

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: P953290

Luminaire Tested: **GALN-SB6D-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60595 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

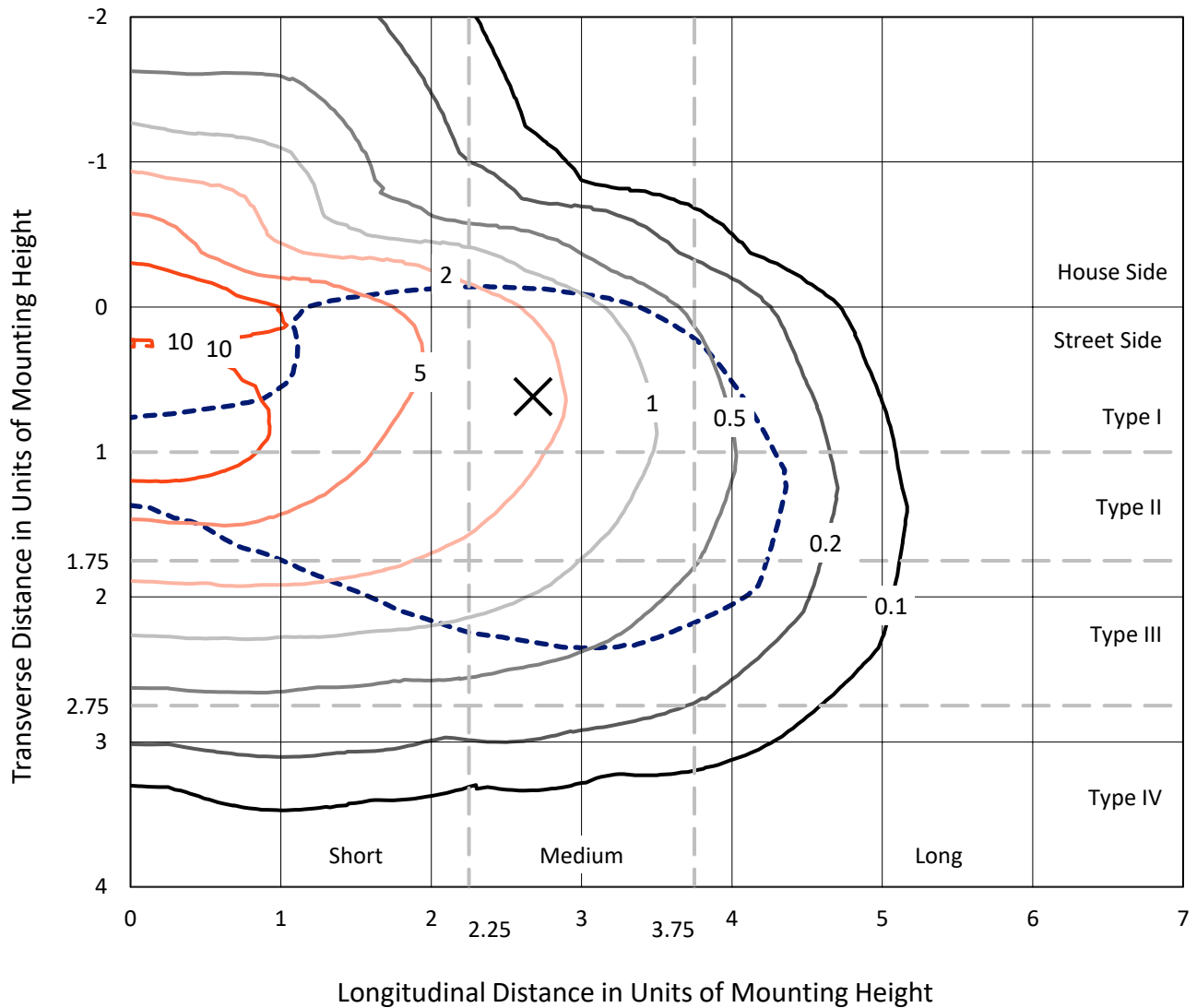
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

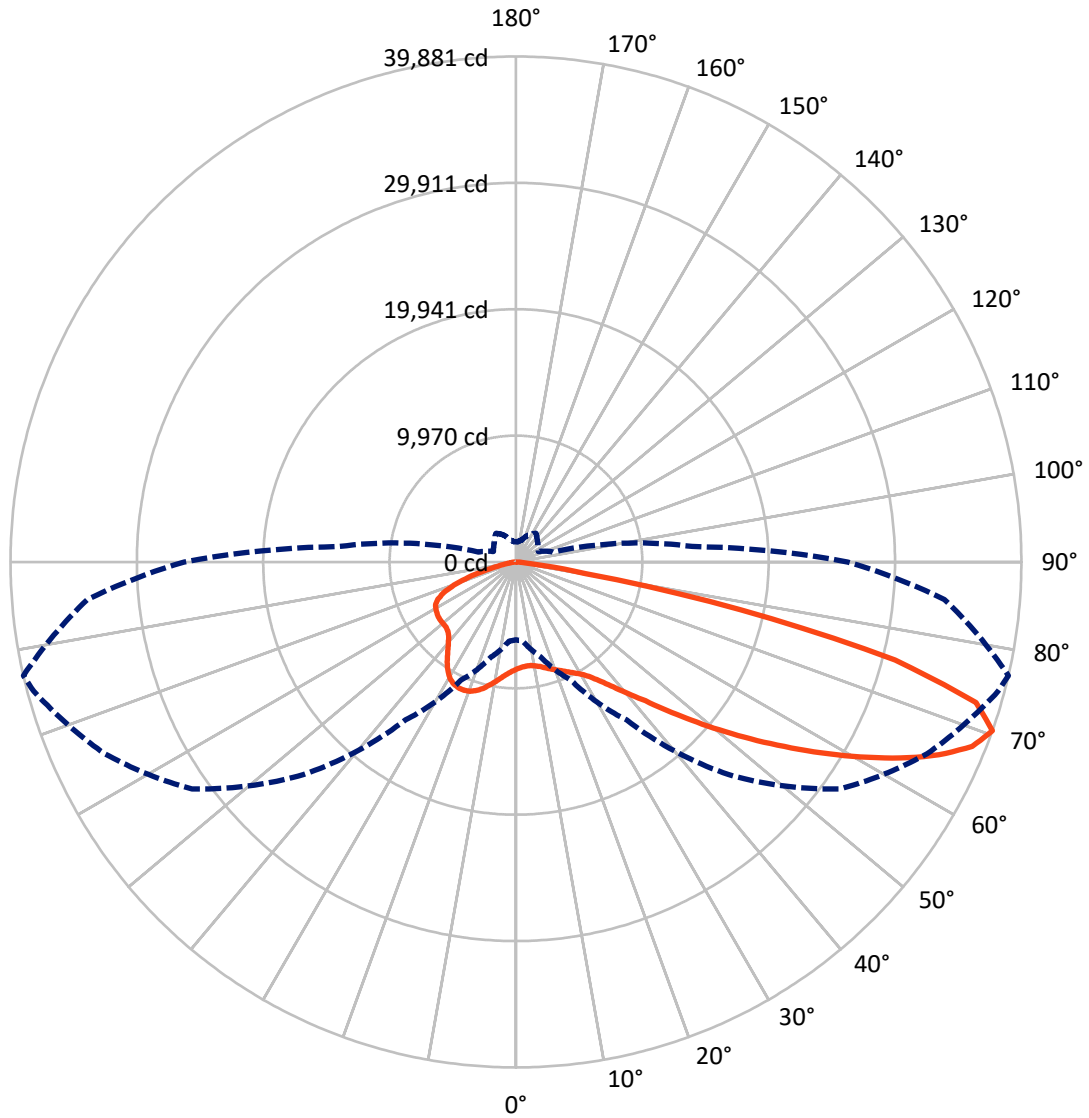
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13269.4	0.0	13269.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	47325.6	0.0	47325.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	60595.0	0.0	60595.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.2	1.3
10°-20°	2326.9	3.8
20°-30°	3979.3	6.6
30°-40°	6399.1	10.6
40°-50°	9990.7	16.5
50°-60°	13345.2	22.0
60°-70°	14224.0	23.5
70°-80°	8756.2	14.5
80°-90°	767.3	1.3
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°	60595.0	100.0
0°-180°	60595.0	100.0

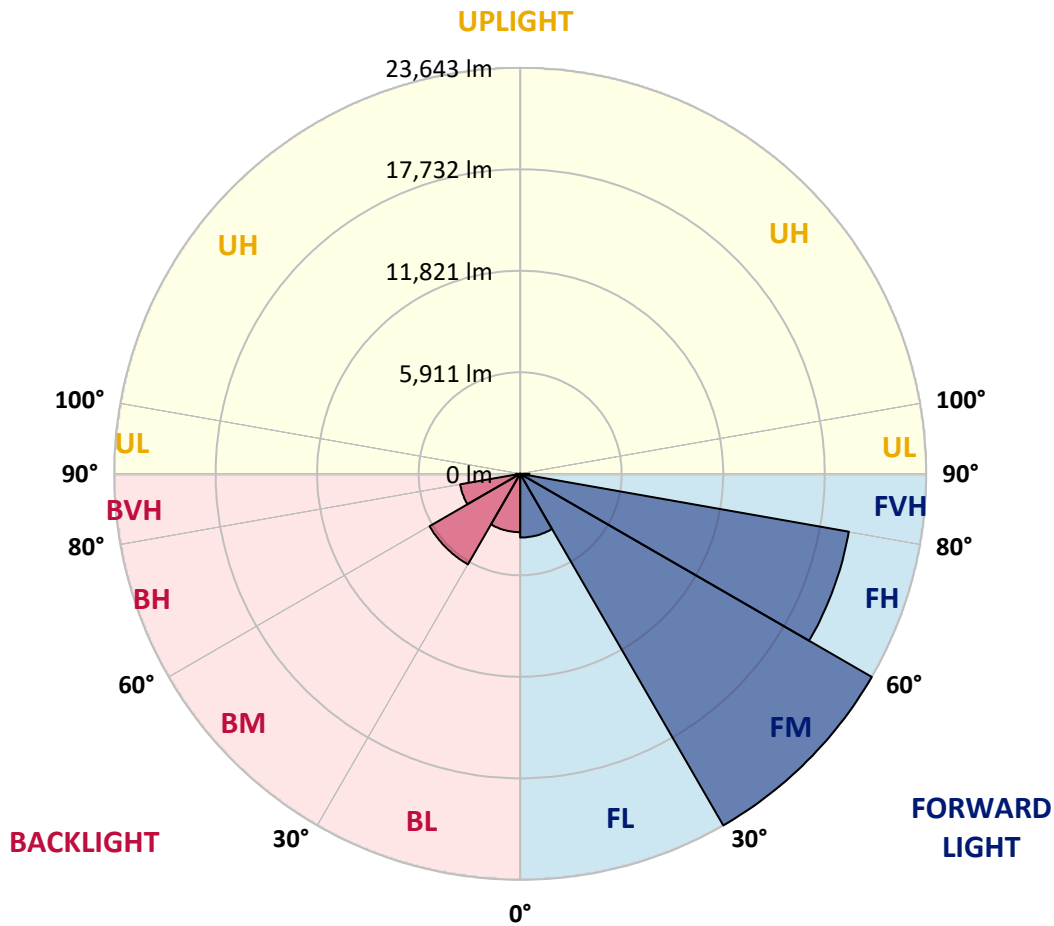


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3712.4	6.1			
FM (30°-60°)	23642.9	39.0			
FH (60°-80°)	19433.8	32.1			G5
FVH (80°-90°)	536.5	0.9			G4/750
BL (0°-30°)	3400.0	5.6	B4/5000		
BM (30°-60°)	6092.3	10.1	B4/8500		
BH (60°-80°)	3546.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	230.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6
2.5°	7792.5	7789.4	7829.8	7842.2	7916.7	7969.4	8068.7	8174.3	8310.8	8326.3
5°	7342.6	7342.6	7389.1	7438.8	7535.0	7640.5	7792.5	7975.6	8211.5	8248.7
7.5°	6960.8	6985.7	7026.0	7122.2	7233.9	7386.0	7618.8	7879.4	8189.8	8248.7
10°	6653.6	6681.5	6731.2	6808.8	6976.4	7187.4	7491.5	7826.7	8242.5	8335.6
12.5°	6557.4	6585.3	6613.3	6672.2	6827.4	7075.7	7438.8	7851.5	8369.8	8462.9
15°	6780.8	6815.0	6793.3	6777.7	6858.4	7085.0	7463.6	7941.5	8528.0	8661.5
17.5°	7296.0	7308.4	7258.8	7112.9	7100.5	7221.5	7581.5	8065.6	8726.7	8872.5
20°	8127.7	8106.0	8003.6	7715.0	7550.5	7525.7	7783.2	8251.8	8931.5	9086.6
22.5°	9257.3	9232.5	9027.7	8571.5	8205.3	7963.2	8074.9	8493.9	9161.1	9334.9
25°	10666.3	10632.1	10331.1	9710.4	9142.5	8543.6	8472.2	8813.5	9443.5	9604.9
27.5°	12311.0	12283.1	11957.2	11138.0	10318.7	9338.0	8965.6	9189.1	9738.3	9921.4
30°	14079.9	14160.6	13583.4	12702.1	11665.5	10374.5	9629.7	9651.5	10120.1	10284.5
32.5°	16159.2	16298.9	15603.7	14486.5	13071.4	11501.1	10467.6	10297.0	10675.6	10812.1
35°	18219.8	18378.1	17800.9	16565.7	14936.5	12829.3	11342.8	11038.7	11414.2	11563.1
37.5°	20001.2	20212.2	19914.3	18840.5	16931.9	14430.6	12484.8	11910.7	12323.4	12509.6
40°	21407.0	21729.7	21708.0	21037.7	19284.3	16373.3	13934.1	12987.6	13453.1	13654.8
42.5°	22549.0	22828.3	23070.4	23036.2	21739.0	18579.8	15637.8	14387.2	14741.0	14973.7
45°	23337.3	23635.2	24156.6	24718.3	24100.7	20941.5	17589.8	16047.5	16370.2	16720.9
47.5°	24041.7	24380.0	25056.5	25947.2	26105.5	23312.4	19728.1	17980.9	18275.7	18638.8
50°	24103.8	24395.5	25444.5	26707.5	27529.9	25590.3	22024.6	20150.1	20426.3	20814.2
52.5°	22604.9	23064.2	24895.2	26685.8	28184.7	27495.8	24305.5	22406.3	22716.6	23182.1
55°	17546.4	18219.8	23284.5	25854.1	27952.0	28727.8	26474.8	24805.2	25202.4	25689.6
57.5°	15113.4	15408.2	18483.6	24339.7	26890.6	29047.5	28305.8	27228.9	27868.2	28402.0
60°	13583.4	13828.6	15647.1	21984.2	25494.1	28541.6	29720.9	29488.1	30592.9	31229.1
62.5°	11944.8	12177.6	13831.7	18356.4	23706.6	27700.6	30614.7	31573.6	33386.0	34081.1
65°	10318.7	10517.3	12103.1	15423.7	21434.9	26859.6	31077.1	33376.6	35971.1	36691.0
67.5°	8506.3	8670.8	10169.7	13012.4	18672.9	25708.2	31306.7	34794.9	38221.0	38838.6
70°	6138.4	6265.7	7814.3	10290.7	15206.5	23728.3	31213.6	35800.4	39387.9	39881.3
72.5°	2901.6	3016.5	4835.0	6681.5	10740.7	19873.9	29329.9	35002.8	38202.4	37957.2
75°	1548.6	1647.9	2777.5	3665.1	5672.9	13623.8	24001.4	30152.3	32079.4	30887.8
77.5°	1048.9	1126.5	1719.3	2200.3	2591.3	6467.4	15426.8	20876.3	20085.0	18117.4
80°	831.7	912.4	1408.9	1489.6	1253.8	2336.8	6374.3	9663.9	6942.2	5551.9
82.5°	639.3	729.3	1185.5	1080.0	682.7	958.9	1855.8	3056.8	1778.2	1353.1
85°	391.0	487.2	931.0	688.9	384.8	437.6	630.0	850.3	543.1	453.1
87.5°	198.6	279.3	471.7	251.4	173.8	102.4	167.6	167.6	142.8	124.1
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°
8453.6	0°	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6	8453.6
8410.1	2.5°	8484.6	8546.7	8652.2	8751.5	8829.1	8903.5	8978.0	9018.4	9030.8	9080.4
8456.7	5°	8583.9	8698.7	8903.5	9096.0	9217.0	9291.5	9344.2	9375.3	9381.5	9397.0
8583.9	7.5°	8767.0	8950.1	9235.6	9428.0	9518.0	9511.8	9490.1	9412.5	9381.5	9353.5
8770.1	10°	9024.6	9266.6	9617.3	9750.8	9694.9	9545.9	9353.5	9127.0	9021.5	8919.1
9024.6	12.5°	9344.2	9651.5	9995.9	9989.7	9713.5	9331.8	8884.9	8537.3	8317.0	8158.7
9338.0	15°	9732.1	10085.9	10349.7	10138.7	9533.5	8847.7	8192.9	7739.8	7541.2	7367.4
9654.6	17.5°	10132.5	10511.1	10632.1	10092.1	9080.4	8130.8	7389.1	7032.2	6836.7	6743.6
9995.9	20°	10523.5	10899.0	10799.7	9825.2	8391.5	7317.7	6656.7	6461.2	6420.9	6442.6
10328.0	22.5°	10936.2	11271.4	10833.8	9310.1	7513.2	6486.0	6122.9	6129.1	6219.1	6284.3
10675.6	25°	11358.3	11584.8	10743.8	8565.3	6569.8	5874.7	5784.7	5884.0	6060.9	6188.1
11066.6	27.5°	11764.8	11864.1	10548.3	7643.6	5759.8	5437.1	5452.6	5657.4	5924.3	6101.2
11541.4	30°	12224.1	12112.4	10172.8	6607.1	5198.1	5061.6	5191.9	5430.9	5697.8	5856.0
12140.3	32.5°	12742.4	12326.5	9577.0	5648.1	4800.9	4760.6	4974.7	5129.9	5247.8	5294.3
12934.8	35°	13387.9	12627.6	8813.5	4974.7	4444.0	4540.2	4745.0	4667.5	4620.9	4596.1
14002.4	37.5°	14225.8	13034.1	7919.8	4537.1	4155.4	4381.9	4465.7	4223.7	4040.6	3950.6
15296.5	40°	15234.4	13630.0	7060.1	4198.8	3972.3	4245.4	4099.5	3807.8	3575.1	3447.8
16751.9	42.5°	16354.7	14253.7	6337.1	3944.4	3869.9	4133.7	3829.5	3482.0	3106.5	3066.1
18486.7	45°	17530.9	14896.1	5843.6	3748.9	3820.2	4037.5	3674.4	3112.7	2845.8	3010.3
20227.7	47.5°	18707.1	15485.8	5545.7	3603.0	3795.4	3928.9	3537.8	2907.8	2718.5	2957.5
22092.8	50°	20016.7	16013.3	5412.3	3497.5	3767.5	3885.4	3333.0	2855.1	2585.1	2743.4
24023.1	52.5°	21317.0	16423.0	5313.0	3392.0	3727.1	3851.3	3233.7	2793.0	2423.7	2433.0
25965.8	55°	22614.2	16689.9	5204.3	3252.3	3637.1	3776.8	3224.4	2724.8	2302.7	2259.2
28020.2	57.5°	23998.3	16841.9	5070.9	3097.2	3482.0	3587.5	3215.1	2672.0	2265.5	2194.1
30121.2	60°	25407.2	17065.4	4897.1	2907.8	3274.0	3360.9	3193.4	2653.4	2243.7	2122.7
32101.2	62.5°	26670.3	17143.0	4689.2	2727.9	3007.2	3137.5	3146.8	2637.9	2184.8	1976.8
33745.9	65°	27498.9	16807.8	4326.1	2523.0	2718.5	2907.8	3056.8	2585.1	2079.3	1871.3
34559.0	67.5°	27464.7	15852.0	3758.2	2259.2	2439.2	2653.4	2926.5	2495.1	1952.0	1741.0
33944.6	70°	26186.2	13965.1	3038.2	1952.0	2132.0	2380.3	2758.9	2361.7	1799.9	1598.2
30183.3	72.5°	22459.0	10930.0	2206.5	1592.0	1775.1	2097.9	2541.7	2200.3	1644.8	1471.0
22307.0	75°	16044.4	6917.4	1495.8	1222.7	1381.0	1778.2	2271.7	2011.0	1502.0	1477.2
11172.1	77.5°	8196.0	3305.1	990.0	893.8	962.0	1402.7	1908.6	1796.8	1523.8	1219.6
3177.8	80°	2665.8	1219.6	623.8	608.3	639.3	934.1	1477.2	1474.1	1154.5	828.6
769.6	82.5°	850.3	524.5	406.5	391.0	375.5	586.5	1030.3	1166.9	778.9	524.5
276.2	85°	338.3	313.4	239.0	220.3	158.3	276.2	540.0	775.8	580.3	378.6
71.4	87.5°	124.1	124.1	65.2	46.6	34.1	93.1	145.9	232.8	332.1	195.5
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>
8453.6
9108.4
9421.8
9359.7
8888.0
8121.5
7348.8
6771.5
6433.3
6299.8
6222.2
6144.7
5893.3
5319.2
4620.9
3972.3
3457.1
3106.5
3097.2
3069.2
2861.3
2498.2
2290.3
2203.4
2132.0
1976.8
1871.3
1750.3
<i>1616.9</i>
1461.7
1393.4
1086.2
732.4
521.4
387.9
192.4
0.0

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