

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: P953937

Luminaire Tested: **GALN-SB7B-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953937
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-SB7B-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36651 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

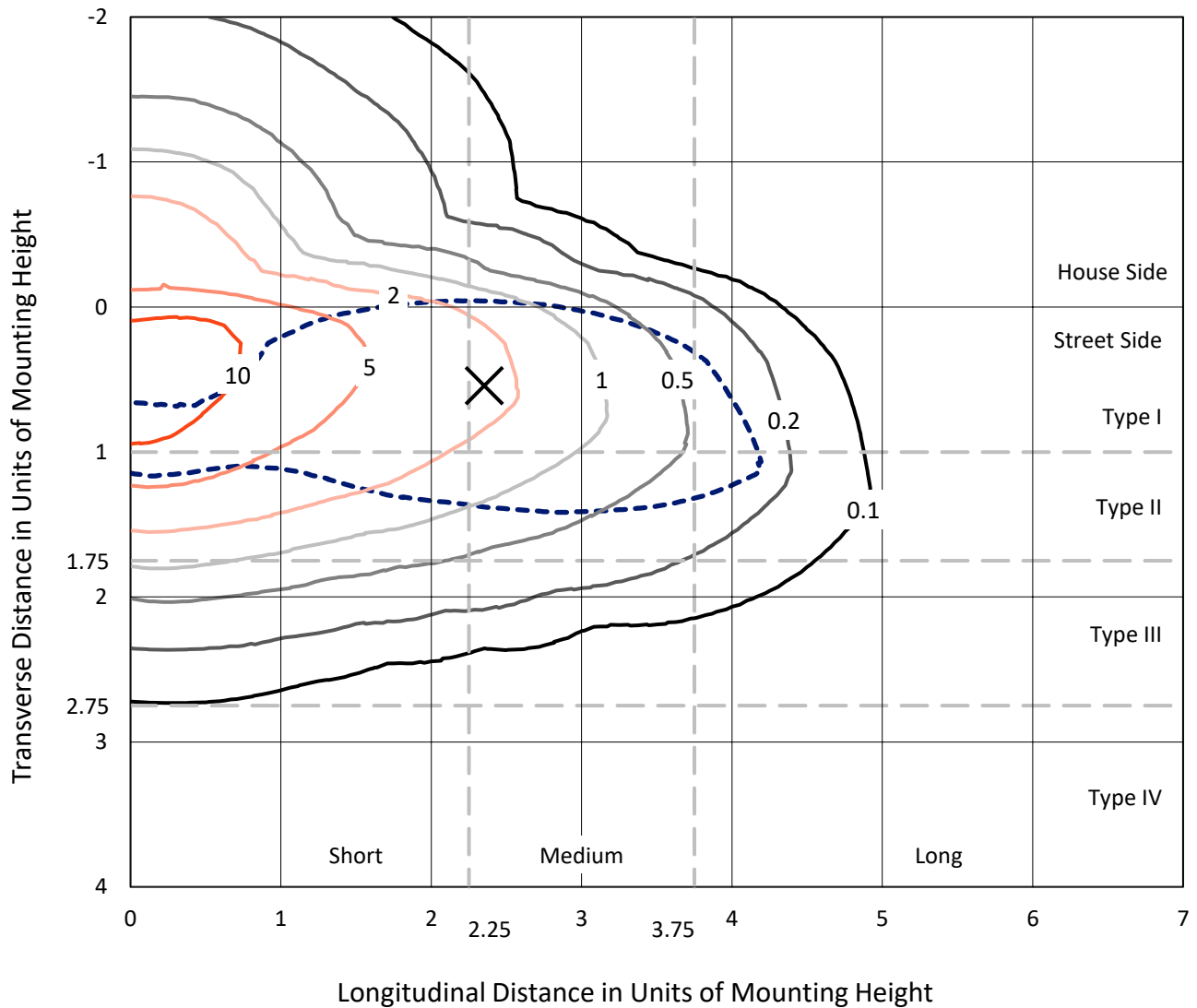
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

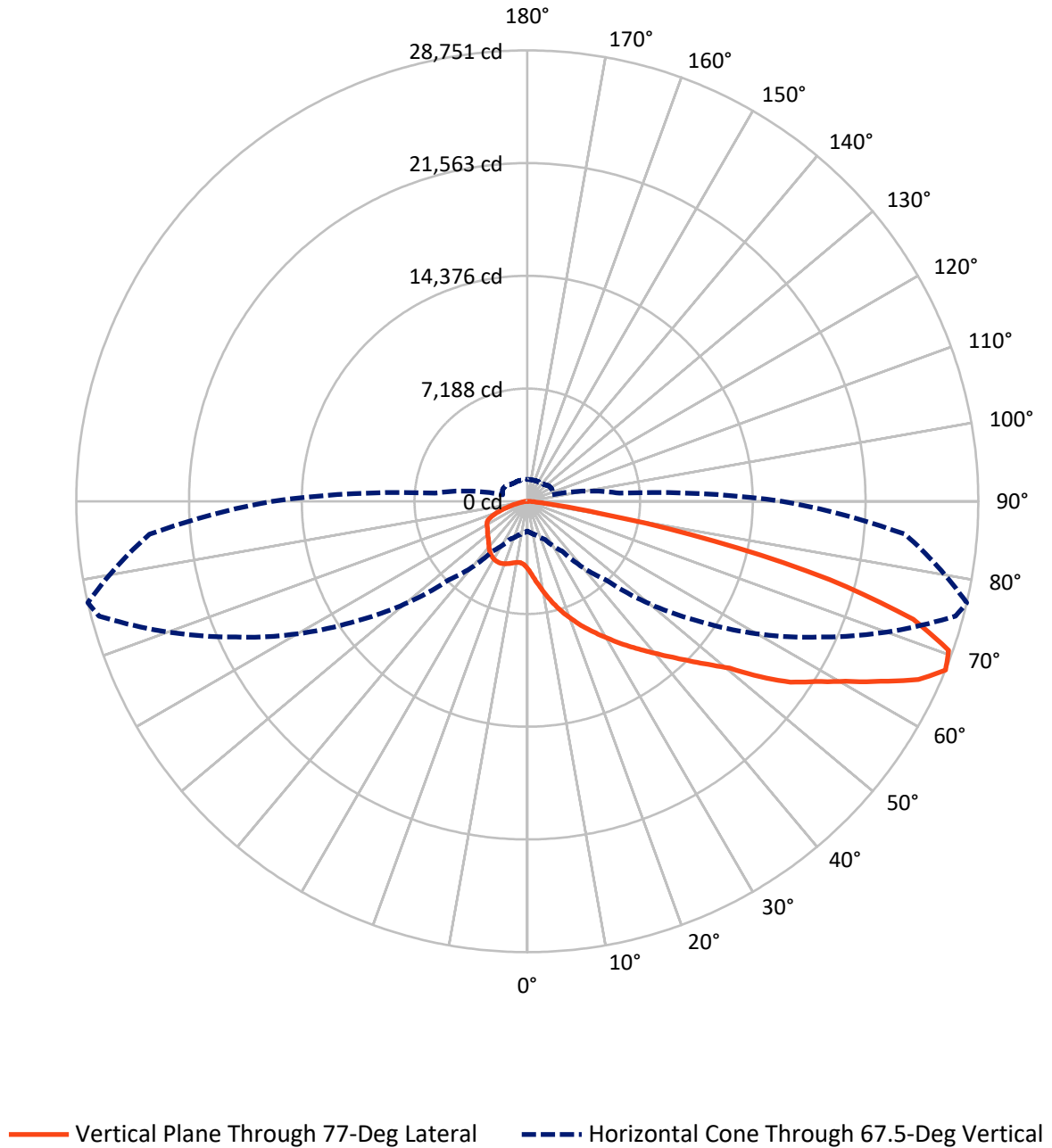
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	6932.9	0.0	6932.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29718.1	0.0	29718.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	36651.0	0.0	36651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.9	1.3
10°-20°	1656.0	4.5
20°-30°	3126.6	8.5
30°-40°	5036.9	13.7
40°-50°	6889.6	18.8
50°-60°	7771.5	21.2
60°-70°	7253.7	19.8
70°-80°	3976.2	10.8
80°-90°	479.6	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°	36651.0	100.0
0°-180°	36651.0	100.0

Coefficient of Utilization



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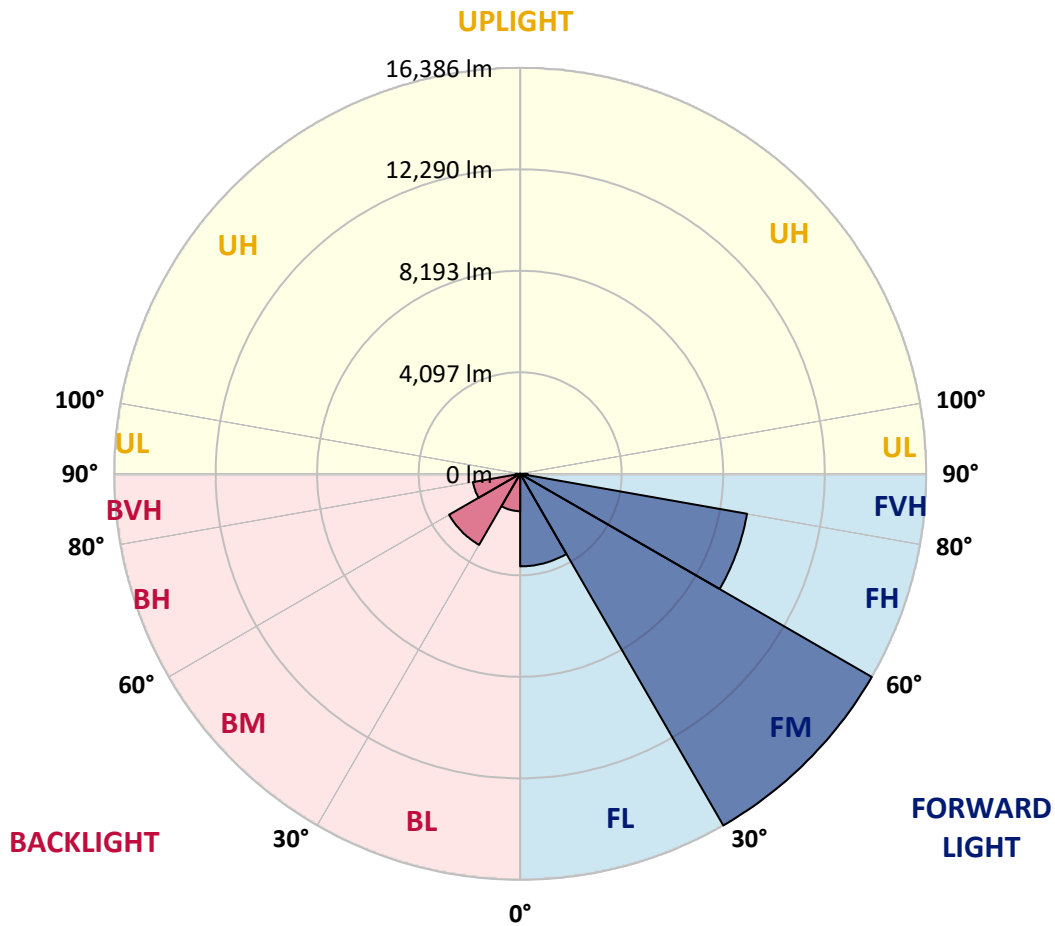
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3736.1	10.2			
FM (30°-60°)	16386.3	44.7			
FH (60°-80°)	9295.8	25.4			G4/12000
FVH (80°-90°)	299.9	0.8			G3/500
BL (0°-30°)	1507.4	4.1	B3/2500		
BM (30°-60°)	3311.7	9.0	B3/5000		
BH (60°-80°)	1934.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	179.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3
2.5°	5384.4	5422.2	5374.9	5374.9	5216.0	5132.7	4973.8	4852.7	4635.2	4597.3
5°	6364.4	6411.7	6345.5	6317.1	6129.8	5957.6	5690.9	5427.9	5040.0	5000.3
7.5°	7123.0	7183.6	7124.9	7094.6	6928.2	6735.2	6423.0	6056.0	5509.2	5431.7
10°	7741.7	7751.1	7732.2	7743.6	7613.0	7454.1	7134.4	6706.8	6023.8	5917.9
12.5°	8091.7	8135.2	8173.0	8241.1	8218.4	8120.1	7832.5	7321.7	6568.7	6432.5
15°	8256.3	8332.0	8417.1	8574.1	8700.9	8725.5	8506.0	7981.9	7123.0	6958.4
17.5°	8314.9	8386.8	8521.1	8748.2	9020.6	9204.1	9105.7	8623.3	7671.7	7482.5
20°	8612.0	8632.8	8714.1	8929.8	9224.9	9529.5	9603.3	9240.1	8214.7	8000.9
22.5°	9247.6	9206.0	9228.7	9327.1	9539.0	9834.1	10002.5	9784.9	8772.8	8526.8
25°	10297.6	10176.6	10055.5	9942.0	10049.8	10216.3	10407.4	10329.8	9357.4	9045.2
27.5°	11623.9	11476.3	11209.5	10836.8	10706.3	10764.9	10850.1	10834.9	9898.4	9582.5
30°	12929.3	12757.1	12439.3	11900.1	11555.8	11400.6	11336.3	11292.8	10486.8	10150.1
32.5°	13971.7	13835.5	13523.3	12919.8	12420.4	12155.5	11941.7	11786.6	11101.7	10764.9
35°	14883.6	14756.9	14399.3	13740.9	13197.9	12916.0	12636.0	12305.0	11741.2	11400.6
37.5°	15716.1	15589.3	15099.3	14414.4	13867.7	13672.8	13423.1	12861.2	12382.5	12060.9
40°	16242.0	16213.6	15755.8	14980.1	14412.5	14316.0	14232.8	13506.3	13093.9	12795.0
42.5°	16376.3	16438.8	16075.5	15437.9	14896.9	14819.3	15014.2	14236.6	13892.3	13606.6
45°	16052.8	16232.5	15994.2	15560.9	15241.2	15199.6	15706.6	15035.0	14775.8	14514.7
47.5°	15233.6	15538.2	15439.8	15379.3	15333.9	15513.6	16315.8	15882.5	15776.6	15549.6
50°	13580.1	14157.1	14329.3	14711.5	15150.4	15757.7	16870.1	16807.7	16945.8	16716.9
52.5°	10721.4	11516.0	12515.0	13472.3	14586.6	15676.3	17479.3	18135.8	18718.5	18593.6
55°	8850.3	9207.9	9976.0	11731.7	13493.1	15333.9	17753.6	19208.5	20478.0	20366.4
57.5°	7412.5	7732.2	8205.2	9671.4	11839.5	14556.3	17923.9	19863.1	21683.1	21671.8
60°	5870.6	6209.2	6693.6	7732.2	9907.9	13213.1	17886.1	20608.5	23221.2	23315.8
62.5°	4130.0	4502.7	5040.0	6008.7	7934.7	11472.5	17114.2	21147.7	25031.8	25289.1
65°	2714.9	2960.8	3365.7	4201.9	5912.2	9234.4	15640.4	21217.7	26969.1	27404.2
67.5°	1903.3	1997.9	2236.2	2690.3	3897.3	7081.4	13292.5	20493.1	28261.3	28751.3
70°	1485.1	1532.4	1653.5	1835.1	2448.1	4761.9	10186.0	18608.8	27985.1	28495.9
72.5°	1282.7	1328.1	1373.5	1396.2	1642.2	2940.0	6899.8	15559.0	25383.7	25729.9
75°	1163.5	1174.9	1212.7	1205.1	1252.4	1907.0	3982.5	11336.3	20027.7	19908.5
77.5°	978.1	993.3	1055.7	1046.2	1112.4	1303.5	2067.9	7316.0	12984.1	12174.4
80°	828.7	836.2	904.3	893.0	966.8	944.1	1055.7	3728.9	5507.3	4665.4
82.5°	287.6	355.7	690.5	711.4	737.8	571.4	609.2	1521.1	1681.9	1288.4
85°	140.0	149.5	351.9	499.5	497.6	287.6	297.0	543.0	529.7	416.2
87.5°	22.7	28.4	41.6	194.9	155.1	75.7	102.2	105.9	109.7	94.6
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°
4300.3	0°	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3	4300.3
4453.5	2.5°	4347.6	4253.0	4054.4	3870.8	3727.1	3588.9	3511.4	3445.2	3407.3	3399.8
4661.7	5°	4464.9	4270.0	3908.7	3604.1	3405.4	3257.9	3180.3	3131.1	3106.5	3091.4
4941.7	7.5°	4633.3	4347.6	3833.0	3486.8	3278.7	3172.7	3133.0	3125.4	3123.5	3125.4
5280.3	10°	4866.0	4474.4	3825.4	3458.4	3284.3	3225.7	3223.8	3225.7	3233.3	3235.2
5649.2	12.5°	5117.6	4604.9	3855.7	3483.0	3356.2	3324.1	3318.4	3316.5	3322.2	3326.0
6021.9	15°	5391.9	4777.1	3906.8	3536.0	3435.7	3401.6	3396.0	3384.6	3382.7	3380.8
6413.6	17.5°	5673.8	4947.3	3963.5	3592.7	3486.8	3439.5	3418.7	3392.2	3371.4	3365.7
6818.4	20°	5959.5	5115.7	4003.3	3621.1	3490.6	3424.3	3382.7	3337.3	3301.4	3280.6
7227.1	22.5°	6264.1	5291.7	4027.9	3613.5	3456.5	3365.7	3290.0	3237.1	3182.2	3146.2
7639.5	25°	6561.1	5444.9	4026.0	3573.8	3390.3	3274.9	3178.4	3110.3	3034.6	2996.8
8065.2	27.5°	6846.8	5583.0	3978.7	3503.8	3295.7	3167.0	3051.6	2970.3	2896.5	2860.6
8494.7	30°	7141.9	5698.4	3904.9	3401.6	3184.1	3042.2	2915.4	2845.4	2779.2	2745.2
8948.7	32.5°	7435.2	5804.4	3800.8	3274.9	3055.4	2919.2	2794.3	2730.0	2690.3	2690.3
9436.8	35°	7745.5	5878.2	3662.7	3127.3	2919.2	2788.7	2690.3	2652.5	2648.7	2626.0
9953.3	37.5°	8072.8	5925.4	3494.3	2976.0	2784.9	2661.9	2631.6	2586.2	2548.4	2499.2
10520.9	40°	8417.1	5972.7	3291.9	2818.9	2643.0	2574.9	2561.6	2501.1	2393.3	2272.2
11164.1	42.5°	8835.2	6004.9	3081.9	2661.9	2493.5	2470.8	2489.7	2385.7	2213.5	2122.7
11939.8	45°	9319.5	6057.9	2888.9	2506.8	2340.3	2340.3	2419.7	2283.5	2141.6	2084.9
12825.2	47.5°	9947.6	6180.9	2709.2	2336.5	2198.4	2236.2	2264.6	2160.6	2081.1	2011.1
13903.6	50°	10855.8	6476.0	2523.8	2164.3	2090.6	2166.2	2126.5	2066.0	1973.3	1916.5
15617.7	52.5°	11983.3	6650.0	2359.2	2009.2	1997.9	2073.5	2016.8	1960.0	1890.0	1814.3
16917.4	55°	12751.4	6682.2	2221.1	1895.7	1935.4	1927.9	1907.0	1856.0	1818.1	1717.9
18200.1	57.5°	13610.4	6746.5	2107.6	1827.6	1895.7	1812.4	1804.9	1761.4	1712.2	1644.1
19764.7	60°	14637.7	6846.8	2009.2	1801.1	1861.6	1736.8	1698.9	1681.9	1632.7	1598.7
21647.2	62.5°	15757.7	6937.6	1908.9	1804.9	1821.9	1663.0	1606.2	1600.6	1570.3	1558.9
23414.2	65°	16522.0	6689.8	1784.1	1801.1	1759.5	1587.3	1515.4	1513.5	1488.9	1485.1
24180.4	67.5°	16255.3	5904.6	1615.7	1748.1	1695.1	1511.6	1432.2	1424.6	1392.4	1394.3
23380.2	70°	14919.6	4784.6	1383.0	1617.6	1615.7	1443.5	1345.1	1320.5	1277.0	1284.6
20328.5	72.5°	12414.7	3545.4	1070.8	1400.0	1488.9	1381.1	1244.9	1205.1	1150.3	1157.8
15006.6	75°	8965.7	2410.3	779.5	1065.1	1296.0	1307.3	1146.5	1078.4	1012.2	1023.5
8352.8	77.5°	4587.9	1366.0	573.2	734.1	1017.8	1188.1	1057.6	966.8	951.6	1057.6
2408.4	80°	1496.5	684.9	397.3	514.6	667.8	972.4	927.0	823.0	819.2	843.8
505.1	82.5°	446.5	289.5	255.4	338.7	368.9	745.4	800.3	622.4	535.4	563.8
168.4	85°	153.2	140.0	145.7	168.4	175.9	437.0	560.0	412.4	389.7	429.5
37.8	87.5°	35.9	49.2	41.6	37.8	37.8	105.9	217.6	172.2	238.4	158.9
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>
4300.3
3399.8
3089.5
3131.1
3237.1
3327.9
3378.9
3371.4
3288.1
3148.1
2996.8
2858.7
2743.3
2692.2
2620.3
2491.6
2255.2
2124.6
2094.3
2009.2
1910.8
1799.2
1719.7
1621.4
1608.1
1558.9
1483.3
1394.3
1292.2
1156.0
1027.3
1042.4
724.6
582.7
423.8
153.2
0.0

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