

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: P956449

Luminaire Tested: **GALN-SB9A-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-835-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37668 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

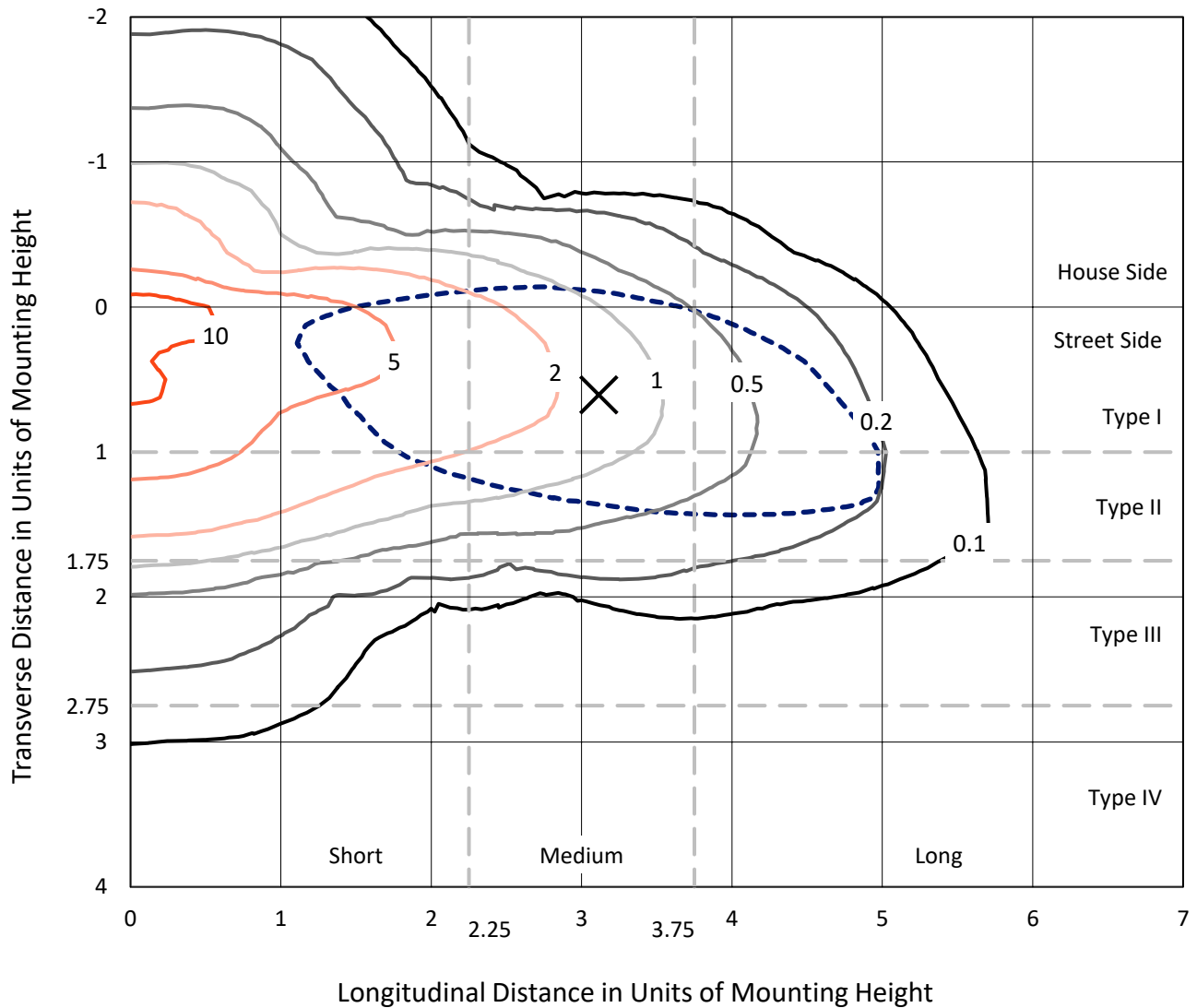
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

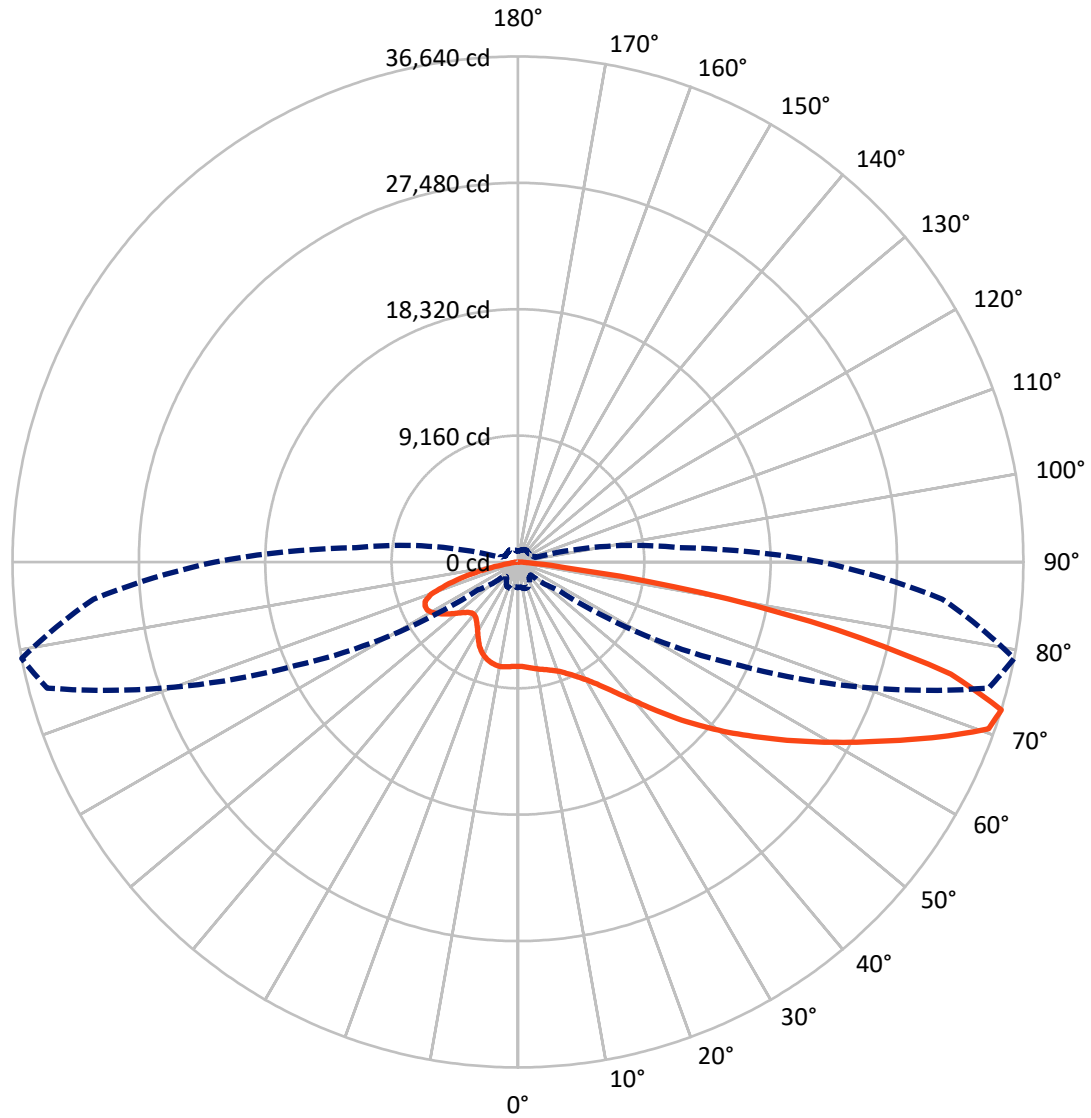
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8289.0	0.0	8289.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29379.0	0.0	29379.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	37668.0	0.0	37668.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.4	1.8
10°-20°	1794.5	4.8
20°-30°	2895.6	7.7
30°-40°	4345.9	11.5
40°-50°	6164.9	16.4
50°-60°	7785.4	20.7
60°-70°	7907.1	21.0
70°-80°	5389.1	14.3
80°-90°	699.2	1.9
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°	37668.0	100.0
0°-180°	37668.0	100.0



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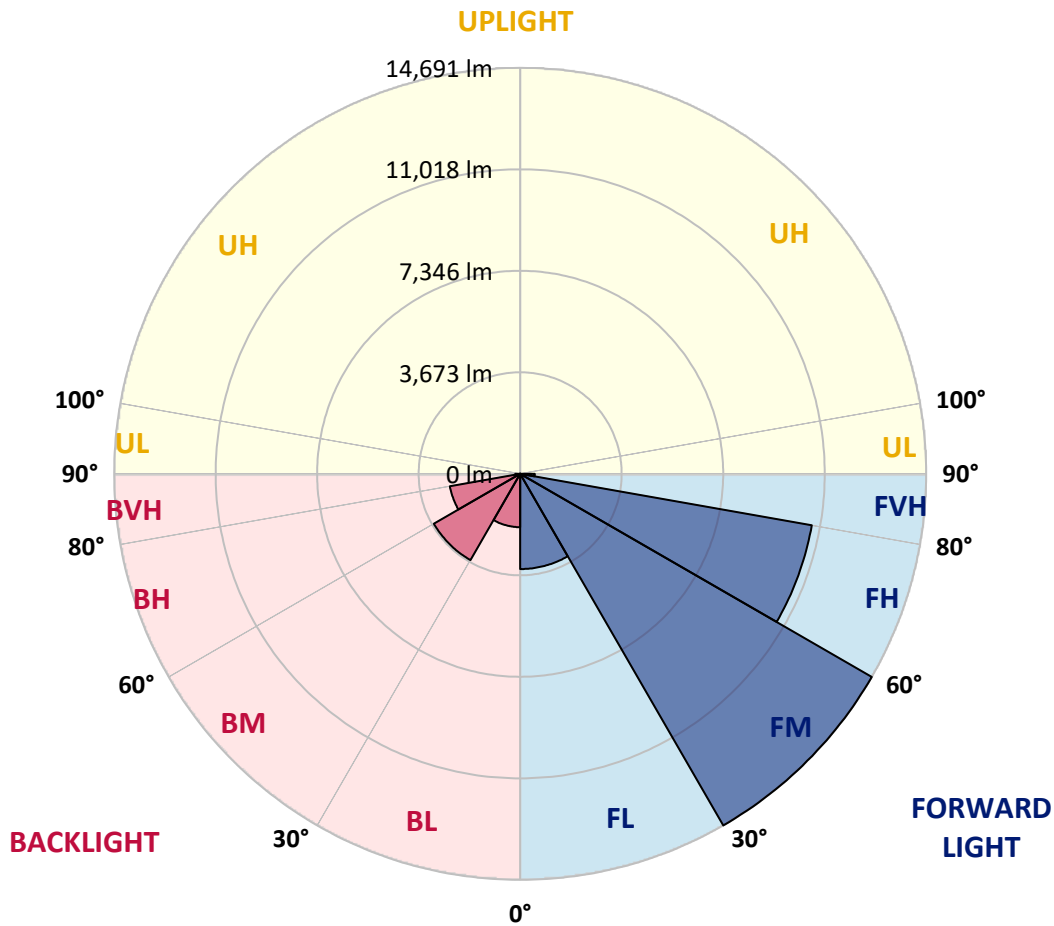
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3445.7	9.1			
FM (30°-60°)	14691.3	39.0			
FH (60°-80°)	10715.3	28.4			G4/12000
FVH (80°-90°)	526.7	1.4			G4/750
BL (0°-30°)	1930.8	5.1	B3/2500		
BM (30°-60°)	3604.9	9.6	B3/5000		
BH (60°-80°)	2580.9	6.9	B4/5000		G4/5000
BVH (80°-90°)	172.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5
2.5°	7565.5	7529.6	7551.5	7543.6	7553.5	7565.5	7569.5	7575.4	7595.4	7593.4
5°	7549.5	7513.7	7543.6	7533.6	7559.5	7587.4	7611.3	7633.2	7665.1	7679.0
7.5°	7515.7	7491.8	7521.6	7551.5	7599.4	7641.2	7675.1	7724.9	7770.7	7778.7
10°	7318.4	7300.5	7370.2	7447.9	7579.4	7693.0	7766.7	7824.5	7874.3	7882.3
12.5°	7113.2	7091.3	7169.0	7274.6	7487.8	7693.0	7848.4	7924.1	7968.0	7993.9
15°	7079.3	7061.4	7105.2	7196.9	7374.2	7639.2	7904.2	8043.7	8081.5	8111.4
17.5°	7242.7	7208.8	7226.8	7258.6	7362.2	7589.4	7948.0	8179.2	8236.9	8268.8
20°	7621.3	7573.4	7545.6	7481.8	7463.9	7597.4	7944.1	8342.5	8418.3	8458.1
22.5°	8125.4	8093.5	8033.7	7872.3	7697.0	7695.0	8019.8	8551.8	8693.2	8731.1
25°	8735.1	8687.2	8611.5	8392.4	8055.6	7888.3	8147.3	8818.8	9055.9	9065.8
27.5°	9436.4	9364.7	9261.1	8972.2	8517.9	8191.1	8342.5	9125.6	9472.3	9468.3
30°	10175.6	10103.9	9994.3	9643.6	9071.8	8599.6	8613.5	9456.3	9966.4	9944.5
32.5°	10715.6	10661.8	10639.9	10368.9	9709.4	9081.8	8924.4	9823.0	10576.1	10556.2
35°	11130.0	11060.3	11086.2	10948.7	10404.8	9621.7	9304.9	10259.3	11317.3	11315.3
37.5°	11540.5	11478.7	11500.6	11409.0	11048.3	10307.1	9769.2	10793.3	12235.9	12279.7
40°	11915.1	11849.3	11937.0	11851.3	11548.5	11036.4	10297.2	11397.0	13299.9	13383.5
42.5°	12140.2	12088.4	12233.9	12235.9	11982.8	11652.1	10877.0	12062.5	14531.2	14718.5
45°	12217.9	12200.0	12419.2	12465.0	12367.4	12008.7	11399.0	12787.8	15858.2	16193.0
47.5°	12134.3	12100.4	12403.2	12572.6	12650.3	12176.1	11831.4	13572.8	17213.1	17703.3
50°	11711.8	11646.1	12096.4	12453.1	12730.0	12285.7	12267.8	14479.4	18753.3	19289.3
52.5°	10952.7	10902.9	11415.0	12034.6	12554.7	12339.5	12757.9	15469.7	20215.8	20909.2
55°	9982.4	9916.6	10480.5	11289.4	12118.3	12321.5	13248.1	16577.5	21941.3	22644.6
57.5°	8444.2	8312.7	9026.0	9982.4	11407.0	12299.6	13758.1	17679.3	23694.7	24537.5
60°	6200.6	6005.4	6880.1	8013.8	10016.2	12086.4	14389.8	18914.7	25798.7	26557.9
62.5°	3610.4	3496.8	4068.7	5126.7	7549.5	10831.2	14744.4	20351.3	27866.9	28663.9
65°	2803.4	2771.6	2821.4	2903.1	4202.2	8109.4	13650.5	21752.0	30497.0	31054.9
67.5°	2564.3	2540.4	2562.3	2408.9	2132.0	4517.0	10799.3	22106.7	33314.4	33653.1
70°	2279.4	2251.5	2323.2	2191.7	1677.7	2054.3	6977.7	20819.5	35556.0	36191.6
72.5°	1857.0	1825.1	1992.5	1932.7	1412.7	1319.0	3504.8	17761.0	35320.8	36639.9
75°	1426.6	1408.7	1607.9	1657.8	1151.7	1038.1	1681.7	13202.2	31082.8	32411.8
77.5°	1107.8	1093.9	1195.5	1376.8	928.5	805.0	1034.1	8374.4	23423.7	23656.8
80°	830.9	791.0	884.7	1066.0	723.3	587.8	701.4	4883.6	14806.2	13421.4
82.5°	520.0	500.1	577.8	711.3	510.1	404.5	456.3	2697.8	5933.6	3494.8
85°	296.9	288.9	314.8	406.5	277.0	233.1	261.0	1191.5	1083.9	745.2
87.5°	119.5	115.6	143.5	181.3	101.6	85.7	91.7	286.9	239.1	221.2
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°
7561.5	0°	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5	7561.5
7591.4	2.5°	7583.4	7583.4	7555.5	7511.7	7461.9	7430.0	7378.2	7364.2	7310.4	7294.5
7659.1	5°	7675.1	7659.1	7573.4	7449.9	7280.6	7125.1	6953.8	6846.2	6694.8	6641.0
7792.6	7.5°	7790.6	7746.8	7599.4	7328.4	6973.7	6625.0	6262.4	5987.4	5724.4	5630.8
7902.2	10°	7896.2	7834.5	7583.4	7109.2	6495.5	5891.8	5314.0	4909.5	4602.6	4477.1
8023.8	12.5°	8001.8	7888.3	7477.8	6744.6	5816.1	4997.2	4381.5	4066.7	3877.4	3726.0
8123.4	15°	8101.5	7942.1	7314.4	6256.4	5070.9	4240.0	3785.7	3534.7	3383.2	3283.6
8268.8	17.5°	8217.0	7987.9	7069.3	5636.7	4361.6	3716.0	3345.4	3194.0	3164.1	3152.1
8468.1	20°	8378.4	8029.7	6746.6	4943.4	3839.5	3297.6	3106.3	3092.3	3090.3	3084.4
8707.2	22.5°	8551.8	8079.5	6320.2	4313.7	3395.2	3036.6	3002.7	2974.8	2956.9	2954.9
8996.1	25°	8757.0	8095.5	5786.2	3797.7	3016.6	2913.0	2873.2	2831.3	2819.4	2819.4
9324.8	27.5°	8956.2	8041.7	5164.5	3349.4	2803.4	2799.4	2747.6	2733.7	2731.7	2737.7
9699.4	30°	9155.5	7940.1	4546.9	2934.9	2679.9	2679.9	2662.0	2671.9	2679.9	2699.8
10213.5	32.5°	9424.5	7832.5	4030.8	2628.1	2572.3	2552.4	2570.3	2590.2	2598.2	2624.1
10888.9	35°	9819.0	7756.8	3620.4	2460.7	2460.7	2434.8	2444.8	2440.8	2422.9	2410.9
11705.9	37.5°	10341.0	7752.8	3281.6	2383.0	2367.1	2363.1	2365.1	2339.2	2269.4	2185.8
12694.1	40°	10968.6	7860.4	3020.6	2329.2	2317.3	2341.2	2329.2	2259.5	2068.2	1922.8
13909.6	42.5°	11811.5	8167.2	2853.2	2263.5	2299.3	2329.2	2281.4	2040.3	1910.8	1813.2
15294.3	45°	12803.7	8665.3	2767.6	2193.7	2265.5	2301.3	2070.2	1964.6	1861.0	1743.4
16804.6	47.5°	13927.5	9293.0	2747.6	2128.0	2189.7	2211.7	1980.5	1932.7	1815.2	1687.6
18322.9	50°	15150.9	10036.2	2801.4	2050.3	2080.2	2004.4	1950.6	1906.8	1785.3	1659.7
19879.1	52.5°	16416.1	10855.1	2909.0	1944.7	1970.6	1886.9	1938.7	1900.8	1767.3	1598.0
21487.0	55°	17659.4	11680.0	3012.6	1821.1	1859.0	1781.3	1904.8	1876.9	1685.6	1494.4
23202.5	57.5°	18922.7	12500.9	3114.3	1711.5	1751.4	1679.7	1851.0	1813.2	1594.0	1398.7
25075.5	60°	20235.7	13297.9	3162.1	1605.9	1633.8	1586.0	1769.3	1703.6	1490.4	1301.1
26916.5	62.5°	21465.1	13961.4	3084.4	1500.3	1518.3	1498.4	1661.7	1574.1	1386.8	1191.5
28835.3	65°	22698.4	14355.9	2845.3	1396.7	1400.7	1390.8	1510.3	1434.6	1265.2	1095.9
30515.0	67.5°	23816.2	14577.0	2464.7	1285.2	1275.2	1271.2	1368.8	1283.2	1147.7	1000.2
31792.1	70°	24053.3	14015.2	1882.9	1153.7	1153.7	1143.7	1213.4	1125.8	1018.2	898.6
30877.6	72.5°	21969.2	11789.6	1337.0	1004.2	1020.2	1000.2	1058.0	984.3	886.7	807.0
26611.7	75°	17715.2	8645.4	972.3	850.8	878.7	844.8	898.6	846.8	763.1	761.1
18338.9	77.5°	12172.1	5345.8	705.3	701.4	721.3	677.4	739.2	711.3	635.6	601.7
7981.9	80°	5194.4	2132.0	514.1	542.0	542.0	502.1	573.8	581.8	516.1	500.1
1540.2	82.5°	1034.1	605.7	360.6	372.6	350.7	338.7	406.5	450.3	621.7	691.4
464.2	85°	310.8	223.2	217.2	203.2	179.3	181.3	239.1	452.3	557.9	318.8
153.4	87.5°	85.7	55.8	57.8	45.8	37.9	49.8	81.7	342.7	187.3	79.7
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>
7561.5
7320.4
6680.8
5642.7
4505.0
3775.8
3301.6
3160.1
3104.3
2976.8
2831.3
2753.6
2713.8
2646.0
2438.8
2187.8
1918.8
1809.2
1735.5
1677.7
1645.8
1586.0
1484.4
1394.7
1295.1
1189.5
1083.9
988.3
894.6
783.0
685.4
563.9
500.1
693.4
275.0
67.7
0.0

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