

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: P955302

Luminaire Tested: **GALN-SB8B-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49067 lumens
Efficiency: N/A
Efficacy: 167.6 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

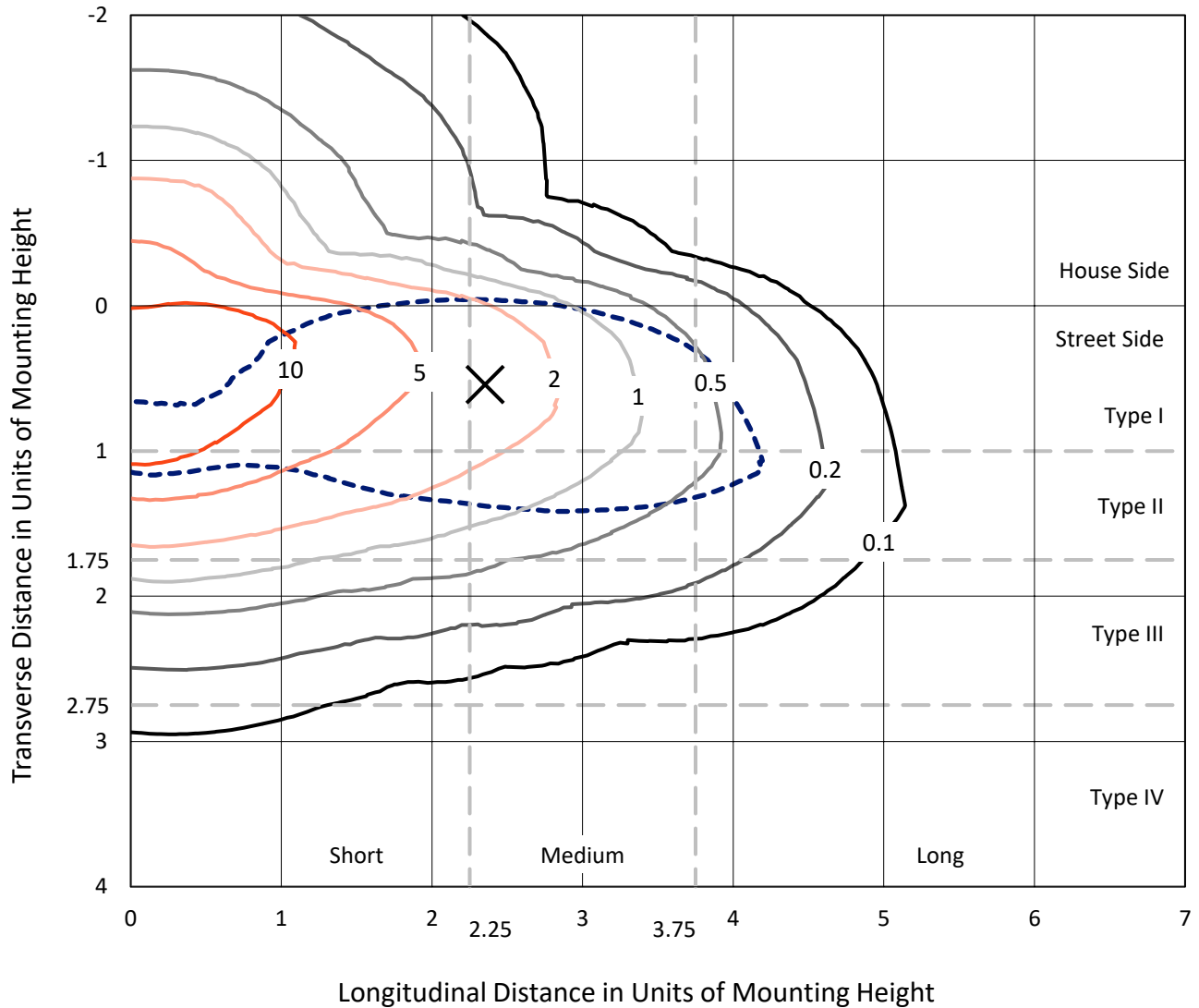
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

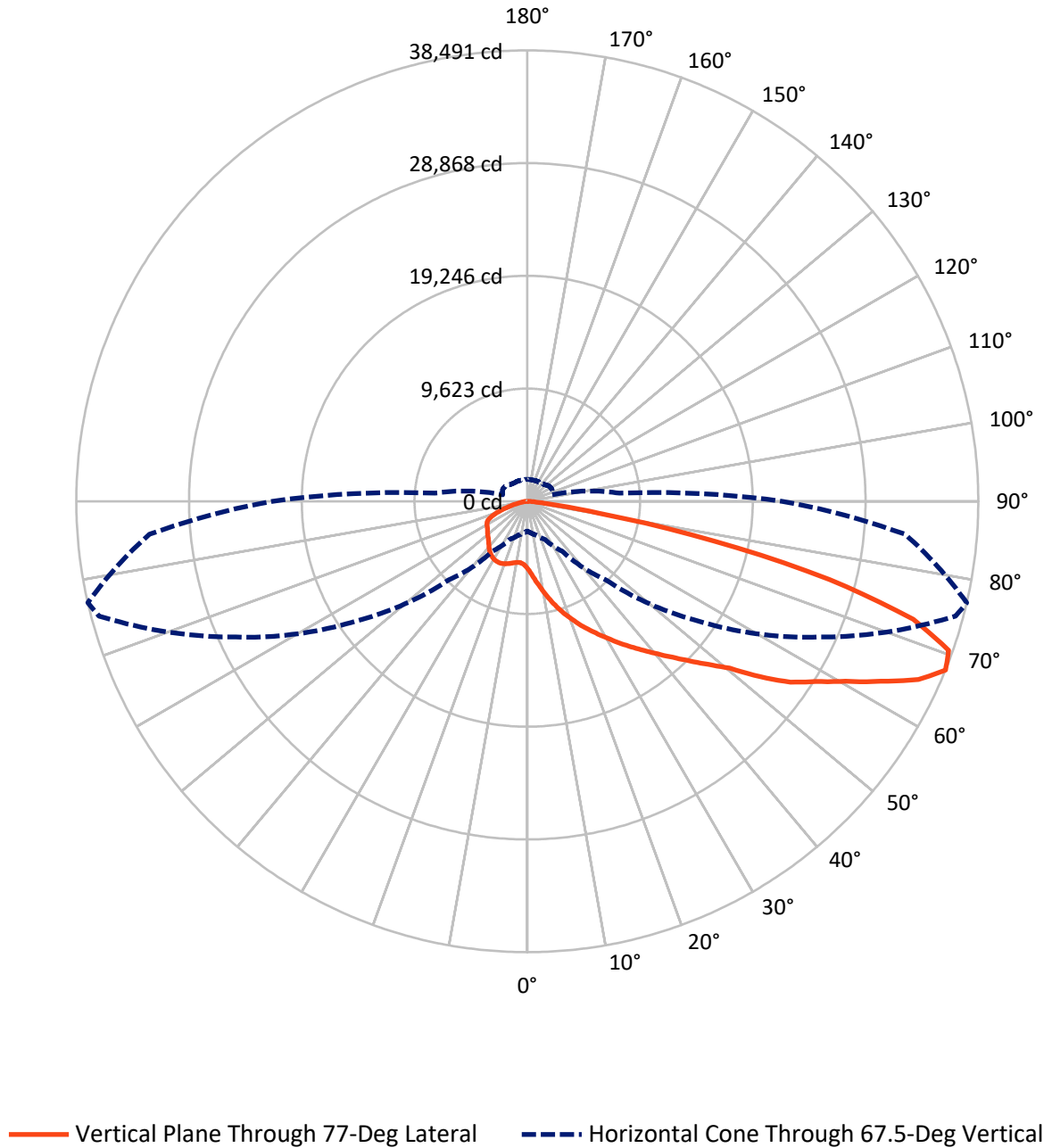
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	9281.5	0.0	9281.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	39785.5	0.0	39785.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	49067.0	0.0	49067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.1	1.3
10°-20°	2216.9	4.5
20°-30°	4185.8	8.5
30°-40°	6743.2	13.7
40°-50°	9223.5	18.8
50°-60°	10404.2	21.2
60°-70°	9711.0	19.8
70°-80°	5323.3	10.8
80°-90°	642.1	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°	49067.0	100.0
0°-180°	49067.0	100.0

Coefficient of Utilization

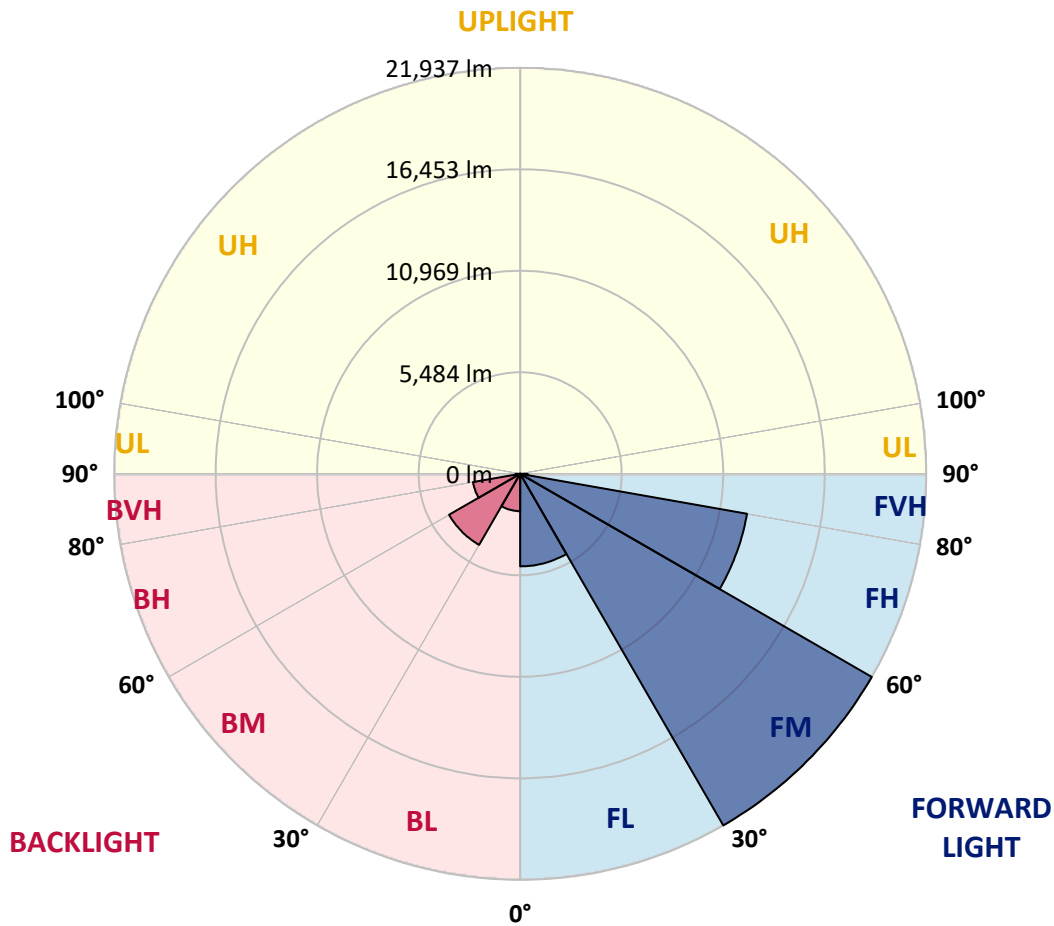


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5001.8	10.2			
FM (30°-60°)	21937.3	44.7			
FH (60°-80°)	12444.8	25.4			G5
FVH (80°-90°)	401.6	0.8			G3/500
BL (0°-30°)	2018.0	4.1	B3/2500		
BM (30°-60°)	4433.5	9.0	B3/5000		
BH (60°-80°)	2589.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	240.6	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1
2.5°	7208.4	7259.0	7195.7	7195.7	6983.0	6871.5	6658.8	6496.7	6205.4	6154.7
5°	8520.4	8583.7	8495.1	8457.1	8206.3	7975.8	7618.7	7266.6	6747.4	6694.2
7.5°	9536.0	9617.1	9538.6	9498.0	9275.2	9016.8	8598.9	8107.5	7375.6	7271.7
10°	10364.3	10376.9	10351.6	10366.8	10192.0	9979.3	9551.2	8978.8	8064.5	7922.6
12.5°	10832.8	10891.1	10941.8	11032.9	11002.5	10870.8	10485.8	9802.0	8793.9	8611.6
15°	11053.2	11154.5	11268.5	11478.7	11648.4	11681.3	11387.5	10685.9	9536.0	9315.7
17.5°	11131.7	11228.0	11407.8	11711.7	12076.5	12322.1	12190.4	11544.6	10270.6	10017.3
20°	11529.4	11557.2	11666.1	11954.9	12350.0	12757.8	12856.6	12370.3	10997.5	10711.3
22.5°	12380.4	12324.7	12355.1	12486.8	12770.4	13165.6	13391.0	13099.7	11744.7	11415.4
25°	13786.1	13624.0	13461.9	13309.9	13454.3	13677.2	13933.0	13829.2	12527.3	12109.4
27.5°	15561.6	15364.0	15006.9	14508.0	14333.2	14411.7	14525.7	14505.4	13251.7	12828.7
30°	17309.2	17078.8	16653.2	15931.4	15470.4	15262.7	15176.6	15118.4	14039.4	13588.5
32.5°	18704.8	18522.5	18104.5	17296.6	16627.9	16273.3	15987.1	15779.4	14862.5	14411.7
35°	19925.6	19755.9	19277.2	18395.8	17668.9	17291.5	16916.7	16473.4	15718.6	15262.7
37.5°	21040.1	20870.4	20214.4	19297.5	18565.5	18304.6	17970.3	17218.1	16577.3	16146.7
40°	21744.2	21706.2	21093.3	20054.8	19295.0	19165.8	19054.4	18081.8	17529.6	17129.4
42.5°	21924.0	22007.6	21521.3	20667.8	19943.4	19839.5	20100.4	19059.4	18598.4	18216.0
45°	21490.9	21731.5	21412.4	20832.4	20404.3	20348.6	21027.4	20128.3	19781.3	19431.7
47.5°	20394.2	20802.0	20670.3	20589.2	20528.4	20769.1	21843.0	21263.0	21121.1	20817.2
50°	18180.5	18953.0	19183.5	19695.2	20282.8	21095.8	22585.1	22501.5	22686.4	22379.9
52.5°	14353.5	15417.2	16754.6	18036.2	19528.0	20986.9	23400.7	24279.5	25059.6	24892.5
55°	11848.5	12327.2	13355.5	15706.0	18064.0	20528.4	23767.9	25715.6	27415.2	27265.7
57.5°	9923.6	10351.6	10984.8	12947.7	15850.3	19487.5	23995.9	26592.0	29028.6	29013.4
60°	7859.3	8312.7	8961.1	10351.6	13264.3	17689.2	23945.2	27589.9	31087.7	31214.4
62.5°	5529.1	6028.1	6747.4	8044.2	10622.6	15359.0	22911.8	28311.8	33511.6	33856.1
65°	3634.6	3963.9	4505.9	5625.4	7915.0	12362.7	20938.8	28405.5	36105.2	36687.8
67.5°	2548.0	2674.7	2993.8	3601.7	5217.6	9480.3	17795.5	27435.4	37835.2	38491.2
70°	1988.3	2051.6	2213.7	2456.8	3277.5	6375.1	13636.7	24912.7	37465.4	38149.2
72.5°	1717.2	1778.0	1838.8	1869.2	2198.5	3936.0	9237.2	20829.9	33982.7	34446.3
75°	1557.7	1572.9	1623.5	1613.4	1676.7	2553.1	5331.6	15176.6	26812.4	26652.8
77.5°	1309.5	1329.7	1413.3	1400.6	1489.3	1745.1	2768.4	9794.4	17382.7	16298.7
80°	1109.4	1119.5	1210.7	1195.5	1294.3	1263.9	1413.3	4992.2	7373.0	6245.9
82.5°	385.0	476.2	924.5	952.3	987.8	764.9	815.6	2036.4	2251.7	1724.8
85°	187.4	200.1	471.1	668.7	666.1	385.0	397.7	726.9	709.2	557.2
87.5°	30.4	38.0	55.7	260.9	207.7	101.3	136.8	141.8	146.9	126.6
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°
5757.1	0°	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1	5757.1
5962.2	2.5°	5820.4	5693.8	5427.8	5182.1	4989.6	4804.7	4700.9	4612.3	4561.6	4551.5
6240.9	5°	5977.4	5716.6	5232.8	4825.0	4559.1	4361.5	4257.7	4191.8	4158.9	4138.6
6615.7	7.5°	6202.9	5820.4	5131.5	4668.0	4389.4	4247.5	4194.3	4184.2	4181.7	4184.2
7069.1	10°	6514.4	5990.1	5121.3	4630.0	4397.0	4318.4	4315.9	4318.4	4328.6	4331.1
7563.0	12.5°	6851.3	6164.9	5161.9	4662.9	4493.2	4450.2	4442.6	4440.0	4447.6	4452.7
8061.9	15°	7218.5	6395.4	5230.3	4733.8	4599.6	4554.0	4546.4	4531.2	4528.7	4526.1
8586.2	17.5°	7595.9	6623.3	5306.2	4809.8	4668.0	4604.7	4576.8	4541.3	4513.5	4505.9
9128.3	20°	7978.4	6848.7	5359.4	4847.8	4673.0	4584.4	4528.7	4467.9	4419.8	4391.9
9675.3	22.5°	8386.1	7084.3	5392.4	4837.7	4627.4	4505.9	4404.6	4333.6	4260.2	4212.1
10227.5	25°	8783.8	7289.4	5389.8	4784.5	4538.8	4384.3	4255.1	4163.9	4062.6	4012.0
10797.4	27.5°	9166.2	7474.3	5326.5	4690.8	4412.2	4239.9	4085.4	3976.5	3877.7	3829.6
11372.3	30°	9561.4	7628.8	5227.7	4554.0	4262.7	4072.8	3903.1	3809.4	3720.7	3675.1
11980.2	32.5°	9954.0	7770.7	5088.4	4384.3	4090.5	3908.1	3741.0	3654.8	3601.7	3601.7
12633.7	35°	10369.3	7869.4	4903.5	4186.7	3908.1	3733.4	3601.7	3551.0	3545.9	3515.5
13325.1	37.5°	10807.5	7932.8	4678.1	3984.1	3728.3	3563.7	3523.1	3462.4	3411.7	3345.8
14085.0	40°	11268.5	7996.1	4407.1	3773.9	3538.3	3447.2	3429.4	3348.4	3204.0	3041.9
14946.1	42.5°	11828.2	8039.1	4126.0	3563.7	3338.2	3307.9	3333.2	3193.9	2963.4	2841.8
15984.6	45°	12476.6	8110.1	3867.6	3356.0	3133.1	3133.1	3239.5	3057.1	2867.1	2791.2
17169.9	47.5°	13317.5	8274.7	3627.0	3128.0	2943.1	2993.8	3031.8	2892.5	2786.1	2692.4
18613.6	50°	14533.3	8669.8	3378.8	2897.5	2798.8	2900.1	2846.9	2765.8	2641.7	2565.7
20908.4	52.5°	16042.8	8902.8	3158.4	2689.8	2674.7	2776.0	2700.0	2624.0	2530.3	2429.0
22648.4	55°	17071.2	8945.9	2973.5	2537.9	2591.1	2580.9	2553.1	2484.7	2434.0	2299.8
24365.7	57.5°	18221.1	9032.0	2821.6	2446.7	2537.9	2426.4	2416.3	2358.0	2292.2	2201.0
26460.3	60°	19596.4	9166.2	2689.8	2411.2	2492.3	2325.1	2274.5	2251.7	2185.8	2140.2
28980.4	62.5°	21095.8	9287.8	2555.6	2416.3	2439.1	2226.3	2150.4	2142.8	2102.2	2087.0
31346.1	65°	22119.1	8956.0	2388.4	2411.2	2355.5	2125.0	2028.8	2026.3	1993.3	1988.3
32371.9	67.5°	21761.9	7904.9	2163.0	2340.3	2269.4	2023.7	1917.3	1907.2	1864.2	1866.7
31300.5	70°	19973.8	6405.5	1851.5	2165.6	2163.0	1932.5	1800.8	1767.9	1709.6	1719.8
27215.1	72.5°	16620.3	4746.5	1433.6	1874.3	1993.3	1849.0	1666.6	1613.4	1540.0	1550.1
20090.3	75°	12003.0	3226.8	1043.5	1426.0	1735.0	1750.2	1534.9	1443.7	1355.1	1370.3
11182.4	77.5°	6142.1	1828.7	767.4	982.7	1362.7	1590.6	1415.8	1294.3	1274.0	1415.8
3224.3	80°	2003.5	916.9	531.9	688.9	894.1	1301.9	1241.1	1101.8	1096.7	1129.6
676.3	82.5°	597.7	387.5	341.9	453.4	493.9	997.9	1071.4	833.3	716.8	754.8
225.4	85°	205.2	187.4	195.0	225.4	235.6	585.1	749.7	552.2	521.8	574.9
50.7	87.5°	48.1	65.9	55.7	50.7	50.7	141.8	291.3	230.5	319.1	212.8
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>
5757.1
4551.5
4136.1
4191.8
4333.6
4455.2
4523.6
4513.5
4402.0
4214.6
4012.0
3827.1
3672.6
3604.2
3507.9
3335.7
3019.1
2844.3
2803.8
2689.8
2558.1
2408.7
2302.3
2170.6
2152.9
2087.0
1985.7
1866.7
1729.9
1547.5
1375.3
1395.6
970.1
780.1
567.4
205.2
0.0

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