

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: P953931

Luminaire Tested: **GALN-SB7B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35168 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

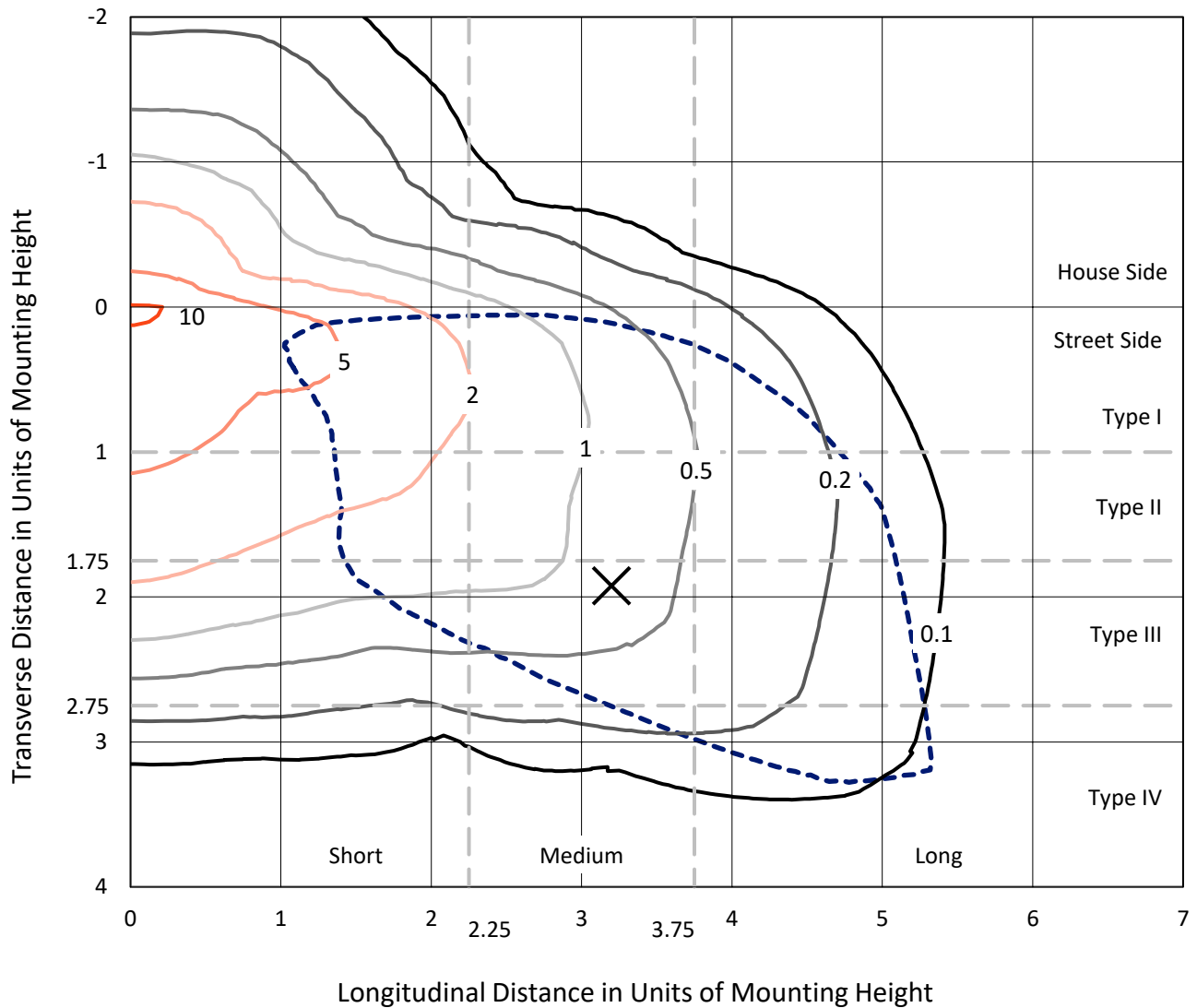
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

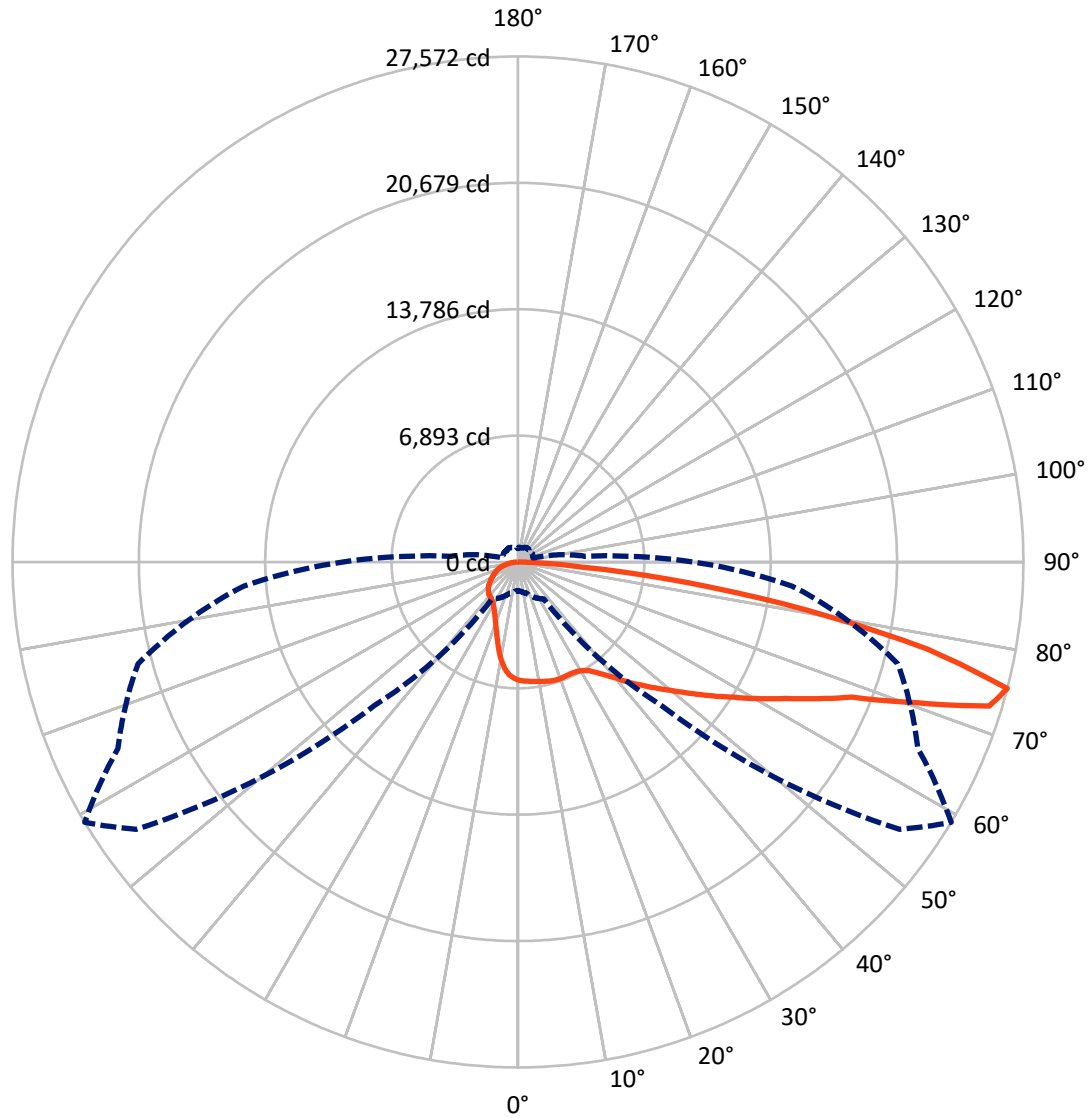
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6596.0	0.0	6596.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28572.0	0.0	28572.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	35168.0	0.0	35168.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.8	1.6
10°-20°	1479.4	4.2
20°-30°	2247.2	6.4
30°-40°	3340.3	9.5
40°-50°	4967.7	14.1
50°-60°	6743.0	19.2
60°-70°	8232.1	23.4
70°-80°	6460.4	18.4
80°-90°	1119.1	3.2
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°	35168.0	100.0
0°-180°	35168.0	100.0



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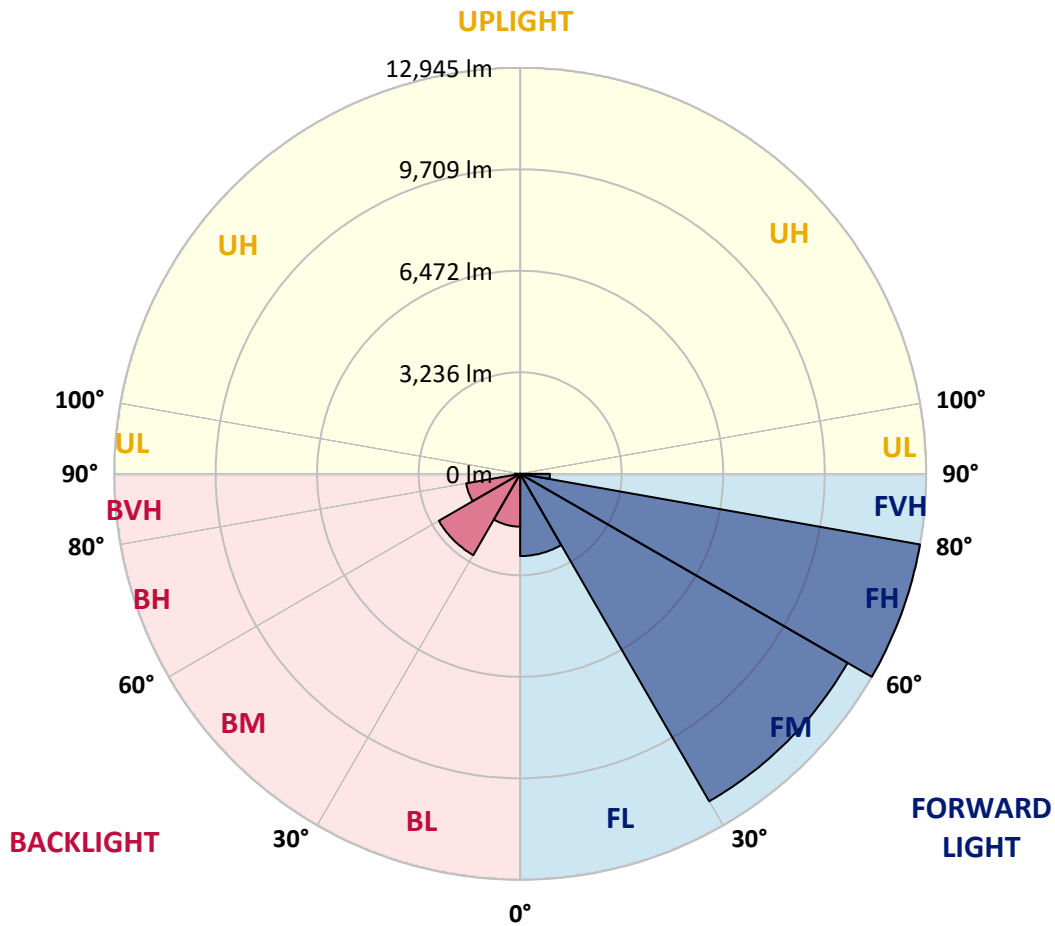
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2622.2	7.5			
FM (30°-60°)	12057.1	34.3			
FH (60°-80°)	12945.0	36.8			G5
FVH (80°-90°)	947.8	2.7			G5
BL (0°-30°)	1683.2	4.8	B3/2500		
BM (30°-60°)	2993.9	8.5	B3/5000		
BH (60°-80°)	1747.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	171.3	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0
2.5°	6509.9	6487.2	6509.9	6500.4	6496.6	6489.1	6491.0	6504.2	6496.6	6506.1
5°	6466.4	6453.1	6475.8	6470.1	6494.7	6498.5	6523.1	6538.2	6547.7	6549.6
7.5°	6394.5	6381.2	6413.4	6439.9	6492.8	6508.0	6559.1	6583.7	6596.9	6619.6
10°	6131.5	6125.8	6205.3	6305.6	6430.4	6508.0	6585.5	6627.2	6648.0	6708.5
12.5°	5666.1	5673.7	5777.7	5970.7	6220.4	6470.1	6615.8	6676.4	6708.5	6784.2
15°	5221.5	5219.6	5333.1	5539.4	5889.3	6303.7	6631.0	6735.0	6789.9	6901.5
17.5°	4964.2	4956.7	5036.1	5193.1	5518.5	6048.3	6593.1	6767.2	6884.5	7024.5
20°	4916.9	4901.8	4943.4	5021.0	5251.8	5768.3	6494.7	6767.2	6960.1	7141.8
22.5°	5089.1	5064.5	5047.5	5038.0	5140.2	5537.5	6383.1	6744.5	7071.8	7310.1
25°	5435.3	5397.5	5310.4	5225.3	5195.0	5433.4	6284.7	6738.8	7238.2	7537.1
27.5°	5995.3	5948.0	5772.0	5567.7	5384.2	5486.4	6241.2	6772.8	7421.7	7777.4
30°	6689.6	6638.5	6417.2	6103.1	5773.9	5683.1	6296.1	6873.1	7656.3	8097.1
32.5°	7312.0	7255.3	7066.1	6746.4	6301.8	6023.7	6470.1	7064.2	8025.2	8541.7
35°	7864.4	7798.2	7628.0	7332.8	6948.8	6502.3	6784.2	7402.8	8549.3	9264.4
37.5°	8405.5	8327.9	8142.5	7830.4	7561.7	7139.9	7217.4	7838.0	9245.5	10142.2
40°	9010.9	8899.3	8674.2	8365.8	8104.7	7887.1	7786.9	8371.5	9953.0	11122.2
42.5°	9597.4	9491.4	9222.8	8959.8	8632.5	8570.1	8447.1	8995.8	10726.8	12198.7
45°	10229.3	10102.5	9777.1	9444.1	9237.9	9024.1	9086.6	9620.1	11485.4	13296.0
47.5°	10821.4	10679.5	10295.5	9924.7	9811.2	9406.3	9673.1	10306.8	12274.4	14408.4
50°	11141.1	11001.1	10681.4	10346.6	10257.6	9877.4	10308.7	11061.7	13101.1	15517.0
52.5°	11407.9	11256.5	10838.4	10653.0	10626.5	10390.1	11091.9	11924.4	13927.8	16497.0
55°	11691.7	11523.3	10989.8	10823.3	10944.4	10965.2	12020.8	12902.4	14801.9	17452.4
57.5°	12019.0	11805.2	11135.5	10967.1	11254.6	11638.7	13087.9	13916.5	15660.8	18337.7
60°	12327.3	12111.7	11415.5	11196.0	11589.5	12420.0	14311.9	15144.3	16633.2	19126.7
62.5°	12387.9	12210.0	11638.7	11636.8	12043.5	13331.9	15761.0	16383.5	17482.6	19906.1
65°	11339.8	11228.2	10889.5	11619.8	12694.3	14644.8	17374.8	17968.8	18562.9	20587.2
67.5°	8630.6	8645.8	8621.2	10030.6	12168.4	16531.0	19711.2	19665.8	19896.6	21351.5
70°	3946.4	4035.3	4614.2	6924.2	9748.7	16748.6	23574.4	22986.0	21570.9	22340.9
72.5°	2132.1	2200.2	2436.7	3354.3	5861.0	14890.8	26461.4	26879.5	23797.6	23006.8
75°	1564.6	1602.4	1767.0	2132.1	2461.3	11067.3	25426.5	27571.9	24075.7	21453.6
77.5°	1171.1	1188.1	1322.4	1689.4	1260.0	5834.5	20316.6	22834.7	20609.9	17626.4
80°	849.4	868.4	968.6	1267.5	883.5	2134.0	13950.5	16027.8	14115.1	11235.7
82.5°	586.5	594.0	637.6	862.7	616.7	828.6	7915.5	9398.7	7879.6	3942.6
85°	353.8	363.2	382.2	503.2	350.0	393.5	3416.7	3534.0	2355.4	942.1
87.5°	145.7	155.1	170.3	211.9	138.1	109.7	563.8	707.6	440.8	276.2
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°
6455.0	0°	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0	6455.0
6473.9	2.5°	6464.5	6451.2	6415.3	6366.1	6320.7	6263.9	6239.3	6218.5	6199.6	6163.7
6525.0	5°	6504.2	6468.3	6371.8	6246.9	6105.0	5949.9	5798.5	5694.5	5605.6	5539.4
6583.7	7.5°	6564.7	6496.6	6320.7	6065.3	5739.9	5406.9	5106.1	4892.3	4731.5	4672.9
6666.9	10°	6627.2	6545.8	6239.3	5789.1	5227.2	4714.5	4315.3	4095.9	3967.2	3925.6
6765.3	12.5°	6700.9	6581.8	6112.6	5405.0	4654.0	4092.1	3744.0	3615.3	3549.1	3526.4
6886.4	15°	6808.8	6612.0	5921.5	4924.5	4107.2	3638.0	3412.9	3324.0	3289.9	3288.0
7011.2	17.5°	6890.1	6617.7	5624.5	4409.9	3687.2	3363.7	3178.3	3144.3	3167.0	3201.0
7134.2	20°	6980.9	6566.6	5234.8	3940.7	3392.1	3123.5	3045.9	3068.6	3123.5	3172.6
7296.9	22.5°	7045.3	6473.9	4763.7	3575.6	3136.7	2985.3	2981.6	3028.9	3059.1	3083.7
7488.0	25°	7102.0	6316.9	4264.2	3269.1	2926.7	2902.1	2943.7	2928.6	2907.8	2928.6
7679.0	27.5°	7143.6	6069.1	3817.8	3000.5	2779.1	2845.3	2820.8	2786.7	2784.8	2796.2
7904.2	30°	7130.4	5738.0	3450.7	2745.1	2675.1	2739.4	2680.8	2675.1	2669.4	2675.1
8242.8	32.5°	7130.4	5361.5	3168.9	2569.1	2608.9	2584.3	2578.6	2565.4	2542.7	2540.8
8702.5	35°	7170.1	4985.0	2926.7	2474.5	2554.0	2495.4	2499.1	2467.0	2419.7	2397.0
9311.7	37.5°	7251.5	4682.3	2686.4	2429.1	2457.5	2455.6	2440.5	2385.6	2302.4	2230.5
10072.2	40°	7448.2	4593.4	2521.8	2408.3	2412.1	2434.8	2395.1	2289.1	2100.0	1982.7
10844.1	42.5°	7756.6	4742.9	2485.9	2357.3	2381.8	2404.5	2327.0	2081.0	1946.7	1876.7
11653.8	45°	8148.2	5004.0	2563.5	2283.5	2310.0	2349.7	2118.9	2001.6	1941.0	1942.9
12456.0	47.5°	8643.9	5278.3	2707.2	2219.1	2205.9	2228.6	1980.8	1908.9	1825.6	1846.5
13226.0	50°	9217.1	5556.4	2843.5	2132.1	2090.5	2016.7	1891.9	1823.7	1717.8	1668.6
13969.5	52.5°	9837.6	5825.0	2898.3	2026.2	1965.6	1880.5	1831.3	1748.1	1619.4	1538.1
14671.3	55°	10426.0	6069.1	2837.8	1899.4	1840.8	1774.6	1767.0	1715.9	1577.8	1464.3
15295.6	57.5°	10982.2	6273.4	2686.4	1770.8	1714.0	1674.3	1725.4	1700.8	1526.7	1381.1
15885.9	60°	11453.3	6413.4	2467.0	1640.2	1600.5	1579.7	1657.3	1649.7	1454.8	1292.1
16415.6	62.5°	11827.9	6468.3	2224.8	1515.4	1505.9	1468.1	1562.7	1562.7	1364.0	1205.1
16881.0	65°	12121.1	6415.3	1978.9	1392.4	1411.3	1354.6	1447.3	1435.9	1267.5	1127.5
17416.4	67.5°	12380.3	6241.2	1706.5	1271.3	1314.8	1242.9	1326.2	1299.7	1161.6	1050.0
17879.9	70°	12495.7	5836.4	1396.2	1150.2	1203.2	1133.2	1205.1	1155.9	1042.4	966.7
17371.0	72.5°	11568.7	4850.7	1099.2	1023.5	1068.9	1012.1	1074.6	1017.8	913.8	879.7
15000.5	75°	9570.9	3639.9	845.7	885.4	919.4	875.9	917.5	875.9	781.3	805.9
11080.6	77.5°	6950.7	2457.5	647.0	739.7	754.9	732.1	768.1	720.8	635.7	630.0
5522.3	80°	3456.4	1439.7	507.0	584.6	578.9	563.8	605.4	582.7	510.8	541.1
1490.8	82.5°	1000.8	616.7	368.9	410.5	399.2	403.0	433.2	444.6	665.9	660.3
463.5	85°	314.0	242.2	221.3	228.9	217.6	223.2	255.4	507.0	469.2	274.3
143.8	87.5°	81.3	83.2	54.9	58.6	60.5	71.9	81.3	308.4	147.6	96.5
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>
6455.0
6146.6
5484.5
4570.7
3861.3
3532.1
3295.6
3214.3
3189.7
3097.0
2941.8
2815.1
2695.9
2565.4
2419.7
2255.1
1997.8
1876.7
1952.4
1899.4
1681.9
1536.2
1464.3
1373.5
1286.5
1199.4
1120.0
1042.4
951.6
851.3
735.9
601.6
535.4
675.4
297.0
102.2
0.0

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