	24192.6	23867.8	23565.0	24000.3	26961.7	27204.5	28825.5	25848.4	21089.3	21884.1
67.5°	27683.9	27362.2	26990.0	27400.0	30821.9	31014.3	31452.6	26343.5	20095.9	19247.5
70°	30563.3	30443.4	30888.1	32575.4	36987.5	36993.8	34820.9	25933.5	17374.2	13646.4
72.5°	30181.7	30109.1	32452.4	37668.7	44758.4	44591.3	38009.4	22830.2	11703.7	6156.2
75°	24760.3	25230.2	28860.2	37577.3	47549.5	47527.5	36057.2	14513.7	4841.1	2551.4
77.5°	13277.4	14021.7	18736.6	27743.8	37120.0	37678.2	25350.1	5077.6	2078.3	1633.7
80°	4330.1	4979.8	7468.1	14125.8	24120.1	24016.0	10864.8	1993.2	1422.4	1157.4
82.5°	1838.7	1914.3	3336.7	6670.2	12378.6	12186.2	3459.7	1144.8	999.7	791.6
85°	719.1	804.2	1472.8	3084.4	5361.4	5244.7	1248.9	567.7	640.2	517.2
87.5°	236.5	287.0	526.7	1056.5	1668.3	1608.4	305.9	195.5	277.5	236.5
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°
7774.1	0°	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1	7774.1
7796.1	2.5°	7840.3	7890.8	7950.7	8039.0	8114.7	8177.8	8244.0	8285.0	8300.7	8348.1
7808.8	5°	7897.1	8007.4	8155.7	8300.7	8442.7	8527.8	8603.5	8641.4	8676.0	8701.3
7843.4	7.5°	7991.7	8133.6	8367.0	8556.2	8676.0	8745.4	8795.9	8783.3	8795.9	8802.2
7881.3	10°	8073.7	8272.4	8549.9	8729.7	8821.1	8824.3	8811.7	8767.5	8745.4	8748.6
7938.1	12.5°	8171.4	8392.2	8691.8	8843.2	8868.4	8799.0	8745.4	8669.7	8641.4	8628.7
8023.2	15°	8303.9	8556.2	8846.4	8903.1	8840.0	8751.7	8660.3	8537.3	8474.2	8423.7
8168.3	17.5°	8464.7	8742.3	8966.2	8925.2	8789.6	8644.5	8496.3	8310.2	8180.9	8127.3
8367.0	20°	8688.7	8937.8	9057.7	8877.9	8672.9	8452.1	8199.8	7972.8	7852.9	7799.3
8619.3	22.5°	8959.9	9199.6	9146.0	8795.9	8505.7	8152.5	7837.1	7670.0	7610.1	7572.2
8944.1	25°	9284.7	9489.7	9209.0	8676.0	8231.4	7755.1	7512.3	7458.7	7430.3	7401.9
9341.5	27.5°	9707.3	9817.7	9256.3	8499.4	7802.5	7332.5	7244.2	7253.7	7244.2	7196.9
9893.4	30°	10265.6	10243.5	9300.5	8212.4	7310.5	6950.9	6957.2	6998.2	7004.5	6973.0
10662.9	32.5°	11000.4	10776.5	9322.6	7840.3	6840.5	6616.6	6622.9	6667.1	6698.6	6645.0
11669.0	35°	11889.7	11397.8	9287.9	7373.5	6477.9	6298.1	6250.8	6263.4	6272.9	6222.4
12889.5	37.5°	12927.3	12094.7	9133.3	6856.3	6178.3	5985.9	5885.0	5799.8	5749.3	5702.0
14270.9	40°	14065.9	12854.8	8849.5	6351.7	5844.0	5654.7	5503.3	5342.5	5172.2	5109.1
15734.2	42.5°	15258.0	13636.9	8505.7	5869.2	5459.2	5304.7	5143.8	4910.4	4655.0	4525.7
17254.3	45°	16494.3	14438.0	8168.3	5393.0	5065.0	4998.7	4812.7	4532.0	4254.4	4090.5
18777.6	47.5°	17705.3	15194.9	7673.1	4913.6	4696.0	4768.5	4623.4	4364.8	4055.8	3797.2
20288.3	50°	18862.8	15904.5	6862.6	4427.9	4396.4	4699.1	4560.4	4188.2	3835.0	3503.8
21770.5	52.5°	20010.7	16478.5	5825.0	3986.4	4235.5	4680.2	4478.4	4068.4	3636.3	3289.4
23164.5	55°	20985.2	16775.0	4825.3	3607.9	4002.1	4519.4	4380.6	3926.5	3355.6	2986.6
24120.1	57.5°	21540.3	16535.3	3992.7	3235.8	3680.5	4254.4	4213.4	3623.7	3021.3	2737.5
24306.2	60°	21300.6	15563.9	3311.5	2910.9	3374.5	3967.5	3923.3	3324.1	2765.9	2497.8
23309.6	62.5°	19979.2	13712.6	2772.2	2627.1	3097.0	3674.2	3633.2	3093.9	2570.3	2311.7
20663.6	65°	17317.4	11154.9	2352.7	2390.6	2816.3	3320.9	3380.9	2901.5	2415.8	2163.5
15986.5	67.5°	13208.0	8080.0	2024.7	2185.6	2541.9	2974.0	3147.5	2762.7	2286.5	2046.8
9250.0	70°	7528.1	4588.7	1747.2	1986.9	2299.1	2652.3	2967.7	2652.3	2147.7	1949.0
3466.0	72.5°	2854.2	2106.7	1510.7	1788.2	2065.7	2381.1	2769.0	2478.9	1986.9	1838.7
1791.3	75°	1523.3	1283.6	1271.0	1554.8	1797.7	2116.2	2519.9	2308.6	1867.0	1942.7
1239.4	77.5°	1037.6	908.3	1062.8	1330.9	1504.4	1822.9	2255.0	2050.0	1617.9	1611.6
857.8	80°	719.1	643.4	864.1	1072.3	1163.7	1532.7	1968.0	1759.8	1318.3	1230.0
529.8	82.5°	432.1	419.5	646.5	801.1	823.1	1182.7	1630.5	1476.0	1078.6	939.8
315.4	85°	236.5	249.1	413.1	469.9	479.4	826.3	1277.3	1141.7	829.4	697.0
113.5	87.5°	66.2	85.2	151.4	186.1	230.2	428.9	760.1	678.1	416.3	290.1
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>
7774.1
8344.9
8707.6
8811.7
8754.9
8622.4
8439.5
8130.4
7793.0
7578.5
7401.9
7206.4
6988.8
6670.2
6257.1
5733.6
5137.5
4541.4
4077.8
3768.8
3475.5
3251.5
2955.1
2699.6
2459.9
2270.7
2122.5
2009.0
1923.8
1813.4
<i>2005.8</i>
1485.4
1176.4
946.1
703.3
290.1
0.0

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