

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: P955506

Luminaire Tested: **GALN-SB8B-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955506
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-SB8B-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 32247 lumens
Efficiency: N/A
Efficacy: 110.1 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

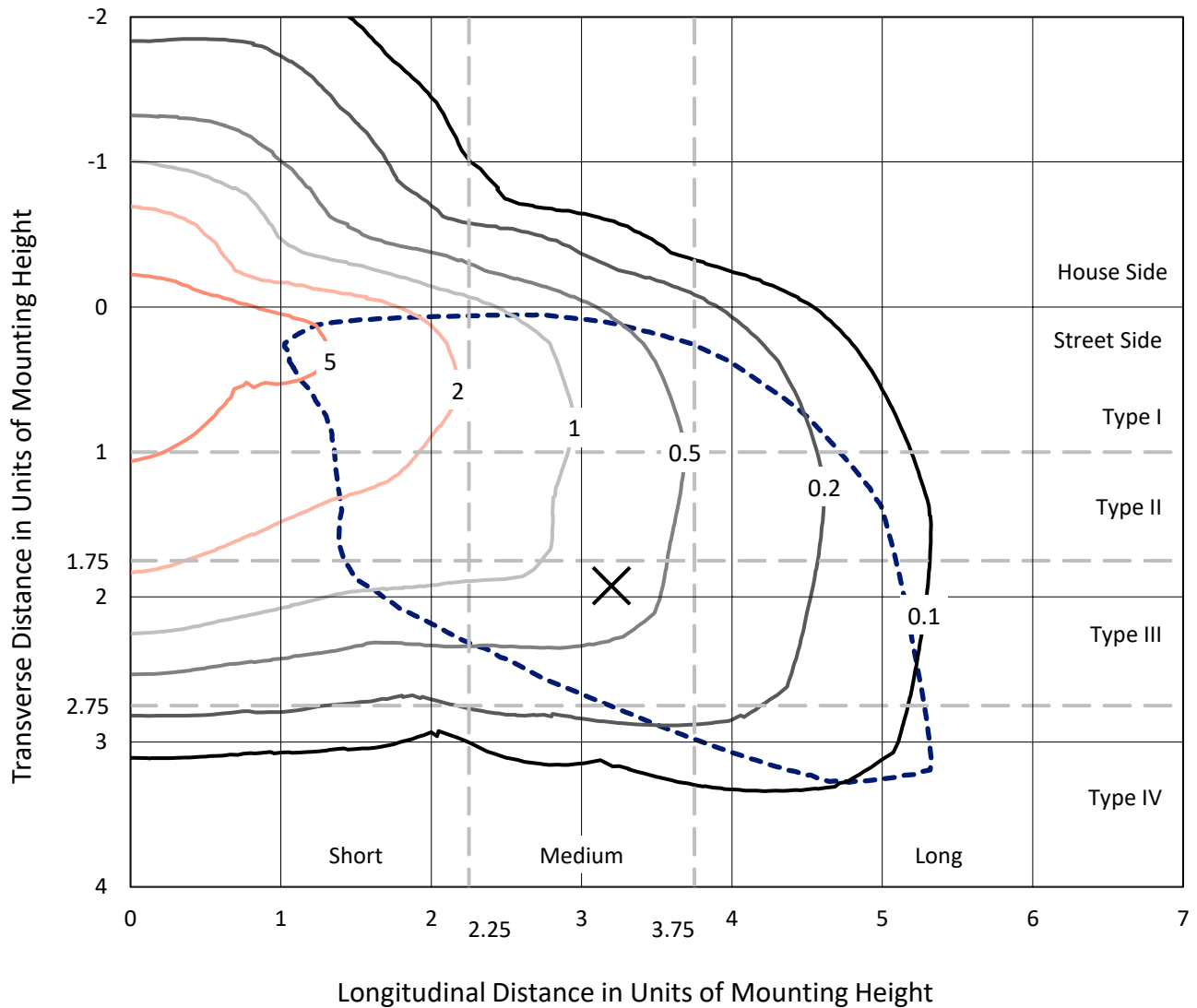
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

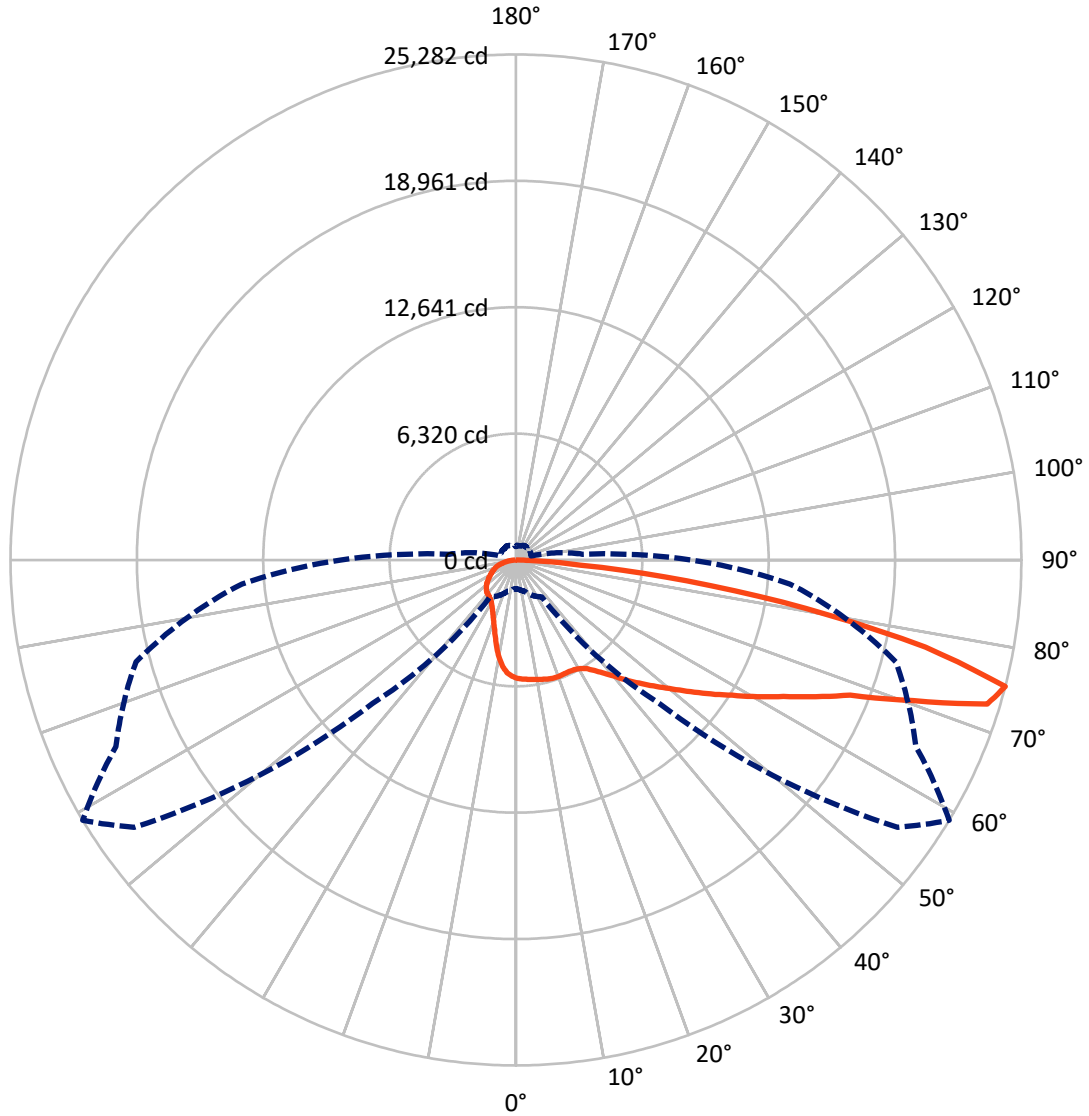
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	6048.1	0.0	6048.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26198.9	0.0	26198.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	32247.0	0.0	32247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.7	1.6
10°-20°	1356.6	4.2
20°-30°	2060.5	6.4
30°-40°	3062.9	9.5
40°-50°	4555.0	14.1
50°-60°	6182.9	19.2
60°-70°	7548.4	23.4
70°-80°	5923.8	18.4
80°-90°	1026.2	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°	32247.0	100.0
0°-180°	32247.0	100.0

Coefficient of Utilization



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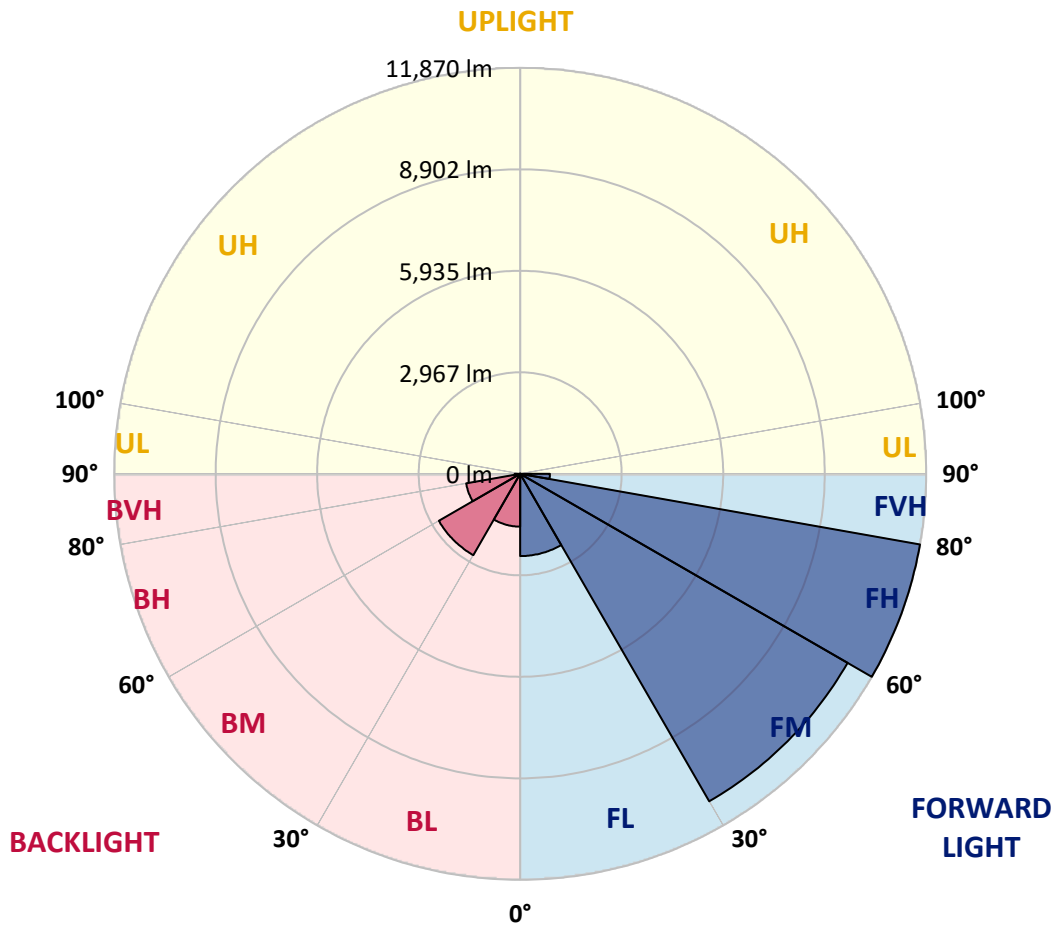
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2404.4	7.5			
FM (30°-60°)	11055.6	34.3			
FH (60°-80°)	11869.8	36.8			G4/12000
FVH (80°-90°)	869.1	2.7			G5
BL (0°-30°)	1543.4	4.8	B3/2500		
BM (30°-60°)	2745.3	8.5	B3/5000		
BH (60°-80°)	1602.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	157.1	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°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
2.5°	5969.2	5948.4	5969.2	5960.5	5957.0	5950.1	5951.8	5964.0	5957.0	5965.7
5°	5929.3	5917.1	5937.9	5932.7	5955.3	5958.8	5981.3	5995.2	6003.9	6005.6
7.5°	5863.4	5851.2	5880.7	5905.0	5953.6	5967.4	6014.3	6036.8	6049.0	6069.8
10°	5622.2	5617.0	5689.9	5781.8	5896.3	5967.4	6038.6	6076.7	6095.8	6151.3
12.5°	5195.5	5202.4	5297.8	5474.8	5703.8	5932.7	6066.3	6121.8	6151.3	6220.7
15°	4787.8	4786.1	4890.2	5079.3	5400.2	5780.1	6080.2	6175.6	6225.9	6328.3
17.5°	4551.9	4545.0	4617.8	4761.8	5060.2	5545.9	6045.5	6205.1	6312.6	6441.0
20°	4508.5	4494.7	4532.8	4603.9	4815.6	5289.2	5955.3	6205.1	6382.0	6548.6
22.5°	4666.4	4643.8	4628.2	4619.6	4713.2	5077.5	5852.9	6184.3	6484.4	6703.0
25°	4983.9	4949.2	4869.4	4791.3	4763.5	4982.1	5762.7	6179.1	6637.0	6911.1
27.5°	5497.3	5454.0	5292.6	5105.3	4937.0	5030.7	5722.8	6210.3	6805.3	7131.4
30°	6134.0	6087.1	5884.2	5596.2	5294.4	5211.1	5773.1	6302.2	7020.4	7424.6
32.5°	6704.7	6652.7	6479.2	6186.0	5778.4	5523.3	5932.7	6477.4	7358.7	7832.3
35°	7211.2	7150.5	6994.4	6723.8	6371.6	5962.2	6220.7	6788.0	7839.2	8494.9
37.5°	7707.4	7636.2	7466.2	7180.0	6933.7	6546.8	6618.0	7186.9	8477.6	9299.8
40°	8262.5	8160.1	7953.7	7670.9	7431.5	7232.0	7140.1	7676.1	9126.4	10198.4
42.5°	8800.2	8703.1	8456.8	8215.6	7915.5	7858.3	7745.5	8248.6	9835.9	11185.5
45°	9379.6	9263.4	8965.0	8659.7	8470.6	8274.6	8331.9	8821.1	10531.5	12191.6
47.5°	9922.6	9792.5	9440.3	9100.3	8996.3	8625.0	8869.6	9450.8	11254.9	13211.6
50°	10215.8	10087.4	9794.2	9487.2	9405.7	9057.0	9452.5	10142.9	12012.9	14228.2
52.5°	10460.4	10321.6	9938.2	9768.2	9743.9	9527.1	10170.7	10933.9	12771.0	15126.8
55°	10720.6	10566.2	10077.0	9924.3	10035.4	10054.4	11022.4	11830.8	13572.5	16002.8
57.5°	11020.7	10824.7	10210.6	10056.2	10319.8	10672.0	12000.8	12760.6	14360.0	16814.6
60°	11303.4	11105.7	10467.3	10266.1	10626.9	11388.4	13123.2	13886.4	15251.7	17538.0
62.5°	11358.9	11195.9	10672.0	10670.3	11043.2	12224.6	14452.0	15022.7	16030.5	18252.7
65°	10397.9	10295.6	9985.0	10654.7	11640.0	13428.5	15931.7	16476.4	17021.1	18877.2
67.5°	7913.8	7927.7	7905.1	9197.5	11157.7	15158.0	18074.0	18032.4	18244.1	19578.1
70°	3618.6	3700.2	4231.0	6349.1	8939.0	15357.5	21616.3	21076.8	19779.3	20485.3
72.5°	1955.0	2017.5	2234.3	3075.7	5374.2	13654.0	24263.5	24646.9	21821.0	21095.9
75°	1434.6	1469.3	1620.2	1955.0	2256.9	10148.1	23314.6	25281.8	22076.0	19671.7
77.5°	1073.8	1089.4	1212.6	1549.1	1155.3	5349.9	18629.2	20938.1	18898.0	16162.4
80°	778.9	796.2	888.2	1162.3	810.1	1956.8	12791.8	14696.5	12942.7	10302.5
82.5°	537.8	544.7	584.6	791.0	565.5	759.8	7258.1	8618.1	7225.1	3615.2
85°	324.4	333.1	350.4	461.4	320.9	360.8	3132.9	3240.5	2159.7	863.9
87.5°	133.6	142.2	156.1	194.3	126.6	100.6	516.9	648.8	404.2	253.3
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°
5918.9	0°	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9	5918.9
5936.2	2.5°	5927.5	5915.4	5882.4	5837.3	5795.7	5743.7	5721.1	5702.0	5684.7	5651.7
5983.0	5°	5964.0	5931.0	5842.5	5728.0	5597.9	5455.7	5316.9	5221.5	5140.0	5079.3
6036.8	7.5°	6019.5	5957.0	5795.7	5561.5	5263.1	4957.8	4682.0	4486.0	4338.5	4284.8
6113.2	10°	6076.7	6002.1	5721.1	5308.2	4793.0	4322.9	3956.9	3755.7	3637.7	3599.5
6203.4	12.5°	6144.4	6035.1	5604.9	4956.1	4267.4	3752.2	3433.0	3315.1	3254.3	3233.5
6314.4	15°	6243.3	6062.8	5429.7	4515.5	3766.1	3335.9	3129.4	3047.9	3016.7	3014.9
6428.9	17.5°	6317.9	6068.1	5157.3	4043.6	3381.0	3084.3	2914.3	2883.1	2903.9	2935.1
6541.6	20°	6401.1	6021.2	4800.0	3613.4	3110.4	2864.0	2792.9	2813.7	2864.0	2909.1
6690.8	22.5°	6460.1	5936.2	4368.0	3278.6	2876.2	2737.4	2733.9	2777.3	2805.0	2827.6
6866.0	25°	6512.1	5792.2	3910.1	2997.6	2683.6	2661.1	2699.2	2685.3	2666.3	2685.3
7041.2	27.5°	6550.3	5565.0	3500.7	2751.3	2548.3	2609.0	2586.5	2555.2	2553.5	2563.9
7247.7	30°	6538.2	5261.4	3164.1	2517.1	2452.9	2511.9	2458.1	2452.9	2447.7	2452.9
7558.2	32.5°	6538.2	4916.2	2905.7	2355.7	2392.2	2369.6	2364.4	2352.3	2331.5	2329.7
7979.7	35°	6574.6	4571.0	2683.6	2269.0	2341.9	2288.1	2291.6	2262.1	2218.7	2197.9
8538.3	37.5°	6649.2	4293.4	2463.3	2227.4	2253.4	2251.7	2237.8	2187.5	2111.2	2045.2
9235.6	40°	6829.6	4211.9	2312.4	2208.3	2211.8	2232.6	2196.2	2099.0	1925.5	1818.0
9943.4	42.5°	7112.4	4348.9	2279.4	2161.5	2184.0	2204.8	2133.7	1908.2	1785.0	1720.8
10685.9	45°	7471.4	4588.3	2350.5	2093.8	2118.1	2154.5	1942.9	1835.3	1779.8	1781.6
11421.4	47.5°	7925.9	4839.9	2482.4	2034.8	2022.7	2043.5	1816.3	1750.3	1674.0	1693.1
12127.4	50°	8451.6	5094.9	2607.3	1955.0	1916.9	1849.2	1734.7	1672.3	1575.1	1530.0
12809.2	52.5°	9020.5	5341.2	2657.6	1857.9	1802.4	1724.3	1679.2	1602.9	1484.9	1410.3
13452.8	55°	9560.0	5565.0	2602.1	1741.7	1687.9	1627.2	1620.2	1573.4	1446.8	1342.7
14025.2	57.5°	10070.1	5752.3	2463.3	1623.7	1571.7	1535.2	1582.1	1559.5	1399.9	1266.3
14566.4	60°	10502.0	5880.7	2262.1	1504.0	1467.6	1448.5	1519.6	1512.7	1334.0	1184.8
15052.2	62.5°	10845.5	5931.0	2040.0	1389.5	1380.8	1346.1	1432.9	1432.9	1250.7	1105.0
15478.9	65°	11114.4	5882.4	1814.5	1276.8	1294.1	1242.1	1327.1	1316.7	1162.3	1033.9
15969.8	67.5°	11352.0	5722.8	1564.7	1165.7	1205.6	1139.7	1216.0	1191.8	1065.1	962.8
16394.8	70°	11457.8	5351.6	1280.2	1054.7	1103.3	1039.1	1105.0	1059.9	955.8	886.4
15928.2	72.5°	10607.8	4447.8	1007.9	938.5	980.1	928.1	985.3	933.3	837.9	806.6
13754.6	75°	8775.9	3337.6	775.4	811.8	843.1	803.2	841.3	803.2	716.4	739.0
10160.3	77.5°	6373.4	2253.4	593.3	678.3	692.2	671.3	704.3	660.9	582.9	577.7
5063.6	80°	3169.3	1320.1	464.9	536.0	530.8	516.9	555.1	534.3	468.4	496.1
1367.0	82.5°	917.7	565.5	338.3	376.4	366.0	369.5	397.3	407.7	610.6	605.4
425.0	85°	288.0	222.0	203.0	209.9	199.5	204.7	234.2	464.9	430.2	251.5
131.8	87.5°	74.6	76.3	50.3	53.8	55.5	65.9	74.6	282.8	135.3	88.5
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>
5918.9
5636.1
5029.0
4191.1
3540.6
3238.7
3021.9
2947.3
2924.7
2839.7
2697.5
2581.3
2472.0
2352.3
2218.7
2067.8
1831.9
1720.8
1790.2
1741.7
1542.2
1408.6
1342.7
1259.4
1179.6
1099.8
1027.0
955.8
872.6
780.6
674.8
551.6
490.9
619.3
272.4
93.7
0.0

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