

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: P944014

Luminaire Tested: **GALN-SB8D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944014
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-SB8D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 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: 60087 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

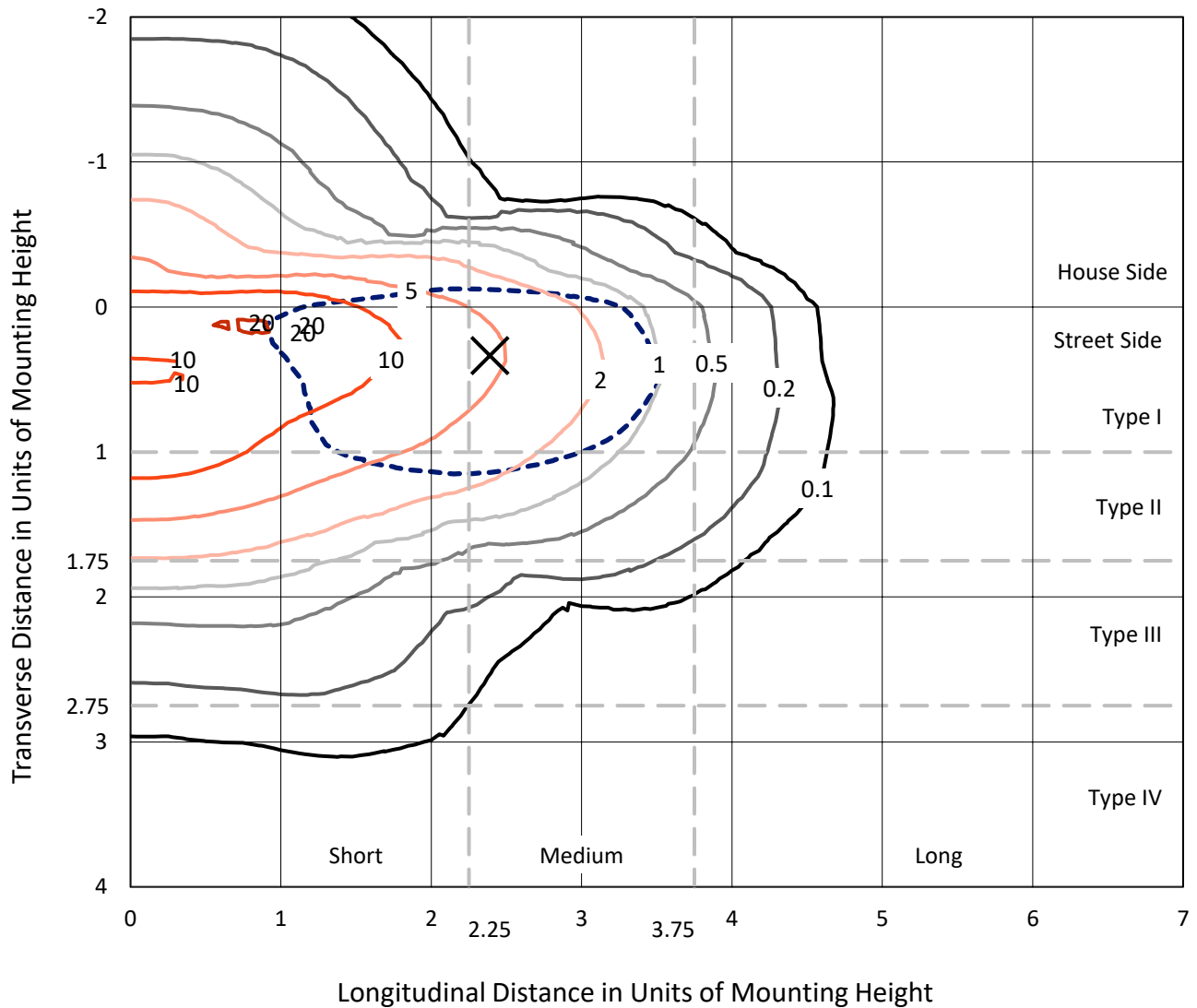
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

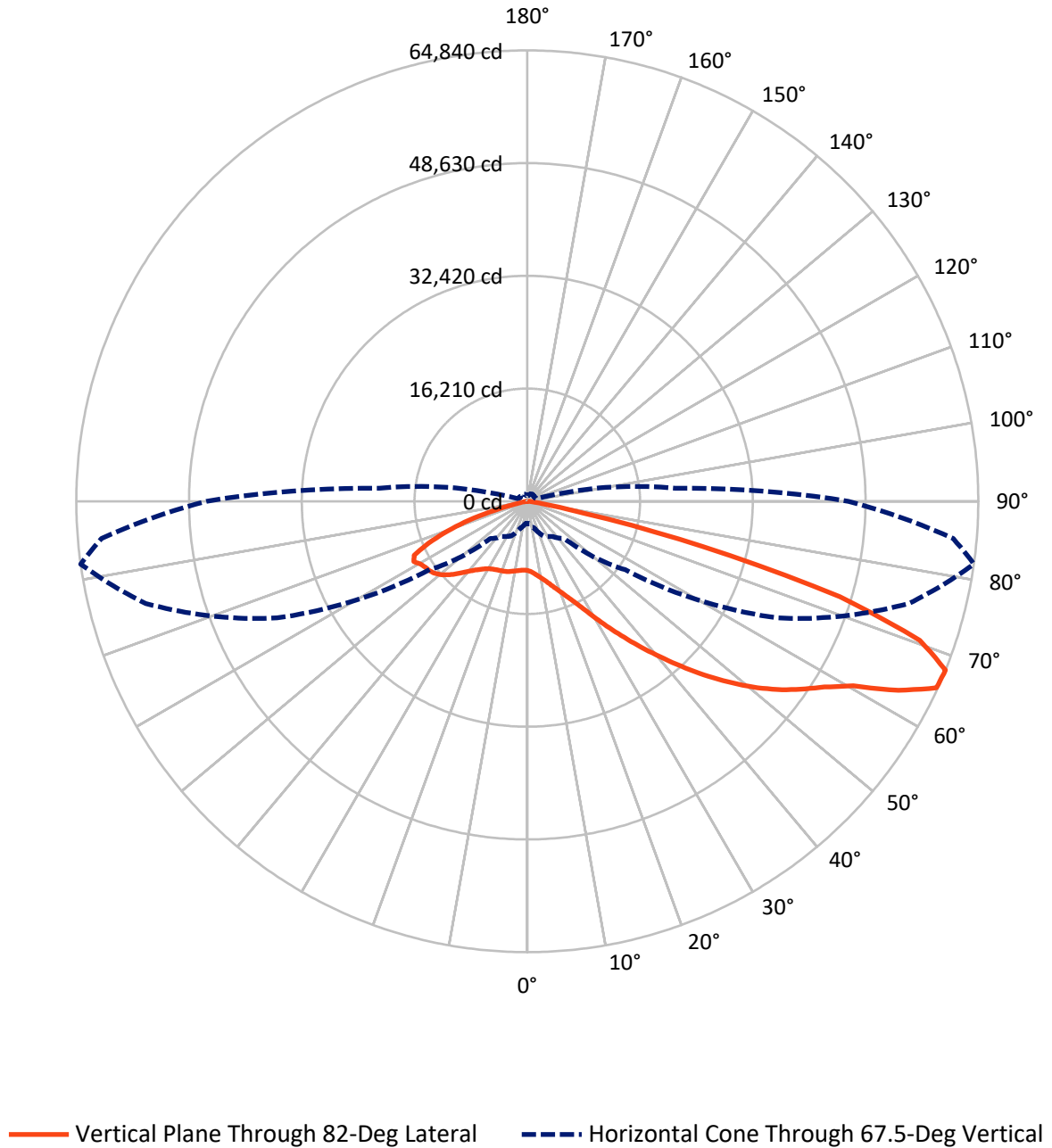
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10884.2	0.0	10884.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	49202.8	0.0	49202.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	60087.0	0.0	60087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.9	1.5
10°-20°	2304.6	3.8
20°-30°	3691.2	6.1
30°-40°	6527.2	10.9
40°-50°	11436.3	19.0
50°-60°	15252.8	25.4
60°-70°	14199.6	23.6
70°-80°	5449.8	9.1
80°-90°	338.5	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°	60087.0	100.0
0°-180°	60087.0	100.0

Coefficient of Utilization



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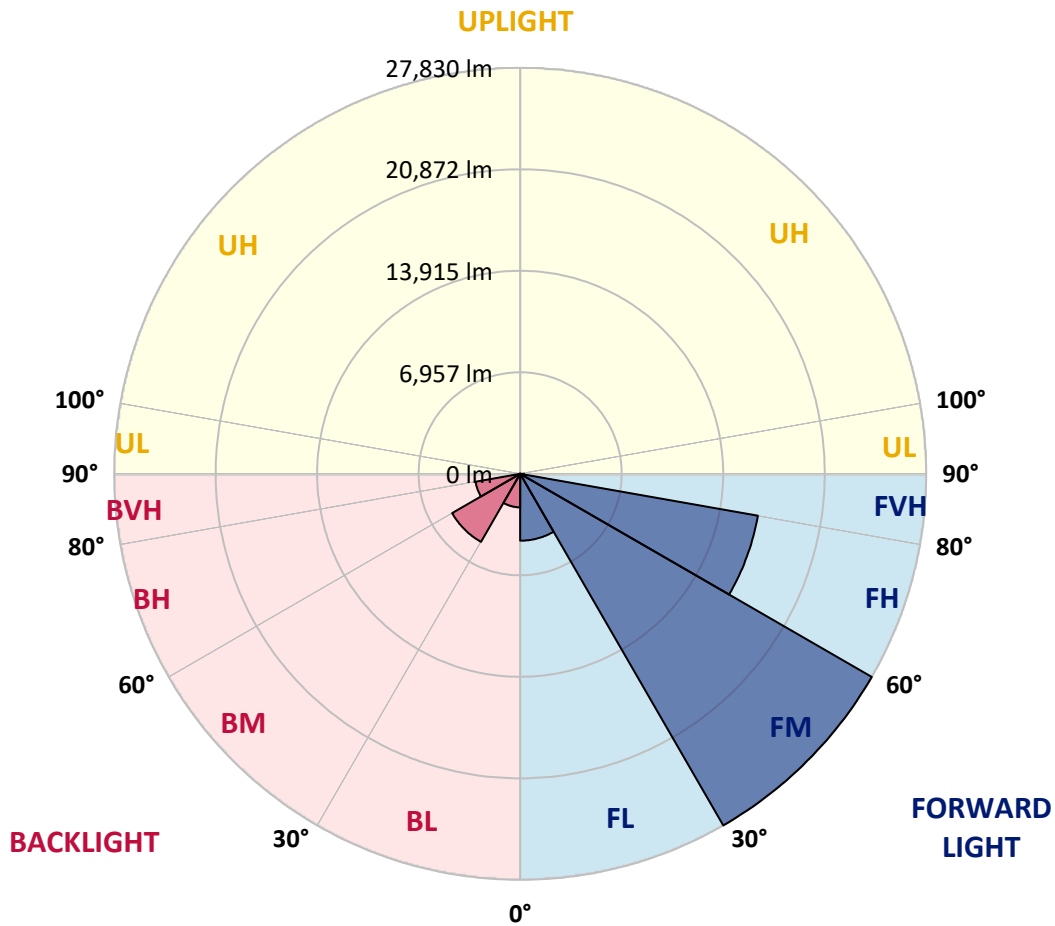
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4584.0	7.6			
FM (30°-60°)	27829.8	46.3			
FH (60°-80°)	16542.9	27.5			G5
FVH (80°-90°)	246.1	0.4			G3/500
BL (0°-30°)	2298.7	3.8	B3/2500		
BM (30°-60°)	5386.6	9.0	B4/8500		
BH (60°-80°)	3106.6	5.2	B4/5000		G4/5000
BVH (80°-90°)	92.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4
2.5°	10521.1	10581.7	10547.1	10529.8	10499.5	10456.2	10421.6	10313.4	10201.0	10127.4
5°	10733.1	10793.6	10789.3	10806.6	10828.3	10841.2	10832.6	10711.5	10551.4	10425.9
7.5°	10551.4	10620.6	10676.8	10763.4	10914.8	11074.8	11152.7	11126.8	10962.4	10789.3
10°	10036.6	10110.1	10244.2	10447.6	10767.7	11113.8	11403.6	11537.7	11433.9	11243.6
12.5°	9093.5	9167.0	9430.9	9872.2	10408.6	11010.0	11563.7	11922.8	11948.7	11758.4
15°	8033.6	8107.1	8388.3	8942.1	9759.7	10724.4	11650.2	12329.4	12558.7	12394.3
17.5°	7376.0	7440.9	7652.9	8098.5	8950.7	10153.4	11619.9	12762.0	13285.5	13155.7
20°	7177.0	7233.3	7332.8	7644.2	8353.7	9560.7	11420.9	13168.7	14068.5	13995.0
22.5°	7389.0	7440.9	7471.2	7609.6	8055.2	9171.4	11170.0	13584.0	14977.0	14985.7
25°	7877.8	7929.8	7895.2	7981.7	8176.4	9050.2	11074.8	14072.8	16119.1	16214.3
27.5°	8682.5	8686.8	8604.6	8600.3	8630.6	9231.9	11174.3	14596.3	17559.7	17737.1
30°	10296.1	10231.3	9915.4	9573.7	9417.9	9777.0	11451.2	15214.9	19259.8	19575.7
32.5°	12783.7	12688.5	12108.8	11291.2	10469.2	10655.2	11948.7	15920.1	21111.4	21682.5
35°	15483.2	15457.2	14851.5	13635.9	12199.6	11905.5	12757.7	16845.9	23131.7	24040.2
37.5°	17992.3	17979.3	17633.2	16201.3	14453.5	13648.9	14055.5	18057.2	25294.8	26609.9
40°	20285.1	20324.1	19978.0	18697.5	16936.7	15885.5	15820.6	19554.0	27700.1	29408.9
42.5°	22266.5	22309.8	21959.3	21011.9	19389.6	18360.0	17988.0	21388.3	30049.2	32415.6
45°	23611.9	23880.1	23828.2	23071.2	21907.4	20838.9	20592.3	23689.8	32727.0	35603.9
47.5°	23992.6	24239.2	24628.6	24732.4	24022.9	22971.7	23265.8	26462.8	35435.2	38796.6
50°	23053.8	23283.1	24092.1	25169.3	25662.5	25338.0	25865.8	29434.9	38208.2	41980.6
52.5°	21202.3	21435.9	22456.8	24161.3	26173.0	27193.9	28474.5	32363.6	40894.7	44995.9
55°	18524.4	18771.0	20081.8	22011.3	25199.6	27959.7	30650.5	35288.1	43356.3	47708.4
57.5°	14881.8	15063.5	16426.2	19125.7	22751.0	27198.3	32255.5	38480.8	45675.1	50373.2
60°	9699.1	9859.2	11442.6	14453.5	18693.1	24654.5	32575.6	42041.2	48755.3	53838.5
62.5°	6450.2	6558.4	7497.2	9707.8	13164.4	19770.3	30702.4	44883.4	53271.7	59869.1
65°	4425.6	4533.8	5472.5	7012.6	8505.1	13077.8	25316.4	44507.0	57364.2	64658.1
67.5°	3158.1	3248.9	4044.9	5498.5	6156.1	7596.7	17161.7	39696.4	56775.9	64839.8
70°	2262.6	2314.5	2972.0	4282.9	4892.8	4564.0	9543.4	30360.7	49711.3	59873.4
72.5°	1583.4	1600.7	2063.6	3261.9	3941.1	3331.1	4542.4	20241.9	37598.2	46994.5
75°	1072.9	1094.5	1388.7	2392.3	3162.4	2543.8	2405.3	10854.2	22071.8	26012.9
77.5°	657.6	666.2	895.5	1635.3	2366.4	1938.1	1548.7	4598.7	8539.7	8384.0
80°	372.0	372.0	571.0	1016.6	1613.6	1250.2	1085.9	1955.4	2703.8	2375.0
82.5°	207.7	212.0	415.3	631.6	1068.5	739.8	597.0	904.2	1168.1	1033.9
85°	86.5	95.2	255.2	298.5	510.5	367.7	242.3	380.7	432.6	385.0
87.5°	8.7	13.0	77.9	56.2	60.6	73.5	34.6	73.5	60.6	60.6
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°
9954.4	0°	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4	9954.4
10101.5	2.5°	10019.3	9954.4	9790.0	9599.6	9348.7	9227.6	9063.2	8950.7	8855.6	8864.2
10352.4	5°	10213.9	10049.6	9681.8	9223.3	8652.2	8245.6	7813.0	7514.5	7272.2	7220.3
10698.5	7.5°	10482.2	10222.6	9578.0	8751.7	7787.0	7055.9	6402.6	5983.0	5684.5	5589.3
11118.1	10°	10828.3	10451.9	9443.9	8159.0	6770.4	5840.3	5139.4	4810.6	4607.3	4538.1
11611.3	12.5°	11230.6	10715.8	9266.5	7436.6	5723.4	4827.9	4382.4	4218.0	4153.1	4131.4
12216.9	15°	11736.7	11044.6	8998.3	6580.0	4836.6	4209.3	4019.0	3997.3	4006.0	3997.3
12943.7	17.5°	12338.1	11403.6	8561.4	5697.5	4239.6	3893.5	3824.3	3841.6	3863.2	3858.9
13757.0	20°	12995.6	11758.4	8003.3	4914.5	3832.9	3668.5	3629.6	3646.9	3664.2	3655.6
14695.8	22.5°	13744.1	12139.1	7384.7	4304.5	3560.4	3460.9	3417.6	3422.0	3422.0	3404.6
15885.5	25°	14639.6	12558.7	6735.8	3871.9	3352.7	3274.9	3223.0	3205.6	3179.7	3127.8
17330.4	27.5°	15708.1	13004.3	6112.8	3569.0	3188.3	3114.8	3054.2	3011.0	2946.1	2859.6
19065.2	30°	16910.8	13545.1	5585.0	3378.7	3058.6	2985.0	2915.8	2850.9	2755.7	2647.6
21059.5	32.5°	18325.4	14124.8	5200.0	3253.2	2941.8	2863.9	2781.7	2703.8	2600.0	2491.8
23300.4	35°	20012.6	14825.6	4975.0	3166.7	2850.9	2747.1	2656.2	2569.7	2491.8	2396.7
25736.0	37.5°	21842.5	15569.7	4905.8	3123.5	2790.3	2630.3	2526.4	2465.9	2457.2	2401.0
28370.6	40°	23845.5	16452.2	4957.7	3097.5	2725.5	2517.8	2405.3	2392.3	2414.0	2314.5
31186.9	42.5°	25965.3	17499.1	5044.2	3067.2	2634.6	2405.3	2297.2	2297.2	2279.9	2141.4
34163.3	45°	28258.2	18706.1	5130.8	2993.7	2526.4	2292.8	2210.6	2180.4	2106.8	1972.7
37157.0	47.5°	30568.3	19934.7	5195.7	2859.6	2396.7	2197.7	2124.1	2054.9	1946.8	1825.6
40094.4	50°	32761.6	21037.9	5126.4	2660.6	2249.6	2106.8	2028.9	1933.8	1817.0	1734.8
42876.1	52.5°	34721.4	21994.0	4832.3	2426.9	2093.8	2011.6	1942.4	1842.9	1747.7	1661.2
45385.2	55°	36425.9	22768.3	4313.1	2206.3	1955.4	1929.4	1860.2	1734.8	1605.0	1531.4
47872.7	57.5°	38061.1	23356.7	3664.2	2024.6	1829.9	1838.6	1734.8	1622.3	1501.2	1423.3
51225.5	60°	40237.2	24144.0	3006.6	1855.9	1695.8	1721.8	1609.3	1527.1	1375.7	1276.2
56974.9	62.5°	43715.4	25368.3	2388.0	1648.2	1540.1	1548.7	1501.2	1401.7	1220.0	1103.2
61236.1	65°	46475.4	24918.4	1881.9	1423.3	1362.7	1375.7	1375.7	1267.6	1072.9	938.8
61465.4	67.5°	46163.9	21336.4	1501.2	1202.7	1194.0	1202.7	1232.9	1142.1	951.7	843.6
56784.5	70°	42525.7	16971.3	1202.7	999.3	1038.3	1016.6	1103.2	1042.6	856.6	748.4
44022.5	72.5°	34699.7	12225.6	917.1	826.3	796.0	830.6	995.0	938.8	713.8	592.7
23317.7	75°	20276.5	6523.8	683.5	653.2	575.4	692.2	882.5	800.3	545.1	436.9
7146.7	77.5°	6601.6	2275.5	501.8	480.2	428.3	558.1	752.7	674.9	445.6	346.1
2093.8	80°	1769.4	687.9	341.8	315.8	276.9	415.3	597.0	536.4	320.1	225.0
899.8	82.5°	709.5	289.8	199.0	177.4	151.4	285.5	471.5	432.6	237.9	142.8
281.2	85°	229.3	95.2	73.5	56.2	69.2	177.4	281.2	294.2	168.7	73.5
43.3	87.5°	30.3	13.0	13.0	17.3	13.0	30.3	86.5	82.2	47.6	8.7
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>
9954.4
8777.7
7103.5
5494.2
4486.2
4118.5
3993.0
3850.2
3651.2
3396.0
3119.1
2850.9
2638.9
2496.2
2388.0
2396.7
2318.8
2141.4
1968.4
1821.3
1721.8
1652.6
1522.8
1414.6
1263.2
1094.5
925.8
826.3
735.4
579.7
424.0
333.1
220.6
142.8
56.2
0.0
0.0

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